

EPHEMERIDES

8 25.9

8 26.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
239331	2007 RZ ₆₉		8 25.9 193°30	2°2/24.1	18		184956	2005 WC ₁₀₄		8 26.0 49°69	5°7/20.1	18	
7 20	22 44.60	-14 7.5	1.890	2.747	13.8	20.8	7 20	22 42.79	-24 20.0	2.032	2.901	12.5	19.5
7 30	22 40.19	-14 45.8	1.817	2.746	10.5	20.6	7 30	22 38.73	-25 34.0	1.978	2.908	9.7	19.3
8 9	22 33.69	-15 31.5	1.766	2.746	6.8	20.3	8 9	22 32.68	-26 47.3	1.946	2.916	7.1	19.2
8 19	22 25.64	-16 19.4	1.740	2.745	3.1	20.1	8 19	22 25.22	-27 52.7	1.940	2.924	5.7	19.1
8 29	22 16.91	-17 3.5	1.742	2.745	3.1	20.1	8 29	22 17.20	-28 43.6	1.961	2.932	6.6	19.2
9 8	22 8.49	-17 38.4	1.770	2.744	6.7	20.3	9 8	22 9.56	-29 15.3	2.008	2.940	9.0	19.4
9 18	22 1.32	-18 0.4	1.824	2.743	10.4	20.6	9 18	22 3.15	-29 26.2	2.078	2.949	11.6	19.5
9 28	21 56.13	-18 7.6	1.902	2.743	13.7	20.8	9 28	21 58.66	-29 16.9	2.170	2.957	14.1	19.7
433804	2015 BW ₁₀₄		8 25.9 175°00	0°5/25.6	17		496805	2017 JE ₂		8 26.0 12°88	20°/3.2	17	
7 20	22 46.18	- 8 27.5	1.855	2.695	14.7	22.4	7 20	22 41.95	-40 28.2	0.869	1.772	21.6	19.8
7 30	22 41.42	- 9 7.5	1.779	2.698	11.3	22.2	7 30	22 41.55	-45 15.2	0.854	1.773	20.2	19.7
8 9	22 34.51	-10 0.2	1.724	2.700	7.4	22.0	8 9	22 36.44	-49 31.9	0.859	1.774	20.3	19.7
8 19	22 26.00	-11 0.9	1.695	2.701	3.0	21.7	8 19	22 27.32	-52 52.6	0.882	1.776	21.8	19.8
8 29	22 16.76	-12 3.7	1.694	2.702	1.6	21.6	8 29	22 16.24	-55 0.6	0.921	1.779	24.0	20.0
9 8	22 7.81	-13 1.7	1.720	2.702	6.0	21.9	9 8	22 6.07	-55 53.7	0.973	1.783	26.3	20.2
9 18	22 0.12	-13 49.9	1.773	2.702	10.1	22.2	9 18	21 59.27	-55 40.4	1.035	1.787	28.4	20.4
9 28	21 54.47	-14 24.5	1.849	2.701	13.6	22.4	9 28	21 57.25	-54 33.7	1.105	1.791	30.1	20.6
511686	2015 BH ₅₁₂		8 25.9 187°49	2°4/28.2	17		333591	2007 CM ₂₉		8 26.0 79°28	3°5/22.6	18	
7 20	22 45.12	- 0 53.0	1.869	2.683	15.6	22.3	7 20	22 42.21	-12 38.9	1.545	2.413	15.7	20.5
7 30	22 40.63	- 1 12.9	1.786	2.683	12.5	22.0	7 30	22 38.76	-14 26.6	1.487	2.423	11.8	20.3
8 9	22 34.02	- 1 50.7	1.723	2.682	8.8	21.8	8 9	22 32.96	-16 27.3	1.451	2.434	7.6	20.1
8 19	22 25.81	- 2 44.2	1.685	2.681	4.8	21.6	8 19	22 25.41	-18 31.5	1.440	2.444	3.9	19.9
8 29	22 16.83	- 3 48.8	1.673	2.679	2.4	21.4	8 29	22 17.11	-20 27.7	1.457	2.455	4.7	20.0
9 8	22 8.09	- 4 58.3	1.689	2.676	5.4	21.6	9 8	22 9.22	-22 6.0	1.500	2.465	8.6	20.2
9 18	22 0.52	- 6 5.9	1.733	2.673	9.4	21.9	9 18	22 2.79	-23 20.3	1.567	2.475	12.5	20.5
9 28	21 54.93	- 7 5.7	1.800	2.670	13.0	22.1	9 28	21 58.64	-24 8.3	1.656	2.485	15.9	20.7
103615	2000 CQ ₂₂		8 25.9 209°99	0°0/26.0	18		472274	2014 UC ₈₄		8 26.0 183°45	5°9/21.5	17	
7 20	22 42.55	- 7 6.4	2.417	3.244	12.1	20.5	7 20	22 50.23	-21 58.9	1.583	2.451	15.4	21.5
7 30	22 38.23	- 7 47.9	2.327	3.238	9.3	20.3	7 30	22 45.04	-23 5.9	1.519	2.451	12.0	21.3
8 9	22 32.25	- 8 40.5	2.260	3.231	6.1	20.1	8 9	22 37.12	-24 15.0	1.477	2.451	8.4	21.1
8 19	22 25.02	- 9 41.1	2.219	3.224	2.6	19.9	8 19	22 27.18	-25 17.4	1.459	2.451	6.0	20.9
8 29	22 17.18	-10 44.9	2.207	3.216	1.1	19.7	8 29	22 16.36	-26 4.1	1.467	2.450	6.9	21.0
9 8	22 9.49	-11 46.7	2.225	3.208	4.8	20.0	9 8	22 6.02	-26 29.0	1.500	2.449	10.1	21.2
9 18	22 2.66	-12 41.9	2.271	3.199	8.2	20.2	9 18	21 57.39	-26 29.9	1.557	2.447	13.7	21.4
9 28	21 57.34	-13 26.9	2.342	3.189	11.2	20.4	9 28	21 51.38	-26 8.2	1.634	2.445	16.9	21.6
268193	2005 AF ₁₉		8 26.0 290°01	2°2/28.7	18		322588	2012 BY ₁₄		8 26.0 258°48	0°8/25.1	18	
7 20	22 39.21	+ 1 54.0	2.415	3.211	13.0	20.6	7 20	22 40.13	- 9 23.9	2.358	3.199	11.9	21.1
7 30	22 35.87	+ 0 59.9	2.295	3.180	10.5	20.4	7 30	22 36.47	-10 14.2	2.268	3.188	9.1	20.9
8 9	22 30.86	- 0 14.1	2.197	3.149	7.6	20.1	8 9	22 31.16	-11 15.0	2.201	3.178	5.9	20.7
8 19	22 24.51	- 1 46.1	2.124	3.118	4.3	19.9	8 19	22 24.61	-12 22.3	2.161	3.167	2.4	20.4
8 29	22 17.39	- 3 31.9	2.080	3.086	2.2	19.7	8 29	22 17.44	-13 31.1	2.149	3.156	1.7	20.4
9 8	22 10.23	- 5 25.2	2.066	3.054	4.6	19.8	9 8	22 10.40	-14 35.7	2.166	3.145	5.2	20.6
9 18	22 3.77	- 7 18.6	2.082	3.021	8.1	20.0	9 18	22 4.22	-15 31.4	2.210	3.134	8.6	20.8
9 28	21 58.73	- 9 4.8	2.124	2.989	11.5	20.1	9 28	21 59.53	-16 14.8	2.279	3.123	11.6	21.0
185292	2006 UJ ₂₂₆		8 26.0 304°28	0°6/26.6	18		508506	2016 QT ₂₄		8 26.0 127°65	5°2/30.2	18	
7 20	22 41.57	- 6 20.1	1.942	2.781	14.2	20.6	7 20	22 47.21	+ 4 1.2	1.897	2.683	16.4	20.5
7 30	22 37.86	- 6 41.1	1.858	2.774	11.0	20.3	7 30	22 42.13	+ 4 33.9	1.821	2.692	13.5	20.3
8 9	22 32.20	- 7 14.9	1.795	2.768	7.4	20.1	8 9	22 34.94	+ 4 48.8	1.765	2.700	10.3	20.1
8 19	22 25.05	- 7 58.8	1.757	2.761	3.3	19.9	8 19	22 26.21	+ 4 45.2	1.732	2.708	7.1	20.0
8 29	22 17.20	- 8 48.0	1.746	2.755	1.2	19.7	8 29	22 16.78	+ 4 24.8	1.725	2.716	5.2	19.9
9 8	22 9.54	- 9 36.9	1.762	2.749	5.3	20.0	9 8	22 7.65	+ 3 51.2	1.746	2.723	6.4	20.0
9 18	22 2.97	-10 20.4	1.805	2.743	9.3	20.2	9 18	21 59.77	+ 3 9.9	1.792	2.730	9.3	20.2
9 28	21 58.23	-10 54.4	1.871	2.737	12.8	20.4	9 28	21 53.88	+ 2 26.8	1.863	2.737	12.5	20.4
276930	2004 TY ₁₅₆		8 26.0 94°26	4°9/22.3	17		234070	1999 PV ₁		8 26.0 352°35	1°5/25.3	18	
7 20	22 49.02	-21 28.4	1.727	2.592	14.5	20.4	7 20	22 47.98	-15 5.7	1.249	2.126	18.2	18.5
7 30	22 43.67	-22 14.9	1.672	2.603	11.1	20.2	7 30	22 43.80	-14 39.3	1.180	2.118	14.0	18.2
8 9	22 35.95	-23 2.1	1.639	2.614	7.7	20.0	8 9	22 36.57	-14 17.5	1.129	2.112	9.2	17.9
8 19	22 26.58	-23 43.0	1.630	2.625	5.1	19.9	8 19	22 27.02	-13 56.3	1.101	2.107	3.9	17.6
8 29	22 16.60	-24 10.8	1.648	2.636	5.8	19.9	8 29	22 16.43	-13 31.4	1.096	2.104	2.6	17.5
9 8	22 7.19	-24 21.2	1.692	2.647	8.7	20.1	9 8	22 6.38	-12 59.6	1.116	2.102	7.8	17.8
9 18	21 59.37	-24 12.9	1.760	2.657	12.0	20.4	9 18	21 58.26	-12 19.3	1.159	2.101	12.9	18.1
9 28	21 53.89	-23 46.7	1.851	2.667	15.0	20.6	9 28	21 53.08	-11 30.1	1.223	2.101	17.3	18.4
152131	2004 TW ₁₁₇		8 26.0 8°54	1°1/27.1	18		176467	2001 XD ₁₂₅		8 26.0 286°77	0°2/25.9	18	
7 20	22 38.78	- 4 24.0	1.862	2.702	14.7	19.3	7 20	22 41.34	- 8 9.4	2.034	2.877	13.5	21.0
7 30	22 35.74	- 4 52.1	1.787	2.703	11.4	19.1	7 30	22 37.65	- 8 40.5	1.947	2.867	10.4	20.8
8 9	22 30.79	- 5 35.4	1.734	2.705	7.7	18.9	8 9	22 32.06	- 9 23.2	1.881	2.857	6.8	20.6
8 19	22 24.45	- 6 30.6	1.705	2.707	3.7	18.7	8 19	22 25.03	-10 14.3	1.841	2.847	2.9	20.3
8 29	22 17.48	- 7 32.7	1.702	2.710	1.4	18.5	8 29	22 17.28	-11 8.5	1.828	2.837	1.3	20.2
9 8	22 10.77	- 8 35.3	1.726	2.714	5.2	18.8	9 8	22 9.70	-12 0.4	1.843	2.827	5.4	20.4
9 18	22 5.17	- 9 32.6	1.775	2.718	9.1	19.0	9 18	22 3.14	-12 44.9	1.884	2.817	9.3	20.6
9 28	22 1.37	-10 19.6	1.849	2.722	12.6	19.3	9 28	21 58.34	-13 18.2	1.949	2.807	12.7	20.8
382510	2001 SK ₁₈		8 26.0 318°35	1°6/27.3	18		174957	2004 CJ ₁₂₉		8 26.0 248°14	0°7/25.4	18	
7 20	22 39.27	- 3 8.6</											

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
479035	2013 <i>AK</i> ₂₈		8 26.0 243°66	0°2/26.3	18		321836	2010 <i>RD</i> ₉₈		8 26.0 174°64	7°4/ 2.9	17	
7 20	22 42.83	- 7 9.7	2.308	3.137	12.5	22.1	7 20	22 43.87	+14 18.8	1.904	2.636	18.1	21.2
7 30	22 38.59	- 7 37.8	2.212	3.124	9.7	21.9	7 30	22 39.73	+14 9.8	1.816	2.639	15.6	21.1
8 9	22 32.58	- 8 16.9	2.139	3.110	6.4	21.7	8 9	22 33.49	+13 32.6	1.746	2.641	12.7	20.9
8 19	22 25.23	- 9 4.3	2.091	3.096	2.8	21.4	8 19	22 25.67	+12 25.8	1.698	2.643	9.8	20.7
8 29	22 17.19	- 9 55.6	2.073	3.081	1.1	21.3	8 29	22 17.07	+10 51.4	1.674	2.644	7.7	20.6
9 8	22 9.27	-10 45.9	2.082	3.066	4.9	21.5	9 8	22 8.70	+ 8 55.7	1.677	2.644	7.7	20.6
9 18	22 2.23	-11 30.8	2.119	3.051	8.5	21.7	9 18	22 1.49	+ 6 47.8	1.707	2.644	9.8	20.7
9 28	21 56.77	-12 6.5	2.182	3.035	11.7	21.9	9 28	21 56.24	+ 4 38.3	1.763	2.643	12.8	20.9
47473	2000 <i>AU</i> ₂		8 26.0 297°20	2°7/24.1	18 R		520243	2014 <i>DN</i> ₁₅₄		8 26.0 191°28	1°5/24.6	18	
7 20	22 43.70	-13 3.9	1.419	2.291	16.6	18.5	7 20	22 42.91	-11 31.7	2.085	2.933	13.0	21.7
7 30	22 40.51	-13 49.4	1.330	2.267	12.9	18.3	7 30	22 38.76	-12 18.6	2.007	2.932	9.9	21.5
8 9	22 34.54	-14 48.3	1.260	2.244	8.4	17.9	8 9	22 32.73	-13 14.7	1.953	2.931	6.4	21.3
8 19	22 26.28	-15 54.5	1.214	2.220	3.9	17.6	8 19	22 25.31	-14 15.6	1.924	2.930	2.7	21.0
8 29	22 16.72	-16 59.1	1.193	2.197	3.8	17.5	8 29	22 17.25	-15 15.2	1.924	2.929	2.3	21.0
9 8	22 7.24	-17 53.0	1.196	2.173	8.7	17.8	9 8	22 9.44	-16 7.9	1.951	2.928	5.9	21.3
9 18	21 59.22	-18 29.5	1.222	2.150	13.6	18.0	9 18	22 2.69	-16 49.4	2.005	2.926	9.5	21.5
9 28	21 53.81	-18 44.8	1.268	2.127	18.1	18.2	9 28	21 57.70	-17 17.0	2.082	2.924	12.6	21.7
210449	2136 <i>P-L</i>		8 26.0 315°15	6°0/22.4	17		476111	2007 <i>TD</i> ₁₆₂		8 26.0 5°90	7°9/ 2.4	18	
7 20	22 48.86	-23 0.4	1.471	2.345	16.0	20.3	7 20	22 30.51	+ 9 58.3	1.105	1.935	23.1	19.6
7 30	22 44.62	-23 28.6	1.378	2.313	12.7	20.0	7 30	22 30.49	+10 2.6	1.043	1.935	19.7	19.4
8 9	22 37.31	-23 57.2	1.305	2.281	9.0	19.7	8 9	22 27.94	+ 9 28.7	0.997	1.938	15.6	19.2
8 19	22 27.47	-24 18.5	1.254	2.250	6.3	19.4	8 19	22 23.44	+ 8 15.2	0.968	1.942	11.4	19.0
8 29	22 16.21	-24 23.9	1.229	2.219	6.9	19.4	8 29	22 18.04	+ 6 26.7	0.959	1.949	8.3	18.8
9 8	22 5.07	-24 7.4	1.227	2.188	10.6	19.5	9 8	22 13.04	+ 4 14.6	0.971	1.958	8.5	18.9
9 18	21 55.55	-23 26.8	1.249	2.158	15.0	19.7	9 18	22 9.61	+ 1 54.0	1.006	1.969	11.8	19.1
9 28	21 48.90	-22 23.8	1.290	2.129	19.0	19.9	9 28	22 8.65	- 0 19.8	1.063	1.982	15.8	19.4
84183	2002 <i>RE</i> ₁₀₇		8 26.0 308°53	4°9/22.2	18		477936	2011 <i>QQ</i> ₇₄		8 26.0 319°79	0°4/25.7	18	
7 20	22 45.01	-20 47.4	1.707	2.578	14.3	18.3	7 20	22 43.16	- 9 48.9	1.730	2.584	15.0	21.5
7 30	22 41.06	-21 31.3	1.620	2.555	11.1	18.1	7 30	22 39.37	-10 5.3	1.649	2.575	11.6	21.2
8 9	22 34.62	-22 18.7	1.555	2.533	7.7	17.8	8 9	22 33.35	-10 32.7	1.588	2.566	7.6	21.0
8 19	22 26.22	-23 2.5	1.514	2.510	5.1	17.6	8 19	22 25.64	-11 7.4	1.552	2.558	3.1	20.7
8 29	22 16.79	-23 35.3	1.498	2.488	5.9	17.6	8 29	22 17.10	-11 44.1	1.542	2.550	1.6	20.6
9 8	22 7.54	-23 51.0	1.508	2.467	9.2	17.8	9 8	22 8.82	-12 17.3	1.558	2.543	6.2	20.9
9 18	21 59.64	-23 46.5	1.541	2.445	13.0	17.9	9 18	22 1.78	-12 42.2	1.600	2.536	10.4	21.1
9 28	21 54.07	-23 21.7	1.596	2.424	16.5	18.1	9 28	21 56.83	-12 55.5	1.664	2.529	14.2	21.3
375216	2008 <i>FR</i> ₂₆		8 26.0 111°10	0°1/26.0	17		182499	2001 <i>SF</i> ₂₀₇		8 26.0 22°82	10°2/21.9	15	
7 20	22 47.04	- 8 0.2	1.674	2.517	15.9	21.6	7 20	22 55.15	-31 33.3	1.092	1.975	19.7	19.1
7 30	22 42.17	- 8 26.2	1.610	2.530	12.2	21.4	7 30	22 49.56	-32 0.9	1.053	1.985	16.0	18.9
8 9	22 35.03	- 9 4.9	1.568	2.543	8.0	21.2	8 9	22 40.25	-32 15.6	1.031	1.996	12.5	18.7
8 19	22 26.26	- 9 52.1	1.549	2.555	3.4	20.9	8 19	22 28.45	-32 6.8	1.030	2.008	10.4	18.6
8 29	22 16.83	-10 41.8	1.558	2.567	1.4	20.8	8 29	22 16.04	-31 27.0	1.051	2.022	10.9	18.7
9 8	22 7.86	-11 27.7	1.594	2.578	6.0	21.1	9 8	22 4.97	-30 15.8	1.094	2.037	13.7	18.9
9 18	22 0.34	-12 4.8	1.655	2.589	10.3	21.4	9 18	21 56.72	-28 38.5	1.158	2.053	17.0	19.2
9 28	21 55.04	-12 29.7	1.740	2.600	13.9	21.7	9 28	21 52.07	-26 42.8	1.240	2.070	20.2	19.5
506913	2008 <i>DG</i> ₇₄		8 26.0 187°47	0°9/25.3	17		25429	1999 <i>VM</i> ₁₈₇		8 26.0 115°29	6°6/ 1.2	18	
7 20	22 47.18	-10 12.0	1.785	2.630	15.0	22.6	7 20	22 44.34	+ 9 29.1	1.703	2.475	18.5	19.1
7 30	22 42.33	-10 45.4	1.708	2.630	11.5	22.4	7 30	22 40.18	+ 9 35.5	1.632	2.487	15.6	18.9
8 9	22 35.20	-11 30.0	1.652	2.629	7.5	22.1	8 9	22 33.80	+ 9 16.1	1.578	2.498	12.3	18.7
8 19	22 26.38	-12 21.1	1.622	2.628	3.1	21.9	8 19	22 25.80	+ 8 30.2	1.546	2.510	9.0	18.5
8 29	22 16.76	-13 12.7	1.619	2.626	2.0	21.8	8 29	22 17.07	+ 7 20.6	1.538	2.521	6.7	18.4
9 8	22 7.45	-13 58.4	1.643	2.624	6.4	22.1	9 8	22 8.70	+ 5 53.8	1.556	2.532	7.3	18.5
9 18	21 59.46	-14 33.5	1.694	2.621	10.5	22.3	9 18	22 1.66	+ 4 18.3	1.600	2.542	10.0	18.7
9 28	21 53.62	-14 54.9	1.767	2.618	14.1	22.5	9 28	21 56.74	+ 2 43.4	1.668	2.552	13.2	18.9
174814	2003 <i>XG</i> ₂₁		8 26.0 187°39	0°1/26.0	18		203260	2001 <i>QW</i> ₁₈₆		8 26.0 264°37	0°2/25.9	17	
7 20	22 48.44	- 8 48.5	1.817	2.654	15.0	20.8	7 20	22 46.30	- 8 14.3	1.361	2.220	18.0	21.1
7 30	22 43.24	- 9 3.5	1.737	2.654	11.6	20.5	7 30	22 42.42	- 8 36.2	1.283	2.211	14.0	20.9
8 9	22 35.77	- 9 29.4	1.680	2.654	7.7	20.3	8 9	22 35.70	- 9 14.2	1.224	2.203	9.3	20.6
8 19	22 26.61	-10 2.9	1.647	2.653	3.2	20.0	8 19	22 26.74	-10 4.0	1.188	2.194	3.9	20.2
8 29	22 16.66	-10 39.0	1.642	2.651	1.4	19.9	8 29	22 16.64	-10 58.5	1.176	2.185	1.7	20.1
9 8	22 7.02	-11 12.2	1.665	2.648	5.9	20.2	9 8	22 6.82	-11 49.6	1.190	2.176	7.3	20.4
9 18	21 58.70	-11 38.2	1.714	2.646	10.1	20.4	9 18	21 58.62	-12 30.3	1.227	2.167	12.5	20.7
9 28	21 52.52	-11 53.8	1.786	2.642	13.8	20.7	9 28	21 53.12	-12 55.8	1.285	2.157	17.0	20.9
508031	2015 <i>BF</i> ₄₃₈		8 26.0 200°48	1°0/26.8	17		144373	2004 <i>DX</i> ₅₂		8 26.0 219°83	4°5/22.3	18	
7 20	22 47.63	- 6 7.7	1.832	2.662	15.2	22.1	7 20	22 47.60	-19 4.6	1.789	2.651	14.2	20.3
7 30	22 42.64	- 6 17.8	1.748	2.659	11.9	21.9	7 30	22 42.81	-20 5.5	1.714	2.645	10.9	20.1
8 9	22 35.40	- 6 40.9	1.686	2.656	8.0	21.6	8 9	22 35.62	-21 11.2	1.661	2.638	7.4	19.8
8 19	22 26.47	- 7 14.3	1.649	2.652	3.7	21.4	8 19	22 26.61	-22 14.7	1.633	2.631	4.7	19.7
8 29	22 16.72	- 7 53.6	1.639	2.648	1.4	21.2	8 29	22 16.73	-23 8.0	1.632	2.623	5.4	19.7
9 8	22 7.23	- 8 33.2	1.657	2.643	5.7	21.5	9 8	22 7.15	-23 44.9	1.658	2.615	8.7	19.9
9 18	21 58.99	- 9 8.3	1.701	2.637	9.9	21.7	9 18	21 58.95	-24 1.9	1.708	2.606	12.3	20.1
9 28	21 52.84	- 9 34.7	1.769	2.631	13.6	21.9	9 28	21 53.00	-23 58.7	1.780	2.597	15.5	20.3
312787	2010 <i>VA</i> ₁₁₄		8 26.0 322°88	6°5/ 9.9	18		418193	2008 <i>CV</i> ₃₂					

EPHEMERIDES

8 26.0

8 26.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
367960	2012 <i>DR</i> ₇₅		8 26.0 144°15'	2°2'/28.5 18			514694	2006 <i>BP</i> ₁₆₃		8 26.0 170°28'	1°3'/27.3 18		
7 20	22 41.97	- 1 33.0	2.593	3.395	12.1	21.4	7 20	22 43.66	- 5 24.4	2.449	3.267	12.2	21.7
7 30	22 37.62	- 1 32.3	2.509	3.399	9.6	21.2	7 30	22 39.02	- 5 19.6	2.365	3.267	9.6	21.6
8 9	22 31.78	- 1 43.1	2.448	3.403	6.8	21.0	8 9	22 32.76	- 5 24.1	2.303	3.268	6.5	21.4
8 19	22 24.87	- 2 4.0	2.413	3.406	3.9	20.8	8 19	22 25.33	- 5 36.5	2.268	3.268	3.3	21.2
8 29	22 17.49	- 2 32.6	2.406	3.410	2.2	20.7	8 29	22 17.37	- 5 54.1	2.261	3.269	1.5	21.0
9 8	22 10.30	- 3 5.7	2.428	3.413	4.2	20.9	9 8	22 9.62	- 6 13.7	2.283	3.269	4.3	21.2
9 18	22 3.94	- 3 39.5	2.477	3.416	7.1	21.1	9 18	22 2.78	- 6 32.1	2.332	3.269	7.6	21.5
9 28	21 58.96	- 4 10.5	2.553	3.419	9.8	21.2	9 28	21 57.44	- 6 46.5	2.407	3.269	10.5	21.6
16675	Torii		8 26.0 82°43'	3°5'/28.3 18			507184	2010 <i>NC</i> ₄		8 26.0 3°66'	2°2'/27.1 17		
7 20	22 48.71	- 2 4.3	1.460	2.290	18.5	17.6	7 20	22 47.56	- 7 19.7	1.083	1.953	20.8	20.9
7 30	22 43.80	- 1 39.1	1.395	2.300	14.7	17.4	7 30	22 43.81	- 6 39.4	1.020	1.952	16.4	20.6
8 9	22 36.30	- 1 31.3	1.348	2.310	10.4	17.1	8 9	22 36.79	- 6 13.4	0.974	1.952	11.2	20.3
8 19	22 26.88	- 1 40.0	1.324	2.319	6.0	16.9	8 19	22 27.25	- 6 0.5	0.949	1.953	5.5	20.0
8 29	22 16.65	- 2 1.9	1.325	2.329	3.5	16.8	8 29	22 16.56	- 5 57.4	0.946	1.954	2.5	19.8
9 8	22 6.91	- 2 31.8	1.352	2.339	6.5	17.0	9 8	22 6.44	- 5 58.7	0.966	1.957	7.6	20.1
9 18	21 58.82	- 3 3.5	1.404	2.349	10.8	17.3	9 18	21 58.41	- 5 59.4	1.008	1.960	13.1	20.4
9 28	21 53.25	- 3 31.4	1.478	2.358	14.7	17.5	9 28	21 53.56	- 5 54.8	1.070	1.964	17.9	20.7
510993	2013 <i>JU</i> ₄₀		8 26.0 123°69'	4°0'/21.3 18			296876	2010 <i>AS</i> ₁₂		8 26.1 193°07'	1°8'/24.3 17		
7 20	22 42.11	-21 13.0	2.511	3.369	10.7	21.5	7 20	22 46.11	-13 27.3	2.163	3.008	12.7	22.0
7 30	22 37.85	-22 14.9	2.447	3.375	8.2	21.4	7 30	22 41.17	-14 6.6	2.084	3.006	9.7	21.8
8 9	22 31.98	-23 18.0	2.408	3.382	5.7	21.2	8 9	22 34.30	-14 53.0	2.027	3.004	6.3	21.6
8 19	22 24.96	-24 17.3	2.396	3.388	4.0	21.1	8 19	22 26.02	-15 42.0	1.996	3.001	2.8	21.4
8 29	22 17.47	-25 7.3	2.412	3.394	4.7	21.2	8 29	22 17.08	-16 28.2	1.994	2.998	2.6	21.4
9 8	22 10.25	-25 44.0	2.456	3.400	7.0	21.3	9 8	22 8.39	-17 6.6	2.021	2.994	6.1	21.6
9 18	22 3.97	-26 5.3	2.525	3.406	9.5	21.5	9 18	22 0.78	-17 33.6	2.074	2.990	9.5	21.8
9 28	21 59.23	-26 10.6	2.618	3.412	11.7	21.7	9 28	21 54.97	-17 47.4	2.151	2.985	12.6	22.0
405858	2006 <i>DU</i> ₅₅		8 26.0 196°71'	1°6'/24.1 18			171211	2005 <i>JP</i> ₆₉		8 26.1 286°43'	5°4'/21.4 18		
7 20	22 40.98	-13 34.7	2.745	3.588	10.4	21.9	7 20	22 45.92	-22 20.8	1.844	2.711	13.6	20.5
7 30	22 36.85	-14 17.6	2.664	3.587	7.9	21.8	7 30	22 41.60	-23 16.5	1.761	2.693	10.6	20.3
8 9	22 31.29	-15 6.3	2.607	3.584	5.0	21.6	8 9	22 34.91	-24 14.5	1.700	2.674	7.5	20.0
8 19	22 24.68	-15 57.0	2.577	3.582	2.3	21.4	8 19	22 26.38	-25 7.6	1.664	2.656	5.5	19.9
8 29	22 17.59	-16 45.4	2.576	3.579	2.3	21.4	8 29	22 16.91	-25 48.2	1.655	2.638	6.3	19.9
9 8	22 10.67	-17 27.7	2.605	3.576	5.0	21.6	9 8	22 7.66	-26 10.5	1.671	2.619	9.3	20.0
9 18	22 4.54	-18 0.7	2.661	3.573	7.8	21.7	9 18	21 59.70	-26 11.7	1.711	2.601	12.7	20.2
9 28	21 59.73	-18 22.6	2.741	3.570	10.3	21.9	9 28	21 53.95	-25 52.0	1.772	2.583	15.8	20.4
187661	2007 <i>JG</i> ₄₃		8 26.0 40°21'	1°7'/11.4 08 C			395911	2013 <i>AK</i> ₈₄		8 26.1 274°94'	2°4'/23.8 18		
7 20	22 27.09	-46 28.8	18.478	19.270	1.9	22.3	7 20	22 42.78	-13 57.5	1.937	2.794	13.4	21.1
7 30	22 25.36	-46 44.1	18.453	19.286	1.8	22.3	7 30	22 38.91	-14 46.6	1.856	2.786	10.3	20.9
8 9	22 23.39	-46 57.2	18.453	19.301	1.7	22.3	8 9	22 32.99	-15 44.0	1.797	2.777	6.6	20.7
8 19	22 21.26	-47 7.6	18.477	19.317	1.7	22.3	8 19	22 25.51	-16 44.6	1.764	2.769	3.1	20.5
8 29	22 19.06	-47 14.8	18.526	19.332	1.8	22.3	8 29	22 17.29	-17 41.9	1.758	2.760	3.3	20.5
9 8	22 16.90	-47 18.5	18.598	19.348	2.0	22.3	9 8	22 9.27	-18 29.7	1.779	2.751	6.8	20.7
9 18	22 14.87	-47 18.6	18.692	19.363	2.3	22.3	9 18	22 2.39	-19 3.7	1.826	2.743	10.5	20.9
9 28	22 13.05	-47 15.0	18.806	19.379	2.5	22.4	9 28	21 57.42	-19 21.6	1.895	2.734	13.8	21.1
257189	2008 <i>KU</i> ₁₁		8 26.0 67°34'	4°3'/30.8 18			212485	2006 <i>QS</i> ₉₃		8 26.1 319°14'	5°4'/29.8 18		
7 20	22 40.43	+ 5 9.7	2.273	3.053	14.2	20.7	7 20	22 39.48	+ 2 27.9	1.247	2.087	20.4	20.1
7 30	22 36.69	+ 5 13.2	2.191	3.058	11.7	20.5	7 30	22 37.46	+ 2 45.1	1.162	2.069	16.9	19.8
8 9	22 31.30	+ 4 59.5	2.130	3.063	8.9	20.4	8 9	22 32.67	+ 2 36.5	1.093	2.051	12.7	19.5
8 19	22 24.72	+ 4 28.9	2.093	3.068	6.1	20.2	8 19	22 25.59	+ 2 0.6	1.044	2.034	8.3	19.2
8 29	22 17.59	+ 3 43.7	2.081	3.072	4.4	20.1	8 29	22 17.21	+ 1 0.0	1.017	2.018	5.4	19.0
9 8	22 10.67	+ 2 48.1	2.098	3.077	5.3	20.2	9 8	22 8.92	- 0 17.8	1.013	2.002	7.7	19.1
9 18	22 4.67	+ 1 47.3	2.141	3.082	7.8	20.4	9 18	22 2.13	- 1 42.6	1.031	1.988	12.4	19.3
9 28	22 0.20	+ 0 46.8	2.210	3.087	10.6	20.5	9 28	21 58.02	- 3 3.3	1.070	1.974	17.1	19.5
480150	2015 <i>FR</i> ₂₄₉		8 26.0 49°22'	3°4'/23.4 16			137965	2000 <i>CT</i> ₂₄		8 26.1 192°91'	0°8'/26.7 18		
7 20	22 45.20	-15 17.6	1.401	2.275	16.7	20.7	7 20	22 46.33	- 5 48.1	1.920	2.749	14.7	20.8
7 30	22 41.06	-16 14.3	1.358	2.297	12.6	20.5	7 30	22 41.56	- 6 9.5	1.837	2.747	11.5	20.6
8 9	22 34.41	-17 18.3	1.336	2.319	8.1	20.3	8 9	22 34.68	- 6 44.4	1.776	2.745	7.7	20.4
8 19	22 26.04	-18 21.7	1.338	2.342	4.1	20.2	8 19	22 26.22	- 7 29.6	1.740	2.743	3.5	20.1
8 29	22 17.10	-19 16.0	1.365	2.365	4.4	20.2	8 29	22 17.00	- 8 20.5	1.731	2.740	1.3	20.0
9 8	22 8.86	-19 54.8	1.416	2.388	8.3	20.5	9 8	22 8.01	- 9 11.2	1.750	2.736	5.5	20.2
9 18	22 2.35	-20 14.6	1.492	2.412	12.2	20.8	9 18	22 0.21	- 9 56.5	1.796	2.732	9.5	20.5
9 28	21 58.31	-20 15.1	1.588	2.436	15.6	21.1	9 28	21 54.37	-10 32.1	1.867	2.727	13.1	20.7
280602	2004 <i>VU</i> ₇₇		8 26.0 302°26'	9°5'/17.3 18			271571	2004 <i>KC</i> ₁₆		8 26.1 3°84'	1°5'/24.8 16		
7 20	22 46.38	-31 8.0	1.637	2.510	14.8	19.9	7 20	22 35.23	- 7 15.6	1.133	2.018	19.0	19.6
7 30	22 42.35	-32 45.2	1.577	2.501	12.2	19.7	7 30	22 34.15	- 8 36.9	1.073	2.017	14.5	19.3
8 9	22 35.56	-34 17.4	1.539	2.492	10.1	19.6	8 9	22 30.37	-10 21.8	1.031	2.017	9.4	19.0
8 19	22 26.66	-35 33.8	1.524	2.483	9.5	19.5	8 19	22 24.52	-12 21.9	1.011	2.018	3.8	18.7
8 29	22 16.79	-36 24.7	1.533	2.475	10.8	19.6	8 29	22 17.71	-14 24.3	1.014	2.021	3.0	18.7
9 8	22 7.34	-36 44.5	1.565	2.466	13.2	19.7	9 8	22 11.32	-16 15.1	1.041	2.025	8.4	19.0
9 18	21 59.57	-36 32.5	1.618	2.458	15.9	19.9	9 18	22 6.59	-17 43.6	1.090	2.031	13.6	19.3
9 28	21 54.45	-35 51.8	1.688	2.450	18.4	20.0	9 28	22 4.48	-18 44.1	1.158	2.037	18.0	19.6
448424	2009 <i>SY</i> ₂₇₃		8 26.0 179°01'	2°7'/23.3 18			108692	2001 <i>OO</i> ₁₁		8			

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
80011	1999 <i>GE</i> ₃		8 26.1	32°77	0°7/25.4	18	98592	2000 <i>WG</i> ₅₅		8 26.1	248°32	2°0/24.2	18
7 20	22 43.18	-10 18.2	1.908	2.757	14.0	19.6	7 20	22 44.91	-13 16.1	2.066	2.915	13.1	19.9
7 30	22 39.09	-10 43.1	1.835	2.759	10.7	19.4	7 30	22 40.50	-13 59.5	1.975	2.901	10.0	19.6
8 9	22 33.02	-11 17.7	1.784	2.762	6.9	19.2	8 9	22 34.04	-14 51.4	1.907	2.885	6.5	19.4
8 19	22 25.49	-11 58.1	1.758	2.764	2.8	18.9	8 19	22 26.01	-15 47.2	1.864	2.870	2.9	19.1
8 29	22 17.32	-12 39.1	1.759	2.767	1.7	18.9	8 29	22 17.17	-16 41.0	1.850	2.853	2.8	19.1
9 8	22 9.47	-13 15.4	1.788	2.770	5.7	19.1	9 8	22 8.46	-17 26.9	1.863	2.837	6.5	19.3
9 18	22 2.79	-13 43.0	1.842	2.773	9.6	19.4	9 18	22 0.80	-18 0.6	1.903	2.820	10.2	19.5
9 28	21 58.01	-13 59.1	1.920	2.777	12.9	19.6	9 28	21 54.98	-18 19.5	1.966	2.802	13.5	19.7
225741	2001 <i>SP</i> ₁₅		8 26.1	334°83	2°5/24.5	18	400932	2010 <i>UT</i> ₇₈		8 26.1	164°84	1°9/28.1	18
7 20	22 41.21	-13 43.3	1.176	2.064	18.2	20.3	7 20	22 43.13	- 2 45.1	2.581	3.386	12.0	20.8
7 30	22 38.95	-14 6.2	1.101	2.047	14.1	20.0	7 30	22 38.55	- 2 43.7	2.496	3.389	9.5	20.7
8 9	22 33.68	-14 40.5	1.045	2.031	9.2	19.6	8 9	22 32.44	- 2 53.0	2.434	3.391	6.7	20.5
8 19	22 26.00	-15 20.3	1.009	2.016	4.1	19.3	8 19	22 25.23	- 3 11.6	2.398	3.393	3.7	20.3
8 29	22 17.07	-15 57.2	0.997	2.003	3.7	19.2	8 29	22 17.53	- 3 37.2	2.390	3.395	2.0	20.2
9 8	22 8.45	-16 22.9	1.007	1.990	8.9	19.5	9 8	22 10.02	- 4 6.4	2.411	3.397	4.2	20.3
9 18	22 1.58	-16 31.8	1.039	1.979	14.2	19.8	9 18	22 3.35	- 4 35.7	2.460	3.398	7.2	20.5
9 28	21 57.62	-16 21.4	1.089	1.969	18.8	20.0	9 28	21 58.09	- 5 1.8	2.536	3.399	9.9	20.7
365229	2009 <i>HG</i> ₉₉		8 26.1	55°66	4°2/30.3	15	9376	Thionville		8 26.1	335°51	0°3/26.3	18
7 20	22 41.62	+ 3 56.4	1.864	2.662	16.2	21.2	7 20	22 42.35	- 7 6.1	1.757	2.603	15.1	17.5
7 30	22 37.80	+ 3 51.3	1.802	2.683	13.2	21.0	7 30	22 38.70	- 7 33.0	1.680	2.601	11.7	17.3
8 9	22 32.10	+ 3 26.1	1.760	2.703	9.8	20.8	8 9	22 32.92	- 8 13.7	1.623	2.598	7.8	17.1
8 19	22 25.07	+ 2 42.3	1.741	2.724	6.4	20.7	8 19	22 25.54	- 9 4.4	1.591	2.596	3.4	16.8
8 29	22 17.52	+ 1 43.6	1.748	2.745	4.2	20.6	8 29	22 17.41	- 9 59.7	1.585	2.594	1.3	16.7
9 8	22 10.37	+ 0 36.0	1.782	2.766	5.6	20.7	9 8	22 9.54	-10 53.0	1.606	2.592	5.8	17.0
9 18	22 4.40	- 0 33.8	1.842	2.787	8.6	20.9	9 18	22 2.89	-11 38.8	1.653	2.591	10.0	17.2
9 28	22 0.27	- 1 39.6	1.926	2.808	11.7	21.2	9 28	21 58.25	-12 12.8	1.723	2.589	13.7	17.4
63251	2001 <i>BG</i> ₃₈		8 26.1	124°03	0°9/27.0	18	266708	2009 <i>QE</i> ₃₁		8 26.1	319°55	3°3/22.3	18
7 20	22 42.39	- 5 37.4	2.511	3.332	11.9	20.1	7 20	22 38.43	-14 55.6	2.019	2.885	12.7	19.6
7 30	22 37.97	- 5 50.9	2.435	3.340	9.3	20.0	7 30	22 35.59	-16 20.0	1.936	2.872	9.6	19.4
8 9	22 32.04	- 6 14.2	2.381	3.347	6.2	19.8	8 9	22 30.86	-17 54.1	1.877	2.859	6.3	19.1
8 19	22 25.03	- 6 45.1	2.353	3.355	2.9	19.6	8 19	22 24.68	-19 31.4	1.844	2.846	3.5	18.9
8 29	22 17.55	- 7 20.3	2.354	3.363	1.1	19.5	8 29	22 17.76	-21 3.9	1.838	2.833	4.3	19.0
9 8	22 10.31	- 7 56.0	2.384	3.370	4.2	19.7	9 8	22 10.98	-22 24.3	1.859	2.821	7.5	19.1
9 18	22 3.96	- 8 28.6	2.442	3.377	7.3	19.9	9 18	22 5.18	-23 27.1	1.906	2.809	10.9	19.3
9 28	21 59.04	- 8 55.2	2.525	3.384	10.1	20.1	9 28	22 1.13	-24 9.5	1.975	2.798	14.0	19.5
177447	2004 <i>CZ</i> ₁₁₅		8 26.1	99°13	0°4/25.8	17	488872	2005 <i>SH</i> ₁₃₄		8 26.1	312°71	19°0/19.2	17
7 20	22 47.40	- 9 14.9	1.564	2.415	16.5	20.6	7 20	23 10.52	-43 59.3	0.914	1.777	24.3	20.4
7 30	22 42.66	- 9 37.8	1.501	2.426	12.6	20.4	7 30	23 3.78	-45 13.0	0.865	1.766	21.8	20.2
8 9	22 35.49	-10 13.0	1.459	2.436	8.2	20.1	8 9	22 50.95	-45 59.8	0.831	1.755	19.9	20.0
8 19	22 26.57	-10 55.8	1.440	2.446	3.4	19.9	8 19	22 33.42	-45 58.6	0.813	1.745	19.0	19.9
8 29	22 16.93	-11 40.1	1.448	2.457	1.7	19.8	8 29	22 14.27	-44 53.1	0.812	1.735	19.9	19.9
9 8	22 7.78	-12 19.5	1.482	2.466	6.5	20.1	9 8	21 57.14	-42 42.3	0.828	1.726	22.1	20.0
9 18	22 0.18	-12 49.0	1.542	2.476	10.8	20.4	9 18	21 44.66	-39 39.1	0.862	1.717	25.0	20.2
9 28	21 54.94	-13 5.7	1.623	2.486	14.6	20.6	9 28	21 37.94	-36 2.4	0.910	1.709	28.0	20.4
331722	2002 <i>TR</i> ₁₀		8 26.1	293°98	6°6/1.1	18	280069	2002 <i>CB</i> ₁₅₆		8 26.1	84°00	2°9/24.0	16
7 20	22 40.60	+10 37.0	1.629	2.405	19.1	20.7	7 20	22 49.55	-16 39.5	1.691	2.550	15.1	20.0
7 30	22 38.00	+10 13.4	1.509	2.368	16.4	20.4	7 30	22 44.13	-17 3.1	1.632	2.562	11.5	19.8
8 9	22 32.94	+ 9 16.3	1.405	2.331	13.1	20.1	8 9	22 36.35	-17 31.1	1.595	2.574	7.5	19.6
8 19	22 25.74	+ 7 42.3	1.323	2.293	9.5	19.8	8 19	22 26.93	-17 58.0	1.582	2.586	3.7	19.4
8 29	22 17.16	+ 5 32.2	1.265	2.255	6.8	19.6	8 29	22 16.90	-18 17.9	1.597	2.598	3.7	19.4
9 8	22 8.32	+ 2 53.3	1.233	2.216	7.6	19.5	9 8	22 7.42	-18 26.4	1.638	2.610	7.3	19.7
9 18	22 0.47	- 0 1.7	1.227	2.177	11.5	19.6	9 18	21 59.52	-18 21.4	1.704	2.622	11.1	19.9
9 28	21 54.80	- 2 57.2	1.246	2.138	16.1	19.8	9 28	21 53.94	-18 2.6	1.793	2.634	14.4	20.2
217372	2004 <i>TN</i> ₁₇₁		8 26.1	1°58	4°5/28.7	18	76152	2000 <i>EH</i> ₂₀		8 26.1	263°23	6°1/31.7	18
7 20	22 46.96	- 1 54.9	1.651	2.474	16.9	19.5	7 20	22 42.79	+ 7 52.0	2.030	2.799	16.0	19.5
7 30	22 42.33	- 0 47.4	1.574	2.473	13.7	19.2	7 30	22 38.88	+ 8 18.4	1.936	2.790	13.6	19.3
8 9	22 35.33	+ 0 7.6	1.517	2.472	10.1	19.0	8 9	22 33.00	+ 8 25.3	1.861	2.781	10.8	19.1
8 19	22 26.54	+ 0 48.9	1.483	2.472	6.4	18.8	8 19	22 25.60	+ 8 11.3	1.809	2.772	8.0	19.0
8 29	22 16.93	+ 1 16.6	1.475	2.474	4.5	18.7	8 29	22 17.40	+ 7 37.1	1.782	2.763	6.2	18.8
9 8	22 7.62	+ 1 32.5	1.493	2.476	6.6	18.8	9 8	22 9.32	+ 6 46.4	1.781	2.753	6.8	18.9
9 18	21 59.71	+ 1 40.0	1.537	2.480	10.2	19.1	9 18	22 2.22	+ 5 44.8	1.806	2.744	9.3	19.0
9 28	21 54.04	+ 1 43.5	1.603	2.484	13.8	19.3	9 28	21 56.91	+ 4 38.9	1.856	2.735	12.3	19.2
218515	2004 <i>TG</i> ₁₃₆		8 26.1	73°46	2°5/28.4	18	322048	2010 <i>VE</i> ₆₁		8 26.1	186°69	4°4/21.4	18
7 20	22 42.91	- 1 51.8	2.278	3.088	13.3	20.1	7 20	22 45.20	-23 47.8	2.543	3.396	10.8	20.8
7 30	22 38.57	- 1 44.2	2.198	3.092	10.6	19.9	7 30	22 40.25	-24 31.6	2.473	3.396	8.4	20.6
8 9	22 32.54	- 1 49.0	2.139	3.095	7.5	19.7	8 9	22 33.60	-25 14.6	2.427	3.396	6.0	20.4
8 19	22 25.28	- 2 5.0	2.105	3.099	4.3	19.6	8 19	22 25.75	-25 51.9	2.407	3.395	4.5	20.4
8 29	22 17.48	- 2 29.7	2.099	3.102	2.5	19.4	8 29	22 17.39	-26 18.8	2.416	3.394	5.1	20.4
9 8	22 9.90	- 2 59.4	2.120	3.106	4.6	19.6	9 8	22 9.31	-26 31.9	2.453	3.393	7.2	20.5
9 18	22 3.29	- 3 30.2	2.169	3.110	7.8	19.8	9 18	22 2.23	-26 29.8	2.515	3.392	9.6	20.7
9 28	21 58.24	- 3 58.1	2.243	3.114	10.8	20.0	9 28	21 56.77	-26 12.8	2.601	3.390	11.9	20.8
27938	Guislain		8 26.1	246°99	7°3/16.9	18	127264	2002 <i>JB</i> ₅₀		8 26.1	109°90	0°	

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
298213	2002 <i>TE</i> ₃₅₅		8 26.1 306°94	2°6/28.2	18		41823	2000 <i>WZ</i> ₄₇		8 26.1 205°05	8°1/3.1	18	
7 20	22 41.09	- 1 48.7	1.747	2.576	15.9	21.2	7 20	22 43.46	+13 48.0	2.034	2.765	17.1	19.6
7 30	22 37.91	- 1 54.6	1.653	2.560	12.8	21.0	7 30	22 39.42	+14 24.2	1.946	2.763	14.9	19.4
8 9	22 32.55	- 2 18.0	1.580	2.543	9.0	20.7	8 9	22 33.39	+14 37.6	1.875	2.761	12.5	19.2
8 19	22 25.47	- 2 57.5	1.530	2.527	5.0	20.5	8 19	22 25.82	+14 25.8	1.825	2.758	10.0	19.1
8 29	22 17.47	- 3 49.3	1.505	2.511	2.6	20.3	8 29	22 17.47	+13 48.6	1.799	2.755	8.4	19.0
9 8	22 9.58	- 4 47.6	1.507	2.496	5.7	20.4	9 8	22 9.26	+12 49.1	1.798	2.752	8.4	19.0
9 18	22 2.81	- 5 45.6	1.534	2.480	9.9	20.6	9 18	22 2.10	+11 33.4	1.823	2.749	10.0	19.0
9 28	21 58.02	- 6 37.2	1.584	2.465	13.9	20.9	9 28	21 56.76	+10 9.2	1.872	2.746	12.4	19.2
184229	2004 <i>RO</i> ₁₀₃		8 26.1 348°89	6°6/20.2	18		71954	2000 <i>WW</i> ₁₀₄		8 26.1 55°35	4°9/22.3	18	
7 20	22 43.70	-26 4.6	1.811	2.684	13.5	19.1	7 20	22 44.66	-16 30.5	1.291	2.173	17.3	19.2
7 30	22 39.84	-27 4.3	1.747	2.679	10.7	18.9	7 30	22 41.15	-17 54.8	1.240	2.183	13.2	18.9
8 9	22 33.70	-28 2.0	1.705	2.674	8.0	18.8	8 9	22 34.84	-19 28.1	1.209	2.192	8.7	18.7
8 19	22 25.89	-28 50.2	1.688	2.670	6.6	18.7	8 19	22 26.46	-21 0.1	1.201	2.202	5.2	18.5
8 29	22 17.35	-29 21.8	1.696	2.666	7.5	18.7	8 29	22 17.25	-22 19.4	1.217	2.212	6.0	18.6
9 8	22 9.21	-29 32.1	1.729	2.664	10.0	18.9	9 8	22 8.62	-23 17.4	1.258	2.222	10.0	18.9
9 18	22 2.46	-29 19.8	1.784	2.661	12.9	19.0	9 18	22 1.82	-23 49.6	1.321	2.233	14.1	19.2
9 28	21 57.89	-28 46.3	1.861	2.660	15.6	19.2	9 28	21 57.72	-23 55.8	1.404	2.244	17.7	19.4
285168	1995 <i>YK</i> ₁₄		8 26.1 299°11	0°4/25.8	18		27353	Chrisspener		8 26.1 129°63	1°4/27.2	18	
7 20	22 41.90	- 8 7.5	1.702	2.554	15.3	20.7	7 20	22 45.83	- 4 38.4	1.681	2.515	16.2	18.3
7 30	22 38.55	- 8 43.8	1.617	2.543	11.8	20.5	7 30	22 41.42	- 4 53.8	1.609	2.521	12.7	18.1
8 9	22 32.96	- 9 34.6	1.554	2.531	7.8	20.2	8 9	22 34.74	- 5 24.7	1.557	2.526	8.6	17.9
8 19	22 25.64	-10 35.6	1.514	2.520	3.2	19.9	8 19	22 26.38	- 6 8.2	1.530	2.532	4.2	17.6
8 29	22 17.44	-11 40.5	1.501	2.509	1.6	19.8	8 29	22 17.27	- 6 59.1	1.528	2.537	1.6	17.5
9 8	22 9.42	-12 42.0	1.514	2.498	6.3	20.1	9 8	22 8.52	- 7 51.0	1.554	2.542	5.7	17.7
9 18	22 2.61	-13 34.0	1.552	2.488	10.7	20.3	9 18	22 1.12	- 8 38.0	1.605	2.546	10.0	18.0
9 28	21 57.88	-14 11.6	1.613	2.477	14.6	20.5	9 28	21 55.88	- 9 15.3	1.680	2.551	13.8	18.2
106689	2000 <i>WW</i> ₁₅₇		8 26.1 185°11	5°4/21.4	18		279453	2010 <i>RX</i> ₈₁		8 26.1 275°72	0°4/26.6	18	
7 20	22 50.41	-22 27.1	1.913	2.770	13.6	20.0	7 20	22 41.03	- 6 18.6	2.186	3.020	13.0	21.1
7 30	22 44.83	-23 33.4	1.844	2.770	10.6	19.8	7 30	22 37.36	- 6 48.1	2.098	3.012	10.1	20.9
8 9	22 36.91	-24 41.0	1.799	2.770	7.5	19.6	8 9	22 31.92	- 7 29.8	2.032	3.004	6.7	20.6
8 19	22 27.25	-25 42.5	1.780	2.769	5.5	19.5	8 19	22 25.16	- 8 20.6	1.992	2.996	3.0	20.4
8 29	22 16.81	-26 30.1	1.787	2.767	6.3	19.6	8 29	22 17.76	- 9 16.2	1.979	2.988	1.1	20.2
9 8	22 6.75	-26 58.7	1.822	2.765	9.1	19.7	9 8	22 10.52	-10 11.1	1.995	2.980	4.9	20.5
9 18	21 58.10	-27 6.0	1.881	2.762	12.2	19.9	9 18	22 4.20	-11 0.6	2.037	2.973	8.5	20.7
9 28	21 51.69	-26 52.8	1.963	2.758	15.1	20.1	9 28	21 59.49	-11 40.7	2.104	2.965	11.8	20.9
62249	2000 <i>SU</i> ₇₉		8 26.1 11°93	1°2/25.2	18		340531	2006 <i>JZ</i> ₄₉		8 26.1 55°72	2°2/24.2	18	
7 20	22 42.47	-10 20.6	1.369	2.239	17.2	19.1	7 20	22 44.68	-13 41.9	1.744	2.604	14.6	21.2
7 30	22 39.31	-10 52.9	1.305	2.241	13.2	18.9	7 30	22 40.51	-14 22.0	1.675	2.606	11.1	21.0
8 9	22 33.57	-11 38.8	1.261	2.243	8.6	18.6	8 9	22 34.13	-15 10.5	1.628	2.609	7.2	20.8
8 19	22 25.90	-12 32.6	1.240	2.246	3.5	18.4	8 19	22 26.11	-16 1.7	1.606	2.611	3.3	20.5
8 29	22 17.38	-13 26.8	1.243	2.250	2.3	18.3	8 29	22 17.39	-16 49.2	1.610	2.614	3.1	20.5
9 8	22 9.31	-14 13.6	1.270	2.255	7.3	18.6	9 8	22 9.03	-17 26.9	1.641	2.617	7.0	20.8
9 18	22 2.82	-14 47.1	1.321	2.260	12.0	18.9	9 18	22 2.00	-17 50.9	1.697	2.619	10.9	21.0
9 28	21 58.82	-15 4.1	1.394	2.265	16.0	19.2	9 28	21 57.08	-17 59.2	1.775	2.622	14.3	21.2
508101	2015 <i>DN</i> ₁₅₃		8 26.1 258°39	2°5/24.1	18		520229	2014 <i>DE</i> ₁₅₃		8 26.1 224°48	0°5/26.6	18	
7 20	22 47.03	-13 38.5	1.685	2.542	15.2	21.8	7 20	22 44.57	- 6 38.8	2.147	2.976	13.4	22.7
7 30	22 42.68	-14 23.9	1.595	2.524	11.7	21.5	7 30	22 40.11	- 7 1.0	2.057	2.968	10.4	22.5
8 9	22 35.80	-15 19.8	1.526	2.506	7.6	21.3	8 9	22 33.75	- 7 34.9	1.989	2.959	7.0	22.3
8 19	22 26.91	-16 20.4	1.482	2.487	3.6	21.0	8 19	22 25.95	- 8 17.6	1.947	2.950	3.1	22.0
8 29	22 16.93	-17 18.2	1.465	2.468	3.5	20.9	8 29	22 17.44	- 9 5.0	1.932	2.941	1.1	21.8
9 8	22 7.07	-18 5.8	1.474	2.448	7.7	21.1	9 8	22 9.08	- 9 51.8	1.946	2.931	5.1	22.1
9 18	21 58.52	-18 37.9	1.508	2.428	12.1	21.3	9 18	22 1.72	-10 33.5	1.987	2.921	8.8	22.3
9 28	21 52.28	-18 51.8	1.564	2.408	16.0	21.5	9 28	21 56.08	-11 6.3	2.053	2.910	12.2	22.5
438948	2010 <i>JL</i> ₁₅₄		8 26.1 124°95	5°3/20.9	17		51382	2001 <i>BK</i> ₇₃		8 26.1 74°76	6°3/30.9	18	
7 20	22 46.24	-23 8.2	2.031	2.893	12.8	21.5	7 20	22 48.84	+ 5 19.0	1.468	2.265	19.9	18.5
7 30	22 41.43	-24 16.0	1.973	2.901	9.9	21.3	7 30	22 43.82	+ 5 52.5	1.413	2.289	16.4	18.3
8 9	22 34.56	-25 24.0	1.939	2.909	7.1	21.2	8 9	22 36.30	+ 6 2.1	1.376	2.313	12.5	18.2
8 19	22 26.22	-26 25.1	1.930	2.917	5.4	21.1	8 19	22 27.01	+ 5 47.2	1.361	2.337	8.7	18.0
8 29	22 17.29	-27 12.6	1.948	2.925	6.2	21.2	8 29	22 17.07	+ 5 10.5	1.370	2.360	6.3	17.9
9 8	22 8.76	-27 42.0	1.993	2.933	8.6	21.3	9 8	22 7.72	+ 4 18.0	1.404	2.383	7.4	18.1
9 18	22 1.52	-27 51.4	2.063	2.940	11.4	21.5	9 18	22 0.04	+ 3 17.7	1.463	2.406	10.6	18.3
9 28	21 56.27	-27 41.4	2.155	2.947	14.0	21.7	9 28	21 54.83	+ 2 17.6	1.545	2.429	14.0	18.6
510714	2012 <i>VY</i> ₂₂		8 26.1 343°15	2°7/24.1	18		469110	2015 <i>DF</i> ₄₃		8 26.1 134°81	5°4/21.8	17	
7 20	22 43.83	-14 38.0	1.508	2.379	15.9	21.5	7 20	22 48.09	-21 11.9	1.667	2.535	14.8	21.2
7 30	22 40.26	-15 12.6	1.437	2.374	12.1	21.3	7 30	22 43.29	-22 15.7	1.607	2.539	11.4	21.0
8 9	22 34.17	-15 55.8	1.387	2.369	7.9	21.0	8 9	22 36.01	-23 21.9	1.568	2.544	7.9	20.8
8 19	22 26.19	-16 41.6	1.360	2.365	3.7	20.8	8 19	22 26.93	-24 22.3	1.554	2.548	5.5	20.6
8 29	22 17.32	-17 22.6	1.358	2.361	3.7	20.8	8 29	22 17.09	-25 8.8	1.566	2.552	6.3	20.7
9 8	22 8.82	-17 52.3	1.382	2.358	7.8	21.0	9 8	22 7.73	-25 35.9	1.604	2.556	9.4	20.9
9 18	22 1.81	-18 6.6	1.429	2.356	12.1	21.3	9 18	21 59.92	-25 41.1	1.666	2.560	12.8	21.1
9 28	21 57.20	-18 3.5	1.497	2.354	15.9	21.5	9 28	21 54.51	-25 25.3	1.749	2.563	15.9	21.3
291591	2006 <i>GQ</i> ₁₆		8 26.1 226°97	0°5/26.6	18		387922	2005 <i>AO</i> ₈₁		8			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
388250	2006 <i>KC</i> ₉₀		8 26.1 24 ^o .00	6 ^o .1/20.8	18		75201	1999 <i>VC</i> ₁₇₈		8 26.1 236 ^o .79	3 ^o .8/22.9	18	
7 20	22 41.50	-20 17.5	1.431	2.317	15.7	20.1	7 20	22 48.07	-17 9.8	1.844	2.701	14.1	20.0
7 30	22 38.55	-21 50.8	1.380	2.324	12.0	19.9	7 30	22 43.28	-18 7.4	1.759	2.688	10.8	19.8
8 9	22 33.07	-23 28.4	1.351	2.331	8.4	19.7	8 9	22 36.10	-19 12.1	1.696	2.674	7.2	19.5
8 19	22 25.71	-25 0.2	1.345	2.339	6.2	19.6	8 19	22 27.06	-20 17.1	1.658	2.659	4.1	19.3
8 29	22 17.59	-26 15.7	1.364	2.348	7.3	19.7	8 29	22 17.06	-21 14.9	1.648	2.643	4.7	19.3
9 8	22 9.97	-27 7.4	1.407	2.357	10.5	19.9	9 8	22 7.23	-21 58.6	1.665	2.627	8.2	19.5
9 18	22 3.96	-27 32.2	1.472	2.367	14.0	20.1	9 18	21 58.67	-22 24.2	1.707	2.611	11.9	19.7
9 28	22 0.39	-27 30.6	1.556	2.378	17.2	20.3	9 28	21 52.29	-22 30.2	1.771	2.593	15.4	19.9
117059	2004 <i>KP</i> ₁		8 26.1 96 ^o .74	0 ^o .5/26.6	18		331864	2003 <i>YW</i> ₅₄		8 26.1 241 ^o .89	1 ^o .8/24.6	18	
7 20	22 44.60	- 7 17.7	2.146	2.977	13.3	20.4	7 20	22 46.82	-11 58.5	1.725	2.578	15.1	21.8
7 30	22 39.92	- 7 31.9	2.078	2.990	10.3	20.2	7 30	22 42.41	-12 42.0	1.639	2.565	11.6	21.5
8 9	22 33.48	- 7 56.1	2.032	3.002	6.8	20.0	8 9	22 35.58	-13 36.8	1.574	2.552	7.6	21.3
8 19	22 25.78	- 8 27.6	2.011	3.015	3.0	19.8	8 19	22 26.86	-14 37.7	1.533	2.539	3.3	21.0
8 29	22 17.58	- 9 2.4	2.018	3.027	1.1	19.7	8 29	22 17.15	-15 37.5	1.520	2.525	2.8	20.9
9 8	22 9.70	- 9 36.0	2.054	3.039	4.8	20.0	9 8	22 7.60	-16 29.2	1.533	2.511	7.1	21.2
9 18	22 2.92	-10 4.6	2.117	3.051	8.3	20.2	9 18	21 59.35	-17 7.2	1.572	2.496	11.5	21.4
9 28	21 57.84	-10 25.4	2.204	3.063	11.4	20.4	9 28	21 53.31	-17 28.4	1.634	2.481	15.3	21.6
218297	2003 <i>QP</i> ₆₀		8 26.1 295 ^o .35	8 ^o .4/18.7	18		298007	2002 <i>OA</i> ₃₁		8 26.1 21 ^o .50	0 ^o .7/26.6	18	
7 20	22 54.74	-36 52.4	2.301	3.135	12.4	19.7	7 20	22 45.82	- 8 17.7	1.531	2.383	16.7	19.9
7 30	22 48.00	-37 31.3	2.228	3.121	10.5	19.6	7 30	22 41.59	- 8 7.8	1.464	2.388	13.0	19.7
8 9	22 38.90	-37 59.9	2.178	3.106	9.0	19.5	8 9	22 34.94	- 8 9.6	1.418	2.393	8.6	19.4
8 19	22 28.10	-38 11.4	2.153	3.092	8.4	19.4	8 19	22 26.51	- 8 20.3	1.394	2.399	3.9	19.2
8 29	22 16.64	-38 0.3	2.154	3.077	9.1	19.4	8 29	22 17.33	- 8 35.6	1.397	2.406	1.4	19.0
9 8	22 5.67	-37 24.3	2.180	3.063	10.8	19.5	9 8	22 8.59	- 8 50.6	1.425	2.413	6.1	19.4
9 18	21 56.22	-36 24.5	2.230	3.049	12.8	19.6	9 18	22 1.37	- 9 1.1	1.478	2.421	10.5	19.6
9 28	21 49.08	-35 4.5	2.302	3.035	14.9	19.7	9 28	21 56.48	- 9 3.8	1.553	2.429	14.4	19.9
187036	2005 <i>JS</i> ₂₈		8 26.1 286 ^o .91	4 ^o .1/29.6	18		363647	2004 <i>RT</i> ₂₄₄		8 26.1 153 ^o .38	2 ^o .5/23.7	18	
7 20	22 41.24	+ 3 3.0	1.501	2.321	18.5	20.7	7 20	22 45.55	-17 11.1	2.414	3.262	11.5	21.1
7 30	22 38.36	+ 2 44.2	1.415	2.312	15.1	20.4	7 30	22 40.56	-17 36.6	2.341	3.265	8.7	20.9
8 9	22 33.04	+ 1 59.4	1.348	2.302	11.2	20.2	8 9	22 33.87	-18 5.0	2.291	3.267	5.7	20.7
8 19	22 25.79	+ 0 49.5	1.302	2.293	6.9	19.9	8 19	22 25.97	-18 32.4	2.268	3.270	3.0	20.6
8 29	22 17.53	- 0 40.7	1.281	2.284	4.1	19.7	8 29	22 17.56	-18 54.6	2.273	3.272	3.1	20.6
9 8	22 9.43	- 2 22.7	1.286	2.275	6.4	19.8	9 8	22 9.44	-19 8.1	2.307	3.275	5.9	20.8
9 18	22 2.64	- 4 6.1	1.315	2.266	10.8	20.0	9 18	22 2.33	-19 10.8	2.368	3.277	8.8	20.9
9 28	21 58.14	- 5 41.1	1.367	2.257	15.1	20.3	9 28	21 56.84	-19 2.0	2.453	3.279	11.5	21.1
313279	2002 <i>AF</i> ₁₁₀		8 26.1 178 ^o .93	2 ^o .9/23.8	17		127134	2002 <i>GM</i> ₁₀₇		8 26.1 67 ^o .53	0 ^o .6/25.5	18	
7 20	22 47.02	-13 35.1	1.531	2.393	16.1	21.0	7 20	22 40.89	- 9 3.7	2.231	3.073	12.5	19.7
7 30	22 42.68	-14 35.9	1.462	2.395	12.3	20.8	7 30	22 37.17	- 9 45.1	2.153	3.073	9.6	19.5
8 9	22 35.76	-15 47.8	1.414	2.395	8.0	20.5	8 9	22 31.76	-10 36.6	2.098	3.074	6.2	19.3
8 19	22 26.89	-17 3.3	1.391	2.396	3.8	20.3	8 19	22 25.11	-11 34.5	2.069	3.075	2.5	19.1
8 29	22 17.11	-18 13.6	1.394	2.395	4.0	20.3	8 29	22 17.90	-12 33.6	2.068	3.076	1.5	19.0
9 8	22 7.72	-19 10.6	1.422	2.395	8.1	20.5	9 8	22 10.90	-13 28.8	2.095	3.076	5.1	19.3
9 18	21 59.87	-19 49.2	1.475	2.394	12.4	20.8	9 18	22 4.85	-14 15.6	2.149	3.077	8.6	19.5
9 28	21 54.48	-20 7.1	1.550	2.393	16.2	21.0	9 28	22 0.37	-14 50.7	2.227	3.078	11.6	19.7
123435	2000 <i>WJ</i> ₁₁₉		8 26.1 196 ^o .82	0 ^o .9/25.0	18		198789	2005 <i>EV</i> ₁₃₂		8 26.1 306 ^o .24	1 ^o .9/27.6	18	
7 20	22 43.01	-11 48.7	2.877	3.710	10.2	21.2	7 20	22 44.71	- 4 25.2	1.820	2.650	15.3	20.4
7 30	22 38.40	-12 17.3	2.791	3.707	7.8	21.0	7 30	22 40.51	- 4 19.2	1.737	2.646	12.1	20.1
8 9	22 32.36	-12 51.9	2.729	3.703	5.0	20.8	8 9	22 34.17	- 4 26.6	1.675	2.641	8.4	19.9
8 19	22 25.30	-13 29.4	2.694	3.699	2.1	20.6	8 19	22 26.20	- 4 45.8	1.637	2.637	4.3	19.7
8 29	22 17.77	-14 6.2	2.689	3.695	1.5	20.6	8 29	22 17.45	- 5 13.3	1.625	2.632	2.0	19.5
9 8	22 10.39	-14 39.0	2.713	3.690	4.4	20.8	9 8	22 8.93	- 5 44.3	1.640	2.628	5.5	19.7
9 18	22 3.78	-15 4.9	2.765	3.685	7.3	21.0	9 18	22 1.60	- 6 14.1	1.681	2.624	9.5	19.9
9 28	21 58.44	-15 21.9	2.844	3.679	9.8	21.1	9 28	21 56.26	- 6 38.3	1.746	2.620	13.2	20.2
515430	2013 <i>JO</i> ₄₈		8 26.1 129 ^o .66	3 ^o .3/30.4	18		75580	2000 <i>AF</i> ₁₃		8 26.1 236 ^o .98	1 ^o .1/25.2	18	
7 20	22 40.97	+ 4 3.9	2.756	3.528	12.2	22.0	7 20	22 47.34	-10 48.8	1.795	2.642	14.8	20.2
7 30	22 36.83	+ 3 55.5	2.675	3.539	9.9	21.8	7 30	22 42.69	-11 19.5	1.708	2.630	11.5	20.0
8 9	22 31.33	+ 3 32.9	2.616	3.550	7.4	21.7	8 9	22 35.71	-12 1.3	1.642	2.619	7.5	19.7
8 19	22 24.86	+ 2 57.0	2.582	3.560	4.9	21.5	8 19	22 26.90	-12 49.6	1.600	2.606	3.1	19.4
8 29	22 17.97	+ 2 10.2	2.576	3.570	3.4	21.4	8 29	22 17.16	-13 38.4	1.586	2.593	2.1	19.3
9 8	22 11.27	+ 1 16.2	2.599	3.580	4.3	21.5	9 8	22 7.59	-14 21.5	1.599	2.580	6.5	19.6
9 18	22 5.33	+ 0 19.1	2.650	3.589	6.6	21.7	9 18	21 59.27	-14 53.8	1.638	2.566	10.8	19.8
9 28	22 0.68	- 0 36.7	2.728	3.598	9.1	21.9	9 28	21 53.09	-15 12.3	1.700	2.552	14.6	20.0
181556	2006 <i>UR</i> ₂₇₅		8 26.1 103 ^o .61	1 ^o .8/24.8	17		47975	2000 <i>WE</i> ₂₆		8 26.1 113 ^o .98	3 ^o .4/28.8	17	
7 20	22 48.71	-12 15.1	1.592	2.447	16.0	20.9	7 20	22 47.50	- 0 10.1	1.578	2.397	17.8	19.5
7 30	22 43.65	-12 52.3	1.534	2.462	12.2	20.7	7 30	22 42.80	- 0 7.7	1.511	2.408	14.3	19.3
8 9	22 36.17	-13 39.1	1.497	2.476	7.8	20.5	8 9	22 35.70	- 0 24.7	1.462	2.420	10.2	19.1
8 19	22 26.98	-14 29.6	1.485	2.491	3.3	20.3	8 19	22 26.84	- 0 59.6	1.437	2.431	5.9	18.9
8 29	22 17.12	-15 17.0	1.499	2.505	2.7	20.3	8 29	22 17.23	- 1 48.1	1.438	2.441	3.4	18.8
9 8	22 7.81	-15 54.9	1.540	2.518	7.0	20.6	9 8	22 8.03	- 2 43.7	1.464	2.452	6.1	18.9
9 18	22 0.08	-16 19.3	1.606	2.532	11.1	20.8	9 18	22 0.32	- 3 39.5	1.517	2.461	10.2	19.2
9 28	21 54.72	-16 28.4	1.694	2.545	14.7	21.1	9 28	21 54.93	- 4 29				

EPHEMERIDES

8 26.1

8 26.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
168098	2006 <i>DO</i> ₁₉₉		8 26.1 69°78'	4.8/23.3	17		147532	2004 <i>DF</i> ₆₆		8 26.1 54°32'	2.4/24.4	17	
7 20	22 51.62	-19 2.1	1.256	2.132	18.1	20.0	7 20	22 45.90	-12 35.9	1.319	2.191	17.7	19.5
7 30	22 46.55	-19 40.4	1.204	2.142	13.9	19.8	7 30	22 41.88	-13 25.5	1.272	2.209	13.4	19.3
8 9	22 38.39	-20 22.5	1.171	2.152	9.3	19.5	8 9	22 35.19	-14 26.1	1.244	2.227	8.6	19.1
8 19	22 28.01	-21 0.1	1.161	2.162	5.4	19.3	8 19	22 26.63	-15 30.2	1.240	2.246	3.8	18.9
8 29	22 16.80	-21 24.3	1.175	2.172	5.8	19.4	8 29	22 17.40	-16 29.0	1.260	2.265	3.5	18.9
9 8	22 6.38	-21 29.6	1.214	2.183	9.7	19.7	9 8	22 8.85	-17 14.8	1.305	2.284	7.9	19.2
9 18	21 58.07	-21 14.4	1.275	2.193	14.0	19.9	9 18	22 2.09	-17 43.2	1.374	2.303	12.3	19.5
9 28	21 52.79	-20 40.0	1.357	2.204	17.8	20.2	9 28	21 57.93	-17 52.5	1.464	2.323	16.1	19.8
195285	2002 <i>EY</i> ₇₈		8 26.1 191°80'	2.1/28.0	18		332469	2008 <i>DT</i> ₆₉		8 26.1 179°51'	0.4/25.8	17	
7 20	22 45.11	- 2 27.0	2.005	2.820	14.6	20.8	7 20	22 45.92	- 7 37.4	1.917	2.753	14.5	22.1
7 30	22 40.61	- 2 33.4	1.921	2.820	11.6	20.6	7 30	22 41.33	- 8 26.9	1.838	2.755	11.1	21.9
8 9	22 34.13	- 2 54.5	1.858	2.818	8.1	20.4	8 9	22 34.66	- 9 30.0	1.782	2.756	7.3	21.7
8 19	22 26.17	- 3 28.2	1.820	2.817	4.4	20.1	8 19	22 26.43	-10 42.1	1.751	2.756	3.0	21.4
8 29	22 17.50	- 4 11.1	1.809	2.815	2.2	20.0	8 29	22 17.46	-11 56.8	1.748	2.756	1.5	21.3
9 8	22 9.05	- 4 58.2	1.825	2.813	5.1	20.2	9 8	22 8.73	-13 7.1	1.773	2.755	5.8	21.6
9 18	22 1.68	- 5 44.3	1.869	2.810	8.8	20.4	9 18	22 1.18	-14 7.2	1.825	2.754	9.8	21.8
9 28	21 56.15	- 6 24.5	1.938	2.807	12.3	20.6	9 28	21 55.58	-14 53.0	1.901	2.751	13.3	22.1
198233	2004 <i>TY</i> ₁₉₅		8 26.1 239°52'	0.4/26.5	18		507225	2010 <i>XP</i> ₄₅		8 26.1 268°65'	10.3/13.9	18	
7 20	22 44.78	- 7 12.9	1.814	2.654	15.0	21.3	7 20	22 46.49	-30 25.1	1.661	2.533	14.6	21.1
7 30	22 40.59	- 7 31.6	1.732	2.650	11.7	21.1	7 30	22 42.90	-33 6.7	1.590	2.511	12.2	20.9
8 9	22 34.24	- 8 3.1	1.672	2.646	7.8	20.9	8 9	22 36.40	-35 49.3	1.542	2.489	10.6	20.8
8 19	22 26.25	- 8 44.2	1.637	2.641	3.4	20.6	8 19	22 27.42	-38 19.0	1.520	2.466	10.6	20.7
8 29	22 17.48	- 9 29.9	1.628	2.637	1.2	20.4	8 29	22 16.99	-40 21.8	1.522	2.443	12.3	20.8
9 8	22 8.94	-10 14.3	1.646	2.633	5.7	20.7	9 8	22 6.54	-41 48.0	1.549	2.420	15.0	20.9
9 18	22 1.62	-10 52.3	1.691	2.628	9.9	21.0	9 18	21 57.56	-42 34.5	1.595	2.396	17.9	21.0
9 28	21 56.31	-11 19.9	1.759	2.623	13.5	21.2	9 28	21 51.31	-42 43.2	1.657	2.371	20.4	21.2
156424	2002 <i>AG</i> ₉₄		8 26.1 244°47'	1°5/24.9	18		476628	2008 <i>SV</i> ₁₉₄		8 26.1 359°86'	5°0/30.2	18	
7 20	22 45.57	-11 55.0	1.741	2.595	14.9	20.8	7 20	22 37.26	+ 3 22.3	1.277	2.115	20.2	20.8
7 30	22 41.30	-12 27.6	1.664	2.591	11.4	20.6	7 30	22 35.55	+ 3 23.2	1.206	2.112	16.6	20.5
8 9	22 34.75	-13 10.1	1.608	2.587	7.4	20.3	8 9	22 31.32	+ 2 56.5	1.153	2.110	12.4	20.3
8 19	22 26.48	-13 57.7	1.577	2.583	3.1	20.1	8 19	22 25.13	+ 2 2.6	1.120	2.109	7.9	20.0
8 29	22 17.39	-14 44.2	1.572	2.579	2.4	20.0	8 29	22 17.99	+ 0 46.0	1.109	2.110	5.1	19.9
9 8	22 8.58	-15 23.3	1.595	2.574	6.7	20.3	9 8	22 11.17	- 0 44.3	1.121	2.111	7.0	20.0
9 18	22 1.09	-15 50.6	1.642	2.570	10.8	20.5	9 18	22 5.83	- 2 17.5	1.157	2.114	11.2	20.2
9 28	21 55.73	-16 3.4	1.712	2.565	14.4	20.7	9 28	22 2.93	- 3 43.4	1.214	2.118	15.5	20.5
472664	2015 <i>EB</i> ₃		8 26.1 174°96'	1°3/25.1	17		307581	2003 <i>GD</i> ₃₅		8 26.1 154°31'	5°0/20.8	18	
7 20	22 47.85	-11 18.3	1.883	2.726	14.4	22.2	7 20	22 44.71	-23 49.2	2.288	3.147	11.6	20.7
7 30	22 42.82	-11 53.2	1.807	2.729	11.0	22.0	7 30	22 40.14	-24 51.6	2.224	3.150	9.0	20.5
8 9	22 35.62	-12 37.8	1.754	2.731	7.1	21.7	8 9	22 33.73	-25 53.9	2.183	3.152	6.5	20.4
8 19	22 26.81	-13 27.3	1.727	2.732	3.0	21.5	8 19	22 25.99	-26 49.8	2.169	3.155	5.1	20.3
8 29	22 17.27	-14 15.9	1.727	2.733	2.2	21.4	8 29	22 17.67	-27 33.5	2.183	3.157	5.8	20.4
9 8	22 8.05	-14 57.7	1.754	2.733	6.2	21.7	9 8	22 9.67	-28 0.9	2.223	3.159	8.1	20.5
9 18	22 0.09	-15 28.5	1.809	2.733	10.2	21.9	9 18	22 2.76	-28 10.2	2.289	3.161	10.6	20.7
9 28	21 54.19	-15 45.7	1.886	2.732	13.6	22.1	9 28	21 57.61	-28 1.5	2.376	3.163	13.0	20.8
497427	2005 <i>XR</i> ₁₂		8 26.1 297°50'	0°1/26.1	18		248588	2006 <i>BH</i> ₂₅₁		8 26.1 72°63'	0°3/25.9	16	
7 20	22 43.35	- 7 56.4	1.533	2.388	16.5	22.0	7 20	22 44.56	- 8 1.4	1.669	2.517	15.7	20.8
7 30	22 40.06	- 8 19.8	1.443	2.370	12.9	21.7	7 30	22 40.38	- 8 39.1	1.610	2.533	12.0	20.6
8 9	22 34.24	- 8 58.6	1.373	2.351	8.6	21.4	8 9	22 34.03	- 9 30.1	1.573	2.549	7.8	20.4
8 19	22 26.38	- 9 49.2	1.326	2.332	3.7	21.1	8 19	22 26.13	-10 29.2	1.559	2.565	3.2	20.1
8 29	22 17.40	-10 45.4	1.304	2.313	1.5	20.9	8 29	22 17.63	-11 30.1	1.573	2.581	1.5	20.0
9 8	22 8.53	-11 39.6	1.308	2.295	6.8	21.2	9 8	22 9.59	-12 25.9	1.613	2.597	6.0	20.4
9 18	22 0.97	-12 25.1	1.336	2.277	11.7	21.4	9 18	22 2.93	-13 11.4	1.679	2.613	10.1	20.7
9 28	21 55.76	-12 56.7	1.386	2.259	16.0	21.6	9 28	21 58.38	-13 43.0	1.767	2.629	13.6	20.9
95591	2002 <i>FX</i> ₉		8 26.1 192°97'	5°1/31.5	18		339393	2005 <i>BT</i> ₂₇		8 26.1 244°01'	5°0/30.5	18	
7 20	22 42.73	+ 7 38.4	2.096	2.863	15.6	20.3	7 20	22 45.28	+ 4 36.8	2.117	2.896	15.2	21.2
7 30	22 38.76	+ 7 33.9	2.006	2.862	13.1	20.2	7 30	22 40.79	+ 5 3.1	2.019	2.884	12.6	21.0
8 9	22 32.92	+ 7 8.4	1.936	2.860	10.2	20.0	8 9	22 34.33	+ 5 12.8	1.941	2.873	9.7	20.8
8 19	22 25.67	+ 6 21.7	1.889	2.859	7.2	19.8	8 19	22 26.33	+ 5 5.1	1.887	2.861	6.8	20.6
8 29	22 17.73	+ 5 16.3	1.869	2.856	5.2	19.7	8 29	22 17.51	+ 4 40.9	1.859	2.848	5.1	20.4
9 8	22 9.95	+ 3 57.3	1.875	2.853	6.0	19.7	9 8	22 8.77	+ 4 3.7	1.859	2.836	6.1	20.5
9 18	22 3.16	+ 2 31.4	1.909	2.850	8.6	19.9	9 18	22 1.00	+ 3 18.2	1.885	2.823	8.9	20.6
9 28	21 58.08	+ 1 5.9	1.968	2.847	11.7	20.1	9 28	21 54.97	+ 2 30.0	1.935	2.809	12.1	20.8
471327	2011 <i>KJ</i> ₂₃		8 26.1 79°40'	7°2/19.4	16		163979	2003 <i>UF</i> ₁₁₆		8 26.1 332°80'	3°9/23.2	18	
7 20	22 45.79	-25 0.0	1.666	2.540	14.5	21.0	7 20	22 40.71	-15 53.3	1.375	2.259	16.4	19.2
7 30	22 41.58	-26 39.7	1.620	2.552	11.4	20.9	7 30	22 38.28	-16 44.0	1.299	2.243	12.6	19.0
8 9	22 34.93	-28 18.4	1.595	2.564	8.5	20.7	8 9	22 33.17	-17 44.5	1.243	2.227	8.3	18.7
8 19	22 26.52	-29 46.1	1.596	2.575	7.2	20.7	8 19	22 25.96	-18 47.7	1.209	2.213	4.5	18.4
8 29	22 17.42	-30 53.6	1.622	2.587	8.3	20.8	8 29	22 17.67	-19 44.3	1.199	2.199	4.9	18.4
9 8	22 8.82	-31 35.3	1.672	2.599	10.9	21.0	9 8	22 9.63	-20 26.0	1.213	2.187	9.2	18.6
9 18	22 1.80	-31 49.8	1.746	2.610	13.8	21.2	9 18	22 3.12	-20 47.4	1.250	2.175	13.7	18.9
9 28	21 57.13	-31 38.8	1.839	2.622	16.4	21.4	9 28	21 59.14	-20 46.4	1.306	2.165	17.7	19.1
221428	2005 <i>YD</i> ₂₂₁		8 26.1 235°67'	9°8/ 6.7	17		379231	2009 <i>SO</i>					

EPHEMERIDES

8 26.1

8 26.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
470281	2007 DB ₄₅	8 26.1 317°15		1°0/26.7 18			142822	Czarapata	8 26.2 130°04		1°6/24.8 18		
7 20	22 46.03	- 8 1.0	1.388	2.246	17.8	21.2	7 20	22 47.70	-11 40.2	1.718	2.568	15.2	20.7
7 30	22 42.31	- 7 48.7	1.306	2.232	14.0	20.9	7 30	22 42.84	-12 22.3	1.653	2.578	11.6	20.5
8 9	22 35.81	- 7 49.1	1.243	2.219	9.4	20.6	8 9	22 35.69	-13 14.4	1.610	2.588	7.5	20.2
8 19	22 27.09	- 8 0.1	1.202	2.207	4.3	20.3	8 19	22 26.89	-14 11.1	1.591	2.597	3.2	20.0
8 29	22 17.22	- 8 17.3	1.186	2.195	1.6	20.1	8 29	22 17.40	-15 5.6	1.600	2.606	2.5	20.0
9 8	22 7.57	- 8 35.0	1.194	2.183	6.8	20.4	9 8	22 8.34	-15 51.4	1.636	2.615	6.7	20.3
9 18	21 59.47	- 8 48.1	1.227	2.172	11.9	20.7	9 18	22 0.69	-16 24.2	1.698	2.623	10.7	20.5
9 28	21 53.99	- 8 52.4	1.280	2.162	16.4	20.9	9 28	21 55.24	-16 41.6	1.782	2.630	14.2	20.8
490913	2011 CO ₃	8 26.1 272°52		2°2/27.7 17			401850	2000 AC ₉₀	8 26.2 204°67		8°1/ 4.9 17		
7 20	22 46.40	- 3 47.6	1.637	2.469	16.7	22.0	7 20	22 45.39	+19 37.7	2.982	3.632	13.6	20.7
7 30	22 42.31	- 3 44.6	1.541	2.450	13.3	21.8	7 30	22 40.39	+20 38.7	2.884	3.628	12.3	20.5
8 9	22 35.69	- 3 57.6	1.464	2.430	9.3	21.5	8 9	22 33.83	+21 22.7	2.804	3.624	10.8	20.4
8 19	22 27.04	- 4 25.1	1.411	2.410	4.9	21.2	8 19	22 26.08	+21 47.2	2.747	3.619	9.3	20.3
8 29	22 17.22	- 5 3.6	1.383	2.390	2.3	21.0	8 29	22 17.70	+21 50.9	2.714	3.614	8.4	20.2
9 8	22 7.45	- 5 47.2	1.381	2.369	6.2	21.2	9 8	22 9.34	+21 34.4	2.706	3.609	8.2	20.2
9 18	21 58.91	- 6 29.8	1.405	2.349	10.9	21.4	9 18	22 1.69	+21 0.5	2.724	3.604	8.9	20.3
9 28	21 52.65	- 7 5.6	1.451	2.328	15.2	21.6	9 28	21 55.36	+20 13.6	2.767	3.598	10.2	20.3
10340	Jostjahn	8 26.1 34°18		1°2/25.1 18			177992	2006 QP ₅₆	8 26.2 310°88		3°8/29.5 18		
7 20	22 43.60	-11 27.8	1.924	2.775	13.8	17.5	7 20	22 39.67	+ 1 47.7	1.750	2.567	16.4	20.0
7 30	22 39.51	-11 56.8	1.851	2.777	10.6	17.3	7 30	22 36.96	+ 1 43.3	1.649	2.544	13.4	19.8
8 9	22 33.44	-12 34.8	1.801	2.779	6.8	17.1	8 9	22 32.09	+ 1 18.4	1.568	2.521	9.9	19.5
8 19	22 25.91	-13 17.4	1.776	2.782	2.8	16.9	8 19	22 25.49	+ 0 33.1	1.509	2.499	6.2	19.3
8 29	22 17.73	-13 59.3	1.778	2.784	2.0	16.8	8 29	22 17.92	- 0 29.6	1.474	2.476	3.8	19.1
9 8	22 9.86	-14 35.2	1.807	2.787	5.9	17.1	9 8	22 10.36	- 1 43.7	1.466	2.454	5.9	19.1
9 18	22 3.17	-15 1.3	1.861	2.790	9.7	17.3	9 18	22 3.83	- 3 1.8	1.484	2.433	9.9	19.3
9 28	21 58.35	-15 14.9	1.940	2.793	13.0	17.5	9 28	21 59.26	- 4 15.8	1.524	2.412	13.9	19.5
341967	2008 QW ₁₃	8 26.1 309°30		1°4/26.9 18			368886	2006 SY ₅₆	8 26.2 357°02		5°8/21.8 17		
7 20	22 45.92	- 7 16.0	1.500	2.350	17.1	21.4	7 20	22 38.80	-16 50.6	1.055	1.958	18.7	19.3
7 30	22 42.14	- 6 59.6	1.408	2.329	13.5	21.2	7 30	22 37.36	-18 18.3	0.999	1.953	14.3	19.1
8 9	22 35.68	- 6 55.4	1.335	2.309	9.2	20.9	8 9	22 32.81	-19 57.9	0.962	1.950	9.6	18.8
8 19	22 27.06	- 7 1.7	1.286	2.289	4.4	20.5	8 19	22 25.87	-21 37.7	0.946	1.948	6.0	18.6
8 29	22 17.23	- 7 15.1	1.261	2.269	1.7	20.3	8 29	22 17.81	-23 3.8	0.952	1.947	7.2	18.7
9 8	22 7.50	- 7 30.6	1.261	2.250	6.6	20.6	9 8	22 10.25	-24 4.9	0.980	1.948	11.6	18.9
9 18	21 59.14	- 7 43.1	1.286	2.232	11.6	20.8	9 18	22 4.64	-24 35.1	1.027	1.950	16.2	19.2
9 28	21 53.25	- 7 48.6	1.333	2.213	16.0	21.0	9 28	22 2.01	-24 34.0	1.092	1.953	20.3	19.5
206686	2003 YM ₁₄₄	8 26.1 64°78		1°5/27.4 18			91761	1999 TZ ₁₉₁	8 26.2 296°13		0°8/26.8 18		
7 20	22 44.03	- 4 43.0	1.901	2.731	14.8	20.4	7 20	22 44.90	- 7 37.5	2.207	3.036	13.0	19.5
7 30	22 39.87	- 4 49.9	1.824	2.733	11.6	20.2	7 30	22 40.31	- 7 32.9	2.120	3.031	10.2	19.3
8 9	22 33.69	- 5 10.3	1.768	2.735	7.9	20.0	8 9	22 33.89	- 7 37.2	2.056	3.026	6.8	19.1
8 19	22 26.03	- 5 41.6	1.736	2.737	3.9	19.7	8 19	22 26.12	- 7 48.3	2.018	3.021	3.1	18.8
8 29	22 17.70	- 6 20.0	1.732	2.740	1.6	19.6	8 29	22 17.72	- 8 3.4	2.007	3.016	1.1	18.7
9 8	22 9.64	- 7 0.3	1.754	2.742	5.2	19.8	9 8	22 9.52	- 8 18.8	2.024	3.011	4.8	18.9
9 18	22 2.73	- 7 37.6	1.803	2.744	9.1	20.1	9 18	22 2.31	- 8 31.4	2.069	3.006	8.4	19.1
9 28	21 57.71	- 8 7.7	1.876	2.747	12.5	20.3	9 28	21 56.78	- 8 38.3	2.139	3.001	11.6	19.3
448648	2010 VA ₁₀₂	8 26.1 20°63		5°0/31.2 18			182846	2002 CX ₈₅	8 26.2 49°41		2°1/23.9 18		
7 20	22 40.76	+ 5 49.3	2.078	2.861	15.3	20.8	7 20	22 40.60	-12 2.4	1.972	2.828	13.3	19.9
7 30	22 37.22	+ 6 4.1	1.998	2.864	12.7	20.6	7 30	22 37.18	-13 10.7	1.907	2.837	10.1	19.7
8 9	22 31.90	+ 6 0.3	1.937	2.867	9.8	20.5	8 9	22 31.90	-14 28.7	1.865	2.846	6.4	19.5
8 19	22 25.26	+ 5 37.8	1.898	2.870	6.9	20.3	8 19	22 25.28	-15 50.5	1.849	2.855	2.9	19.3
8 29	22 18.00	+ 4 58.6	1.886	2.874	5.1	20.2	8 29	22 18.07	-17 9.1	1.861	2.864	2.9	19.3
9 8	22 10.96	+ 4 6.7	1.900	2.878	5.9	20.3	9 8	22 11.17	-18 17.8	1.900	2.873	6.4	19.6
9 18	22 4.90	+ 3 7.7	1.940	2.882	8.4	20.4	9 18	22 5.36	-19 12.1	1.965	2.883	9.9	19.8
9 28	22 0.50	+ 2 7.8	2.005	2.887	11.3	20.6	9 28	22 1.31	-19 49.2	2.053	2.892	12.9	20.0
327222	2005 QC ₂₈	8 26.1 38°40		1°4/25.3 17			220225	2002 VH ₁₂₃	8 26.2 320°55		0°4/26.5 18		
7 20	22 46.13	-11 25.8	1.167	2.044	19.1	20.0	7 20	22 44.67	- 8 33.5	1.729	2.576	15.3	20.0
7 30	22 42.33	-11 47.5	1.121	2.060	14.6	19.7	7 30	22 40.69	- 8 32.4	1.645	2.566	11.9	19.7
8 9	22 35.63	-12 21.7	1.094	2.077	9.4	19.5	8 9	22 34.44	- 8 42.0	1.581	2.556	7.9	19.5
8 19	22 26.88	-13 1.9	1.088	2.094	3.9	19.2	8 19	22 26.45	- 8 59.8	1.541	2.546	3.5	19.2
8 29	22 17.42	-13 40.5	1.105	2.113	2.6	19.2	8 29	22 17.59	- 9 21.6	1.528	2.536	1.3	19.0
9 8	22 8.71	-14 9.9	1.147	2.132	7.8	19.6	9 8	22 8.95	- 9 42.6	1.540	2.527	5.9	19.3
9 18	22 1.98	-14 25.7	1.211	2.151	12.6	19.9	9 18	22 1.55	- 9 58.5	1.579	2.519	10.2	19.6
9 28	21 58.07	-14 25.7	1.296	2.172	16.7	20.2	9 28	21 56.27	-10 5.8	1.640	2.511	14.0	19.8
334438	2002 GD ₁₆₀	8 26.1 146°13		4°3/30.9 18			212825	2007 UV ₂₅	8 26.2 188°25		3°4/29.8 18		
7 20	22 42.97	+ 6 9.4	2.142	2.916	15.1	21.3	7 20	22 42.59	+ 2 42.0	2.252	3.041	14.0	21.1
7 30	22 38.84	+ 5 53.7	2.061	2.924	12.5	21.1	7 30	22 38.52	+ 2 34.1	2.164	3.041	11.4	20.9
8 9	22 32.92	+ 5 17.9	1.999	2.931	9.5	21.0	8 9	22 32.72	+ 2 9.6	2.097	3.040	8.4	20.7
8 19	22 25.69	+ 4 22.8	1.962	2.938	6.4	20.8	8 19	22 25.63	+ 1 29.5	2.054	3.039	5.4	20.5
8 29	22 17.86	+ 3 11.7	1.951	2.944	4.4	20.7	8 29	22 17.93	+ 0 36.6	2.039	3.038	3.5	20.4
9 8	22 10.26	+ 1 50.1	1.969	2.950	5.4	20.8	9 8	22 10.40	- 0 24.5	2.052	3.036	4.9	20.5
9 18	22 3.66	+ 0 24.8	2.014	2.956	8.2	20.9	9 18	22 3.79	- 1 28.3	2.092	3.034	8.0	20.7
9 28	21 58.74	- 0 57.7	2.084	2.961	11.2	21.1	9 28	21 58.75	- 2 29.3	2.158	3.032	11.0	20.9
69381	1995 BH	8 26.2 214°00		0°4/26.6 18			4553	Doncampbell	8 26.2 37°07		2°3/28.4 18		
7 20	22 44.48	- 6 48.8	2.646	3.464	11.4	20.5	7 20	22 39.43	+ 0 48.0	1.480	2.314	18.1	

EPHEMERIDES

8 26.2

8 26.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
519790	2013 GQ ₇₃		8 26.2 314 ^o .12	1.6 ^o /27.9 18			507646	2013 OY		8 26.2 54 ^o .99	5 ^o .0/29.8 17		
7 20	22 39.88	- 2 13.3	2.116	2.938	13.8	21.5	7 20	22 45.31	+ 2 11.3	1.329	2.156	20.1	21.5
7 30	22 36.57	- 2 45.0	2.031	2.934	10.9	21.3	7 30	22 41.59	+ 2 29.1	1.266	2.165	16.4	21.3
8 9	22 31.51	- 3 32.3	1.966	2.930	7.5	21.0	8 9	22 35.20	+ 2 23.0	1.220	2.174	12.1	21.0
8 19	22 25.14	- 4 32.8	1.927	2.926	3.9	20.8	8 19	22 26.81	+ 1 53.3	1.195	2.184	7.7	20.8
8 29	22 18.13	- 5 41.8	1.914	2.922	1.7	20.6	8 29	22 17.54	+ 1 3.8	1.194	2.194	5.0	20.7
9 8	22 11.29	- 6 53.4	1.930	2.918	4.7	20.9	9 8	22 8.74	+ 0 1.8	1.217	2.204	7.0	20.9
9 18	22 5.39	- 8 1.9	1.973	2.915	8.4	21.1	9 18	22 1.59	- 1 4.0	1.264	2.215	11.2	21.1
9 28	22 1.10	- 9 1.9	2.040	2.911	11.7	21.3	9 28	21 57.01	- 2 5.1	1.333	2.225	15.2	21.4
68279	2001 FD ₈		8 26.2 23 ^o .82	0 ^o .7/26.6 17			101145	1998 RD ₇₀		8 26.2 256 ^o .76	1 ^o .9/24.6 18 R		
7 20	22 41.20	- 5 48.7	1.117	1.991	20.1	18.7	7 20	22 46.08	-12 11.1	1.740	2.594	14.9	20.0
7 30	22 38.79	- 6 14.3	1.064	1.999	15.6	18.5	7 30	22 41.91	-12 55.2	1.651	2.578	11.5	19.8
8 9	22 33.50	- 7 0.8	1.028	2.008	10.4	18.2	8 9	22 35.36	-13 50.6	1.584	2.563	7.5	19.5
8 19	22 26.08	- 8 3.1	1.012	2.018	4.6	18.0	8 19	22 26.92	-14 52.0	1.541	2.547	3.3	19.2
8 29	22 17.78	- 9 12.4	1.019	2.029	1.6	17.8	8 29	22 17.47	-15 52.4	1.525	2.530	2.9	19.1
9 8	22 10.05	-10 18.7	1.050	2.040	7.2	18.2	9 8	22 8.16	-16 44.5	1.536	2.514	7.1	19.4
9 18	22 4.17	-11 13.5	1.103	2.053	12.5	18.5	9 18	22 0.09	-17 23.0	1.573	2.496	11.5	19.6
9 28	22 1.03	-11 51.3	1.176	2.067	16.9	18.8	9 28	21 54.20	-17 44.6	1.631	2.479	15.3	19.8
159619	2002 AU ₁₀₉		8 26.2 252 ^o .79	0 ^o .9/25.4 18			36148	1999 RF ₁₉₂		8 26.2 349 ^o .16	4 ^o .5/22.7 18 R		
7 20	22 44.64	- 9 42.8	1.874	2.720	14.3	20.5	7 20	22 46.10	-21 21.1	1.810	2.677	13.8	17.9
7 30	22 40.58	-10 21.6	1.785	2.707	11.1	20.3	7 30	22 41.68	-21 51.5	1.740	2.673	10.7	17.7
8 9	22 34.34	-11 12.7	1.717	2.694	7.2	20.1	8 9	22 35.00	-22 22.7	1.692	2.669	7.4	17.5
8 19	22 26.42	-12 11.6	1.674	2.680	3.0	19.8	8 19	22 26.67	-22 48.8	1.669	2.666	4.8	17.4
8 29	22 17.62	-13 12.4	1.659	2.666	1.9	19.7	8 29	22 17.62	-23 3.9	1.672	2.663	5.3	17.4
9 8	22 8.96	-14 8.4	1.671	2.652	6.2	19.9	9 8	22 8.95	-23 3.8	1.701	2.661	8.2	17.6
9 18	22 1.42	-14 54.1	1.709	2.638	10.4	20.1	9 18	22 1.67	-22 46.9	1.754	2.659	11.6	17.8
9 28	21 55.85	-15 25.8	1.770	2.623	14.0	20.3	9 28	21 56.54	-22 13.6	1.829	2.658	14.7	18.0
515652	2014 OO ₄₆		8 26.2 92 ^o .70	1 ^o .5/27.7 18			358962	2008 LA ₁₆		8 26.2 64 ^o .60	1 ^o .6/27.9 18		
7 20	22 43.66	- 4 31.6	2.340	3.158	12.8	21.3	7 20	22 40.34	- 2 9.5	2.180	2.999	13.5	21.1
7 30	22 39.20	- 4 29.6	2.261	3.162	10.0	21.1	7 30	22 36.82	- 2 40.8	2.102	3.003	10.7	20.9
8 9	22 33.08	- 4 38.2	2.203	3.166	6.9	20.9	8 9	22 31.61	- 3 26.9	2.046	3.008	7.4	20.7
8 19	22 25.76	- 4 55.6	2.172	3.171	3.5	20.7	8 19	22 25.19	- 4 25.1	2.015	3.013	3.8	20.5
8 29	22 17.92	- 5 19.1	2.168	3.175	1.6	20.6	8 29	22 18.21	- 5 31.1	2.011	3.018	1.6	20.3
9 8	22 10.31	- 5 45.1	2.192	3.179	4.4	20.8	9 8	22 11.45	- 6 39.2	2.035	3.024	4.5	20.5
9 18	22 3.63	- 6 10.0	2.245	3.184	7.7	21.0	9 18	22 5.63	- 7 44.0	2.087	3.029	8.0	20.8
9 28	21 58.51	- 6 30.5	2.322	3.188	10.6	21.2	9 28	22 1.38	- 8 40.7	2.164	3.034	11.1	21.0
445450	2010 UE ₈₈		8 26.2 286 ^o .89	5 ^o .8/20.3 18			68330	2001 HW ₄₈		8 26.2 254 ^o .34	0 ^o .1/26.1 18		
7 20	22 45.31	-26 13.5	2.225	3.085	11.9	20.8	7 20	22 49.23	-10 31.3	2.019	2.854	13.9	18.2
7 30	22 40.82	-27 9.0	2.150	3.074	9.4	20.6	7 30	22 43.91	-10 26.8	1.927	2.842	10.8	18.0
8 9	22 34.33	-28 2.8	2.098	3.063	7.1	20.5	8 9	22 36.43	-10 29.7	1.856	2.829	7.1	17.7
8 19	22 26.35	-28 48.8	2.072	3.051	5.8	20.4	8 19	22 27.31	-10 37.3	1.812	2.817	3.0	17.4
8 29	22 17.69	-29 20.9	2.072	3.040	6.6	20.4	8 29	22 17.36	-10 46.3	1.795	2.804	1.3	17.3
9 8	22 9.28	-29 35.0	2.099	3.029	8.8	20.5	9 8	22 7.58	-10 52.8	1.807	2.791	5.5	17.6
9 18	22 1.99	-29 29.4	2.150	3.018	11.4	20.7	9 18	21 58.94	-10 53.8	1.846	2.778	9.5	17.8
9 28	21 56.57	-29 4.9	2.223	3.006	13.9	20.8	9 28	21 52.27	-10 47.1	1.909	2.764	13.1	18.0
390888	2004 XK ₈₅		8 26.2 222 ^o .21	5 ^o .4/19.9 18			212971	2009 BA ₁₂₁		8 26.2 149 ^o .00	0 ^o .4/26.6 18		
7 20	22 45.74	-23 34.5	2.252	3.110	11.8	21.3	7 20	22 44.32	- 6 47.1	2.313	3.138	12.6	21.9
7 30	22 41.17	-24 58.9	2.175	3.100	9.2	21.2	7 30	22 39.73	- 7 12.5	2.236	3.145	9.8	21.7
8 9	22 34.59	-26 25.1	2.123	3.091	6.8	21.0	8 9	22 33.45	- 7 48.5	2.182	3.152	6.5	21.5
8 19	22 26.49	-27 45.9	2.097	3.080	5.5	20.9	8 19	22 25.95	- 8 32.0	2.155	3.158	2.9	21.3
8 29	22 17.63	-28 54.0	2.100	3.069	6.4	20.9	8 29	22 17.92	- 9 18.7	2.156	3.164	1.0	21.1
9 8	22 8.94	-29 43.9	2.129	3.058	8.8	21.1	9 8	22 10.13	-10 4.2	2.185	3.170	4.6	21.4
9 18	22 1.31	-30 12.9	2.183	3.045	11.5	21.2	9 18	22 3.32	-10 44.4	2.242	3.175	8.0	21.6
9 28	21 55.49	-30 20.5	2.259	3.033	14.0	21.4	9 28	21 58.09	-11 15.9	2.325	3.180	11.0	21.8
71931	2000 WN ₆₁		8 26.2 276 ^o .07	3 ^o .3/23.6 18			23761	Yangliqing		8 26.2 126 ^o .62	3 ^o .9/22.9 18		
7 20	22 45.52	-14 9.2	1.489	2.357	16.2	19.6	7 20	22 46.45	-15 49.4	1.526	2.394	15.9	19.1
7 30	22 41.92	-15 8.3	1.404	2.340	12.5	19.3	7 30	22 42.29	-17 0.2	1.464	2.399	12.1	18.9
8 9	22 35.61	-16 19.8	1.339	2.321	8.2	19.0	8 9	22 35.57	-18 19.8	1.423	2.404	7.9	18.6
8 19	22 27.09	-17 36.7	1.298	2.303	4.1	18.8	8 19	22 26.96	-19 39.8	1.407	2.409	4.4	18.4
8 29	22 17.37	-18 49.6	1.283	2.284	4.4	18.7	8 29	22 17.52	-20 50.9	1.416	2.413	4.9	18.5
9 8	22 7.77	-19 49.4	1.293	2.265	8.8	18.9	9 8	22 8.52	-21 45.4	1.451	2.418	8.7	18.7
9 18	21 59.61	-20 29.7	1.326	2.247	13.4	19.1	9 18	22 1.08	-22 18.8	1.511	2.422	12.7	19.0
9 28	21 53.99	-20 47.5	1.380	2.228	17.5	19.4	9 28	21 56.08	-22 30.1	1.591	2.426	16.2	19.2
139861	2001 RP ₆₅		8 26.2 302 ^o .65	3 ^o .1/28.9 18			344762	2003 WU ₆₁		8 26.2 303 ^o .55	4 ^o .4/22.3 18		
7 20	22 42.40	- 0 21.8	1.962	2.775	15.0	19.9	7 20	22 44.80	-19 6.9	1.785	2.652	14.0	20.3
7 30	22 38.68	- 0 18.6	1.874	2.768	12.1	19.7	7 30	22 40.77	-20 4.4	1.714	2.648	10.7	20.1
8 9	22 33.00	- 0 31.2	1.806	2.761	8.7	19.5	8 9	22 34.48	-21 6.3	1.666	2.644	7.3	19.8
8 19	22 25.83	- 0 58.7	1.762	2.754	5.2	19.3	8 19	22 26.49	-22 5.9	1.642	2.640	4.6	19.7
8 29	22 17.91	- 1 38.2	1.744	2.747	3.1	19.1	8 29	22 17.72	-22 55.6	1.644	2.636	5.3	19.7
9 8	22 10.15	- 2 25.0	1.754	2.741	5.3	19.2	9 8	22 9.26	-23 29.5	1.673	2.632	8.4	19.9
9 18	22 3.43	- 3 13.6	1.789	2.734	8.9	19.4	9 18	22 2.11	-23 44.5	1.725	2.628	11.9	20.1
9 28	21 58.51	- 3 58.6	1.849	2.728	12.3	19.7	9 28	21 57.11	-23 39.8	1.800	2.624	15.1	20.3
391582	2007 TU ₃₆₂												

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
225497	2000 <i>KC</i> ₄₀		8 26.2 14°98	5°8/21.7	18		343312	2010 <i>BH</i> ₂₈		8 26.2 300°21	13°4/12.4	18	
7 20	22 43.31	-19 22.5	1.303	2.190	16.9	19.2	7 20	22 52.24	-41 47.5	1.654	2.502	15.8	19.3
7 30	22 40.28	-20 40.5	1.249	2.193	12.9	18.9	7 30	22 47.70	-43 35.8	1.589	2.476	14.3	19.2
8 9	22 34.45	-22 4.3	1.214	2.196	8.9	18.7	8 9	22 39.72	-45 11.1	1.545	2.451	13.4	19.1
8 19	22 26.53	-23 23.8	1.202	2.200	6.0	18.6	8 19	22 28.96	-46 20.9	1.522	2.425	13.6	19.0
8 29	22 17.71	-24 28.4	1.214	2.204	7.0	18.7	8 29	22 16.80	-46 54.6	1.520	2.400	14.9	19.0
9 8	22 9.42	-25 10.0	1.250	2.209	10.6	18.9	9 8	22 5.02	-46 46.8	1.538	2.375	16.9	19.1
9 18	22 2.90	-25 25.2	1.307	2.215	14.5	19.1	9 18	21 55.31	-45 58.6	1.574	2.350	19.1	19.2
9 28	21 59.07	-25 14.5	1.384	2.221	18.0	19.4	9 28	21 48.90	-44 35.4	1.625	2.325	21.3	19.3
224172	2005 <i>QV</i> ₁₀₉		8 26.2 354°28	2°1/27.8	17		495177	2012 <i>MP</i> ₂		8 26.2 166°50	9°2/17.2	17	
7 20	22 40.06	- 2 36.5	1.275	2.131	19.1	20.5	7 20	22 48.74	-19 9.2	1.197	2.081	18.3	21.0
7 30	22 37.78	- 2 54.9	1.204	2.127	15.2	20.3	7 30	22 45.12	-22 48.5	1.144	2.085	14.1	20.8
8 9	22 32.86	- 3 36.1	1.152	2.124	10.5	20.0	8 9	22 38.10	-26 41.8	1.114	2.089	10.4	20.6
8 19	22 25.90	- 4 37.2	1.121	2.122	5.4	19.7	8 19	22 28.30	-30 27.7	1.111	2.092	9.2	20.5
8 29	22 17.94	- 5 51.6	1.113	2.121	2.2	19.5	8 29	22 17.05	-33 43.3	1.134	2.095	11.6	20.7
9 8	22 10.30	- 7 9.8	1.129	2.120	6.6	19.8	9 8	22 6.13	-36 12.7	1.181	2.096	15.4	20.9
9 18	22 4.21	- 8 22.2	1.168	2.121	11.7	20.1	9 18	21 57.23	-37 50.7	1.250	2.097	19.2	21.2
9 28	22 0.66	- 9 21.3	1.229	2.122	16.2	20.4	9 28	21 51.64	-38 40.7	1.334	2.097	22.4	21.4
50362	2000 <i>CB</i> ₇₇		8 26.2 141°41	0°3/25.9	18		407036	2009 <i>SM</i> ₇₂		8 26.2 21°62	2°9/23.9	14	C
7 20	22 47.88	- 8 51.4	1.843	2.681	14.9	19.3	7 20	22 46.54	-17 57.9	2.005	2.861	13.1	21.4
7 30	22 42.86	- 9 17.7	1.773	2.690	11.4	19.1	7 30	22 41.71	-18 13.5	1.937	2.865	10.0	21.2
8 9	22 35.69	- 9 55.3	1.724	2.699	7.5	18.9	8 9	22 34.87	-18 31.7	1.891	2.869	6.6	21.0
8 19	22 26.96	-10 39.9	1.701	2.707	3.1	18.6	8 19	22 26.62	-18 48.0	1.871	2.874	3.5	20.8
8 29	22 17.55	-11 26.2	1.706	2.714	1.4	18.5	8 29	22 17.78	-18 57.7	1.879	2.879	3.5	20.8
9 8	22 8.52	-12 8.5	1.738	2.721	5.8	18.8	9 8	22 9.34	-18 57.5	1.913	2.884	6.6	21.0
9 18	22 0.79	-12 42.2	1.796	2.728	9.8	19.1	9 18	22 2.14	-18 45.5	1.974	2.889	10.0	21.2
9 28	21 55.11	-13 4.2	1.878	2.734	13.2	19.3	9 28	21 56.88	-18 21.4	2.058	2.895	13.0	21.4
218482	2004 <i>TY</i> ₇		8 26.2 13°54	5°3/ 1.2	18		205146	1999 <i>XC</i> ₄₃		8 26.2 235°38	7°4/ 2.3	18	
7 20	22 36.74	+ 8 47.9	1.767	2.553	17.4	19.8	7 20	22 43.56	+11 44.1	2.055	2.798	16.6	20.1
7 30	22 34.49	+ 8 21.0	1.690	2.557	14.6	19.6	7 30	22 39.59	+12 17.8	1.963	2.793	14.4	19.9
8 9	22 30.31	+ 7 27.2	1.631	2.562	11.3	19.4	8 9	22 33.65	+12 30.0	1.890	2.787	11.8	19.7
8 19	22 24.71	+ 6 7.5	1.595	2.567	7.9	19.2	8 19	22 26.18	+12 18.8	1.838	2.781	9.3	19.6
8 29	22 18.44	+ 4 25.9	1.583	2.574	5.5	19.1	8 29	22 17.92	+11 44.2	1.810	2.775	7.6	19.5
9 8	22 12.44	+ 2 30.4	1.597	2.581	6.1	19.2	9 8	22 9.77	+10 49.3	1.808	2.769	7.8	19.5
9 18	22 7.53	+ 0 30.6	1.638	2.589	9.0	19.3	9 18	22 2.61	+ 9 39.9	1.832	2.763	9.6	19.6
9 28	22 4.43	- 1 24.1	1.703	2.597	12.4	19.6	9 28	21 57.24	+ 8 23.3	1.880	2.756	12.3	19.7
349180	2007 <i>RA</i> ₁₀₃		8 26.2 343°29	1°6/25.1	18		139090	2001 <i>FE</i> ₂₉		8 26.2 110°00	0°1/26.3	18	
7 20	22 43.00	-12 52.3	1.368	2.243	17.0	19.5	7 20	22 47.79	- 6 20.1	1.795	2.627	15.4	20.2
7 30	22 39.99	-13 3.3	1.294	2.232	13.1	19.3	7 30	22 42.72	- 7 7.4	1.736	2.649	11.9	20.0
8 9	22 34.29	-13 23.9	1.239	2.222	8.6	19.0	8 9	22 35.55	- 8 8.7	1.699	2.671	7.8	19.8
8 19	22 26.51	-13 49.5	1.207	2.213	3.7	18.7	8 19	22 26.90	- 9 19.0	1.687	2.692	3.3	19.6
8 29	22 17.73	-14 13.8	1.198	2.205	2.6	18.6	8 29	22 17.69	-10 31.8	1.703	2.712	1.3	19.5
9 8	22 9.26	-14 30.4	1.214	2.198	7.5	18.9	9 8	22 8.94	-11 40.0	1.748	2.732	5.6	19.8
9 18	22 2.37	-14 35.0	1.253	2.193	12.3	19.1	9 18	22 1.56	-12 38.0	1.819	2.751	9.6	20.1
9 28	21 58.02	-14 25.2	1.313	2.188	16.6	19.4	9 28	21 56.24	-13 22.2	1.914	2.769	13.0	20.4
184525	2005 <i>QA</i> ₁₉		8 26.2 27°36	1°0/25.5	17		191045	2002 <i>CG</i> ₃₂		8 26.2 124°41	1°5/25.1	18	
7 20	22 42.61	- 9 23.9	1.192	2.068	18.9	19.7	7 20	22 50.82	-13 40.9	1.870	2.714	14.4	20.2
7 30	22 39.74	- 9 59.6	1.138	2.077	14.5	19.5	7 30	22 45.07	-13 49.7	1.802	2.723	11.0	20.0
8 9	22 34.08	-10 51.2	1.104	2.087	9.4	19.2	8 9	22 37.12	-14 4.4	1.755	2.732	7.2	19.8
8 19	22 26.37	-11 52.4	1.090	2.097	3.9	19.0	8 19	22 27.59	-14 21.0	1.734	2.740	3.1	19.6
8 29	22 17.82	-12 54.3	1.101	2.109	2.3	18.9	8 29	22 17.43	-14 34.8	1.741	2.748	2.2	19.6
9 8	22 9.85	-13 48.0	1.135	2.121	7.6	19.3	9 8	22 7.71	-14 41.9	1.776	2.755	6.2	19.8
9 18	22 3.69	-14 26.9	1.192	2.134	12.5	19.6	9 18	21 59.38	-14 39.8	1.837	2.762	10.0	20.1
9 28	22 0.21	-14 47.5	1.269	2.148	16.7	19.9	9 28	21 53.20	-14 27.2	1.922	2.769	13.3	20.3
488275	2016 <i>TH</i> ₂₀		8 26.2 337°47	1°4/27.2	18		298280	2002 <i>XZ</i> ₈₃		8 26.2 297°61	4°6/21.5	18	
7 20	22 40.31	- 5 5.6	1.413	2.270	17.5	20.6	7 20	22 42.14	-17 40.1	1.839	2.707	13.6	20.7
7 30	22 37.83	- 5 14.4	1.333	2.258	13.9	20.4	7 30	22 38.98	-19 5.5	1.743	2.678	10.5	20.4
8 9	22 32.86	- 5 41.0	1.272	2.246	9.5	20.1	8 9	22 33.55	-20 40.8	1.669	2.648	7.2	20.2
8 19	22 25.92	- 6 22.8	1.233	2.236	4.6	19.8	8 19	22 26.25	-22 18.8	1.621	2.619	4.7	19.9
8 29	22 17.97	- 7 14.3	1.218	2.226	1.7	19.6	8 29	22 17.88	-23 50.1	1.599	2.589	5.7	19.9
9 8	22 10.24	- 8 8.3	1.227	2.218	6.4	19.9	9 8	22 9.48	-25 6.0	1.604	2.559	9.1	20.1
9 18	22 3.90	- 8 57.3	1.261	2.210	11.3	20.1	9 18	22 2.15	-26 0.6	1.634	2.529	12.9	20.2
9 28	21 59.92	- 9 35.1	1.315	2.203	15.7	20.4	9 28	21 56.86	-26 30.9	1.684	2.499	16.3	20.4
116483	2004 <i>BJ</i> ₈		8 26.2 3°12	1°7/27.6	18		16219	Venturelli		8 26.2 307°11	0°4/25.9	18	
7 20	22 42.17	- 4 1.0	1.662	2.502	16.1	20.0	7 20	22 43.28	- 8 48.0	1.354	2.220	17.7	19.8
7 30	22 38.79	- 4 9.5	1.587	2.501	12.7	19.7	7 30	22 40.47	- 9 8.2	1.264	2.197	13.8	19.5
8 9	22 33.21	- 4 33.9	1.532	2.501	8.7	19.5	8 9	22 34.85	- 9 44.5	1.193	2.174	9.2	19.2
8 19	22 25.98	- 5 11.8	1.501	2.502	4.4	19.3	8 19	22 26.90	-10 33.2	1.144	2.151	3.9	18.8
8 29	22 17.99	- 5 58.6	1.495	2.503	1.9	19.1	8 29	22 17.62	-11 27.4	1.120	2.128	1.8	18.6
9 8	22 10.29	- 6 48.1	1.515	2.504	5.6	19.3	9 8	22 8.39	-12 18.8	1.119	2.106	7.5	18.9
9 18	22 3.84	- 7 34.3	1.560	2.506	9.8	19.6	9 18	22 0.60	-12 59.9	1.142	2.085	12.9	19.1
9 28	21 59.46	- 8 12.0	1.628	2.508	13.6	19.8	9 28	21 55.44	-13 25.1	1.184	2.064	17.7	19.4
482902	2014 <i>HG</i> ₁₄		8 26.2 231°29	1°3/27.5	18	R	437513	2013 <i>YD</i> ₈₈					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
335513	2005 YR ₁₆₉		8 26.2 124°03	17.4/ 4.7	16		476716	2008 TG ₁₈₅		8 26.2 346°38	14.7/ 5.9	16	
7 20	22 55.52	+18 54.4	1.193	1.927	26.8	19.9	7 20	22 39.43	+17 43.0	1.304	2.062	23.8	20.4
7 30	22 50.45	+21 40.8	1.130	1.931	24.4	19.7	7 30	22 37.60	+19 40.2	1.228	2.050	21.7	20.2
8 9	22 41.74	+23 57.5	1.080	1.935	21.7	19.6	8 9	22 33.02	+21 8.4	1.166	2.039	19.2	20.0
8 19	22 29.95	+25 32.9	1.047	1.939	19.3	19.4	8 19	22 26.15	+21 59.4	1.120	2.030	16.9	19.8
8 29	22 16.43	+26 17.7	1.032	1.943	17.7	19.3	8 29	22 17.97	+22 7.2	1.092	2.022	15.2	19.7
9 8	22 3.08	+26 10.4	1.036	1.946	17.5	19.3	9 8	22 9.86	+21 32.0	1.083	2.016	14.7	19.6
9 18	21 51.78	+25 17.7	1.058	1.950	18.6	19.4	9 18	22 3.22	+20 19.8	1.092	2.011	15.8	19.7
9 28	21 44.02	+23 53.4	1.099	1.953	20.6	19.6	9 28	21 59.26	+18 42.2	1.121	2.008	17.9	19.8
371438	2006 SO ₂₂₁		8 26.2 46°08	2°6/24.8	17		385171	2013 VD ₁₆		8 26.2 290°93	1°6/25.0	18	
7 20	22 49.81	-14 36.0	1.192	2.067	18.9	20.8	7 20	22 45.20	-11 28.0	1.509	2.371	16.3	21.3
7 30	22 45.24	-14 52.9	1.143	2.081	14.4	20.6	7 30	22 41.64	-12 0.0	1.421	2.353	12.7	21.1
8 9	22 37.63	-15 18.1	1.113	2.095	9.3	20.4	8 9	22 35.45	-12 44.8	1.353	2.334	8.3	20.8
8 19	22 27.88	-15 45.0	1.104	2.110	4.2	20.1	8 19	22 27.11	-13 37.3	1.309	2.315	3.6	20.4
8 29	22 17.37	-16 6.0	1.120	2.126	3.5	20.1	8 29	22 17.61	-14 30.4	1.289	2.296	2.6	20.3
9 8	22 7.65	-16 15.3	1.160	2.142	8.3	20.5	9 8	22 8.23	-15 16.2	1.296	2.277	7.5	20.6
9 18	22 0.02	-16 9.9	1.223	2.158	13.1	20.8	9 18	22 0.23	-15 48.7	1.326	2.259	12.4	20.8
9 28	21 55.35	-15 49.3	1.306	2.174	17.1	21.1	9 28	21 54.68	-16 4.3	1.377	2.240	16.7	21.0
360121	2013 CE ₂₅		8 26.2 126°06	1°4/27.6	18		45888	2000 WL ₁₃₀		8 26.2 101°26	3°1/28.6	18	
7 20	22 43.90	- 4 8.9	2.347	3.162	12.8	21.5	7 20	22 48.12	- 0 39.8	1.553	2.373	18.0	19.2
7 30	22 39.39	- 4 20.5	2.271	3.171	10.0	21.3	7 30	22 43.36	- 0 42.8	1.490	2.390	14.3	19.0
8 9	22 33.24	- 4 43.4	2.217	3.180	6.8	21.2	8 9	22 36.18	- 1 5.3	1.447	2.405	10.1	18.8
8 19	22 25.93	- 5 15.6	2.189	3.189	3.5	21.0	8 19	22 27.26	- 1 45.1	1.426	2.421	5.7	18.5
8 29	22 18.10	- 5 53.7	2.190	3.197	1.5	20.8	8 29	22 17.64	- 2 37.5	1.431	2.436	3.1	18.4
9 8	22 10.53	- 6 33.4	2.219	3.205	4.4	21.0	9 8	22 8.49	- 3 35.6	1.463	2.451	6.0	18.6
9 18	22 3.90	- 7 10.8	2.275	3.213	7.6	21.3	9 18	22 0.86	- 4 32.5	1.520	2.466	10.1	18.9
9 28	21 58.81	- 7 42.4	2.357	3.221	10.6	21.5	9 28	21 55.57	- 5 22.0	1.601	2.480	13.9	19.2
194984	2002 BO ₁		8 26.2 85°95	1°1/25.3	18		256379	2006 Y7 ₁₈		8 26.2 110°95	1°7/24.4	18	
7 20	22 47.33	-11 22.2	1.713	2.563	15.3	19.7	7 20	22 42.42	-12 39.2	2.292	3.138	12.0	21.0
7 30	22 42.55	-11 47.2	1.651	2.575	11.7	19.5	7 30	22 38.35	-13 28.4	2.222	3.146	9.1	20.8
8 9	22 35.55	-12 21.6	1.610	2.588	7.5	19.2	8 9	22 32.62	-14 24.9	2.176	3.154	5.9	20.6
8 19	22 26.95	-13 0.6	1.594	2.600	3.1	19.0	8 19	22 25.69	-15 24.2	2.156	3.161	2.6	20.4
8 29	22 17.72	-13 38.5	1.605	2.613	2.0	19.0	8 29	22 18.24	-16 21.1	2.165	3.169	2.4	20.4
9 8	22 8.95	-14 9.8	1.643	2.625	6.3	19.3	9 8	22 11.05	-17 10.5	2.202	3.176	5.6	20.7
9 18	22 1.60	-14 30.6	1.707	2.637	10.3	19.5	9 18	22 4.83	-17 48.8	2.266	3.183	8.7	20.9
9 28	21 56.41	-14 38.8	1.793	2.649	13.7	19.8	9 28	22 0.19	-18 13.8	2.354	3.190	11.5	21.1
236474	2006 FK ₁₉		8 26.2 294°52	7°3/20.7	18		431248	2006 TK ₈₀		8 26.2 305°72	0°2/26.3	17	
7 20	22 50.37	-27 25.0	1.701	2.567	14.7	19.6	7 20	22 45.97	- 8 50.5	1.373	2.233	17.8	21.3
7 30	22 45.38	-28 16.5	1.629	2.554	11.7	19.4	7 30	22 42.42	- 8 53.3	1.290	2.219	13.9	21.0
8 9	22 37.69	-29 5.0	1.578	2.542	8.9	19.2	8 9	22 36.04	- 9 9.7	1.226	2.204	9.3	20.7
8 19	22 27.97	-29 41.8	1.551	2.531	7.4	19.1	8 19	22 27.39	- 9 36.6	1.184	2.190	4.1	20.3
8 29	22 17.30	-29 59.3	1.549	2.519	8.2	19.1	8 29	22 17.54	-10 8.2	1.167	2.176	1.5	20.1
9 8	22 7.03	-29 52.6	1.572	2.507	10.9	19.3	9 8	22 7.88	-10 37.9	1.174	2.162	7.1	20.4
9 18	21 58.38	-29 21.0	1.619	2.496	14.0	19.4	9 18	21 59.76	-10 59.9	1.205	2.149	12.3	20.7
9 28	21 52.29	-28 27.1	1.685	2.484	17.0	19.6	9 28	21 54.28	-11 9.9	1.257	2.136	16.9	20.9
257073	2008 FU ₁₁₆		8 26.2 8°54	5°2/21.5	18		378674	2008 HV ₂₁		8 26.2 115°88	1°5/24.9	17	
7 20	22 46.41	-24 15.3	2.086	2.946	12.5	20.1	7 20	22 47.58	-11 30.5	1.674	2.526	15.5	21.3
7 30	22 41.67	-25 0.5	2.020	2.947	9.8	19.9	7 30	22 42.86	-12 9.9	1.611	2.537	11.8	21.1
8 9	22 34.90	-25 44.6	1.977	2.947	7.0	19.7	8 9	22 35.83	-12 59.5	1.568	2.547	7.6	20.9
8 19	22 26.67	-26 21.5	1.960	2.948	5.3	19.6	8 19	22 27.12	-13 54.0	1.551	2.557	3.2	20.6
8 29	22 17.82	-26 45.5	1.970	2.948	6.0	19.7	8 29	22 17.71	-14 46.5	1.560	2.566	2.5	20.6
9 8	22 9.35	-26 52.8	2.006	2.949	8.4	19.8	9 8	22 8.74	-15 30.5	1.596	2.576	6.7	20.9
9 18	22 2.12	-26 42.1	2.067	2.950	11.2	20.0	9 18	22 1.22	-16 1.8	1.658	2.585	10.8	21.1
9 28	21 56.84	-26 14.1	2.150	2.951	13.7	20.2	9 28	21 55.92	-16 17.9	1.742	2.594	14.3	21.4
483124	2015 OE ₇		8 26.2 57°20	7°0/ 1.2	18		479605	2014 DR ₁₅		8 26.2 194°98	1°9/24.2	18	
7 20	22 45.46	+ 8 42.1	1.978	2.739	16.6	21.2	7 20	22 43.28	-11 42.8	2.077	2.925	13.0	21.1
7 30	22 41.03	+ 9 32.4	1.897	2.742	14.2	21.0	7 30	22 39.30	-12 49.0	1.999	2.923	9.9	20.9
8 9	22 34.57	+10 3.6	1.834	2.745	11.4	20.8	8 9	22 33.41	-14 5.6	1.943	2.922	6.4	20.7
8 19	22 26.58	+10 13.6	1.794	2.748	8.8	20.7	8 19	22 26.09	-15 27.1	1.914	2.920	2.9	20.4
8 29	22 17.84	+10 2.4	1.779	2.751	7.1	20.6	8 29	22 18.09	-16 46.7	1.914	2.917	2.8	20.4
9 8	22 9.30	+ 9 32.9	1.790	2.755	7.5	20.6	9 8	22 10.29	-17 57.7	1.941	2.915	6.3	20.6
9 18	22 1.86	+ 8 50.1	1.826	2.758	9.6	20.7	9 18	22 3.53	-18 55.0	1.995	2.911	9.8	20.9
9 28	21 56.30	+ 8 0.3	1.886	2.761	12.3	20.9	9 28	21 58.52	-19 35.8	2.073	2.908	13.0	21.1
519370	2011 OO ₅₄		8 26.2 46°06	2°9/23.8	18		24157	Toshiyanagisawa		8 26.2 112°77	0°9/26.8	18	
7 20	22 45.22	-15 30.4	1.722	2.585	14.6	21.3	7 20	22 48.05	- 6 50.6	1.526	2.370	17.1	19.3
7 30	22 41.07	-16 13.9	1.656	2.589	11.1	21.1	7 30	22 43.49	- 6 56.3	1.455	2.374	13.4	19.1
8 9	22 34.66	-17 4.2	1.612	2.593	7.3	20.8	8 9	22 36.41	- 7 16.0	1.405	2.378	9.0	18.8
8 19	22 26.61	-17 55.3	1.593	2.597	3.7	20.6	8 19	22 27.43	- 7 46.8	1.378	2.382	4.1	18.6
8 29	22 17.85	-18 40.4	1.600	2.601	3.8	20.6	8 29	22 17.61	- 8 23.3	1.377	2.386	1.4	18.4
9 8	22 9.47	-19 13.6	1.633	2.605	7.4	20.9	9 8	22 8.18	- 8 59.3	1.402	2.390	6.2	18.7
9 18	22 2.46	-19 31.5	1.691	2.609	11.2	21.1	9 18	22 0.28	- 9 29.6	1.452	2.393	10.8	19.0
9 28	21 57.59	-19 32.7	1.772	2.614	14.5	21.3	9 28	21 54.78	- 9 49.8	1.524	2.397	14.8	19.2
212562	2006 SY ₇₄		8 26.2 31°91	1°7/24.6	18		479586	2014 CC ₂₂		8 26.2 209°91	1°1/25.3	18	
7 20	22 43.31	-12 27.8											

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8 26.2

8 26.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
482324	2011 <i>UT</i> ₂₆₂		8 26.2 308°88	0°9/25.5	16		519814	2013 <i>HL</i> ₁₂₄		8 26.2 267°07	1°8/24.6	18	
7 20	22 43.86	-11 0.1	1.878	2.728	14.1	21.8	7 20	22 46.21	-14 43.7	2.247	3.092	12.3	21.7
7 30	22 39.98	-11 19.5	1.793	2.718	10.9	21.6	7 30	22 41.46	-15 2.6	2.156	3.078	9.4	21.5
8 9	22 33.99	-11 48.4	1.730	2.707	7.1	21.4	8 9	22 34.82	-15 26.6	2.088	3.065	6.2	21.3
8 19	22 26.39	-12 22.9	1.691	2.697	3.0	21.1	8 19	22 26.74	-15 52.1	2.046	3.051	2.8	21.1
8 29	22 18.00	-12 58.1	1.679	2.687	1.8	21.0	8 29	22 17.95	-16 14.6	2.033	3.037	2.5	21.0
9 8	22 9.81	-13 28.7	1.694	2.677	6.0	21.3	9 8	22 9.32	-16 30.2	2.047	3.022	5.8	21.2
9 18	22 2.76	-13 50.5	1.735	2.667	10.0	21.5	9 18	22 1.69	-16 35.9	2.089	3.008	9.3	21.4
9 28	21 57.64	-14 0.7	1.799	2.658	13.5	21.7	9 28	21 55.78	-16 30.4	2.154	2.994	12.4	21.6
476581	2008 <i>RY</i> ₁₁₇		8 26.2 244°03	7°5/3.6	16		365665	2010 <i>VL</i> ₄₇		8 26.2 140°97	3°3/29.9	18	
7 20	22 41.14	+14 45.0	1.952	2.685	17.7	21.7	7 20	22 41.89	+2 17.8	2.491	3.278	12.9	20.9
7 30	22 37.88	+14 40.4	1.858	2.679	15.4	21.5	7 30	22 37.86	+2 20.1	2.406	3.281	10.5	20.8
8 9	22 32.62	+14 8.2	1.781	2.672	12.7	21.3	8 9	22 32.30	+2 8.2	2.342	3.283	7.8	20.6
8 19	22 25.82	+13 6.6	1.725	2.666	10.0	21.2	8 19	22 25.61	+1 43.0	2.303	3.286	5.0	20.4
8 29	22 18.23	+11 36.9	1.693	2.659	7.9	21.0	8 29	22 18.40	+1 6.5	2.292	3.289	3.3	20.3
9 8	22 10.76	+9 44.5	1.687	2.653	7.8	21.0	9 8	22 11.36	+0 22.5	2.308	3.291	4.6	20.4
9 18	22 4.33	+7 38.1	1.707	2.646	9.7	21.1	9 18	22 5.15	-0 24.8	2.352	3.294	7.2	20.6
9 28	21 59.72	+5 27.8	1.753	2.639	12.5	21.3	9 28	22 0.35	-1 11.0	2.422	3.296	10.0	20.8
476668	2008 <i>TC</i> ₃₃		8 26.2	1°38	1°4/27.3	16	96469	1998 <i>HQ</i> ₉₉		8 26.2 74°35	9°3/18.7	17	
7 20	22 39.83	-4 18.7	1.304	2.164	18.5	21.4	7 20	22 51.28	-32 21.2	1.677	2.540	15.0	18.7
7 30	22 37.57	-4 38.1	1.236	2.163	14.6	21.2	7 30	22 45.95	-33 40.4	1.636	2.552	12.3	18.5
8 9	22 32.73	-5 18.0	1.186	2.162	9.9	20.9	8 9	22 37.93	-34 50.9	1.616	2.565	10.1	18.4
8 19	22 25.93	-6 14.6	1.158	2.162	4.8	20.6	8 19	22 28.05	-35 43.0	1.620	2.577	9.3	18.4
8 29	22 18.21	-7 21.5	1.154	2.163	1.7	20.4	8 29	22 17.52	-36 9.1	1.648	2.589	10.2	18.5
9 8	22 10.83	-8 29.5	1.174	2.165	6.5	20.7	9 8	22 7.70	-36 6.1	1.700	2.602	12.3	18.7
9 18	22 4.98	-9 30.4	1.217	2.168	11.5	21.0	9 18	21 59.74	-35 35.2	1.774	2.614	14.7	18.9
9 28	22 1.58	-10 17.6	1.281	2.172	15.8	21.3	9 28	21 54.40	-34 40.3	1.867	2.627	17.0	19.1
8560	<i>Tsubaki</i>		8 26.2	9°08	2°6/24.4	18	402148	2004 <i>RH</i> ₇₄		8 26.2 268°06	3°2/23.4	18	
7 20	22 48.68	-17 17.0	1.887	2.742	13.9	17.0	7 20	22 47.83	-19 39.9	2.294	3.143	11.9	20.4
7 30	22 43.53	-17 24.6	1.815	2.742	10.6	16.8	7 30	22 42.61	-19 59.4	2.213	3.137	9.2	20.2
8 9	22 36.20	-17 35.2	1.766	2.743	7.0	16.5	8 9	22 35.50	-20 20.2	2.155	3.130	6.2	20.0
8 19	22 27.29	-17 44.4	1.741	2.745	3.5	16.3	8 19	22 27.01	-20 38.0	2.123	3.123	3.6	19.9
8 29	22 17.72	-17 47.5	1.744	2.746	3.3	16.3	8 29	22 17.89	-20 48.4	2.120	3.115	3.8	19.9
9 8	22 8.54	-17 41.1	1.774	2.748	6.7	16.5	9 8	22 9.04	-20 48.0	2.145	3.108	6.5	20.0
9 18	22 0.72	-17 23.4	1.830	2.750	10.3	16.8	9 18	22 1.27	-20 35.3	2.196	3.101	9.6	20.2
9 28	21 54.98	-16 54.1	1.909	2.752	13.6	17.0	9 28	21 55.27	-20 9.9	2.272	3.094	12.4	20.4
304690	2006 <i>WM</i> ₁₄₉		8 26.2	98°34	5°9/20.1	18	104344	2000 <i>FX</i> ₁₅		8 26.2 175°81	4°3/22.1	18	
7 20	22 45.21	-25 34.2	2.122	2.985	12.3	20.4	7 20	22 47.40	-21 30.9	2.179	3.034	12.3	20.5
7 30	22 40.77	-26 44.4	2.064	2.990	9.6	20.3	7 30	22 42.37	-22 19.9	2.109	3.035	9.5	20.4
8 9	22 34.35	-27 53.1	2.029	2.994	7.2	20.1	8 9	22 35.38	-23 9.9	2.064	3.036	6.6	20.2
8 19	22 26.49	-28 53.4	2.019	2.999	5.9	20.1	8 19	22 26.96	-23 55.3	2.044	3.037	4.5	20.1
8 29	22 18.03	-29 38.9	2.037	3.003	6.8	20.1	8 29	22 17.92	-24 30.3	2.052	3.037	5.1	20.1
9 8	22 9.91	-30 5.1	2.080	3.008	9.0	20.3	9 8	22 9.20	-24 50.6	2.087	3.037	7.6	20.3
9 18	22 3.01	-30 10.7	2.148	3.013	11.5	20.5	9 18	22 1.64	-24 54.4	2.148	3.037	10.5	20.4
9 28	21 58.01	-29 56.4	2.237	3.017	13.9	20.6	9 28	21 55.95	-24 41.5	2.232	3.037	13.2	20.6
446215	2013 <i>GN</i> ₅₀		8 26.2	266°89	0°4/25.8	18	310106	2010 <i>UV</i> ₅₁		8 26.2 276°18	1°0/24.3	17	
7 20	22 40.98	-7 47.7	2.204	3.042	12.8	20.9	7 20	22 35.68	-13 51.3	4.384	5.222	6.9	20.6
7 30	22 37.45	-8 34.0	2.117	3.034	9.8	20.7	7 30	22 32.55	-14 23.2	4.293	5.212	5.2	20.5
8 9	22 32.18	-9 32.4	2.052	3.027	6.4	20.5	8 9	22 28.56	-14 58.3	4.227	5.203	3.4	20.3
8 19	22 25.59	-10 39.1	2.014	3.019	2.7	20.2	8 19	22 23.96	-15 34.7	4.189	5.193	1.5	20.2
8 29	22 18.36	-11 48.7	2.003	3.011	1.3	20.1	8 29	22 19.07	-16 9.9	4.181	5.184	1.4	20.2
9 8	22 11.26	-12 55.3	2.020	3.004	5.1	20.3	9 8	22 14.25	-16 41.9	4.202	5.174	3.2	20.3
9 18	22 5.08	-13 53.8	2.065	2.996	8.7	20.6	9 18	22 9.86	-17 8.7	4.252	5.165	5.1	20.4
9 28	22 0.47	-14 40.2	2.134	2.988	11.9	20.7	9 28	22 6.21	-17 28.9	4.329	5.155	6.9	20.6
67997	2000 <i>XA</i> ₂₉		8 26.2	142°19	2°4/28.9	18 R	169473	2002 <i>CH</i> ₁₀₁		8 26.2 250°04	2°0/24.6	18	
7 20	22 44.49	-0 27.8	2.836	3.623	11.5	19.4	7 20	22 44.50	-10 5.5	1.443	2.306	16.9	20.0
7 30	22 39.58	-0 21.5	2.755	3.633	9.2	19.2	7 30	22 41.10	-11 11.2	1.369	2.301	13.0	19.8
8 9	22 33.27	-0 26.0	2.696	3.643	6.6	19.1	8 9	22 35.07	-12 33.6	1.314	2.295	8.4	19.5
8 19	22 25.98	-0 40.3	2.663	3.652	4.0	18.9	8 19	22 26.99	-14 5.6	1.284	2.290	3.6	19.2
8 29	22 18.25	-1 2.4	2.660	3.661	2.4	18.8	8 29	22 17.88	-15 37.6	1.278	2.284	3.1	19.1
9 8	22 10.71	-1 29.5	2.685	3.669	4.0	18.9	9 8	22 9.03	-16 59.5	1.299	2.278	7.9	19.4
9 18	22 3.96	-1 58.4	2.740	3.677	6.5	19.1	9 18	22 1.66	-18 3.7	1.344	2.272	12.6	19.7
9 28	21 58.51	-2 25.9	2.821	3.685	9.0	19.3	9 28	21 56.77	-18 45.8	1.410	2.266	16.7	19.9
395835	2012 <i>XH</i> ₁₀₂		8 26.2	318°88	10°0/17.7	18	386109	2007 <i>RO</i> ₁₂₈		8 26.2 88°63	0°9/27.1	18	
7 20	22 46.59	-31 21.0	1.509	2.385	15.6	20.0	7 20	22 42.98	-4 36.5	1.869	2.701	14.9	21.1
7 30	22 43.03	-32 48.7	1.442	2.368	12.9	19.8	7 30	22 39.18	-5 7.9	1.795	2.707	11.6	20.9
8 9	22 36.49	-34 11.5	1.396	2.351	10.8	19.7	8 9	22 33.39	-5 54.4	1.743	2.713	7.8	20.7
8 19	22 27.61	-35 18.0	1.372	2.335	10.1	19.6	8 19	22 26.14	-6 52.5	1.716	2.719	3.7	20.5
8 29	22 17.59	-35 57.9	1.372	2.319	11.3	19.6	8 29	22 18.24	-7 56.9	1.716	2.724	1.2	20.3
9 8	22 7.94	-36 4.9	1.393	2.303	13.9	19.7	9 8	22 10.62	-9 1.0	1.743	2.730	5.2	20.6
9 18	22 0.06	-35 38.2	1.435	2.289	16.8	19.9	9 18	22 4.14	-9 59.0	1.796	2.736	9.2	20.9
9 28	21 55.00	-34 41.3	1.495	2.274	19.7	20.0	9 28	21 59.54	-10 46.2	1.873	2.742	12.7	21.1
499015	2009 <i>CL</i> ₅₂		8 26.2	109°13	1°2/25.2	17	510065	2010 <i>HG</i> ₅₉		8 26.2 96°03	22°7/28.0	18	

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8 26.2

8 26.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
476995	2008 YV ₁₀₉		8 26.2 331°31	4.4/22.8	18		13197	Pontecorvo		8 26.3 68°20	0.2/26.4	18	R
7 20	22 40.81	-16 26.3	1.345	2.231	16.5	20.8	7 20	22 46.38	-6 34.9	1.395	2.248	18.0	17.7
7 30	22 38.53	-17 27.0	1.270	2.214	12.7	20.5	7 30	22 42.24	-7 10.3	1.343	2.266	13.9	17.5
8 9	22 33.54	-18 38.0	1.215	2.199	8.5	20.2	8 9	22 35.58	-8 2.2	1.309	2.285	9.1	17.3
8 19	22 26.39	-19 51.2	1.182	2.184	4.9	20.0	8 19	22 27.12	-9 5.5	1.299	2.304	3.9	17.0
8 29	22 18.12	-20 56.7	1.173	2.171	5.5	20.0	8 29	22 17.97	-10 12.2	1.314	2.323	1.4	16.9
9 8	22 10.08	-21 45.3	1.187	2.158	9.7	20.2	9 8	22 9.41	-11 14.3	1.355	2.342	6.5	17.3
9 18	22 3.59	-22 11.3	1.224	2.146	14.1	20.4	9 18	22 2.50	-12 5.3	1.420	2.361	11.1	17.6
9 28	21 59.68	-22 12.7	1.280	2.136	18.2	20.6	9 28	21 58.06	-12 40.9	1.508	2.380	15.0	17.9
507214	2010 VC ₃₈		8 26.2 312°26	6.9/21.2	18		424603	2008 HS ₂₇		8 26.3 147°90	0.5/26.7	17	
7 20	22 45.49	-21 18.8	1.285	2.172	17.1	21.0	7 20	22 48.36	-6 23.1	2.008	2.832	14.3	22.6
7 30	22 42.35	-22 36.9	1.217	2.160	13.3	20.8	7 30	22 43.13	-6 50.3	1.936	2.844	11.1	22.4
8 9	22 36.15	-24 0.5	1.169	2.149	9.5	20.5	8 9	22 35.90	-7 29.7	1.885	2.854	7.4	22.2
8 19	22 27.53	-25 19.2	1.144	2.138	7.0	20.4	8 19	22 27.22	-8 18.0	1.860	2.864	3.3	22.0
8 29	22 17.69	-26 21.0	1.142	2.127	8.1	20.4	8 29	22 17.92	-9 10.2	1.864	2.873	1.1	21.8
9 8	22 8.21	-26 57.1	1.163	2.117	11.8	20.6	9 8	22 8.94	-10 0.7	1.896	2.881	5.2	22.1
9 18	22 0.54	-27 3.8	1.205	2.108	15.9	20.8	9 18	22 1.15	-10 44.7	1.955	2.888	9.0	22.4
9 28	21 55.80	-26 41.8	1.265	2.099	19.7	21.0	9 28	21 55.26	-11 18.6	2.039	2.895	12.3	22.6
165171	2000 QD ₁₁₉		8 26.2 33°10	1.3/26.9	17		267122	2000 DO ₉₀		8 26.3 15°00	1.4/27.0	18	
7 20	22 48.25	-7 48.9	1.050	1.922	21.1	19.0	7 20	22 47.08	-7 41.1	1.221	2.084	19.3	19.9
7 30	22 44.41	-7 28.5	0.999	1.933	16.5	18.7	7 30	22 43.30	-7 18.6	1.159	2.087	15.2	19.7
8 9	22 37.35	-7 24.1	0.966	1.945	11.1	18.5	8 9	22 36.58	-7 10.1	1.114	2.091	10.2	19.4
8 19	22 27.94	-7 32.8	0.953	1.958	5.1	18.2	8 19	22 27.65	-7 13.4	1.092	2.096	4.8	19.1
8 29	22 17.62	-7 49.0	0.963	1.972	1.8	18.0	8 29	22 17.76	-7 23.9	1.092	2.101	1.8	18.9
9 8	22 8.06	-8 5.8	0.995	1.986	7.4	18.4	9 8	22 8.40	-7 36.1	1.117	2.107	6.9	19.3
9 18	22 0.68	-8 17.6	1.050	2.002	12.8	18.8	9 18	22 0.89	-7 44.8	1.165	2.115	12.0	19.6
9 28	21 56.41	-8 20.1	1.124	2.018	17.3	19.1	9 28	21 56.19	-7 45.8	1.234	2.122	16.4	19.9
510954	2013 FX ₂₁		8 26.2 141°06	2.2/23.9	18		129904	1999 TF ₆₉		8 26.3 58°73	0.4/25.9	17	
7 20	22 45.29	-16 26.7	2.620	3.463	10.8	22.3	7 20	22 45.85	-9 18.1	1.651	2.501	15.8	19.7
7 30	22 40.35	-16 58.3	2.550	3.472	8.2	22.1	7 30	22 41.59	-9 37.5	1.587	2.511	12.1	19.5
8 9	22 33.85	-17 33.2	2.504	3.480	5.4	21.9	8 9	22 35.06	-10 8.4	1.544	2.520	7.9	19.3
8 19	22 26.27	-18 7.6	2.485	3.487	2.7	21.8	8 19	22 26.91	-10 46.6	1.525	2.530	3.3	19.1
8 29	22 18.24	-18 37.4	2.495	3.495	2.8	21.8	8 29	22 18.06	-11 26.5	1.531	2.540	1.5	18.9
9 8	22 10.48	-18 59.3	2.534	3.502	5.4	22.0	9 8	22 9.64	-12 2.3	1.565	2.550	6.0	19.3
9 18	22 3.63	-19 11.0	2.601	3.509	8.2	22.2	9 18	22 2.62	-12 29.2	1.624	2.560	10.2	19.6
9 28	21 58.27	-19 11.5	2.692	3.515	10.7	22.4	9 28	21 57.77	-12 44.4	1.705	2.571	13.9	19.8
485699	2011 YL ₂₅		8 26.2 170°72	3.6/30.0	18		271598	2004 OA ₄		8 26.3 13°48	0.9/27.3	18	
7 20	22 44.53	+2 35.5	2.646	3.421	12.5	21.3	7 20	22 37.39	-4 26.0	2.332	3.161	12.4	20.0
7 30	22 39.80	+2 54.2	2.557	3.424	10.3	21.2	7 30	22 34.54	-4 58.3	2.257	3.167	9.7	19.8
8 9	22 33.55	+3 0.3	2.490	3.425	7.7	21.0	8 9	22 30.19	-5 43.0	2.204	3.172	6.5	19.6
8 19	22 26.18	+2 53.8	2.449	3.427	5.1	20.8	8 19	22 24.77	-6 37.0	2.177	3.179	3.1	19.4
8 29	22 18.28	+2 36.3	2.435	3.428	3.6	20.8	8 29	22 18.87	-7 36.3	2.177	3.186	1.1	19.3
9 8	22 10.53	+2 10.5	2.450	3.429	4.7	20.8	9 8	22 13.17	-8 35.9	2.206	3.194	4.2	19.5
9 18	22 3.59	+1 39.7	2.493	3.430	7.1	21.0	9 18	22 8.31	-9 31.0	2.261	3.202	7.5	19.7
9 28	21 58.03	+1 8.0	2.562	3.430	9.7	21.2	9 28	22 4.85	-10 17.8	2.341	3.211	10.4	19.9
380750	2005 SA ₁₄₄		8 26.3 149°88	0.9/27.1	17		393737	2005 BN ₁₉		8 26.3 307°94	5.4/21.6	18	
7 20	22 43.65	-4 8.7	1.655	2.493	16.3	21.2	7 20	22 43.33	-19 37.7	1.566	2.443	15.1	19.9
7 30	22 40.01	-4 46.9	1.580	2.494	12.8	20.9	7 30	22 40.24	-20 50.2	1.485	2.424	11.7	19.7
8 9	22 34.12	-5 43.1	1.525	2.495	8.6	20.7	8 9	22 34.58	-22 9.8	1.425	2.404	8.1	19.4
8 19	22 26.53	-6 53.4	1.494	2.497	4.0	20.4	8 19	22 26.86	-23 28.1	1.388	2.385	5.6	19.3
8 29	22 18.14	-8 11.5	1.489	2.498	1.3	20.2	8 29	22 18.04	-24 35.3	1.377	2.366	6.6	19.3
9 8	22 10.02	-9 29.2	1.511	2.499	5.8	20.5	9 8	22 9.38	-25 23.1	1.391	2.347	10.0	19.4
9 18	22 3.18	-10 39.3	1.558	2.500	10.2	20.8	9 18	22 2.09	-25 46.9	1.427	2.329	14.0	19.6
9 28	21 58.45	-11 36.0	1.629	2.501	14.1	21.1	9 28	21 57.21	-25 45.6	1.484	2.312	17.5	19.8
515260	2012 QM ₅₂		8 26.3 68°25	1.0/25.0	18		210253	2007 RM ₂₇₀		8 26.3 331°70	0.8/25.6	18	
7 20	22 40.42	-12 23.3	2.968	3.807	9.8	20.9	7 20	22 43.22	-10 11.0	1.728	2.582	15.0	20.4
7 30	22 36.45	-12 50.2	2.901	3.821	7.4	20.8	7 30	22 39.66	-10 38.5	1.649	2.576	11.5	20.1
8 9	22 31.22	-13 22.0	2.859	3.835	4.8	20.6	8 9	22 33.89	-11 17.3	1.593	2.571	7.5	19.9
8 19	22 25.13	-13 55.9	2.843	3.849	2.0	20.4	8 19	22 26.46	-12 3.2	1.560	2.566	3.2	19.6
8 29	22 18.70	-14 28.6	2.857	3.863	1.5	20.4	8 29	22 18.22	-12 50.3	1.553	2.561	1.8	19.5
9 8	22 12.48	-14 57.0	2.899	3.877	4.2	20.6	9 8	22 10.24	-13 32.4	1.573	2.557	6.2	19.8
9 18	22 7.01	-15 18.8	2.970	3.891	6.8	20.8	9 18	22 3.49	-14 4.6	1.618	2.553	10.4	20.0
9 28	22 2.72	-15 32.2	3.065	3.905	9.1	21.0	9 28	21 58.78	-14 23.6	1.686	2.549	14.1	20.3
73762	1994 LS		8 26.3 111°28	6.4/19.5	18		399917	2005 YX ₁₄		8 26.3 104°55	3.0/22.7	18	
7 20	22 47.85	-20 29.7	1.703	2.569	14.6	18.4	7 20	22 41.62	-16 40.1	2.401	3.256	11.3	20.9
7 30	22 43.22	-22 52.5	1.657	2.589	11.2	18.3	7 30	22 37.78	-17 46.3	2.334	3.262	8.5	20.7
8 9	22 36.19	-25 19.1	1.636	2.608	8.0	18.1	8 9	22 32.32	-18 57.3	2.291	3.269	5.6	20.5
8 19	22 27.39	-27 37.7	1.641	2.627	6.4	18.1	8 19	22 25.68	-20 7.9	2.275	3.275	3.3	20.4
8 29	22 17.84	-29 36.7	1.675	2.645	7.7	18.2	8 29	22 18.54	-21 12.4	2.287	3.281	3.7	20.4
9 8	22 8.72	-31 8.2	1.735	2.662	10.5	18.4	9 8	22 11.62	-22 5.9	2.327	3.287	6.3	20.6
9 18	22 1.11	-32 9.1	1.818	2.679	13.5	18.6	9 18	22 5.63	-22 45.0	2.394	3.293	9.2	20.8
9 28	21 55.82	-32 40.3	1.923	2.695	16.1	18.8	9 28	22 1.15	-23 8.3	2.484	3.299	11.7	21.0
253560	2003 SF ₂₆₁		8 26.3 328°24	2.3/24.9	18		291418	2006 DD ₁₂		8 26.3 254°28	0.3/25.9	18	
7 20	22 49.18	-14 3.5	1.332	2.201	17.7	20.1	7 20	22 41.					

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8 26.3

8 26.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
60211	1999 VX ₇₇		8 26.3 358°04	2°0/25.0	18		186957	2004 RS ₇₇		8 26.3	1°27	0°1/26.3	18
7 20	22 44.94	-12 21.9	1.219	2.097	18.4	19.2	7 20	22 39.50	-5 56.5	2.011	2.851	13.7	19.6
7 30	22 41.78	-12 47.4	1.155	2.095	14.2	18.9	7 30	22 36.47	-6 47.9	1.933	2.850	10.6	19.4
8 9	22 35.68	-13 25.1	1.109	2.093	9.2	18.6	8 9	22 31.64	-7 53.8	1.876	2.850	7.0	19.2
8 19	22 27.32	-14 9.0	1.086	2.092	4.0	18.3	8 19	22 25.47	-9 9.9	1.845	2.850	3.0	18.9
8 29	22 17.93	-14 50.9	1.085	2.092	3.0	18.3	8 29	22 18.67	-10 30.4	1.841	2.850	1.1	18.8
9 8	22 9.00	-15 23.0	1.109	2.093	8.2	18.6	9 8	22 12.07	-11 48.5	1.865	2.851	5.2	19.1
9 18	22 1.87	-15 39.8	1.155	2.094	13.2	18.9	9 18	22 6.46	-12 58.0	1.916	2.852	9.0	19.3
9 28	21 57.55	-15 39.0	1.220	2.096	17.5	19.2	9 28	22 2.51	-13 54.5	1.991	2.853	12.3	19.5
321126	2008 UT ₆₀		8 26.3 66°33	2°4/28.2	18		215707	2004 AN ₂₄		8 26.3 287°31	3°1/23.4	18	
7 20	22 45.20	-2 27.9	1.703	2.530	16.4	21.0	7 20	22 43.76	-15 31.6	1.884	2.744	13.6	20.3
7 30	22 41.07	-2 27.6	1.632	2.537	13.0	20.7	7 30	22 39.94	-16 26.9	1.809	2.740	10.4	20.0
8 9	22 34.75	-2 43.6	1.581	2.544	9.1	20.5	8 9	22 34.03	-17 29.5	1.756	2.736	6.8	19.8
8 19	22 26.80	-3 14.0	1.553	2.551	5.0	20.3	8 19	22 26.53	-18 33.5	1.728	2.731	3.6	19.6
8 29	22 18.14	-3 54.7	1.552	2.558	2.5	20.2	8 29	22 18.28	-19 32.1	1.728	2.727	3.9	19.6
9 8	22 9.80	-4 40.0	1.577	2.565	5.5	20.4	9 8	22 10.28	-20 18.9	1.754	2.723	7.3	19.8
9 18	22 2.78	-5 24.1	1.627	2.572	9.6	20.6	9 18	22 3.46	-20 49.9	1.806	2.718	10.9	20.0
9 28	21 57.83	-6 1.9	1.701	2.580	13.2	20.9	9 28	21 58.59	-21 3.3	1.879	2.714	14.1	20.2
176654	2002 NY ₅₉		8 26.3 94°25	2°4/24.3	17		293496	2007 FE ₅₀		8 26.3 237°97	2°3/28.9	18	
7 20	22 45.65	-11 40.2	1.471	2.334	16.6	20.4	7 20	22 40.49	+0 0.9	2.410	3.212	12.9	21.2
7 30	22 41.77	-12 47.2	1.411	2.343	12.7	20.1	7 30	22 36.93	-0 21.3	2.321	3.210	10.3	21.0
8 9	22 35.37	-14 7.0	1.371	2.352	8.1	19.9	8 9	22 31.81	-0 58.2	2.253	3.207	7.3	20.8
8 19	22 27.10	-15 32.3	1.355	2.361	3.7	19.7	8 19	22 25.52	-1 48.1	2.211	3.204	4.2	20.6
8 29	22 18.03	-16 53.7	1.365	2.370	3.4	19.7	8 29	22 18.67	-2 47.6	2.196	3.201	2.3	20.5
9 8	22 9.40	-18 2.3	1.402	2.378	7.8	20.0	9 8	22 11.97	-3 51.9	2.210	3.198	4.3	20.6
9 18	22 2.33	-18 52.5	1.462	2.386	12.1	20.2	9 18	22 6.08	-4 55.9	2.252	3.195	7.4	20.8
9 28	21 57.68	-19 21.5	1.544	2.395	15.8	20.5	9 28	22 1.61	-5 54.9	2.319	3.192	10.4	21.0
27333	2000 CX ₈₅		8 26.3 121°52	0°5/25.7	18		168160	2006 HB ₅₅		8 26.3 26°89	5°1/30.8	16	
7 20	22 43.66	-8 10.1	2.176	3.010	13.0	18.4	7 20	22 39.73	+4 33.6	1.375	2.198	19.8	19.5
7 30	22 39.41	-9 0.4	2.107	3.023	10.0	18.3	7 30	22 37.29	+4 30.8	1.315	2.209	16.2	19.3
8 9	22 33.41	-10 1.6	2.061	3.035	6.5	18.1	8 9	22 32.47	+4 1.0	1.272	2.221	12.1	19.1
8 19	22 26.17	-11 9.6	2.041	3.046	2.7	17.9	8 19	22 25.89	+3 5.6	1.249	2.235	7.9	18.9
8 29	22 18.39	-12 18.6	2.049	3.057	1.4	17.8	8 29	22 18.55	+1 49.3	1.250	2.249	5.2	18.8
9 8	22 10.89	-13 23.0	2.086	3.068	5.1	18.1	9 8	22 11.64	+0 20.8	1.276	2.264	6.6	18.9
9 18	22 4.41	-14 17.9	2.151	3.079	8.6	18.3	9 18	22 6.19	-1 10.0	1.326	2.280	10.4	19.2
9 28	21 59.58	-15 0.3	2.240	3.089	11.6	18.5	9 28	22 3.01	-2 33.8	1.398	2.297	14.2	19.4
509948	2009 SF ₂₀		8 26.3 355°35	0°3/26.3	18		428231	2006 WX ₁₅₃		8 26.3 121°66	2°4/24.5	17	
7 20	22 46.84	-14 35.4	0.881	1.780	21.8	19.2	7 20	22 49.47	-14 21.4	1.604	2.462	15.8	21.7
7 30	22 44.21	-13 18.0	0.819	1.769	17.1	18.9	7 30	22 44.53	-14 53.6	1.539	2.468	12.1	21.5
8 9	22 37.78	-12 2.1	0.774	1.761	11.4	18.6	8 9	22 37.10	-15 33.4	1.495	2.475	7.8	21.3
8 19	22 28.36	-10 46.7	0.748	1.755	5.0	18.2	8 19	22 27.85	-16 15.2	1.476	2.481	3.6	21.1
8 29	22 17.54	-9 30.9	0.743	1.752	1.8	18.0	8 29	22 17.83	-16 52.1	1.483	2.487	3.3	21.1
9 8	22 7.38	-8 14.6	0.759	1.751	8.5	18.4	9 8	22 8.27	-17 18.3	1.516	2.492	7.3	21.3
9 18	21 59.66	-6 58.6	0.795	1.753	14.6	18.7	9 18	22 0.26	-17 30.2	1.574	2.498	11.5	21.6
9 28	21 55.60	-5 42.9	0.848	1.758	19.8	19.1	9 28	21 54.64	-17 26.7	1.655	2.503	15.0	21.8
104264	2000 EW ₁₄₅		8 26.3 232°11	2°5/23.4	18		156389	2001 YJ ₁₀₂		8 26.3 93°69	3°6/29.3	17	
7 20	22 42.86	-13 21.0	2.143	2.994	12.6	19.5	7 20	22 45.13	+0 50.4	1.713	2.526	16.9	20.0
7 30	22 39.05	-14 36.1	2.059	2.986	9.6	19.3	7 30	22 41.05	+0 54.6	1.639	2.532	13.6	19.8
8 9	22 33.35	-16 0.9	1.999	2.977	6.2	19.1	8 9	22 34.78	+0 40.1	1.584	2.537	9.9	19.6
8 19	22 26.22	-17 29.6	1.965	2.969	3.1	18.8	8 19	22 26.86	+0 7.8	1.553	2.543	6.0	19.4
8 29	22 18.36	-18 55.2	1.960	2.960	3.4	18.8	8 29	22 18.19	-0 38.8	1.547	2.549	3.6	19.2
9 8	22 10.63	-20 10.7	1.983	2.951	6.7	19.0	9 8	22 9.82	-1 33.9	1.567	2.554	5.8	19.4
9 18	22 3.87	-21 11.2	2.033	2.941	10.1	19.2	9 18	22 2.72	-2 30.8	1.613	2.560	9.5	19.6
9 28	21 58.81	-21 53.8	2.106	2.931	13.1	19.4	9 28	21 57.70	-3 23.4	1.683	2.565	13.1	19.8
342473	2008 UB ₁₃₇		8 26.3 256°42	1°9/28.1	18		43798	1991 GW ₈		8 26.3 69°08	0°5/26.6	17	
7 20	22 45.17	-2 11.6	2.234	3.042	13.6	22.4	7 20	22 49.32	-6 51.8	1.331	2.182	18.7	19.8
7 30	22 40.83	-2 26.7	2.125	3.019	10.9	22.2	7 30	22 44.55	-7 11.1	1.283	2.205	14.5	19.6
8 9	22 34.57	-2 56.2	2.037	2.996	7.7	22.0	8 9	22 37.12	-7 46.3	1.253	2.228	9.5	19.4
8 19	22 26.79	-3 38.7	1.975	2.972	4.1	21.7	8 19	22 27.83	-8 32.6	1.247	2.252	4.2	19.1
8 29	22 18.14	-4 31.0	1.940	2.947	2.0	21.5	8 29	22 17.89	-9 23.0	1.266	2.275	1.4	19.0
9 8	22 9.47	-5 28.0	1.934	2.921	4.9	21.7	9 8	22 8.65	-10 9.9	1.310	2.298	6.5	19.4
9 18	22 1.64	-6 24.6	1.956	2.895	8.6	21.9	9 18	22 1.24	-10 47.5	1.378	2.321	11.2	19.7
9 28	21 55.44	-7 15.5	2.003	2.868	12.1	22.0	9 28	21 56.45	-11 12.0	1.469	2.343	15.2	20.0
131052	2000 YW ₄₈		8 26.3 321°24	5°6/21.9	18		55965	1998 KN ₁₄		8 26.3 176°42	4°8/20.6	18	
7 20	22 42.75	-17 26.5	1.226	2.115	17.6	19.3	7 20	22 47.11	-26 2.5	2.743	3.590	10.3	19.3
7 30	22 40.32	-18 48.4	1.157	2.103	13.5	19.0	7 30	22 41.83	-26 54.6	2.676	3.592	8.1	19.2
8 9	22 34.90	-20 21.4	1.108	2.092	9.2	18.7	8 9	22 34.91	-27 44.8	2.633	3.594	6.0	19.1
8 19	22 27.08	-21 55.4	1.081	2.081	5.9	18.5	8 19	22 26.83	-28 27.9	2.617	3.595	4.8	19.0
8 29	22 18.03	-23 17.8	1.077	2.071	6.9	18.6	8 29	22 18.24	-28 59.4	2.630	3.596	5.5	19.0
9 8	22 9.28	-24 17.8	1.096	2.061	11.1	18.8	9 8	22 9.91	-29 16.0	2.670	3.596	7.3	19.1
9 18	22 2.29	-24 49.5	1.137	2.052	15.6	19.0	9 18	22 2.54	-29 16.7	2.736	3.596	9.5	19.3
9 28	21 58.17	-24 51.7	1.196	2.044	19.7	19.2	9 28	21 56.73	-29 1.6	2.826	3.595	11.6	19.4
91224	1999 BH		8 26.3 218°59	1°5/25.1	18		207421	2006 DK ₇₉		8 26.3 52°36	1°4/27.2	17	
7 20	22 48.99	-11 7.0	1.633	2.483	15.9	20.1	7 20	22 46.47					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
451190	2009 SC ₃₄₅		8 26.3	6 ^o 79	2 ^o 7/23.7	15	23003	Ziminski		8 26.3	58 ^o 38	1 ^o 4/27.3	18
7 20	22 42.95	-16 17.4	2.173	3.030	12.2	21.6	7 20	22 46.67	-4 30.1	1.296	2.147	19.2	18.5
7 30	22 38.98	-16 56.2	2.101	3.030	9.3	21.4	7 30	22 42.66	-4 46.8	1.244	2.165	15.0	18.3
8 9	22 33.22	-17 39.9	2.052	3.030	6.1	21.2	8 9	22 35.99	-5 22.6	1.211	2.184	10.1	18.1
8 19	22 26.15	-18 23.7	2.029	3.031	3.2	21.1	8 19	22 27.41	-6 13.2	1.200	2.203	4.8	17.8
8 29	22 18.50	-19 2.4	2.033	3.032	3.3	21.1	8 29	22 18.10	-7 11.7	1.214	2.222	1.7	17.7
9 8	22 11.10	-19 31.4	2.064	3.033	6.3	21.3	9 8	22 9.42	-8 9.8	1.252	2.242	6.4	18.0
9 18	22 4.75	-19 47.9	2.122	3.035	9.5	21.5	9 18	22 2.51	-9 0.3	1.315	2.262	11.2	18.4
9 28	22 0.08	-19 50.6	2.203	3.036	12.3	21.7	9 28	21 58.18	-9 38.0	1.399	2.281	15.3	18.7
157723	2006 BA ₃₁		8 26.3	335 ^o 42	1 ^o 7/24.6	18	386587	2009 FT ₃₀		8 26.3	197 ^o 72	7 ^o 8/2.7	17
7 20	22 41.17	-12 21.7	2.079	2.932	12.8	19.6	7 20	22 43.60	+14 57.9	1.247	2.019	24.0	20.4
7 30	22 37.74	-13 4.5	2.000	2.927	9.8	19.4	7 30	22 40.89	+14 10.8	1.165	2.018	20.7	20.2
8 9	22 32.49	-13 56.0	1.943	2.922	6.3	19.2	8 9	22 35.27	+12 37.4	1.098	2.017	16.6	19.9
8 19	22 25.86	-14 51.6	1.912	2.918	2.8	18.9	8 19	22 27.30	+10 14.9	1.049	2.015	12.0	19.7
8 29	22 18.59	-15 45.7	1.908	2.913	2.4	18.9	8 29	22 18.08	+7 8.1	1.024	2.012	8.3	19.4
9 8	22 11.53	-16 32.9	1.932	2.909	5.9	19.1	9 8	22 9.09	+3 32.0	1.024	2.009	8.5	19.4
9 18	22 5.46	-17 8.9	1.982	2.906	9.4	19.3	9 18	22 1.74	-0 12.3	1.050	2.005	12.3	19.7
9 28	22 1.08	-17 31.2	2.055	2.902	12.6	19.5	9 28	21 57.19	-3 43.2	1.101	2.001	17.0	19.9
496711	2016 EC ₁₈₀		8 26.3	31 ^o 54	5 ^o 1/29.8	17	445803	2012 BN ₅₈		8 26.3	7 ^o 30	3 ^o 1/28.6	18
7 20	22 43.82	+1 46.8	1.121	1.965	22.0	21.0	7 20	22 45.66	-2 22.8	1.873	2.692	15.4	20.5
7 30	22 41.00	+2 4.3	1.062	1.972	17.9	20.7	7 30	22 41.31	-1 50.9	1.795	2.693	12.4	20.3
8 9	22 35.22	+1 54.6	1.019	1.979	13.2	20.5	8 9	22 34.89	-1 31.9	1.737	2.694	8.8	20.1
8 19	22 27.18	+1 18.2	0.996	1.987	8.2	20.3	8 19	22 26.93	-1 25.4	1.703	2.696	5.2	19.8
8 29	22 18.12	+0 19.6	0.994	1.996	5.1	20.1	8 29	22 18.26	-1 29.7	1.695	2.698	3.2	19.7
9 8	22 9.56	-0 52.1	1.016	2.006	7.5	20.3	9 8	22 9.84	-1 41.3	1.714	2.701	5.4	19.9
9 18	22 2.86	-2 6.3	1.059	2.016	12.1	20.6	9 18	22 2.59	-1 56.2	1.759	2.704	9.0	20.1
9 28	21 59.01	-3 13.4	1.124	2.026	16.6	20.9	9 28	21 57.28	-2 10.2	1.828	2.707	12.4	20.3
136093	2003 BA ₄₈		8 26.3	284 ^o 44	1 ^o 7/27.5	18	289777	2005 JG ₉₇		8 26.3	222 ^o 14	0 ^o 9/27.1	18
7 20	22 45.42	-4 28.3	1.625	2.462	16.6	20.0	7 20	22 42.82	-4 55.5	1.994	2.824	14.2	20.7
7 30	22 41.75	-4 33.5	1.527	2.440	13.2	19.7	7 30	22 39.06	-5 23.7	1.912	2.823	11.1	20.5
8 9	22 35.59	-4 55.1	1.449	2.417	9.2	19.4	8 9	22 33.38	-6 6.0	1.853	2.821	7.5	20.2
8 19	22 27.38	-5 31.2	1.393	2.395	4.6	19.1	8 19	22 26.28	-6 59.3	1.818	2.820	3.5	20.0
8 29	22 18.00	-6 17.7	1.364	2.372	1.9	18.9	8 29	22 18.50	-7 58.8	1.810	2.819	1.2	19.8
9 8	22 8.61	-7 8.3	1.360	2.349	6.2	19.1	9 8	22 10.92	-8 58.5	1.830	2.817	5.0	20.1
9 18	22 0.41	-7 56.2	1.382	2.326	11.0	19.3	9 18	22 4.39	-9 53.0	1.877	2.816	8.9	20.3
9 28	21 54.46	-8 35.5	1.426	2.303	15.3	19.5	9 28	21 59.61	-10 37.8	1.947	2.815	12.3	20.5
172509	2003 SS ₂₁₈		8 26.3	70 ^o 27	7 ^o 2/2.6	18	16329	3255 T ₋₂		8 26.3	38 ^o 03	0 ^o 1/26.3	18
7 20	22 42.48	+11 38.4	1.871	2.624	17.7	20.3	7 20	22 42.52	-7 20.0	1.794	2.639	14.9	19.4
7 30	22 38.92	+11 57.4	1.794	2.632	15.2	20.1	7 30	22 38.97	-7 54.7	1.723	2.644	11.5	19.2
8 9	22 33.34	+11 52.1	1.735	2.639	12.3	19.9	8 9	22 33.38	-8 42.9	1.674	2.649	7.6	19.0
8 19	22 26.26	+11 20.9	1.697	2.647	9.5	19.8	8 19	22 26.28	-9 40.4	1.649	2.654	3.3	18.7
8 29	22 18.47	+10 25.4	1.683	2.655	7.5	19.7	8 29	22 18.51	-10 41.2	1.651	2.660	1.2	18.6
9 8	22 10.94	+9 10.5	1.695	2.663	7.6	19.7	9 8	22 11.04	-11 39.0	1.679	2.665	5.6	18.9
9 18	22 4.54	+7 43.4	1.732	2.670	9.6	19.9	9 18	22 4.76	-12 28.1	1.734	2.671	9.6	19.2
9 28	22 0.02	+6 12.6	1.794	2.678	12.3	20.0	9 28	22 0.41	-13 4.5	1.812	2.678	13.1	19.4
476771	2008 UG ₁₁₆		8 26.3	297 ^o 62	6 ^o 4/31.2	16	119786	2002 AE ₆₅		8 26.3	185 ^o 69	2 ^o 3/28.5	18
7 20	22 43.14	+6 2.6	1.703	2.496	17.8	21.7	7 20	22 44.74	-2 12.3	2.339	3.145	13.1	20.1
7 30	22 39.88	+6 34.6	1.604	2.475	15.0	21.4	7 30	22 40.21	-2 3.8	2.253	3.145	10.5	19.9
8 9	22 34.30	+6 45.8	1.522	2.455	11.8	21.2	8 9	22 33.99	-2 7.2	2.189	3.145	7.4	19.7
8 19	22 26.81	+6 34.0	1.462	2.434	8.6	20.9	8 19	22 26.50	-2 21.2	2.151	3.145	4.2	19.5
8 29	22 18.22	+5 59.5	1.426	2.414	6.5	20.8	8 29	22 18.43	-2 43.5	2.140	3.144	2.3	19.4
9 8	22 9.61	+5 6.2	1.415	2.394	7.4	20.8	9 8	22 10.54	-3 10.6	2.157	3.143	4.5	19.6
9 18	22 2.09	+4 0.6	1.428	2.374	10.6	20.9	9 18	22 3.56	-3 38.9	2.202	3.143	7.7	19.8
9 28	21 56.65	+2 50.9	1.465	2.354	14.3	21.1	9 28	21 58.14	-4 4.5	2.273	3.142	10.7	19.9
513236	2005 WA ₁₃₂		8 26.3	319 ^o 31	3 ^o 5/23.8	18	155420	1996 VJ ₁₀		8 26.3	96 ^o 52	2 ^o 4/24.7	18
7 20	22 42.98	-14 53.1	1.338	2.218	17.0	21.5	7 20	22 52.56	-16 4.7	1.732	2.582	15.1	19.3
7 30	22 40.32	-15 39.0	1.258	2.200	13.1	21.2	7 30	22 46.63	-16 16.0	1.670	2.595	11.6	19.1
8 9	22 34.85	-16 36.2	1.197	2.182	8.7	20.9	8 9	22 38.33	-16 31.6	1.630	2.607	7.5	18.9
8 19	22 27.10	-17 37.9	1.159	2.164	4.4	20.6	8 19	22 28.37	-16 46.5	1.615	2.619	3.6	18.7
8 29	22 18.13	-18 34.6	1.145	2.147	4.5	20.5	8 29	22 17.78	-16 55.8	1.628	2.631	3.1	18.7
9 8	22 9.34	-19 17.7	1.154	2.131	9.1	20.8	9 8	22 7.74	-16 55.4	1.667	2.643	6.9	18.9
9 18	22 2.10	-19 41.1	1.186	2.115	13.9	21.0	9 18	21 59.27	-16 43.4	1.733	2.655	10.7	19.2
9 28	21 57.52	-19 42.3	1.238	2.100	18.2	21.2	9 28	21 53.13	-16 19.7	1.822	2.666	14.1	19.4
158962	2004 RA ₂₁₁		8 26.3	26 ^o 32	2 ^o 7/28.1	18	3738	Ots		8 26.3	47 ^o 57	0 ^o 5/25.9	18
7 20	22 48.74	-4 18.2	1.931	2.750	15.0	19.1	7 20	22 47.75	-9 8.3	1.087	1.961	20.5	15.6
7 30	22 43.55	-3 37.9	1.856	2.755	11.9	18.9	7 30	22 43.93	-9 27.8	1.041	1.977	15.7	15.3
8 9	22 36.28	-3 8.3	1.801	2.761	8.4	18.7	8 9	22 37.03	-10 3.4	1.013	1.994	10.3	15.1
8 19	22 27.49	-2 48.9	1.771	2.767	4.7	18.5	8 19	22 27.90	-10 49.2	1.005	2.012	4.3	14.8
8 29	22 18.04	-2 38.2	1.769	2.773	2.7	18.3	8 29	22 17.97	-11 36.6	1.021	2.030	1.9	14.7
9 8	22 8.91	-2 33.5	1.794	2.780	5.3	18.5	9 8	22 8.82	-12 17.1	1.060	2.048	7.7	15.1
9 18	22 1.01	-2 31.7	1.846	2.787	8.9	18.8	9 18	22 1.78	-12 44.7	1.122	2.067	12.8	15.5
9 28	21 55.07	-2 29.5	1.923	2.795	12.2	19.0	9 28	21 57.72	-12 56.2	1.203	2.086	17.2	15.8
469594	2004 EV ₆₉		8 26.3	114 ^o 52	0 ^o 7/25.7	17	41336	1999 XX ₂					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
364081	2005 YR ₅₄	8 26.3 176°94		1.4°/25.3 17			1936	Lugano	8 26.3 174°31		4.8°/31.1 18		
7 20	22 49.24	-10 45.7	1.467	2.323	17.1	21.8	7 20	22 45.54	+ 5 40.7	2.270	3.037	14.6	16.8
7 30	22 44.69	-11 22.2	1.397	2.324	13.2	21.5	7 30	22 40.93	+ 5 57.3	2.182	3.039	12.1	16.6
8 9	22 37.44	-12 11.5	1.346	2.325	8.6	21.3	8 9	22 34.54	+ 5 56.9	2.115	3.041	9.4	16.5
8 19	22 28.13	-13 8.1	1.320	2.326	3.6	21.0	8 19	22 26.81	+ 5 39.4	2.072	3.042	6.6	16.3
8 29	22 17.86	-14 4.3	1.319	2.326	2.4	20.9	8 29	22 18.44	+ 5 6.3	2.056	3.043	4.9	16.2
9 8	22 7.97	-14 52.3	1.344	2.326	7.3	21.2	9 8	22 10.23	+ 4 21.2	2.067	3.044	5.7	16.2
9 18	21 59.68	-15 26.5	1.393	2.325	12.0	21.5	9 18	22 2.96	+ 3 28.9	2.105	3.044	8.2	16.4
9 28	21 53.95	-15 43.9	1.464	2.324	16.1	21.7	9 28	21 57.31	+ 2 35.0	2.170	3.043	11.0	16.6
294236	2007 UM ₃₇	8 26.3 267°68		2.7°/23.7 18			126867	2002 ES ₈₅	8 26.3 231°45		4.3°/23.1 18		
7 20	22 43.73	-14 24.6	1.898	2.756	13.7	20.7	7 20	22 51.91	-21 6.9	1.946	2.798	13.6	20.4
7 30	22 39.95	-15 21.0	1.820	2.750	10.4	20.5	7 30	22 46.22	-21 36.2	1.866	2.790	10.6	20.2
8 9	22 34.08	-16 25.9	1.765	2.745	6.8	20.2	8 9	22 38.20	-22 6.5	1.810	2.783	7.3	19.9
8 19	22 26.63	-17 33.5	1.735	2.739	3.4	20.0	8 19	22 28.43	-22 32.0	1.778	2.774	4.6	19.8
8 29	22 18.41	-18 36.9	1.732	2.733	3.6	20.0	8 29	22 17.85	-22 46.7	1.774	2.766	5.0	19.8
9 8	22 10.41	-19 29.6	1.756	2.727	7.1	20.2	9 8	22 7.59	-22 46.6	1.798	2.757	7.9	19.9
9 18	22 3.55	-20 7.0	1.806	2.721	10.7	20.4	9 18	21 58.68	-22 29.9	1.847	2.748	11.4	20.1
9 28	21 58.63	-20 27.0	1.878	2.715	14.0	20.6	9 28	21 51.96	-21 57.3	1.919	2.738	14.5	20.3
447373	2006 AW ₅₀	8 26.3 350°19		4.2°/30.0 18			361033	2005 WR ₁₁₀	8 26.3 322°54		1.2°/25.2 18		
7 20	22 43.18	+ 2 9.9	2.052	2.849	15.0	20.8	7 20	22 42.11	-11 9.8	1.973	2.824	13.5	21.2
7 30	22 39.30	+ 2 35.3	1.967	2.847	12.3	20.6	7 30	22 38.62	-11 43.5	1.890	2.816	10.4	21.0
8 9	22 33.54	+ 2 45.1	1.902	2.845	9.2	20.4	8 9	22 33.18	-12 26.9	1.830	2.808	6.7	20.8
8 19	22 26.37	+ 2 39.4	1.861	2.843	6.1	20.2	8 19	22 26.27	-13 15.9	1.795	2.801	2.9	20.5
8 29	22 18.51	+ 2 19.6	1.846	2.841	4.3	20.1	8 29	22 18.64	-14 5.0	1.786	2.793	2.0	20.4
9 8	22 10.83	+ 1 49.3	1.857	2.840	5.6	20.2	9 8	22 11.20	-14 48.5	1.805	2.786	5.9	20.7
9 18	22 4.14	+ 1 13.2	1.895	2.839	8.5	20.3	9 18	22 4.81	-15 22.1	1.850	2.779	9.6	20.9
9 28	21 59.17	+ 0 36.2	1.958	2.838	11.6	20.5	9 28	22 0.20	-15 42.8	1.917	2.773	13.0	21.1
67085	Oppenheimer	8 26.3 267°64		0.5°/26.7 17			299179	2005 GG ₇₇	8 26.3 166°42		3.3°/29.9 18		
7 20	22 46.17	- 6 41.3	1.654	2.495	16.1	20.8	7 20	22 43.71	+ 2 41.7	2.312	3.097	13.8	21.7
7 30	22 42.26	- 7 1.5	1.561	2.478	12.7	20.5	7 30	22 39.48	+ 2 32.1	2.226	3.101	11.3	21.5
8 9	22 35.88	- 7 37.1	1.488	2.461	8.6	20.2	8 9	22 33.55	+ 2 6.1	2.162	3.104	8.3	21.3
8 19	22 27.52	- 8 24.8	1.439	2.443	3.9	19.9	8 19	22 26.38	+ 1 25.1	2.123	3.107	5.3	21.1
8 29	22 18.06	- 9 19.2	1.416	2.425	1.3	19.7	8 29	22 18.62	+ 0 31.8	2.110	3.109	3.3	21.0
9 8	22 8.67	-10 13.5	1.419	2.406	6.2	19.9	9 8	22 11.04	- 0 29.2	2.127	3.111	4.8	21.1
9 18	22 0.51	-11 1.1	1.448	2.387	11.0	20.2	9 18	22 4.37	- 1 32.5	2.171	3.113	7.7	21.3
9 28	21 54.58	-11 36.8	1.499	2.369	15.2	20.4	9 28	21 59.24	- 2 32.9	2.240	3.114	10.7	21.5
428569	2008 CA ₁₆₆	8 26.3 175°40		0.2°/26.5 17			250689	2005 QC ₁₀₂	8 26.3 205°44		0.3°/26.5 18		
7 20	22 49.37	- 7 45.4	1.902	2.732	14.8	22.5	7 20	22 46.53	- 8 50.8	2.230	3.059	12.9	20.5
7 30	22 44.16	- 8 2.4	1.823	2.734	11.5	22.3	7 30	22 41.69	- 8 52.4	2.146	3.058	10.0	20.3
8 9	22 36.78	- 8 31.0	1.766	2.736	7.6	22.1	8 9	22 35.03	- 9 2.3	2.086	3.056	6.6	20.1
8 19	22 27.77	- 9 7.7	1.734	2.738	3.4	21.8	8 19	22 27.02	- 9 18.0	2.051	3.055	2.9	19.9
8 29	22 18.02	- 9 48.0	1.730	2.739	1.1	21.6	8 29	22 18.39	- 9 36.2	2.044	3.053	1.0	19.7
9 8	22 8.54	-10 26.3	1.754	2.739	5.5	22.0	9 8	22 9.99	- 9 53.3	2.066	3.051	4.8	20.0
9 18	22 0.30	-10 58.1	1.804	2.738	9.6	22.2	9 18	22 2.59	-10 6.1	2.115	3.049	8.4	20.2
9 28	21 54.09	-11 20.1	1.879	2.737	13.1	22.4	9 28	21 56.88	-10 12.0	2.189	3.047	11.5	20.4
180457	2004 CQ ₂	8 26.3 114°16		1.1°/25.4 18			211672	2003 WX ₂₈	8 26.3 13°89		4.0°/24.3 17		
7 20	22 47.11	- 9 49.2	1.649	2.498	15.8	20.5	7 20	22 46.76	-17 14.9	0.994	1.889	20.2	19.2
7 30	22 42.64	-10 33.8	1.585	2.509	12.1	20.3	7 30	22 43.67	-17 28.7	0.944	1.893	15.5	18.9
8 9	22 35.85	-11 30.8	1.543	2.520	7.8	20.1	8 9	22 37.16	-17 48.6	0.912	1.898	10.3	18.6
8 19	22 27.37	-12 34.7	1.525	2.530	3.3	19.9	8 19	22 28.10	-18 6.9	0.900	1.905	5.2	18.4
8 29	22 18.18	-13 38.2	1.533	2.541	2.1	19.8	8 29	22 18.05	-18 15.2	0.909	1.912	4.9	18.4
9 8	22 9.41	-14 34.2	1.569	2.551	6.5	20.1	9 8	22 8.79	-18 7.4	0.940	1.922	9.7	18.7
9 18	22 2.06	-15 17.6	1.630	2.560	10.7	20.4	9 18	22 1.82	-17 41.4	0.992	1.932	14.8	19.0
9 28	21 56.92	-15 45.2	1.714	2.569	14.3	20.6	9 28	21 58.11	-16 58.0	1.063	1.944	19.1	19.3
167153	2003 SA ₂₁₈	8 26.3 24°71		1.6°/27.7 18			399226	2014 GE ₄₃	8 26.3 95°91		1.2°/25.2 18		
7 20	22 42.39	- 3 30.2	1.603	2.443	16.6	20.5	7 20	22 44.57	-11 32.3	2.011	2.858	13.5	21.0
7 30	22 39.13	- 3 51.1	1.533	2.447	13.1	20.2	7 30	22 40.39	-12 2.8	1.937	2.860	10.3	20.8
8 9	22 33.62	- 4 29.7	1.482	2.451	9.0	20.0	8 9	22 34.27	-12 42.0	1.884	2.861	6.7	20.6
8 19	22 26.45	- 5 22.9	1.454	2.455	4.5	19.8	8 19	22 26.73	-13 25.6	1.857	2.863	2.8	20.3
8 29	22 18.51	- 6 25.1	1.452	2.460	1.7	19.6	8 29	22 18.54	-14 8.5	1.858	2.865	2.0	20.3
9 8	22 10.89	- 7 29.1	1.476	2.465	5.7	19.9	9 8	22 10.62	-14 45.6	1.886	2.866	5.7	20.5
9 18	22 4.58	- 8 28.0	1.525	2.471	10.0	20.1	9 18	22 3.81	-15 12.8	1.940	2.868	9.4	20.7
9 28	22 0.37	- 9 16.3	1.597	2.477	13.8	20.4	9 28	21 58.80	-15 27.8	2.018	2.869	12.6	21.0
225244	2009 QE ₂₇	8 26.3 322°66		1.9°/24.9 18			172281	2002 TD ₁₃₃	8 26.3 52°14		0.4°/26.6 18		
7 20	22 41.25	-10 57.3	1.247	2.126	18.0	20.1	7 20	22 49.51	- 8 51.9	1.367	2.221	18.2	19.2
7 30	22 39.15	-11 36.3	1.166	2.107	14.0	19.8	7 30	22 44.91	- 8 47.3	1.305	2.230	14.1	18.9
8 9	22 34.20	-12 31.7	1.105	2.089	9.2	19.4	8 9	22 37.57	- 8 55.3	1.263	2.239	9.4	18.7
8 19	22 26.91	-13 37.7	1.064	2.071	4.0	19.1	8 19	22 28.21	- 9 12.4	1.244	2.248	4.1	18.4
8 29	22 18.33	-14 45.3	1.047	2.054	3.0	19.0	8 29	22 18.02	- 9 33.3	1.249	2.258	1.4	18.2
9 8	22 9.91	-15 44.5	1.054	2.038	8.4	19.2	9 8	22 8.36	- 9 52.4	1.280	2.268	6.6	18.6
9 18	22 3.04	-16 27.5	1.082	2.023	13.7	19.5	9 18	22 0.46	-10 4.8	1.335	2.278	11.4	18.9
9 28	21 58.90	-16 49.4	1.130	2.009	18.4	19.7	9 28	21 55.20	-10 7.5	1.412	2.288	15.5	19.2
248576	2006 BY ₅₈	8 26.3 84°37		0.9°/25.9 17			94152	2001 AF ₇	8 26.3 308°31		0.2°/26.5 18		
7 20	23 1.31	-14 58.9	1.758	2.589	15.8	19.8	7 20	22 41.37	- 6 24				

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
176098	2001 <i>BT</i> ₁₆		8 26.3 232°77	3°7/23.5	18		435699	2008 <i>TQ</i> ₁₄₂		8 26.3 293°71	0°8/26.9	18	
7 20	22 50.36	-17 16.1	1.734	2.591	14.8	20.8	7 20	22 43.65	-5 31.9	1.688	2.529	15.9	21.6
7 30	22 45.39	-18 1.6	1.652	2.580	11.4	20.6	7 30	22 40.13	-5 57.0	1.607	2.523	12.4	21.4
8 9	22 37.88	-18 53.5	1.592	2.569	7.6	20.3	8 9	22 34.37	-6 37.8	1.545	2.517	8.4	21.1
8 19	22 28.40	-19 45.1	1.557	2.558	4.3	20.1	8 19	22 26.87	-7 31.3	1.508	2.511	3.9	20.9
8 29	22 17.92	-20 28.9	1.548	2.546	4.5	20.1	8 29	22 18.51	-8 31.7	1.496	2.505	1.2	20.6
9 8	22 7.67	-20 58.8	1.566	2.533	8.2	20.3	9 8	22 10.35	-9 32.2	1.511	2.499	5.8	20.9
9 18	21 58.80	-21 10.9	1.609	2.520	12.1	20.5	9 18	22 3.41	-10 26.3	1.552	2.494	10.2	21.2
9 28	21 52.27	-21 4.4	1.675	2.506	15.7	20.7	9 28	21 58.55	-11 8.8	1.615	2.488	14.1	21.4
105884	2000 <i>SB</i> ₁₈₀		8 26.3 301°00	5°0/30.9	18		466693	2014 <i>WB</i> ₃₃₂		8 26.3 147°09	1°4/25.2	17	
7 20	22 42.84	+5 1.7	2.104	2.885	15.1	19.7	7 20	22 46.85	-9 9.0	1.506	2.359	16.8	21.4
7 30	22 39.09	+5 24.3	2.011	2.878	12.6	19.5	7 30	22 42.77	-10 7.4	1.438	2.365	12.9	21.2
8 9	22 33.48	+5 29.6	1.939	2.870	9.8	19.3	8 9	22 36.17	-11 21.3	1.391	2.369	8.4	21.0
8 19	22 26.43	+5 17.1	1.889	2.862	6.9	19.1	8 19	22 27.65	-12 44.3	1.368	2.374	3.5	20.7
8 29	22 18.64	+4 48.0	1.866	2.855	5.1	19.0	8 29	22 18.25	-14 7.5	1.371	2.378	2.4	20.6
9 8	22 10.97	+4 5.9	1.869	2.847	5.9	19.0	9 8	22 9.22	-15 22.1	1.400	2.382	7.1	20.9
9 18	22 4.23	+3 15.8	1.898	2.840	8.6	19.1	9 18	22 1.69	-16 21.2	1.455	2.385	11.7	21.2
9 28	21 59.16	+2 23.4	1.952	2.833	11.7	19.3	9 28	21 56.56	-17 0.9	1.531	2.388	15.6	21.5
476220	2007 <i>UK</i> ₁₂₉		8 26.3 333°25	5°5/30.6	18		80177	1999 <i>US</i> ₄₃		8 26.3 307°21	4°3/28.4	18	
7 20	22 42.76	+3 51.7	1.682	2.487	17.5	20.9	7 20	22 48.02	-3 2.1	1.331	2.172	19.3	19.6
7 30	22 39.49	+4 21.1	1.597	2.479	14.5	20.7	7 30	22 44.50	-2 10.5	1.233	2.144	15.8	19.3
8 9	22 33.97	+4 30.7	1.530	2.471	11.1	20.5	8 9	22 37.91	-1 32.7	1.153	2.117	11.6	18.9
8 19	22 26.71	+4 19.5	1.485	2.465	7.7	20.3	8 19	22 28.67	-1 9.9	1.094	2.089	7.0	18.6
8 29	22 18.54	+3 49.0	1.465	2.458	5.5	20.1	8 29	22 17.79	-1 1.8	1.058	2.062	4.4	18.4
9 8	22 10.52	+3 3.6	1.469	2.452	6.7	20.2	9 8	22 6.74	-1 5.2	1.046	2.035	7.7	18.5
9 18	22 3.68	+2 9.7	1.499	2.447	10.0	20.4	9 18	21 57.10	-1 15.4	1.058	2.008	12.8	18.7
9 28	21 58.90	+1 14.4	1.552	2.442	13.6	20.6	9 28	21 50.24	-1 26.1	1.090	1.983	17.8	18.9
507201	2010 <i>TH</i> ₉₀		8 26.3 244°80	4°0/23.5	17		480407	2015 <i>KL</i> ₈₁		8 26.3 56°02	6°2/20.5	16	
7 20	22 49.11	-16 52.7	1.489	2.356	16.3	21.9	7 20	22 44.50	-21 28.2	1.591	2.467	14.9	20.6
7 30	22 44.71	-17 40.2	1.417	2.351	12.5	21.7	7 30	22 40.86	-23 7.6	1.543	2.480	11.5	20.4
8 9	22 37.56	-18 35.1	1.365	2.345	8.3	21.4	8 9	22 34.80	-24 49.4	1.518	2.493	8.2	20.3
8 19	22 28.28	-19 30.1	1.337	2.339	4.6	21.2	8 19	22 27.01	-26 23.8	1.518	2.507	6.3	20.2
8 29	22 17.97	-20 16.5	1.335	2.333	4.9	21.2	8 29	22 18.51	-27 41.1	1.543	2.521	7.3	20.3
9 8	22 8.02	-20 47.4	1.358	2.327	8.8	21.4	9 8	22 10.49	-28 34.6	1.593	2.535	10.2	20.5
9 18	21 59.67	-20 58.7	1.404	2.321	13.1	21.6	9 18	22 3.99	-29 1.8	1.665	2.549	13.4	20.7
9 28	21 53.92	-20 49.7	1.472	2.315	16.9	21.9	9 28	21 59.79	-29 3.4	1.758	2.563	16.2	20.9
244392	2002 <i>PE</i> ₈₉		8 26.3 329°66	10°7/3.5	18		333589	2007 <i>CR</i> ₉		8 26.3 100°17	1°2/27.4	18	
7 20	22 38.54	+13 12.0	1.482	2.255	20.8	19.4	7 20	22 44.47	-3 1.5	1.678	2.509	16.4	20.5
7 30	22 36.75	+14 18.9	1.387	2.232	18.4	19.2	7 30	22 40.60	-3 45.3	1.611	2.521	12.8	20.3
8 9	22 32.51	+14 59.8	1.308	2.209	15.7	19.0	8 9	22 34.55	-4 47.6	1.564	2.532	8.7	20.1
8 19	22 26.21	+15 9.2	1.247	2.188	13.0	18.7	8 19	22 26.90	-6 4.1	1.542	2.544	4.2	19.8
8 29	22 18.68	+14 43.9	1.207	2.167	11.0	18.6	8 29	22 18.55	-7 28.3	1.546	2.555	1.4	19.7
9 8	22 11.10	+13 45.9	1.188	2.148	10.9	18.5	9 8	22 10.56	-8 52.0	1.577	2.566	5.6	20.0
9 18	22 4.71	+12 21.6	1.190	2.130	12.9	18.6	9 18	22 3.86	-10 7.7	1.634	2.576	9.8	20.3
9 28	22 0.62	+10 41.9	1.214	2.113	15.9	18.7	9 28	21 59.24	-11 10.0	1.715	2.587	13.5	20.5
45156	1999 <i>XV</i> ₁₁₄		8 26.3 127°09	1°4/27.4	18		346542	2008 <i>UP</i> ₂₈₈		8 26.3 236°22	1°2/25.3	18	
7 20	22 49.27	-6 2.4	2.016	2.837	14.4	17.9	7 20	22 45.43	-10 47.1	2.025	2.868	13.5	22.3
7 30	22 43.90	-5 52.6	1.941	2.845	11.3	17.7	7 30	22 41.18	-11 25.7	1.937	2.858	10.4	22.1
8 9	22 36.52	-5 53.4	1.888	2.853	7.7	17.5	8 9	22 34.91	-12 14.5	1.872	2.848	6.8	21.8
8 19	22 27.69	-6 2.9	1.861	2.861	3.8	17.3	8 19	22 27.08	-13 9.4	1.832	2.838	2.9	21.6
8 29	22 18.23	-6 18.0	1.861	2.869	1.5	17.1	8 29	22 18.47	-14 4.6	1.820	2.827	2.0	21.5
9 8	22 9.09	-6 35.0	1.889	2.876	5.0	17.4	9 8	22 10.00	-14 54.2	1.836	2.816	5.9	21.7
9 18	22 1.13	-6 50.1	1.944	2.883	8.7	17.6	9 18	22 2.59	-15 33.7	1.879	2.805	9.7	21.9
9 28	21 55.09	-7 0.3	2.025	2.889	12.0	17.9	9 28	21 57.01	-15 59.8	1.945	2.793	13.1	22.1
333012	2011 <i>PP</i> ₇		8 26.3 116°69	0°5/26.8	17		512631	2016 <i>TL</i> ₄₅		8 26.3 33°56	7°8/31.9	18	
7 20	22 47.47	-7 26.8	2.132	2.958	13.5	21.5	7 20	22 47.46	+7 41.4	1.643	2.422	18.8	21.1
7 30	22 42.38	-7 36.2	2.062	2.971	10.5	21.3	7 30	22 43.09	+8 49.0	1.569	2.427	16.0	20.9
8 9	22 35.44	-7 55.5	2.015	2.984	7.0	21.1	8 9	22 36.32	+9 35.7	1.514	2.432	12.9	20.7
8 19	22 27.20	-8 22.0	1.993	2.996	3.1	20.9	8 19	22 27.73	+9 58.6	1.479	2.438	9.8	20.5
8 29	22 18.42	-8 51.7	2.000	3.008	1.0	20.8	8 29	22 18.25	+9 57.0	1.469	2.444	8.0	20.4
9 8	22 9.96	-9 20.5	2.034	3.020	4.8	21.1	9 8	22 9.04	+9 34.0	1.483	2.450	8.5	20.5
9 18	22 2.62	-9 44.6	2.097	3.032	8.4	21.3	9 18	22 1.18	+8 55.2	1.521	2.457	10.9	20.6
9 28	21 57.05	-10 1.3	2.184	3.043	11.5	21.5	9 28	21 55.56	+8 8.1	1.582	2.464	13.9	20.8
483249	2015 <i>SZ</i> ₃		8 26.3 353°85	6°1/31.8	18		15852	1996 <i>BR</i> ₁		8 26.3 86°34	3°4/23.8	18	
7 20	22 43.68	+7 11.8	2.060	2.829	15.8	20.7	7 20	22 48.01	-13 40.2	1.313	2.184	17.8	17.4
7 30	22 39.75	+7 52.1	1.974	2.828	13.4	20.5	7 30	22 43.90	-14 48.7	1.261	2.197	13.5	17.2
8 9	22 33.91	+8 14.5	1.908	2.827	10.6	20.3	8 9	22 36.98	-16 8.7	1.228	2.210	8.8	17.0
8 19	22 26.62	+8 17.7	1.864	2.826	7.9	20.2	8 19	22 28.01	-17 31.3	1.218	2.222	4.3	16.7
8 29	22 18.61	+8 1.9	1.846	2.825	6.2	20.1	8 29	22 18.20	-18 46.0	1.233	2.235	4.4	16.8
9 8	22 10.75	+7 30.2	1.854	2.824	6.7	20.1	9 8	22 8.98	-19 44.1	1.274	2.247	8.8	17.1
9 18	22 3.89	+6 47.4	1.887	2.824	9.0	20.2	9 18	22 1.58	-20 20.6	1.337	2.260	13.2	17.4
9 28	21 58.76	+5 59.4	1.945	2.824	11.8	20.4	9 28	21 56.88	-20 34.2	1.421	2.272	17.0	17.6
19646	1999 <i>RF</i> ₁₀₂		8 26.3 251°34	4°8/30.8	18		257792	2000 <i>EZ</i> ₁		8 26.3 215°15	0°7/25.7	18	
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
78430	Andrewpearce		8 26.3 267°95	1.7°/24.8 18			99222	2001 <i>HQ</i> ₅₅		8 26.4 63°21	0°6/25.8 18		
7 20	22 44.49	-12 10.1	1.888	2.740	14.0	20.3	7 20	22 43.62	-7 35.2	1.706	2.553	15.5	19.0
7 30	22 40.57	-12 50.4	1.808	2.734	10.7	20.0	7 30	22 39.85	-8 32.1	1.650	2.573	11.8	18.9
8 9	22 34.55	-13 40.4	1.750	2.728	7.0	19.8	8 9	22 33.99	-9 42.7	1.616	2.593	7.7	18.7
8 19	22 26.95	-14 35.0	1.717	2.722	3.1	19.6	8 19	22 26.67	-11 1.6	1.607	2.613	3.2	18.4
8 29	22 18.57	-15 28.4	1.711	2.716	2.5	19.5	8 29	22 18.77	-12 21.2	1.625	2.633	1.6	18.4
9 8	22 10.41	-16 14.2	1.732	2.710	6.4	19.7	9 8	22 11.31	-13 34.1	1.670	2.654	5.9	18.7
9 18	22 3.39	-16 48.1	1.779	2.705	10.2	20.0	9 18	22 5.15	-14 34.4	1.740	2.674	9.9	19.0
9 28	21 58.30	-17 7.2	1.849	2.699	13.7	20.2	9 28	22 0.98	-15 18.7	1.834	2.694	13.3	19.2
438600	2007 <i>VB</i> ₉₉		8 26.3 134°31	4°4/22.6 18			463441	2013 <i>MR</i> ₉		8 26.4 87°49	3°2/24.2 17		
7 20	22 49.25	-21 32.5	2.012	2.867	13.1	21.4	7 20	22 51.43	-14 42.3	1.380	2.244	17.5	21.5
7 30	22 44.01	-22 13.0	1.947	2.872	10.1	21.2	7 30	22 46.30	-15 30.5	1.332	2.264	13.3	21.3
8 9	22 36.66	-22 54.3	1.904	2.877	7.0	21.0	8 9	22 38.42	-16 26.9	1.303	2.283	8.6	21.1
8 19	22 27.79	-23 30.4	1.888	2.882	4.7	20.9	8 19	22 28.61	-17 23.9	1.298	2.303	4.2	20.9
8 29	22 18.30	-23 55.5	1.898	2.886	5.1	20.9	8 29	22 18.12	-18 13.0	1.319	2.321	4.1	20.9
9 8	22 9.20	-24 5.5	1.936	2.890	7.8	21.1	9 8	22 8.32	-18 47.4	1.366	2.340	8.2	21.2
9 18	22 1.42	-23 58.8	1.999	2.894	10.9	21.3	9 18	22 0.39	-19 3.7	1.436	2.358	12.4	21.5
9 28	21 55.66	-23 35.9	2.085	2.898	13.7	21.5	9 28	21 55.15	-19 1.4	1.527	2.376	16.1	21.8
509999	2009 <i>VU</i> ₄₇		8 26.3 270°45	0°1/26.4 18			157417	2004 <i>TY</i> ₂₉₃		8 26.4 157°99	2°2/23.8 18		
7 20	22 45.04	-7 1.2	1.738	2.580	15.5	22.1	7 20	22 44.17	-16 16.8	2.691	3.534	10.5	21.2
7 30	22 41.32	-7 31.7	1.644	2.562	12.1	21.9	7 30	22 39.63	-16 52.8	2.616	3.538	8.0	21.0
8 9	22 35.27	-8 17.4	1.570	2.544	8.1	21.6	8 9	22 33.58	-17 32.4	2.567	3.542	5.2	20.8
8 19	22 27.35	-9 14.8	1.521	2.526	3.6	21.3	8 19	22 26.46	-18 11.8	2.544	3.546	2.7	20.7
8 29	22 18.41	-10 18.3	1.498	2.507	1.3	21.1	8 29	22 18.86	-18 47.1	2.550	3.549	2.8	20.7
9 8	22 9.52	-11 20.5	1.502	2.488	6.1	21.3	9 8	22 11.49	-19 14.4	2.585	3.552	5.3	20.9
9 18	22 1.77	-12 15.0	1.531	2.469	10.7	21.6	9 18	22 4.96	-19 31.6	2.647	3.555	8.0	21.0
9 28	21 56.12	-12 56.6	1.583	2.449	14.7	21.8	9 28	21 59.83	-19 37.3	2.734	3.557	10.5	21.2
379913	2012 <i>JX</i> ₅₉		8 26.3 2°69	2°3/24.8 15			154752	2004 <i>PL</i> ₄		8 26.4 295°36	6°3/1.3 18 R		
7 20	22 43.87	-12 35.3	1.231	2.111	18.2	21.4	7 20	22 42.60	+ 8 47.1	2.175	2.934	15.4	20.0
7 30	22 41.00	-13 11.4	1.169	2.109	14.0	21.2	7 30	22 38.97	+ 9 19.6	2.076	2.920	13.2	19.8
8 9	22 35.28	-14 0.2	1.125	2.109	9.1	20.9	8 9	22 33.48	+ 9 33.9	1.995	2.906	10.6	19.6
8 19	22 27.36	-14 54.8	1.103	2.109	4.0	20.6	8 19	22 26.54	+ 9 28.3	1.937	2.893	8.1	19.4
8 29	22 18.45	-15 46.5	1.105	2.111	3.4	20.6	8 29	22 18.80	+ 9 2.9	1.904	2.879	6.4	19.3
9 8	22 9.98	-16 26.9	1.130	2.113	8.3	20.9	9 8	22 11.11	+ 8 20.6	1.897	2.866	6.8	19.3
9 18	22 3.26	-16 50.4	1.178	2.115	13.2	21.2	9 18	22 4.29	+ 7 26.2	1.916	2.852	9.0	19.4
9 28	21 59.27	-16 54.5	1.246	2.119	17.4	21.4	9 28	21 59.09	+ 6 25.8	1.960	2.839	11.7	19.5
435061	2006 <i>XU</i> ₅₈		8 26.4 206°27	1°3/25.2 17			161996	1985 <i>RH</i> ₃		8 26.4 339°88	6°2/23.2 18		
7 20	22 47.67	-11 7.6	1.888	2.731	14.3	22.3	7 20	22 42.66	-21 50.9	1.099	1.998	18.3	18.5
7 30	22 43.02	-11 44.6	1.806	2.727	11.0	22.1	7 30	22 40.85	-22 8.3	1.021	1.971	14.5	18.1
8 9	22 36.17	-12 31.9	1.747	2.723	7.2	21.8	8 9	22 35.70	-22 26.6	0.961	1.945	10.2	17.8
8 19	22 27.67	-13 24.9	1.712	2.718	3.1	21.5	8 19	22 27.77	-22 37.4	0.920	1.921	6.7	17.5
8 29	22 18.35	-14 17.5	1.705	2.712	2.1	21.5	8 29	22 18.34	-22 31.4	0.902	1.899	7.1	17.5
9 8	22 9.24	-15 3.6	1.726	2.706	6.2	21.7	9 8	22 9.16	-22 2.0	0.904	1.879	11.3	17.6
9 18	22 1.33	-15 38.6	1.773	2.700	10.2	22.0	9 18	22 1.90	-21 7.5	0.927	1.861	16.2	17.9
9 28	21 55.44	-15 59.5	1.844	2.692	13.7	22.2	9 28	21 57.87	-19 49.8	0.967	1.846	20.8	18.1
21974	1999 <i>XV</i> ₁		8 26.4 298°33	2°9/23.9 18			144430	2004 <i>EM</i> ₃₁		8 26.4 77°27	2°9/28.8 18		
7 20	22 43.95	-14 20.9	1.716	2.579	14.6	17.6	7 20	22 45.97	-1 23.6	2.001	2.811	14.9	19.8
7 30	22 40.44	-15 12.8	1.636	2.568	11.2	17.3	7 30	22 41.43	-1 10.5	1.927	2.820	11.9	19.6
8 9	22 34.63	-16 14.3	1.577	2.558	7.4	17.1	8 9	22 34.97	-1 11.4	1.875	2.829	8.5	19.4
8 19	22 27.05	-17 19.2	1.543	2.547	3.7	16.8	8 19	22 27.11	-1 25.3	1.846	2.839	5.0	19.2
8 29	22 18.57	-18 20.1	1.535	2.537	3.7	16.8	8 29	22 18.64	-1 49.4	1.845	2.848	2.9	19.1
9 8	22 10.28	-19 9.8	1.553	2.527	7.5	17.0	9 8	22 10.46	-2 19.7	1.870	2.857	5.0	19.3
9 18	22 3.24	-19 43.5	1.596	2.517	11.6	17.2	9 18	22 3.39	-2 51.7	1.923	2.866	8.5	19.5
9 28	21 58.32	-19 58.6	1.661	2.507	15.1	17.4	9 28	21 58.14	-3 20.8	2.000	2.876	11.7	19.7
511161	2013 <i>YB</i> ₄₂		8 26.4 278°30	0°2/26.5 18			360937	2005 <i>TM</i> ₁₆₈		8 26.4 202°67	3°3/22.9 18		
7 20	22 46.33	-7 54.0	1.658	2.503	15.9	22.1	7 20	22 46.12	-19 41.7	2.486	3.335	11.1	21.5
7 30	22 42.45	-8 10.8	1.564	2.484	12.5	21.8	7 30	22 41.31	-20 19.9	2.409	3.332	8.5	21.3
8 9	22 36.10	-8 41.4	1.491	2.465	8.4	21.5	8 9	22 34.78	-21 0.1	2.356	3.330	5.8	21.1
8 19	22 27.76	-9 22.6	1.441	2.446	3.7	21.2	8 19	22 27.01	-21 37.7	2.330	3.327	3.6	21.0
8 29	22 18.31	-10 9.1	1.417	2.426	1.3	21.0	8 29	22 18.68	-22 8.0	2.332	3.323	3.9	21.0
9 8	22 8.91	-10 54.3	1.420	2.406	6.3	21.3	9 8	22 10.57	-22 27.3	2.362	3.319	6.4	21.2
9 18	22 0.74	-11 32.3	1.447	2.387	11.0	21.5	9 18	22 3.42	-22 33.5	2.419	3.316	9.2	21.3
9 28	21 54.80	-11 58.5	1.498	2.367	15.2	21.7	9 28	21 57.85	-22 26.0	2.499	3.311	11.7	21.5
259715	2003 <i>YF</i> ₆₂		8 26.4 308°77	3°1/24.2 18			387256	2012 <i>US</i> ₉₅		8 26.4 124°29	2°3/28.4 18		
7 20	22 42.94	-12 53.9	1.260	2.140	17.8	20.1	7 20	22 44.15	-1 45.9	1.837	2.657	15.6	21.0
7 30	22 40.70	-13 43.7	1.169	2.111	13.9	19.8	7 30	22 40.30	-1 59.0	1.758	2.659	12.4	20.8
8 9	22 35.47	-14 49.7	1.098	2.082	9.2	19.4	8 9	22 34.39	-2 28.8	1.700	2.661	8.7	20.6
8 19	22 27.66	-16 5.3	1.048	2.054	4.3	19.1	8 19	22 26.93	-3 13.3	1.666	2.663	4.8	20.3
8 29	22 18.31	-17 20.6	1.022	2.026	4.2	19.0	8 29	22 18.73	-4 8.2	1.658	2.664	2.3	20.2
9 8	22 8.90	-18 24.5	1.019	1.999	9.4	19.2	9 8	22 10.77	-5 7.4	1.677	2.666	5.2	20.4
9 18	22 0.99	-19 8.4	1.038	1.972	14.9	19.4	9 18	22 3.96	-6 4.9	1.722	2.667	9.1	20.6
9 28	21 55.92	-19 27.5	1.076	1.946	19.8	19.6	9 28	21 59.06	-6 55.1	1.792	2.669	12.7	20.8
280078	2002 <i>CN</i> ₂₄₈		8 26.4 121°16	3°1/28.5 17			242295	2003 <i>UP</i> ₂₉₄		8 26.4 256°33	0°5/26.9 18		
7 20	22 51.81	-2 0.7	1.611	2.428									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
96307	1996 XT ₂		8 26.4 313°09	18°1/27.5	18		389047	2008 VY ₃₅		8 26.4 243°29	7°7/19.3	18	
7 20	22 48.87	-51 44.8	1.471	2.301	18.3	18.2	7 20	22 50.83	-29 59.4	1.973	2.829	13.3	21.8
7 30	22 47.07	-55 5.2	1.428	2.270	18.1	18.1	7 30	22 45.64	-31 8.0	1.904	2.820	10.8	21.6
8 9	22 40.82	-58 4.0	1.404	2.239	18.7	18.0	8 9	22 38.00	-32 12.3	1.857	2.810	8.7	21.5
8 19	22 30.40	-60 24.9	1.400	2.208	20.0	18.0	8 19	22 28.53	-33 4.0	1.835	2.800	7.7	21.4
8 29	22 17.34	-61 54.9	1.411	2.177	21.6	18.1	8 29	22 18.21	-33 35.8	1.839	2.790	8.6	21.4
9 8	22 4.28	-62 28.6	1.435	2.147	23.4	18.2	9 8	22 8.22	-33 43.1	1.868	2.780	10.8	21.6
9 18	21 53.95	-62 8.3	1.470	2.118	25.1	18.2	9 18	21 59.65	-33 25.2	1.921	2.769	13.4	21.7
9 28	21 48.35	-61 1.3	1.513	2.089	26.7	18.3	9 28	21 53.38	-32 44.3	1.994	2.759	15.9	21.9
442797	2013 AH ₈		8 26.4 96°66	2°3/28.8	18		141474	2002 CM ₂₁₉		8 26.4 182°39	0°9/25.4	18	
7 20	22 45.77	- 1 16.6	2.409	3.207	13.0	21.4	7 20	22 43.44	-10 53.2	2.489	3.325	11.5	21.2
7 30	22 40.87	- 1 16.1	2.342	3.228	10.3	21.3	7 30	22 39.23	-11 27.2	2.408	3.325	8.8	21.0
8 9	22 34.39	- 1 27.9	2.296	3.249	7.3	21.1	8 9	22 33.43	-12 9.0	2.351	3.325	5.7	20.8
8 19	22 26.81	- 1 50.6	2.277	3.269	4.2	20.9	8 19	22 26.46	-12 54.9	2.320	3.325	2.4	20.6
8 29	22 18.80	- 2 21.2	2.285	3.289	2.3	20.8	8 29	22 18.96	-13 40.8	2.318	3.325	1.6	20.5
9 8	22 11.09	- 2 56.1	2.323	3.309	4.3	21.0	9 8	22 11.64	-14 22.2	2.344	3.324	4.8	20.8
9 18	22 4.34	- 3 31.4	2.388	3.328	7.2	21.2	9 18	22 5.18	-14 55.7	2.398	3.323	8.0	21.0
9 28	21 59.12	- 4 3.4	2.479	3.347	10.0	21.4	9 28	22 0.17	-15 18.9	2.478	3.322	10.8	21.2
131639	2001 XE ₇₆		8 26.4 260°72	2°4/28.0	18		186796	2004 EZ ₃₈		8 26.4 129°75	1°1/25.4	18	
7 20	22 46.72	- 2 49.9	1.411	2.250	18.5	20.7	7 20	22 45.76	- 8 54.6	1.712	2.559	15.4	20.5
7 30	22 43.04	- 2 53.6	1.330	2.242	14.8	20.4	7 30	22 41.66	- 9 51.7	1.644	2.567	11.8	20.2
8 9	22 36.62	- 3 17.0	1.267	2.234	10.4	20.1	8 9	22 35.33	-11 2.5	1.598	2.574	7.7	20.0
8 19	22 28.04	- 3 58.3	1.227	2.226	5.5	19.8	8 19	22 27.36	-12 21.4	1.576	2.582	3.2	19.8
8 29	22 18.32	- 4 52.6	1.211	2.218	2.5	19.6	8 29	22 18.65	-13 40.7	1.581	2.589	2.0	19.7
9 8	22 8.79	- 5 52.4	1.220	2.210	6.5	19.8	9 8	22 10.26	-14 52.7	1.614	2.595	6.4	20.0
9 18	22 0.74	- 6 49.8	1.254	2.202	11.5	20.1	9 18	22 3.19	-15 51.3	1.672	2.602	10.5	20.3
9 28	21 55.23	- 7 37.7	1.309	2.194	16.0	20.4	9 28	21 58.21	-16 32.9	1.754	2.608	14.1	20.5
365369	2009 TF ₃₄		8 26.4 336°40	8°2/ 4.3	18		71772	2000 SG ₁₀₅		8 26.4 149°55	2°9/24.2	18	
7 20	22 40.01	+15 6.3	2.125	2.850	16.7	20.0	7 20	22 49.58	-14 10.8	1.594	2.451	15.9	19.4
7 30	22 37.02	+15 38.8	2.034	2.843	14.6	19.8	7 30	22 44.80	-15 1.7	1.528	2.457	12.1	19.2
8 9	22 32.21	+15 48.5	1.959	2.837	12.4	19.7	8 9	22 37.49	-16 1.7	1.484	2.463	7.9	19.0
8 19	22 26.00	+15 33.1	1.906	2.831	10.1	19.5	8 19	22 28.32	-17 4.1	1.464	2.468	3.8	18.7
8 29	22 19.07	+14 52.4	1.875	2.825	8.5	19.4	8 29	22 18.31	-18 0.8	1.470	2.473	3.7	18.8
9 8	22 12.23	+13 49.3	1.869	2.820	8.3	19.4	9 8	22 8.71	-18 45.0	1.503	2.477	7.7	19.0
9 18	22 6.31	+12 29.5	1.888	2.816	9.6	19.5	9 18	22 0.65	-19 12.2	1.561	2.481	11.8	19.3
9 28	22 2.02	+11 0.5	1.931	2.811	11.8	19.6	9 28	21 54.98	-19 21.0	1.641	2.484	15.4	19.5
362592	2010 VA ₂₀₅		8 26.4 277°11	3°6/30.3	18		121820	2000 AE ₂₄₉		8 26.4 239°12	0°1/26.5	18	
7 20	22 41.28	+ 3 22.0	2.307	3.094	13.8	20.9	7 20	22 42.71	- 7 38.0	2.618	3.442	11.4	20.9
7 30	22 37.74	+ 3 17.3	2.216	3.090	11.3	20.7	7 30	22 38.65	- 8 2.2	2.524	3.433	8.8	20.7
8 9	22 32.54	+ 2 56.1	2.146	3.085	8.5	20.5	8 9	22 33.06	- 8 35.5	2.453	3.423	5.8	20.5
8 19	22 26.10	+ 2 19.1	2.100	3.081	5.5	20.3	8 19	22 26.33	- 9 15.5	2.409	3.413	2.6	20.3
8 29	22 19.05	+ 1 28.8	2.080	3.077	3.7	20.2	8 29	22 19.02	- 9 58.5	2.393	3.402	0.9	20.1
9 8	22 12.13	+ 0 29.6	2.089	3.073	4.9	20.3	9 8	22 11.82	-10 40.4	2.407	3.392	4.3	20.3
9 18	22 6.05	+ 0 33.4	2.125	3.069	7.7	20.4	9 18	22 5.38	-11 17.7	2.448	3.381	7.5	20.5
9 28	22 1.45	- 1 34.6	2.186	3.065	10.7	20.6	9 28	22 0.28	-11 47.3	2.515	3.370	10.3	20.7
235191	2003 SG ₁₂₉		8 26.4 281°43	1°9/24.8	18		277262	2005 SB ₂₆		8 26.4 322°23	5°7/30.9	18	
7 20	22 45.83	-12 58.2	1.797	2.651	14.5	20.3	7 20	22 43.53	+ 4 37.6	1.522	2.329	18.9	20.4
7 30	22 41.73	-13 31.0	1.719	2.646	11.1	20.1	7 30	22 40.36	+ 4 58.6	1.440	2.324	15.7	20.2
8 9	22 35.40	-14 12.6	1.663	2.641	7.2	19.8	8 9	22 34.75	+ 4 56.4	1.376	2.318	12.0	19.9
8 19	22 27.40	-14 58.0	1.631	2.636	3.2	19.6	8 19	22 27.22	+ 4 30.1	1.333	2.313	8.3	19.7
8 29	22 18.59	-15 41.3	1.626	2.632	2.7	19.5	8 29	22 18.69	+ 3 41.6	1.314	2.308	5.8	19.6
9 8	22 10.04	-16 16.6	1.648	2.627	6.6	19.8	9 8	22 10.33	+ 2 36.8	1.319	2.304	7.1	19.6
9 18	22 2.72	-16 39.7	1.696	2.622	10.6	20.0	9 18	22 3.29	+ 1 23.7	1.349	2.299	10.7	19.8
9 28	21 57.46	-16 48.2	1.766	2.618	14.1	20.2	9 28	21 58.51	+ 0 11.2	1.402	2.295	14.5	20.1
212961	2009 BD ₆₆		8 26.4 5°74	0°2/26.2	18		370881	2005 EO ₁₅₂		8 26.4 152°30	0°6/25.9	17	
7 20	22 43.76	- 8 28.1	1.724	2.573	15.2	20.5	7 20	22 48.27	- 8 25.6	1.768	2.607	15.4	22.1
7 30	22 40.14	- 8 51.8	1.651	2.573	11.8	20.3	7 30	22 43.52	- 9 7.7	1.697	2.615	11.8	21.9
8 9	22 34.35	- 9 27.9	1.598	2.574	7.8	20.0	8 9	22 36.53	-10 2.7	1.648	2.622	7.7	21.6
8 19	22 26.94	-10 12.6	1.569	2.574	3.3	19.8	8 19	22 27.88	-11 6.0	1.623	2.628	3.3	21.4
8 29	22 18.77	-11 0.3	1.566	2.575	1.3	19.6	8 29	22 18.49	-12 11.0	1.626	2.634	1.6	21.3
9 8	22 10.88	-11 44.8	1.590	2.576	5.8	19.9	9 8	22 9.42	-13 10.7	1.656	2.639	6.0	21.6
9 18	22 4.23	-12 21.0	1.640	2.578	10.0	20.2	9 18	22 1.66	-13 59.7	1.713	2.644	10.2	21.8
9 28	21 59.62	-12 45.2	1.712	2.580	13.7	20.4	9 28	21 56.02	-14 34.3	1.793	2.648	13.8	22.1
393230	2013 GU ₉₅		8 26.4 107°76	9°0/13.8	18		358894	Demetrescu		8 26.4 109°22	4°1/22.4	18	
7 20	22 46.73	-38 6.2	2.418	3.261	11.6	20.1	7 20	22 46.72	-21 29.2	2.248	3.103	12.0	21.0
7 30	22 42.21	-39 59.2	2.382	3.271	10.1	20.0	7 30	22 41.91	-22 10.0	2.182	3.107	9.2	20.9
8 9	22 35.59	-41 42.1	2.370	3.281	9.2	20.0	8 9	22 35.25	-22 51.5	2.139	3.111	6.4	20.7
8 19	22 27.43	-43 7.3	2.383	3.291	9.2	20.0	8 19	22 27.26	-23 28.5	2.122	3.115	4.3	20.6
8 29	22 18.60	-44 8.5	2.421	3.300	10.1	20.1	8 29	22 18.72	-23 55.8	2.132	3.119	4.8	20.6
9 8	22 10.08	-44 42.7	2.482	3.310	11.5	20.2	9 8	22 10.50	-24 9.6	2.170	3.123	7.2	20.8
9 18	22 2.80	-44 49.9	2.564	3.319	13.1	20.3	9 18	22 3.40	-24 8.3	2.234	3.127	10.0	21.0
9 28	21 57.49	-44 32.8	2.664	3.328	14.5	20.5	9 28	21 58.05	-23 51.9	2.321	3.131	12.6	21.2
339261	2004 VX ₇₄		8 26.4 299°31	10°8/ 5.4	18		484007	2006 DW ₃₇		8 26.4 231°07	2°6/23.4	17	
7 20	22 41.58	+17											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
354684	2005 <i>PM</i> ₉		8 26.4 354°78	1°0/25.4	18		321908	2010 <i>TP</i> ₂₄		8 26.4 262°11	2°6/28.8	18	
7 20	22 41.45	- 9 41.0	1.765	2.620	14.7	20.4	7 20	22 44.40	- 1 30.9	2.297	3.101	13.4	20.8
7 30	22 38.36	-10 24.2	1.690	2.618	11.3	20.2	7 30	22 40.16	- 1 22.1	2.204	3.094	10.7	20.6
8 9	22 33.20	-11 19.9	1.637	2.616	7.3	20.0	8 9	22 34.18	- 1 25.7	2.133	3.087	7.7	20.4
8 19	22 26.47	-12 23.2	1.608	2.614	3.1	19.7	8 19	22 26.87	- 1 40.8	2.087	3.079	4.5	20.2
8 29	22 19.00	-13 27.5	1.606	2.613	1.9	19.6	8 29	22 18.89	- 2 5.3	2.068	3.071	2.6	20.1
9 8	22 11.77	-14 26.1	1.630	2.613	6.1	19.9	9 8	22 11.04	- 2 35.6	2.077	3.064	4.6	20.2
9 18	22 5.70	-15 13.3	1.679	2.613	10.2	20.2	9 18	22 4.07	- 3 7.6	2.114	3.056	7.9	20.4
9 28	22 1.57	-15 45.6	1.751	2.613	13.7	20.4	9 28	21 58.65	- 3 37.3	2.176	3.048	11.0	20.6
22600	1998 <i>HH</i> ₁₂₃		8 26.4 312°14	3°5/29.7	18		135042	2001 <i>OE</i> ₁₉		8 26.4 19°30	1°4/24.9	18	
7 20	22 40.72	+ 2 44.4	1.676	2.490	17.1	17.6	7 20	22 38.48	- 7 22.9	1.456	2.321	16.7	18.8
7 30	22 37.99	+ 2 17.8	1.589	2.482	14.0	17.4	7 30	22 36.41	- 8 50.6	1.395	2.328	12.7	18.6
8 9	22 33.08	+ 1 27.5	1.522	2.474	10.2	17.1	8 9	22 32.07	-10 37.2	1.354	2.335	8.2	18.4
8 19	22 26.47	+ 0 14.7	1.476	2.467	6.2	16.9	8 19	22 26.02	-12 35.0	1.337	2.344	3.4	18.1
8 29	22 18.98	- 1 15.6	1.457	2.460	3.5	16.7	8 29	22 19.20	-14 33.3	1.346	2.353	2.5	18.1
9 8	22 11.64	- 2 55.5	1.463	2.453	5.7	16.8	9 8	22 12.72	-16 21.0	1.381	2.363	7.1	18.4
9 18	22 5.44	- 4 35.9	1.495	2.446	9.8	17.1	9 18	22 7.60	-17 49.9	1.440	2.374	11.6	18.7
9 28	22 1.23	- 6 7.9	1.552	2.440	13.7	17.3	9 28	22 4.62	-18 55.0	1.522	2.385	15.3	18.9
400704	2009 <i>RO</i> ₃₂		8 26.4 290°88	5°6/ 1.0	18		378238	2007 <i>CB</i> ₁		8 26.4 204°03	0°5/25.9	17	
7 20	22 42.06	+ 8 2.4	2.363	3.121	14.3	20.5	7 20	22 46.67	- 8 30.6	1.890	2.728	14.6	22.1
7 30	22 38.49	+ 8 24.2	2.252	3.098	12.2	20.4	7 30	22 42.29	- 9 6.6	1.807	2.724	11.3	21.9
8 9	22 33.17	+ 8 28.9	2.161	3.075	9.8	20.1	8 9	22 35.76	- 9 55.1	1.747	2.721	7.4	21.6
8 19	22 26.47	+ 8 15.1	2.092	3.052	7.3	20.0	8 19	22 27.60	-10 51.8	1.711	2.716	3.2	21.4
8 29	22 18.99	+ 7 43.4	2.049	3.029	5.7	19.8	8 29	22 18.65	-11 51.1	1.703	2.712	1.4	21.2
9 8	22 11.47	+ 6 56.6	2.034	3.005	6.2	19.8	9 8	22 9.89	-12 46.6	1.723	2.707	5.8	21.5
9 18	22 4.71	+ 5 59.0	2.044	2.982	8.4	19.9	9 18	22 2.28	-13 32.9	1.769	2.701	9.9	21.7
9 28	21 59.41	+ 4 56.6	2.080	2.959	11.2	20.0	9 28	21 56.64	-14 6.2	1.839	2.695	13.4	22.0
348366	2005 <i>ER</i> ₂₅₉		8 26.4 71°90	2°9/24.2	18		374805	2006 <i>UF</i> ₃₃		8 26.4 35°58	3°1/24.5	17	
7 20	22 49.07	-16 53.6	1.832	2.686	14.2	20.5	7 20	22 46.18	-13 49.2	1.092	1.978	19.5	20.4
7 30	22 43.99	-17 17.9	1.770	2.697	10.9	20.3	7 30	22 42.88	-14 30.1	1.048	1.992	14.9	20.1
8 9	22 36.73	-17 46.1	1.731	2.708	7.1	20.1	8 9	22 36.51	-15 22.0	1.023	2.008	9.6	19.9
8 19	22 27.93	-18 13.2	1.717	2.719	3.7	19.9	8 19	22 27.94	-16 16.5	1.018	2.024	4.5	19.7
8 29	22 18.52	-18 33.8	1.729	2.730	3.6	19.9	8 29	22 18.57	-17 4.0	1.037	2.042	4.1	19.7
9 8	22 9.58	-18 43.5	1.769	2.741	6.9	20.1	9 8	22 9.98	-17 36.6	1.079	2.060	8.8	20.0
9 18	22 2.02	-18 40.3	1.835	2.752	10.5	20.4	9 18	22 3.44	-17 49.9	1.143	2.079	13.6	20.4
9 28	21 56.58	-18 23.6	1.923	2.763	13.6	20.6	9 28	21 59.84	-17 43.2	1.226	2.098	17.7	20.7
189570	2000 <i>SV</i> ₃₁₆		8 26.4 25°05	5°8/29.7	18		12916	<i>Eteoneus</i>		8 26.4 268°32	5°2/ 6.8	18	
7 20	22 50.80	+ 0 49.0	1.476	2.290	19.1	19.3	7 20	22 35.89	+20 12.9	4.519	5.154	9.4	18.9
7 30	22 45.91	+ 1 59.7	1.405	2.294	15.7	19.1	7 30	22 32.88	+20 21.6	4.418	5.153	8.4	18.8
8 9	22 38.35	+ 2 53.9	1.352	2.299	11.8	18.9	8 9	22 29.01	+20 17.3	4.336	5.151	7.3	18.7
8 19	22 28.76	+ 3 29.4	1.322	2.304	8.0	18.7	8 19	22 24.52	+19 59.3	4.276	5.149	6.2	18.6
8 29	22 18.21	+ 3 46.1	1.316	2.310	5.9	18.6	8 29	22 19.75	+19 27.9	4.241	5.148	5.4	18.5
9 8	22 8.02	+ 3 46.9	1.336	2.316	7.5	18.7	9 8	22 15.05	+18 44.6	4.232	5.146	5.2	18.5
9 18	21 59.40	+ 3 36.3	1.380	2.323	11.1	18.9	9 18	22 10.75	+17 51.4	4.250	5.145	5.6	18.6
9 28	21 53.32	+ 3 20.6	1.446	2.330	14.7	19.2	9 28	22 7.20	+16 51.4	4.295	5.143	6.5	18.6
365301	2009 <i>RC</i> ₆₃		8 26.4 276°55	1°3/28.9	16		365978	2012 <i>BC</i> ₇₀		8 26.4 27°95	2°1/24.3	18	
7 20	22 35.30	- 1 27.2	4.534	5.324	7.5	21.6	7 20	22 42.70	-13 47.2	2.175	3.026	12.4	20.8
7 30	22 32.37	- 1 44.9	4.434	5.316	5.9	21.4	7 30	22 38.92	-14 31.9	2.102	3.028	9.4	20.6
8 9	22 28.64	- 2 9.8	4.358	5.309	4.2	21.3	8 9	22 33.36	-15 23.6	2.051	3.030	6.1	20.4
8 19	22 24.35	- 2 40.8	4.309	5.301	2.4	21.2	8 19	22 26.51	-16 17.6	2.027	3.031	2.9	20.2
8 29	22 19.78	- 3 16.3	4.290	5.294	1.3	21.1	8 29	22 19.07	-17 8.5	2.030	3.033	2.7	20.2
9 8	22 15.28	- 3 54.2	4.300	5.287	2.4	21.2	9 8	22 11.86	-17 51.3	2.062	3.035	5.9	20.4
9 18	22 11.15	- 4 32.4	4.340	5.279	4.3	21.3	9 18	22 5.64	-18 22.3	2.119	3.038	9.2	20.7
9 28	22 7.71	- 5 8.6	4.407	5.272	6.0	21.4	9 28	22 1.07	-18 39.5	2.200	3.040	12.1	20.9
168636	2000 <i>CV</i> ₁₃₅		8 26.4 237°82	0°7/27.1	18		80756	2000 <i>CK</i> ₅₂		8 26.4 139°12	0°9/27.2	17	
7 20	22 43.55	- 5 24.4	2.018	2.848	14.1	20.9	7 20	22 46.42	- 4 38.2	1.785	2.614	15.6	20.2
7 30	22 39.74	- 5 52.9	1.933	2.843	11.0	20.7	7 30	22 42.09	- 5 11.0	1.712	2.622	12.2	20.0
8 9	22 34.00	- 6 35.1	1.870	2.839	7.4	20.5	8 9	22 35.60	- 5 59.6	1.661	2.629	8.2	19.8
8 19	22 26.81	- 7 27.9	1.831	2.834	3.5	20.2	8 19	22 27.52	- 7 0.3	1.634	2.637	3.9	19.5
8 29	22 18.90	- 8 26.6	1.820	2.829	1.1	20.0	8 29	22 18.71	- 8 7.2	1.634	2.643	1.2	19.4
9 8	22 11.15	- 9 25.4	1.836	2.824	5.0	20.3	9 8	22 10.21	- 9 13.6	1.662	2.650	5.4	19.7
9 18	22 4.42	-10 18.7	1.880	2.819	8.9	20.5	9 18	22 2.96	-10 13.0	1.716	2.655	9.6	19.9
9 28	21 59.44	-11 2.1	1.947	2.813	12.4	20.7	9 28	21 57.73	-11 0.9	1.794	2.661	13.2	20.2
510041	2010 <i>CY</i> ₂₁₃		8 26.4 225°77	8°7/14.6	18		165172	2000 <i>QU</i> ₁₂₄		8 26.4 251°69	6°3/29.5	18	
7 20	22 48.23	-33 19.6	2.262	3.113	12.0	21.8	7 20	22 56.98	+ 2 10.0	1.740	2.523	17.8	19.4
7 30	22 43.66	-35 30.3	2.198	3.102	10.2	21.6	7 30	22 50.80	+ 3 23.5	1.635	2.504	14.9	19.2
8 9	22 36.80	-37 36.9	2.160	3.091	8.9	21.5	8 9	22 41.79	+ 4 24.3	1.551	2.485	11.5	18.9
8 19	22 28.10	-39 29.8	2.147	3.079	8.8	21.5	8 19	22 30.42	+ 5 9.4	1.490	2.465	8.1	18.7
8 29	22 18.41	-41 0.2	2.162	3.067	10.0	21.6	8 29	22 17.62	+ 5 37.0	1.456	2.444	6.3	18.5
9 8	22 8.80	-42 2.6	2.201	3.054	11.9	21.7	9 8	22 4.69	+ 5 47.9	1.449	2.423	7.9	18.6
9 18	22 0.34	-42 35.3	2.262	3.040	13.9	21.8	9 18	21 52.99	+ 5 45.3	1.469	2.401	11.5	18.7
9 28	21 53.92	-42 39.9	2.341	3.026	15.8	21.9	9 28	21 43.70	+ 5 34.6	1.513	2.378	15.3	18.9
70005	1998 <i>XN</i> ₂₈		8 26.4 25°63	5°2/21.3	18		400722	2009 <i>SY</i> ₉₆		8 26.4 3			

EPHEMERIDES

8 26.4

8 26.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
181131	2005 <i>QC</i> ₁₃₉		8 26.4 73°27'	1.3°/25.2	18		334684	2003 <i>BR</i> ₂₈		8 26.4 190°73'	3°2'/23.4	16	
7 20	22 45.31	-11 55.6	2.014	2.861	13.5	20.6	7 20	22 45.19	-5 34.9	1.204	2.066	19.7	20.2
7 30	22 40.94	-12 25.2	1.950	2.873	10.3	20.4	7 30	22 42.36	-8 17.7	1.133	2.066	15.1	19.9
8 9	22 34.67	-13 2.7	1.908	2.885	6.6	20.2	8 9	22 36.50	-11 34.3	1.083	2.065	9.6	19.6
8 19	22 27.07	-13 43.7	1.892	2.897	2.8	20.0	8 19	22 28.17	-15 11.5	1.058	2.064	4.2	19.3
8 29	22 18.91	-14 23.2	1.903	2.909	2.0	20.0	8 29	22 18.51	-18 48.8	1.060	2.062	4.8	19.3
9 8	22 11.10	-14 56.4	1.941	2.921	5.6	20.2	9 8	22 9.07	-22 4.6	1.089	2.060	10.3	19.6
9 18	22 4.43	-15 19.8	2.006	2.934	9.2	20.5	9 18	22 1.33	-24 43.7	1.143	2.058	15.6	19.9
9 28	21 59.57	-15 31.3	2.095	2.946	12.2	20.7	9 28	21 56.48	-26 39.7	1.217	2.055	20.0	20.2
158440	2002 <i>CP</i> ₇₈		8 26.4 9°30'	2°9'/23.6	17		34334	2000 <i>QG</i> ₂₁₂		8 26.4 220°11'	0°2'/26.2	18	
7 20	22 40.02	-10 13.7	1.436	2.307	16.5	19.1	7 20	22 43.27	-8 12.9	2.208	3.042	12.8	19.6
7 30	22 37.76	-11 57.5	1.371	2.308	12.6	18.8	7 30	22 39.36	-8 44.6	2.125	3.040	9.9	19.4
8 9	22 33.07	-13 59.2	1.326	2.309	8.1	18.6	8 9	22 33.68	-9 26.8	2.065	3.038	6.5	19.2
8 19	22 26.52	-16 9.7	1.306	2.311	3.8	18.4	8 19	22 26.69	-10 16.3	2.031	3.035	2.8	18.9
8 29	22 19.09	-18 16.9	1.311	2.314	4.1	18.4	8 29	22 19.07	-11 8.3	2.024	3.033	1.1	18.8
9 8	22 11.94	-20 9.0	1.343	2.317	8.4	18.6	9 8	22 11.63	-11 57.8	2.046	3.030	4.9	19.1
9 18	22 6.19	-21 37.6	1.399	2.320	12.8	18.9	9 18	22 5.13	-12 40.2	2.094	3.027	8.5	19.3
9 28	22 2.71	-22 38.5	1.475	2.324	16.5	19.2	9 28	22 0.24	-13 12.4	2.167	3.024	11.6	19.5
400206	2007 <i>BT</i> ₈		8 26.4 95°35'	2°8'/29.2	18		342493	2008 <i>UB</i> ₁₆₆		8 26.4 341°46'	1°0'/27.2	17	
7 20	22 46.45	-0 21.2	2.450	3.241	13.0	21.0	7 20	22 42.49	-5 32.2	1.453	2.306	17.4	20.9
7 30	22 41.41	-0 9.3	2.380	3.261	10.4	20.8	7 30	22 39.66	-5 47.0	1.377	2.300	13.7	20.7
8 9	22 34.80	-0 9.6	2.333	3.280	7.5	20.7	8 9	22 34.35	-6 19.0	1.319	2.293	9.3	20.4
8 19	22 27.08	-0 21.2	2.310	3.299	4.5	20.5	8 19	22 27.12	-7 5.1	1.284	2.288	4.4	20.1
8 29	22 18.92	-0 41.9	2.316	3.317	2.8	20.4	8 29	22 18.92	-7 59.6	1.274	2.283	1.4	19.9
9 8	22 11.04	-1 8.2	2.351	3.336	4.4	20.6	9 8	22 10.96	-8 54.9	1.288	2.278	6.2	20.2
9 18	22 4.12	-1 36.7	2.414	3.354	7.2	20.8	9 18	22 4.38	-9 44.0	1.327	2.275	11.0	20.5
9 28	21 58.70	-2 3.7	2.503	3.371	9.9	21.0	9 28	22 0.12	-10 21.2	1.387	2.272	15.2	20.7
440177	2004 <i>BM</i> ₈		8 26.4 289°36'	0°2'/26.3	18		7163	Barenboim		8 26.4 243°48'	0°3'/26.7	18	
7 20	22 42.80	-7 20.1	1.901	2.743	14.3	21.3	7 20	22 44.43	-2 36.2	1.742	2.569	16.0	19.0
7 30	22 39.30	-7 59.5	1.820	2.738	11.1	21.1	7 30	22 40.93	-3 59.2	1.646	2.555	12.6	18.8
8 9	22 33.80	-8 52.6	1.759	2.734	7.4	20.8	8 9	22 35.13	-5 46.3	1.571	2.540	8.5	18.5
8 19	22 26.78	-9 55.2	1.724	2.729	3.2	20.6	8 19	22 27.47	-7 52.9	1.521	2.525	3.8	18.2
8 29	22 19.01	-11 1.7	1.716	2.725	1.2	20.4	8 29	22 18.77	-10 10.3	1.500	2.509	1.2	18.0
9 8	22 11.42	-12 5.5	1.735	2.720	5.5	20.7	9 8	22 10.08	-12 27.3	1.507	2.492	6.2	18.3
9 18	22 4.91	-13 0.7	1.780	2.716	9.5	20.9	9 18	22 2.48	-14 32.9	1.541	2.475	10.9	18.5
9 28	22 0.23	-13 43.2	1.849	2.711	13.1	21.2	9 28	21 56.92	-16 19.1	1.600	2.457	15.0	18.7
178269	4178 <i>P-L</i>		8 26.4 356°59'	0°7'/25.9	18		203303	2001 <i>SC</i> ₂₄₁		8 26.4 231°78'	0°7'/25.9	17	
7 20	22 46.70	-11 41.6	1.818	2.667	14.6	19.6	7 20	22 47.69	-8 41.2	1.460	2.313	17.3	21.2
7 30	22 42.32	-11 43.7	1.742	2.665	11.2	19.4	7 30	22 43.74	-9 18.3	1.382	2.307	13.4	20.9
8 9	22 35.78	-11 53.5	1.688	2.664	7.4	19.2	8 9	22 37.10	-10 11.2	1.324	2.301	8.9	20.6
8 19	22 27.62	-12 7.8	1.658	2.663	3.1	18.9	8 19	22 28.33	-11 15.0	1.289	2.295	3.8	20.3
8 29	22 18.73	-12 22.1	1.655	2.663	1.6	18.8	8 29	22 18.49	-12 21.9	1.280	2.288	1.9	20.2
9 8	22 10.14	-12 32.2	1.678	2.663	5.8	19.1	9 8	22 8.88	-13 23.5	1.296	2.281	7.1	20.5
9 18	22 2.80	-12 34.9	1.728	2.663	9.8	19.4	9 18	22 0.76	-14 12.7	1.337	2.274	12.0	20.7
9 28	21 57.49	-12 28.2	1.801	2.664	13.4	19.6	9 28	21 55.16	-14 45.1	1.400	2.266	16.2	21.0
480778	2016 <i>PC</i> ₁₄		8 26.4 49°95'	9°8'/18.3	16		456711	2007 <i>RG</i> ₂₈₉		8 26.4 17°19'	8°3'/21.8	18	
7 20	22 48.83	-30 49.0	1.476	2.351	16.0	20.4	7 20	22 54.34	-29 32.9	1.437	2.305	16.7	19.9
7 30	22 44.60	-32 28.5	1.438	2.363	13.0	20.2	7 30	22 48.82	-30 5.3	1.384	2.310	13.4	19.7
8 9	22 37.51	-34 0.2	1.421	2.376	10.7	20.1	8 9	22 40.26	-30 29.9	1.352	2.314	10.3	19.5
8 19	22 28.38	-35 13.0	1.427	2.388	9.8	20.1	8 19	22 29.57	-30 37.7	1.342	2.320	8.4	19.4
8 29	22 18.49	-35 57.5	1.456	2.402	10.9	20.2	8 29	22 18.13	-30 21.9	1.356	2.327	9.0	19.5
9 8	22 9.29	-36 9.7	1.508	2.415	13.2	20.4	9 8	22 7.52	-29 39.8	1.394	2.334	11.6	19.7
9 18	22 2.01	-35 50.2	1.581	2.429	15.8	20.6	9 18	21 59.00	-28 33.5	1.455	2.341	14.7	19.9
9 28	21 57.47	-35 3.4	1.671	2.443	18.2	20.8	9 28	21 53.44	-27 7.7	1.536	2.350	17.7	20.1
476653	2008 <i>SF</i> ₂₈₄		8 26.4 267°99'	1°6'/27.9	18		481502	2007 <i>EJ</i> ₂₇		8 26.4 213°66'	2°6'/23.7	18	
7 20	22 44.84	-2 54.8	2.065	2.882	14.3	22.8	7 20	22 46.20	-17 38.3	2.583	3.427	10.9	22.0
7 30	22 40.92	-3 17.6	1.957	2.857	11.4	22.5	7 30	22 41.36	-18 9.4	2.500	3.422	8.4	21.8
8 9	22 34.96	-3 56.2	1.869	2.832	8.0	22.3	8 9	22 34.88	-18 43.5	2.442	3.416	5.5	21.7
8 19	22 27.35	-4 48.8	1.807	2.806	4.1	22.0	8 19	22 27.18	-19 16.6	2.410	3.411	3.0	21.5
8 29	22 18.79	-5 51.4	1.772	2.780	1.7	21.8	8 29	22 18.93	-19 44.4	2.407	3.405	3.2	21.5
9 8	22 10.18	-6 58.3	1.765	2.753	5.1	22.0	9 8	22 10.86	-20 3.5	2.433	3.398	5.7	21.6
9 18	22 2.45	-8 3.2	1.785	2.725	9.2	22.1	9 18	22 3.68	-20 11.4	2.486	3.392	8.6	21.8
9 28	21 56.46	-9 0.5	1.829	2.697	12.9	22.3	9 28	21 58.00	-20 7.3	2.563	3.385	11.2	22.0
136051	2002 <i>XF</i> ₂₇		8 26.4 327°78'	0°1'/26.4	18		193384	2000 <i>VW</i> ₂₈		8 26.4 309°46'	1°9'/24.9	18	
7 20	22 46.34	-9 38.2	1.721	2.568	15.3	19.2	7 20	22 42.23	-10 54.9	1.501	2.367	16.2	19.4
7 30	22 42.25	-9 36.6	1.639	2.560	11.9	18.9	7 30	22 39.62	-11 43.1	1.410	2.344	12.6	19.1
8 9	22 35.86	-9 44.8	1.577	2.552	7.9	18.7	8 9	22 34.48	-12 46.6	1.340	2.321	8.3	18.8
8 19	22 27.71	-9 59.9	1.540	2.545	3.5	18.4	8 19	22 27.26	-13 59.9	1.293	2.299	3.6	18.5
8 29	22 18.69	-10 17.8	1.529	2.538	1.2	18.2	8 29	22 18.86	-15 15.0	1.271	2.277	2.9	18.4
9 8	22 9.91	-10 33.7	1.545	2.532	5.9	18.5	9 8	22 10.50	-16 22.6	1.274	2.255	7.7	18.6
9 18	22 2.39	-10 43.6	1.586	2.526	10.2	18.8	9 18	22 3.41	-17 15.4	1.300	2.234	12.5	18.9
9 28	21 56.99	-10 44.6	1.650	2.520	14.0	19.0	9 28	21 58.67	-17 48.4	1.348	2.214	16.8	19.1
30030	Joycekang		8 26.4 92°05'	0°3'/26.7	17		449305	2013 <i>EQ</i> ₁₂₀		8 26.4 136°31'	3°9'/31.1	18	
7 20	22 47.27												

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
312707	2010 <i>PV</i> ₂₅	8 26.4 222°77		3°8/ 2.9 16			291103	2005 <i>YU</i> ₁₆₀	8 26.4 68°36		4°7/31.3 18		
7 20	22 36.86	+11 42.6	4.727	5.428	8.3	20.0	7 20	22 43.13	+ 5 30.9	2.324	3.095	14.2	20.4
7 30	22 33.56	+11 56.6	4.626	5.426	7.2	19.9	7 30	22 39.15	+ 5 49.7	2.240	3.099	11.8	20.2
8 9	22 29.45	+12 0.7	4.546	5.423	5.9	19.8	8 9	22 33.51	+ 5 52.2	2.176	3.102	9.1	20.1
8 19	22 24.76	+11 54.6	4.491	5.420	4.7	19.7	8 19	22 26.64	+ 5 38.4	2.137	3.106	6.4	19.9
8 29	22 19.80	+11 38.8	4.463	5.417	3.9	19.7	8 29	22 19.18	+ 5 9.6	2.123	3.110	4.8	19.8
9 8	22 14.88	+11 14.8	4.463	5.414	3.9	19.7	9 8	22 11.89	+ 4 29.3	2.137	3.114	5.4	19.9
9 18	22 10.35	+10 44.3	4.491	5.411	4.7	19.7	9 18	22 5.49	+ 3 42.0	2.178	3.118	7.8	20.0
9 28	22 6.50	+10 9.6	4.546	5.408	5.9	19.8	9 28	22 0.60	+ 2 52.8	2.244	3.122	10.5	20.2
39918	2005 <i>YL</i> ₁₆	8 26.4 238°12		8°7/ 4.1 17			443908	2002 <i>GA</i> ₄₈	8 26.4 30°09		6°6/21.8 18		
7 20	22 47.88	+17 50.0	2.675	3.343	14.7	20.6	7 20	22 51.10	-27 43.3	1.809	2.670	14.1	20.0
7 30	22 42.81	+19 3.3	2.575	3.335	13.2	20.4	7 30	22 45.67	-28 14.7	1.758	2.681	11.2	19.9
8 9	22 35.97	+19 59.6	2.494	3.327	11.5	20.3	8 9	22 37.90	-28 40.8	1.728	2.692	8.4	19.7
8 19	22 27.74	+20 35.5	2.434	3.319	9.9	20.2	8 19	22 28.51	-28 55.0	1.723	2.703	6.7	19.6
8 29	22 18.73	+20 49.2	2.400	3.311	8.9	20.1	8 29	22 18.59	-28 51.8	1.743	2.715	7.2	19.7
9 8	22 9.70	+20 41.2	2.390	3.302	8.7	20.1	9 8	22 9.29	-28 28.6	1.789	2.728	9.5	19.9
9 18	22 1.43	+20 14.0	2.407	3.294	9.6	20.1	9 18	22 1.60	-27 46.0	1.859	2.741	12.3	20.1
9 28	21 54.62	+19 32.5	2.447	3.285	11.1	20.2	9 28	21 56.23	-26 46.6	1.951	2.754	14.8	20.3
478786	2012 <i>UV</i> ₁₃₉	8 26.4 196°88		1°2/27.5 18			451772	2013 <i>GP</i> ₂₄	8 26.4 45°14		4°5/31.5 18		
7 20	22 48.12	- 5 42.7	2.136	2.954	13.8	21.6	7 20	22 40.76	+ 6 14.4	2.127	2.905	15.1	21.5
7 30	22 43.13	- 5 41.4	2.050	2.953	10.8	21.4	7 30	22 37.48	+ 6 6.5	2.047	2.912	12.5	21.3
8 9	22 36.20	- 5 50.9	1.986	2.950	7.4	21.2	8 9	22 32.47	+ 5 38.7	1.987	2.918	9.6	21.1
8 19	22 27.82	- 6 9.2	1.947	2.948	3.7	20.9	8 19	22 26.21	+ 4 51.9	1.951	2.925	6.6	21.0
8 29	22 18.73	- 6 33.2	1.936	2.945	1.4	20.8	8 29	22 19.35	+ 3 48.8	1.940	2.932	4.6	20.9
9 8	22 9.84	- 6 58.9	1.954	2.941	4.8	21.0	9 8	22 12.70	+ 2 34.6	1.956	2.939	5.4	20.9
9 18	22 1.99	- 7 22.4	1.999	2.937	8.5	21.2	9 18	22 6.99	+ 1 15.7	2.000	2.946	8.0	21.1
9 28	21 55.90	- 7 40.3	2.069	2.933	11.8	21.4	9 28	22 2.87	- 0 1.5	2.069	2.953	10.9	21.3
482160	2010 <i>TV</i> ₇₉	8 26.4 123°80		5°6/20.9 18			104563	2000 <i>GL</i> ₇₂	8 26.4 189°33		0°1/26.6 17		
7 20	22 47.95	-26 24.5	2.280	3.134	11.8	21.2	7 20	22 47.10	- 6 56.7	1.967	2.797	14.4	21.0
7 30	22 42.93	-27 14.5	2.218	3.138	9.3	21.0	7 30	22 42.54	- 7 29.4	1.885	2.796	11.2	20.8
8 9	22 35.99	-28 1.8	2.179	3.141	7.0	20.9	8 9	22 35.92	- 8 15.0	1.825	2.795	7.4	20.6
8 19	22 27.68	-28 40.6	2.166	3.145	5.6	20.8	8 19	22 27.75	- 9 10.0	1.789	2.793	3.3	20.3
8 29	22 18.80	-29 5.5	2.180	3.148	6.3	20.9	8 29	22 18.82	-10 9.0	1.782	2.791	1.1	20.1
9 8	22 10.28	-29 13.1	2.221	3.152	8.4	21.0	9 8	22 10.09	-11 5.9	1.803	2.788	5.4	20.4
9 18	22 2.93	-29 2.4	2.287	3.155	10.8	21.2	9 18	22 2.47	-11 55.3	1.850	2.785	9.4	20.7
9 28	21 57.42	-28 34.4	2.375	3.158	13.1	21.3	9 28	21 56.74	-12 33.4	1.922	2.781	12.8	20.9
400500	2008 <i>JH</i> ₃₆	8 26.4 136°33		3°9/21.7 18			234723	2002 <i>JR</i> ₁₃₆	8 26.4 349°62		2°5/24.4 18		
7 20	22 44.31	-20 49.3	2.565	3.417	10.7	21.4	7 20	22 45.91	-14 11.8	1.677	2.537	15.1	20.2
7 30	22 39.91	-21 53.3	2.501	3.426	8.2	21.2	7 30	22 41.97	-14 50.8	1.605	2.536	11.5	20.0
8 9	22 33.91	-22 58.9	2.462	3.434	5.7	21.1	8 9	22 35.70	-15 38.1	1.555	2.535	7.5	19.7
8 19	22 26.76	-24 0.8	2.451	3.442	4.0	21.0	8 19	22 27.68	-16 28.1	1.530	2.534	3.6	19.5
8 29	22 19.12	-24 53.7	2.467	3.450	4.6	21.0	8 29	22 18.85	-17 14.0	1.530	2.534	3.3	19.5
9 8	22 11.72	-25 33.7	2.512	3.458	6.8	21.2	9 8	22 10.34	-17 49.4	1.557	2.533	7.2	19.7
9 18	22 5.24	-25 58.3	2.583	3.465	9.2	21.4	9 18	22 3.18	-18 10.4	1.608	2.533	11.2	19.9
9 28	22 0.25	-26 7.0	2.677	3.472	11.5	21.5	9 28	21 58.19	-18 14.9	1.682	2.533	14.7	20.2
426167	2012 <i>JN</i>	8 26.4 94°91		12°9/10.0 17			35091	1990 <i>WC</i> ₂	8 26.4 243°94		2°7/29.5 18		
7 20	22 51.94	+25 48.0	1.869	2.503	21.2	20.9	7 20	22 41.51	+ 1 25.2	2.317	3.113	13.5	19.6
7 30	22 46.44	+27 10.3	1.812	2.531	19.3	20.8	7 30	22 37.98	+ 1 3.5	2.224	3.107	10.9	19.4
8 9	22 38.54	+28 2.4	1.768	2.558	17.2	20.7	8 9	22 32.80	+ 0 25.5	2.153	3.101	7.9	19.2
8 19	22 28.86	+28 19.1	1.742	2.585	15.2	20.6	8 19	22 26.37	- 0 27.4	2.106	3.095	4.8	19.0
8 29	22 18.40	+27 58.2	1.735	2.610	13.6	20.6	8 29	22 19.30	- 1 31.7	2.086	3.089	2.7	18.8
9 8	22 8.33	+27 2.2	1.751	2.636	12.9	20.6	9 8	22 12.35	- 2 42.5	2.095	3.082	4.5	18.9
9 18	21 59.73	+25 37.8	1.789	2.660	13.2	20.7	9 18	22 6.23	- 3 54.2	2.131	3.076	7.7	19.1
9 28	21 53.43	+23 54.8	1.849	2.684	14.3	20.8	9 28	22 1.59	- 5 1.2	2.193	3.069	10.8	19.3
210319	2007 <i>TG</i> ₂₂₈	8 26.4 164°19		0°7/25.7 18			2930	<i>Euripides</i>	8 26.4 231°79		1°0/25.6 18		
7 20	22 46.02	-10 17.6	2.240	3.075	12.7	21.7	7 20	22 46.10	-11 20.7	1.980	2.824	13.7	17.5
7 30	22 41.40	-10 45.5	2.163	3.079	9.7	21.6	7 30	22 41.75	-11 43.5	1.902	2.823	10.6	17.3
8 9	22 34.99	-11 22.0	2.108	3.082	6.4	21.4	8 9	22 35.38	-12 15.0	1.845	2.821	6.9	17.1
8 19	22 27.27	-12 3.4	2.080	3.085	2.7	21.1	8 19	22 27.52	-12 51.2	1.814	2.819	2.9	16.8
8 29	22 18.95	-12 45.2	2.079	3.087	1.4	21.0	8 29	22 18.94	-13 27.2	1.810	2.818	1.8	16.8
9 8	22 10.86	-13 22.8	2.107	3.089	5.1	21.3	9 8	22 10.61	-13 58.1	1.834	2.816	5.7	17.0
9 18	22 3.78	-13 52.5	2.163	3.091	8.5	21.5	9 18	22 3.40	-14 19.9	1.884	2.814	9.5	17.2
9 28	21 58.35	-14 11.7	2.243	3.092	11.6	21.7	9 28	21 58.06	-14 30.3	1.958	2.812	12.8	17.5
289005	2004 <i>TM</i> ₇₉	8 26.4 296°64		0°2/26.3 18			191674	2004 <i>RG</i> ₃₅	8 26.4 276°01		2°3/24.5 18		
7 20	22 45.22	- 9 53.7	2.172	3.009	13.0	20.4	7 20	22 45.92	-12 55.9	1.773	2.627	14.6	20.4
7 30	22 40.98	- 9 59.1	2.078	2.994	10.1	20.2	7 30	22 42.11	-13 41.4	1.680	2.608	11.3	20.1
8 9	22 34.84	-10 12.6	2.007	2.980	6.7	20.0	8 9	22 35.94	-14 37.8	1.609	2.588	7.4	19.8
8 19	22 27.26	-10 31.6	1.961	2.966	2.9	19.7	8 19	22 27.89	-15 39.7	1.562	2.567	3.4	19.5
8 29	22 18.94	-10 52.5	1.943	2.952	1.1	19.6	8 29	22 18.79	-16 40.2	1.542	2.547	3.1	19.5
9 8	22 10.73	-11 11.4	1.953	2.938	5.1	19.8	9 8	22 9.76	-17 32.0	1.549	2.526	7.2	19.7
9 18	22 3.48	-11 24.8	1.989	2.924	8.8	20.0	9 18	22 1.88	-18 9.7	1.581	2.505	11.4	19.9
9 28	21 57.92	-11 30.1	2.050	2.910	12.1	20.2	9 28	21 56.11	-18 30.1	1.636	2.484	15.2	20.1
13562	<i>Bobeggleton</i>	8 26.4 211°89		0°2/26.7 18			240670	2005 <i>EK</i> ₈₈	8 26.4 221°36		0°7/25.7 18		
7 20	22 42.51	- 7 12.9	2.734										

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
165066	2000 <i>ES</i> ₁₉₉		8 26.4 257°14	3°9/30.1	18		62423	2000 <i>SM</i> ₁₈₄		8 26.4 98°48	0°1/26.5	18	
7 20	22 44.79	+ 2 51.9	2.205	2.991	14.4	20.4	7 20	22 42.12	- 6 16.8	2.142	2.974	13.3	19.3
7 30	22 40.72	+ 2 56.7	2.100	2.973	11.9	20.2	7 30	22 38.53	- 7 3.5	2.066	2.979	10.3	19.1
8 9	22 34.76	+ 2 45.1	2.015	2.955	8.9	20.0	8 9	22 33.18	- 8 3.1	2.012	2.984	6.8	18.9
8 19	22 27.30	+ 2 17.1	1.954	2.936	5.9	19.8	8 19	22 26.56	- 9 11.7	1.984	2.988	3.0	18.7
8 29	22 19.01	+ 1 34.7	1.919	2.917	3.9	19.6	8 29	22 19.34	-10 23.8	1.984	2.993	1.0	18.5
9 8	22 10.72	+ 0 41.9	1.913	2.897	5.3	19.7	9 8	22 12.34	-11 33.5	2.012	2.998	4.9	18.8
9 18	22 3.28	- 0 16.2	1.934	2.877	8.4	19.8	9 18	22 6.29	-12 35.3	2.067	3.002	8.5	19.0
9 28	21 57.46	- 1 13.7	1.980	2.856	11.7	20.0	9 28	22 1.86	-13 25.4	2.147	3.007	11.6	19.3
509653	2008 <i>GL</i> ₆₆		8 26.4 348°03	7°8/18.4	18		223815	2004 <i>TU</i> ₉₄		8 26.5 227°67	0°1/26.3	18	
7 20	22 47.90	-32 9.4	2.138	2.994	12.5	21.1	7 20	22 43.27	- 8 41.5	2.826	3.649	10.6	21.4
7 30	22 43.21	-33 20.0	2.081	2.993	10.3	20.9	7 30	22 39.04	- 9 6.7	2.730	3.639	8.2	21.3
8 9	22 36.36	-34 24.3	2.047	2.992	8.5	20.8	8 9	22 33.36	- 9 39.8	2.659	3.629	5.4	21.1
8 19	22 27.93	-35 15.0	2.037	2.992	7.8	20.8	8 19	22 26.61	-10 18.3	2.614	3.618	2.3	20.8
8 29	22 18.84	-35 45.6	2.053	2.991	8.7	20.8	8 29	22 19.32	-10 58.8	2.598	3.607	0.9	20.7
9 8	22 10.12	-35 52.7	2.094	2.991	10.5	21.0	9 8	22 12.12	-11 37.6	2.612	3.596	4.1	20.9
9 18	22 2.71	-35 36.0	2.158	2.990	12.7	21.1	9 18	22 5.63	-12 11.5	2.654	3.584	7.1	21.1
9 28	21 57.36	-34 57.4	2.241	2.990	14.8	21.3	9 28	22 0.39	-12 37.7	2.723	3.572	9.8	21.3
440411	2005 <i>QS</i> ₂₈		8 26.4 14°75	2°1/27.9	18		343150	2009 <i>FX</i> ₇₃		8 26.5 192°42	9°2/16.9	18	
7 20	22 46.74	- 4 58.1	1.782	2.612	15.6	20.6	7 20	22 57.81	-40 34.4	2.443	3.262	12.2	21.1
7 30	22 42.39	- 4 36.7	1.707	2.615	12.4	20.4	7 30	22 50.68	-41 35.6	2.388	3.261	10.7	21.0
8 9	22 35.88	- 4 27.6	1.652	2.617	8.6	20.2	8 9	22 41.19	-42 25.0	2.356	3.259	9.5	21.0
8 19	22 27.75	- 4 29.2	1.621	2.620	4.5	19.9	8 19	22 30.01	-42 55.4	2.347	3.256	9.3	20.9
8 29	22 18.89	- 4 39.0	1.617	2.624	2.1	19.8	8 29	22 18.21	-43 1.1	2.365	3.253	9.9	21.0
9 8	22 10.32	- 4 52.9	1.639	2.628	5.3	20.0	9 8	22 6.94	-42 40.3	2.406	3.250	11.3	21.1
9 18	22 3.00	- 5 6.8	1.687	2.632	9.3	20.3	9 18	21 57.24	-41 54.2	2.471	3.246	13.0	21.2
9 28	21 57.70	- 5 17.0	1.759	2.637	12.9	20.5	9 28	21 49.87	-40 46.4	2.556	3.241	14.6	21.3
45041	1999 <i>XE</i> ₁₀		8 26.4 227°84	0°9/27.1	18 R		252844	2002 <i>GL</i> ₁₂₈		8 26.5 168°04	1°6/28.2	18	
7 20	22 49.85	- 7 4.4	1.631	2.468	16.5	19.0	7 20	22 43.26	- 2 53.2	2.572	3.378	12.0	21.0
7 30	22 45.12	- 7 2.4	1.549	2.463	13.0	18.8	7 30	22 39.10	- 3 7.1	2.487	3.381	9.5	20.9
8 9	22 37.89	- 7 13.2	1.488	2.459	8.8	18.5	8 9	22 33.42	- 3 32.5	2.425	3.383	6.6	20.7
8 19	22 28.71	- 7 34.2	1.451	2.454	4.1	18.2	8 19	22 26.64	- 4 7.5	2.388	3.385	3.5	20.5
8 29	22 18.57	- 8 1.0	1.439	2.448	1.3	18.0	8 29	22 19.34	- 4 49.1	2.380	3.386	1.6	20.3
9 8	22 8.66	- 8 28.3	1.455	2.443	6.0	18.3	9 8	22 12.20	- 5 33.3	2.400	3.388	4.0	20.5
9 18	22 0.14	- 8 51.1	1.496	2.437	10.6	18.6	9 18	22 5.86	- 6 16.3	2.449	3.389	7.1	20.7
9 28	21 53.94	- 9 5.5	1.560	2.431	14.6	18.8	9 28	22 0.89	- 6 54.3	2.523	3.390	9.9	20.9
255270	2005 <i>VV</i> ₄₉		8 26.4 192°75	8°1/7.6	18		105200	2000 <i>OD</i> ₄₀		8 26.5 329°00	6°9/30.5	18	
7 20	22 43.90	+23 38.2	3.241	3.852	13.2	21.7	7 20	22 39.89	+ 2 23.7	1.068	1.920	22.3	18.9
7 30	22 39.46	+24 17.6	3.142	3.850	12.0	21.5	7 30	22 38.67	+ 3 15.1	0.987	1.899	18.7	18.6
8 9	22 33.62	+24 39.0	3.060	3.847	10.7	21.4	8 9	22 34.38	+ 3 41.9	0.921	1.880	14.4	18.3
8 19	22 26.72	+24 40.0	2.998	3.844	9.4	21.3	8 19	22 27.46	+ 3 40.5	0.873	1.861	9.9	18.0
8 29	22 19.26	+24 19.9	2.960	3.840	8.4	21.3	8 29	22 18.99	+ 3 10.7	0.845	1.843	7.0	17.8
9 8	22 11.86	+23 39.8	2.946	3.836	8.1	21.2	9 8	22 10.52	+ 2 18.0	0.838	1.827	8.8	17.8
9 18	22 5.10	+22 42.5	2.958	3.831	8.5	21.3	9 18	22 3.67	+ 1 12.0	0.851	1.813	13.5	18.0
9 28	21 59.54	+21 32.7	2.995	3.826	9.5	21.3	9 28	21 59.82	+ 0 4.4	0.883	1.800	18.5	18.3
82254	2001 <i>KL</i> ₇		8 26.4 172°83	3°7/29.5	18		149583	2004 <i>BK</i> ₁₀₅		8 26.5 256°60	0°8/25.8	18	
7 20	22 45.79	+ 1 31.1	1.661	2.472	17.4	19.9	7 20	22 46.87	- 8 57.5	1.702	2.547	15.6	21.0
7 30	22 41.90	+ 1 26.2	1.582	2.473	14.1	19.7	7 30	22 42.91	- 9 35.8	1.610	2.531	12.1	20.8
8 9	22 35.70	+ 1 0.5	1.522	2.474	10.3	19.4	8 9	22 36.52	-10 28.4	1.539	2.514	8.0	20.5
8 19	22 27.74	+ 0 15.2	1.485	2.475	6.3	19.2	8 19	22 28.19	-11 30.9	1.492	2.497	3.4	20.2
8 29	22 18.91	- 0 45.8	1.473	2.475	3.7	19.1	8 29	22 18.78	-12 36.9	1.472	2.480	1.8	20.0
9 8	22 10.31	- 1 55.9	1.487	2.476	5.9	19.2	9 8	22 9.44	-13 38.6	1.479	2.462	6.5	20.3
9 18	22 2.98	- 3 7.5	1.528	2.476	9.8	19.4	9 18	22 1.30	-14 29.5	1.511	2.444	11.1	20.5
9 28	21 57.79	- 4 13.3	1.592	2.475	13.7	19.7	9 28	21 55.33	-15 5.3	1.566	2.425	15.2	20.7
311997	2007 <i>MW</i> ₂		8 26.4 268°28	1°3/28.9	16		479128	2013 <i>BH</i> ₂₈		8 26.5 110°91	4°5/21.9	18	
7 20	22 36.60	- 1 57.2	4.455	5.245	7.6	21.0	7 20	22 47.60	-22 36.3	2.274	3.127	11.9	21.1
7 30	22 33.42	- 2 4.8	4.357	5.240	6.0	20.9	7 30	22 42.61	-23 25.8	2.215	3.138	9.2	20.9
8 9	22 29.41	- 2 19.2	4.283	5.234	4.3	20.7	8 9	22 35.78	-24 15.3	2.180	3.150	6.5	20.8
8 19	22 24.81	- 2 39.4	4.236	5.229	2.4	20.6	8 19	22 27.66	-24 59.0	2.171	3.160	4.6	20.7
8 29	22 19.94	- 3 4.0	4.219	5.223	1.3	20.5	8 29	22 19.02	-25 31.7	2.190	3.171	5.2	20.7
9 8	22 15.13	- 3 31.1	4.231	5.217	2.5	20.6	9 8	22 10.75	-25 49.6	2.236	3.182	7.4	20.9
9 18	22 10.72	- 3 58.7	4.272	5.212	4.3	20.7	9 18	22 3.61	-25 51.3	2.308	3.192	10.1	21.1
9 28	22 7.02	- 4 24.8	4.341	5.206	6.1	20.8	9 28	21 58.24	-25 37.0	2.402	3.202	12.5	21.3
62743	2000 <i>UA</i> ₁		8 26.4 23°56	9°8/5.1	18		142717	2002 <i>TC</i> ₂₇₀		8 26.5 14°99	2°8/28.8	18	
7 20	22 42.09	+16 5.8	1.643	2.382	20.3	18.3	7 20	22 44.41	- 1 29.0	1.772	2.593	16.0	20.1
7 30	22 39.17	+16 45.1	1.567	2.385	17.9	18.1	7 30	22 40.66	- 1 23.8	1.695	2.595	12.9	19.9
8 9	22 33.97	+16 55.1	1.506	2.388	15.1	17.9	8 9	22 34.80	- 1 34.8	1.637	2.596	9.2	19.7
8 19	22 27.00	+16 32.5	1.463	2.391	12.4	17.8	8 19	22 27.33	- 2 0.8	1.603	2.598	5.3	19.4
8 29	22 19.16	+15 36.9	1.442	2.395	10.3	17.7	8 29	22 19.11	- 2 38.3	1.595	2.600	2.8	19.3
9 8	22 11.54	+14 12.7	1.445	2.400	9.9	17.6	9 8	22 11.13	- 3 22.1	1.613	2.602	5.4	19.5
9 18	22 5.17	+12 28.4	1.471	2.404	11.4	17.7	9 18	22 4.34	- 4 6.6	1.657	2.605	9.3	19.7
9 28	22 0.92	+10 34.8	1.520	2.409	13.9	17.9	9 28	21 59.51	- 4 46.2	1.725	2.607	12.9	19.9
415416	2013 <i>PR</i> ₆₂		8 2										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
399831	2005 <i>TF</i> ₁₂₀		8 26.5 40°24'	4.0°/23.2	18		318452	2005 <i>EA</i> ₃		8 26.5 142°31'	0.4°/26.7	17	
7 20	22 47.33	-19 57.3	1.891	2.752	13.6	20.6	7 20	22 51.01	-7 53.1	1.607	2.446	16.7	21.8
7 30	22 42.74	-20 32.3	1.830	2.759	10.4	20.4	7 30	22 45.92	-8 2.5	1.537	2.452	13.0	21.5
8 9	22 36.03	-21 9.1	1.790	2.766	7.1	20.2	8 9	22 38.34	-8 24.6	1.487	2.459	8.7	21.3
8 19	22 27.81	-21 42.1	1.776	2.774	4.4	20.0	8 19	22 28.90	-8 55.8	1.461	2.465	3.9	21.0
8 29	22 18.98	-22 5.4	1.789	2.782	4.7	20.1	8 29	22 18.64	-9 31.1	1.462	2.471	1.2	20.9
9 8	22 10.56	-22 15.0	1.828	2.790	7.6	20.3	9 8	22 8.76	-10 4.3	1.489	2.476	6.0	21.2
9 18	22 3.46	-22 9.1	1.892	2.799	10.8	20.5	9 18	22 0.37	-10 30.7	1.542	2.481	10.5	21.5
9 28	21 58.38	-21 47.6	1.979	2.807	13.7	20.7	9 28	21 54.34	-10 46.7	1.618	2.485	14.4	21.7
22400	1995 <i>CC</i>		8 26.5 257°47'	1.6°/24.7	18		317576	2002 <i>VQ</i> ₁₄₃		8 26.5 279°74'	4.4°/21.2	18	
7 20	22 43.03	-12 53.3	2.381	3.225	11.7	18.8	7 20	22 42.99	-22 50.5	2.566	3.423	10.6	20.5
7 30	22 39.13	-13 31.9	2.298	3.220	9.0	18.6	7 30	22 39.06	-23 49.0	2.491	3.416	8.2	20.3
8 9	22 33.56	-14 17.5	2.237	3.214	5.8	18.4	8 9	22 33.50	-24 48.4	2.440	3.409	5.9	20.2
8 19	22 26.74	-15 6.3	2.204	3.208	2.6	18.2	8 19	22 26.73	-25 43.5	2.415	3.402	4.4	20.1
8 29	22 19.33	-15 53.5	2.198	3.203	2.2	18.2	8 29	22 19.38	-26 28.9	2.418	3.396	5.1	20.1
9 8	22 12.08	-16 34.4	2.221	3.197	5.4	18.4	9 8	22 12.21	-27 0.7	2.449	3.389	7.2	20.2
9 18	22 5.70	-17 5.5	2.270	3.191	8.6	18.6	9 18	22 5.91	-27 16.7	2.505	3.382	9.7	20.4
9 28	22 0.83	-17 24.6	2.344	3.185	11.4	18.8	9 28	22 1.09	-27 16.2	2.584	3.375	11.9	20.5
365128	2009 <i>DF</i> ₂₂		8 26.5 24°10'	0.9°/25.8	17		510685	2012 <i>UB</i> ₆₇		8 26.5 288°15'	3.1°/23.5	18	
7 20	22 39.93	-6 54.6	0.945	1.835	21.5	19.9	7 20	22 42.95	-13 19.6	1.726	2.589	14.6	20.9
7 30	22 38.55	-7 52.1	0.899	1.843	16.6	19.7	7 30	22 39.82	-14 35.7	1.645	2.577	11.2	20.6
8 9	22 34.01	-9 13.5	0.869	1.854	10.8	19.4	8 9	22 34.43	-16 4.2	1.585	2.566	7.3	20.4
8 19	22 27.12	-10 50.4	0.858	1.865	4.5	19.1	8 19	22 27.27	-17 38.1	1.550	2.554	3.7	20.1
8 29	22 19.22	-12 30.1	0.869	1.878	2.2	19.0	8 29	22 19.18	-19 8.6	1.542	2.542	4.0	20.1
9 8	22 11.96	-13 58.8	0.903	1.892	8.3	19.4	9 8	22 11.23	-20 27.0	1.561	2.531	7.8	20.3
9 18	22 6.71	-15 6.8	0.957	1.907	13.9	19.8	9 18	22 4.45	-21 27.0	1.604	2.520	11.8	20.6
9 28	22 4.43	-15 48.9	1.030	1.924	18.5	20.1	9 28	21 59.73	-22 5.3	1.669	2.508	15.4	20.8
453233	2008 <i>LK</i> ₁₄		8 26.5 355°28'	14.7°/6.6	16		164078	2003 <i>WK</i> ₉₄		8 26.5 134°23'	0.2°/26.3	18	
7 20	22 40.33	-43 5.3	1.514	2.380	16.1	20.3	7 20	22 46.53	-8 59.3	1.903	2.743	14.4	20.4
7 30	22 38.93	-45 55.9	1.483	2.373	15.0	20.2	7 30	22 42.15	-9 16.8	1.827	2.745	11.2	20.2
8 9	22 34.39	-48 28.2	1.473	2.367	14.7	20.1	8 9	22 35.71	-9 44.8	1.773	2.747	7.4	20.0
8 19	22 27.36	-50 28.9	1.484	2.363	15.4	20.2	8 19	22 27.74	-10 19.9	1.744	2.748	3.2	19.7
8 29	22 19.10	-51 47.9	1.515	2.360	16.8	20.3	8 29	22 19.06	-10 57.3	1.741	2.750	1.2	19.6
9 8	22 11.26	-52 21.4	1.562	2.358	18.5	20.4	9 8	22 10.64	-11 31.8	1.767	2.752	5.4	19.9
9 18	22 5.34	-52 11.3	1.625	2.358	20.2	20.5	9 18	22 3.40	-11 59.1	1.818	2.754	9.4	20.1
9 28	22 2.42	-51 23.1	1.701	2.359	21.7	20.7	9 28	21 58.08	-12 16.1	1.893	2.755	12.8	20.3
278581	2008 <i>JL</i> ₆		8 26.5 261°20'	0.8°/25.6	18		218201	2002 <i>TM</i> ₁₈₃		8 26.5 313°50'	1.3°/27.5	18	
7 20	22 41.79	-8 52.7	2.248	3.087	12.5	21.0	7 20	22 43.28	-5 22.8	1.660	2.503	16.0	20.4
7 30	22 38.30	-9 45.0	2.161	3.079	9.6	20.7	7 30	22 40.18	-5 28.0	1.567	2.483	12.7	20.1
8 9	22 33.09	-10 48.6	2.097	3.072	6.3	20.5	8 9	22 34.76	-5 48.2	1.493	2.464	8.8	19.8
8 19	22 26.57	-11 59.6	2.059	3.064	2.7	20.3	8 19	22 27.47	-6 21.4	1.443	2.445	4.3	19.5
8 29	22 19.39	-13 12.3	2.049	3.057	1.6	20.2	8 29	22 19.15	-7 3.3	1.418	2.426	1.5	19.3
9 8	22 12.34	-14 20.8	2.067	3.049	5.2	20.4	9 8	22 10.89	-7 47.9	1.418	2.408	5.8	19.5
9 18	22 6.16	-15 20.1	2.113	3.041	8.7	20.6	9 18	22 3.77	-8 29.2	1.444	2.391	10.4	19.8
9 28	22 1.53	-16 6.5	2.183	3.033	11.8	20.8	9 28	21 58.75	-9 1.7	1.492	2.374	14.6	20.0
433838	2015 <i>BO</i> ₂₄₉		8 26.5 114°18'	0.4°/26.8	17		307567	2003 <i>FB</i> ₂₅		8 26.5 88°89'	0.1°/26.5	17	
7 20	22 48.05	-6 32.7	1.731	2.565	15.8	21.5	7 20	22 48.46	-6 35.9	1.326	2.178	18.7	20.9
7 30	22 43.40	-7 0.4	1.665	2.578	12.3	21.3	7 30	22 44.31	-7 15.3	1.269	2.193	14.5	20.6
8 9	22 36.54	-7 42.1	1.620	2.591	8.2	21.1	8 9	22 37.43	-8 12.8	1.232	2.207	9.6	20.4
8 19	22 28.07	-8 33.6	1.600	2.604	3.7	20.8	8 19	22 28.55	-9 22.5	1.217	2.222	4.2	20.1
8 29	22 18.91	-9 29.2	1.607	2.616	1.1	20.7	8 29	22 18.84	-10 36.1	1.227	2.236	1.4	20.0
9 8	22 10.14	-10 22.4	1.641	2.627	5.6	21.0	9 8	22 9.67	-11 44.4	1.262	2.250	6.8	20.4
9 18	22 2.71	-11 7.8	1.701	2.639	9.8	21.3	9 18	22 2.24	-12 40.1	1.322	2.264	11.7	20.7
9 28	21 57.40	-11 41.4	1.785	2.650	13.4	21.5	9 28	21 57.42	-13 18.8	1.404	2.277	15.8	21.0
128060	2003 <i>NJ</i> ₃		8 26.5 352°36'	10.8°/7.1	17		104985	2000 <i>JB</i> ₇₉		8 26.5 251°89'	5.0°/31.6	18	
7 20	22 44.44	+21 54.9	2.285	2.942	17.2	19.2	7 20	22 42.81	+6 40.8	2.113	2.885	15.4	20.1
7 30	22 40.51	+23 14.6	2.198	2.940	15.7	19.1	7 30	22 39.23	+6 45.2	2.020	2.879	12.9	19.9
8 9	22 34.66	+24 12.5	2.128	2.939	14.0	19.0	8 9	22 33.80	+6 30.1	1.946	2.872	10.0	19.7
8 19	22 27.30	+24 44.3	2.076	2.937	12.4	18.9	8 19	22 26.95	+5 55.0	1.896	2.866	7.1	19.5
8 29	22 19.14	+24 47.7	2.046	2.936	11.2	18.8	8 29	22 19.36	+5 1.9	1.871	2.859	5.1	19.4
9 8	22 11.02	+24 23.4	2.039	2.935	10.8	18.8	9 8	22 11.87	+3 55.3	1.873	2.853	5.8	19.4
9 18	22 3.81	+23 34.8	2.055	2.935	11.3	18.8	9 18	22 5.31	+2 41.2	1.902	2.846	8.5	19.6
9 28	21 58.29	+22 28.3	2.093	2.935	12.6	18.9	9 28	22 0.40	+1 26.4	1.956	2.839	11.5	19.7
215678	2003 <i>WR</i>		8 26.5 348°93'	7.6°/21.6	18		76209	2000 <i>ES</i> ₆₁		8 26.5 318°16'	4.2°/30.5	18	
7 20	22 41.23	-21 12.2	0.978	1.886	19.4	19.3	7 20	22 39.26	+4 11.6	1.667	2.477	17.4	18.6
7 30	22 39.94	-22 21.8	0.921	1.876	15.1	19.0	7 30	22 37.04	+3 52.2	1.572	2.460	14.4	18.3
8 9	22 35.22	-23 36.9	0.882	1.867	10.8	18.8	8 9	22 32.67	+3 7.9	1.496	2.444	10.8	18.1
8 19	22 27.76	-24 45.6	0.862	1.860	7.8	18.6	8 19	22 26.55	+1 58.8	1.441	2.428	6.9	17.8
8 29	22 18.99	-25 34.4	0.863	1.854	8.9	18.6	8 29	22 19.48	+0 29.0	1.412	2.412	4.3	17.6
9 8	22 10.74	-25 53.9	0.885	1.850	12.9	18.8	9 8	22 12.46	-1 14.2	1.408	2.397	5.9	17.7
9 18	22 4.61	-25 40.9	0.925	1.848	17.5	19.1	9 18	22 6.51	-3 1.2	1.429	2.383	9.9	17.9
9 28	22 1.76	-24 57.1	0.981	1.847	21.6	19.3	9 28	22 2.53	-4 42.2	1.475	2.369	13.9	18.1
485503	2011 <i>ST</i> ₂₃₃		8 26.5 21°54'	9.0°/5.2	18		223359	2003 <i>SE</i> ₃		8 26.5 343°70'	2.7°/24.2		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
349118	2007 <i>GK</i> ₇₄		8 26.5 61°28	0°5/26.8	18		109947	2001 <i>SM</i> ₄₄		8 26.5 348°82	2°3/24.9	18	
7 20	22 53.59	- 9 6.0	1.492	2.334	17.5	19.6	7 20	22 38.55	-11 7.7	1.095	1.987	19.0	18.6
7 30	22 47.74	- 8 51.6	1.442	2.360	13.5	19.4	7 30	22 37.42	-11 52.0	1.029	1.976	14.7	18.3
8 9	22 39.37	- 8 47.9	1.413	2.385	9.0	19.2	8 9	22 33.36	-12 53.5	0.980	1.967	9.6	18.0
8 19	22 29.28	- 8 52.0	1.407	2.411	4.0	19.0	8 19	22 26.97	-14 5.3	0.952	1.959	4.2	17.6
8 29	22 18.64	- 8 59.4	1.427	2.436	1.2	18.9	8 29	22 19.40	-15 17.1	0.947	1.953	3.4	17.6
9 8	22 8.71	- 9 5.8	1.474	2.462	6.0	19.3	9 8	22 12.15	-16 17.9	0.963	1.949	8.7	17.9
9 18	22 0.54	- 9 7.7	1.547	2.488	10.3	19.6	9 18	22 6.62	-16 59.7	1.001	1.946	14.0	18.1
9 28	21 54.88	- 9 2.7	1.643	2.513	14.0	19.9	9 28	22 3.89	-17 18.1	1.057	1.945	18.7	18.4
166908	2003 <i>AH</i> ₈₂		8 26.5 195°82	16°5/16.5	16		374744	2006 <i>SP</i> ₁₅₉		8 26.5 312°59	1°9/25.3	18	
7 20	23 10.17	-44 4.0	1.265	2.103	20.3	20.0	7 20	22 44.03	-11 33.0	1.252	2.128	18.2	21.3
7 30	23 2.64	-45 46.7	1.223	2.102	18.3	19.9	7 30	22 41.66	-12 0.2	1.163	2.102	14.2	20.9
8 9	22 50.27	-47 7.7	1.199	2.100	16.8	19.8	8 9	22 36.28	-12 42.4	1.093	2.076	9.5	20.6
8 19	22 34.27	-47 50.4	1.193	2.098	16.5	19.8	8 19	22 28.34	-13 34.5	1.044	2.050	4.2	20.2
8 29	22 16.97	-47 42.5	1.208	2.095	17.4	19.8	8 29	22 18.89	-14 28.3	1.018	2.025	2.9	20.1
9 8	22 1.13	-46 42.0	1.241	2.092	19.3	19.9	9 8	22 9.42	-15 14.5	1.016	2.001	8.5	20.3
9 18	21 48.86	-44 56.3	1.293	2.088	21.6	20.1	9 18	22 1.48	-15 45.4	1.036	1.978	14.0	20.6
9 28	21 41.27	-42 37.3	1.360	2.083	23.8	20.3	9 28	21 56.35	-15 56.5	1.075	1.955	19.0	20.8
414392	2008 <i>YK</i> ₁₁₆		8 26.5 216°34	2°9/24.2	17		214631	2006 <i>RH</i> ₉₉		8 26.5 8°28	3°9/23.6	18	
7 20	22 48.24	-12 53.4	1.466	2.328	16.8	21.6	7 20	22 49.93	-20 3.6	1.853	2.710	14.0	20.0
7 30	22 44.24	-13 54.5	1.392	2.324	12.9	21.3	7 30	22 44.88	-20 27.2	1.783	2.710	10.8	19.8
8 9	22 37.53	-15 8.5	1.340	2.320	8.4	21.0	8 9	22 37.56	-20 52.4	1.735	2.711	7.3	19.6
8 19	22 28.69	-16 28.1	1.310	2.315	4.0	20.8	8 19	22 28.58	-21 13.5	1.713	2.711	4.4	19.4
8 29	22 18.79	-17 43.8	1.307	2.310	3.8	20.8	8 29	22 18.89	-21 25.1	1.717	2.712	4.6	19.4
9 8	22 9.16	-18 46.7	1.329	2.305	8.3	21.0	9 8	22 9.59	-21 23.2	1.748	2.713	7.6	19.6
9 18	22 1.06	-19 30.5	1.376	2.299	12.8	21.3	9 18	22 1.67	-21 6.2	1.804	2.714	11.1	19.8
9 28	21 55.51	-19 52.6	1.443	2.293	16.8	21.5	9 28	21 55.91	-20 34.4	1.883	2.715	14.2	20.0
178123	2006 <i>TT</i> ₃₀		8 26.5 139°27	0°6/27.0	18		66284	1999 <i>JU</i> ₁₅		8 26.5 337°61	7°0/21.8	18	
7 20	22 43.98	- 6 13.3	2.064	2.895	13.8	21.4	7 20	22 41.67	-19 54.5	1.026	1.929	19.0	16.3
7 30	22 40.07	- 6 35.1	1.984	2.895	10.7	21.2	7 30	22 40.26	-21 5.5	0.962	1.915	14.9	16.0
8 9	22 34.30	- 7 9.1	1.926	2.895	7.2	21.0	8 9	22 35.49	-22 24.8	0.916	1.901	10.4	15.7
8 19	22 27.14	- 7 52.2	1.893	2.896	3.3	20.7	8 19	22 27.98	-23 41.0	0.890	1.889	7.2	15.5
8 29	22 19.33	- 8 40.2	1.887	2.896	1.0	20.5	8 29	22 19.06	-24 40.7	0.885	1.877	8.3	15.5
9 8	22 11.73	- 9 27.7	1.909	2.897	4.9	20.8	9 8	22 10.51	-25 13.2	0.901	1.868	12.5	15.7
9 18	22 5.14	-10 10.1	1.958	2.897	8.6	21.1	9 18	22 3.96	-25 13.6	0.936	1.859	17.3	15.9
9 28	22 0.25	-10 43.4	2.031	2.897	11.9	21.3	9 28	22 0.65	-24 42.7	0.988	1.853	21.6	16.2
26070	4240 <i>T</i> ₃		8 26.5 210°67	3°5/23.6	18		311952	2007 <i>DX</i> ₁₂		8 26.5 77°14	2°0/28.4	18	
7 20	22 47.99	-15 36.4	1.636	2.497	15.3	20.2	7 20	22 45.28	- 3 7.3	2.237	3.048	13.5	20.4
7 30	22 43.76	-16 34.8	1.564	2.495	11.8	20.0	7 30	22 40.84	- 3 2.2	2.162	3.058	10.7	20.3
8 9	22 37.05	-17 41.9	1.513	2.492	7.8	19.7	8 9	22 34.68	- 3 8.9	2.109	3.067	7.5	20.1
8 19	22 28.43	-18 50.5	1.486	2.489	4.2	19.5	8 19	22 27.28	- 3 26.0	2.081	3.077	4.1	19.9
8 29	22 18.90	-19 52.3	1.486	2.485	4.4	19.5	8 29	22 19.34	- 3 50.6	2.081	3.087	2.0	19.8
9 8	22 9.65	-20 40.0	1.512	2.482	8.1	19.7	9 8	22 11.65	- 4 18.9	2.109	3.097	4.4	20.0
9 18	22 1.82	-21 9.1	1.563	2.478	12.1	20.0	9 18	22 4.95	- 4 47.2	2.164	3.107	7.7	20.2
9 28	21 56.30	-21 18.1	1.635	2.473	15.7	20.2	9 28	21 59.85	- 5 11.6	2.245	3.116	10.7	20.4
140733	2001 <i>UR</i> ₉₉		8 26.5 255°74	0°1/26.5	18		394163	2006 <i>QN</i> ₆₈		8 26.5 291°82	0°1/26.6	18	
7 20	22 43.51	- 7 36.4	2.151	2.984	13.2	20.7	7 20	22 42.62	- 6 34.5	1.927	2.765	14.3	21.4
7 30	22 39.71	- 8 7.0	2.063	2.977	10.2	20.5	7 30	22 39.25	- 7 13.5	1.842	2.758	11.1	21.2
8 9	22 34.08	- 8 49.0	1.999	2.970	6.8	20.3	8 9	22 33.90	- 8 6.6	1.779	2.752	7.4	21.0
8 19	22 27.07	- 9 39.3	1.959	2.963	3.0	20.0	8 19	22 27.03	- 9 10.1	1.741	2.745	3.3	20.7
8 29	22 19.36	-10 33.1	1.947	2.956	1.0	19.9	8 29	22 19.40	-10 18.5	1.729	2.738	1.1	20.5
9 8	22 11.80	-11 25.0	1.963	2.949	5.0	20.1	9 8	22 11.93	-11 25.1	1.745	2.732	5.4	20.8
9 18	22 5.18	-12 10.3	2.006	2.941	8.7	20.3	9 18	22 5.49	-12 24.0	1.788	2.726	9.4	21.1
9 28	22 0.20	-12 45.3	2.074	2.934	12.0	20.5	9 28	22 0.84	-13 10.6	1.854	2.719	12.9	21.3
521364	2015 <i>MK</i> ₁₃₉		8 26.5 34°34	1°7/28.0	18		432742	2011 <i>EN</i> ₅		8 26.5 220°52	0°1/26.5	17	
7 20	22 43.40	- 3 7.3	1.875	2.701	15.1	21.6	7 20	22 47.15	- 7 19.1	1.860	2.694	14.9	22.5
7 30	22 39.80	- 3 24.6	1.798	2.703	12.0	21.4	7 30	22 42.84	- 7 50.6	1.773	2.687	11.6	22.3
8 9	22 34.21	- 3 57.5	1.742	2.706	8.3	21.1	8 9	22 36.33	- 8 35.6	1.708	2.680	7.7	22.1
8 19	22 27.13	- 4 43.4	1.709	2.709	4.3	20.9	8 19	22 28.12	- 9 30.6	1.668	2.672	3.4	21.8
8 29	22 19.36	- 5 37.8	1.704	2.712	1.7	20.7	8 29	22 19.04	-10 29.8	1.655	2.664	1.2	21.6
9 8	22 11.82	- 6 34.8	1.725	2.714	5.0	21.0	9 8	22 10.11	-11 26.9	1.669	2.655	5.7	21.9
9 18	22 5.38	- 7 28.7	1.773	2.718	8.9	21.2	9 18	22 2.31	-12 16.2	1.710	2.645	9.9	22.1
9 28	22 0.78	- 8 14.4	1.844	2.721	12.5	21.4	9 28	21 56.51	-12 53.3	1.775	2.636	13.6	22.3
67799	2000 <i>UT</i> ₁₀₉		8 26.5 0°95	3°6/30.2	18		228359	2000 <i>TZ</i> ₆₆		8 26.5 222°04	2°8/23.9	18	
7 20	22 40.48	+ 2 56.7	1.932	2.735	15.6	19.0	7 20	22 47.40	-15 10.7	1.937	2.789	13.7	20.5
7 30	22 37.54	+ 2 42.0	1.849	2.734	12.7	18.8	7 30	22 42.96	-15 57.9	1.857	2.783	10.5	20.3
8 9	22 32.72	+ 2 7.6	1.787	2.734	9.4	18.6	8 9	22 36.35	-16 52.4	1.799	2.777	6.9	20.1
8 19	22 26.49	+ 1 14.5	1.747	2.734	5.9	18.4	8 19	22 28.11	-17 48.6	1.767	2.770	3.5	19.9
8 29	22 19.57	+ 0 6.7	1.734	2.734	3.6	18.2	8 29	22 19.06	-18 40.0	1.762	2.763	3.5	19.9
9 8	22 12.83	- 1 10.1	1.747	2.735	5.2	18.3	9 8	22 10.22	-19 20.7	1.785	2.756	7.0	20.1
9 18	22 7.09	- 2 28.8	1.787	2.736	8.5	18.5	9 18	22 2.54	-19 46.9	1.834	2.748	10.6	20.3
9 28	22 3.07	- 3 42.6	1.851	2.737	11.9	18.7	9 28	21 56.83	-19 56.6	1.905	2.740	13.9	20.5
102445	1999 <i>TF</i> ₂₁₆		8 26.5 296°54	2°9/24.1	18		120121	Libbyadelman		8 26.5 164°8			

EPHEMERIDES

8 26.5

8 26.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
436885	2012 <i>TL</i> ₃₀		8 26.5 356°06	7.2/ 2.3 16			371894	2008 <i>CT</i> ₁₂₂		8 26.5 152°81	0.1/26.6 17		
7 20	22 35.50	+ 9 53.9	1.267	2.078	21.8	20.6	7 20	22 48.29	- 6 45.5	1.796	2.628	15.4	22.3
7 30	22 34.65	+ 9 49.1	1.192	2.072	18.5	20.3	7 30	22 43.64	- 7 19.7	1.722	2.635	12.0	22.1
8 9	22 31.32	+ 9 9.0	1.133	2.068	14.7	20.1	8 9	22 36.80	- 8 7.8	1.671	2.642	8.0	21.9
8 19	22 26.04	+ 7 52.0	1.092	2.065	10.7	19.8	8 19	22 28.31	- 9 5.8	1.644	2.648	3.5	21.6
8 29	22 19.75	+ 6 1.7	1.073	2.064	7.6	19.7	8 29	22 19.07	-10 7.7	1.644	2.653	1.1	21.5
9 8	22 13.69	+ 3 48.0	1.077	2.063	7.9	19.7	9 8	22 10.13	-11 6.8	1.672	2.658	5.6	21.8
9 18	22 9.03	+ 1 24.8	1.104	2.065	11.2	19.9	9 18	22 2.46	-11 57.5	1.726	2.662	9.8	22.1
9 28	22 6.74	- 0 53.2	1.154	2.067	15.3	20.1	9 28	21 56.84	-12 35.7	1.804	2.666	13.4	22.3
189532	2000 <i>QK</i> ₇₈		8 26.5 320°38	0.5/26.8 18			504879	2010 <i>VU</i> ₁₀₄		8 26.5 272°90	5.7/22.1 17		
7 20	22 46.01	- 9 15.6	1.350	2.212	17.9	19.3	7 20	22 48.10	-19 54.9	1.481	2.354	16.0	21.6
7 30	22 42.95	- 9 0.2	1.258	2.187	14.2	19.0	7 30	22 44.26	-21 5.7	1.409	2.345	12.4	21.3
8 9	22 37.00	- 8 56.3	1.185	2.162	9.6	18.7	8 9	22 37.63	-22 22.5	1.358	2.335	8.7	21.1
8 19	22 28.63	- 9 1.6	1.133	2.138	4.4	18.3	8 19	22 28.81	-23 36.4	1.330	2.326	5.9	20.9
8 29	22 18.86	- 9 11.8	1.106	2.115	1.4	18.0	8 29	22 18.88	-24 37.2	1.327	2.316	6.7	20.9
9 8	22 9.09	- 9 21.5	1.102	2.093	7.0	18.3	9 8	22 9.23	-25 17.1	1.349	2.307	10.2	21.1
9 18	22 0.76	- 9 25.6	1.122	2.071	12.5	18.6	9 18	22 1.16	-25 31.9	1.394	2.297	14.2	21.3
9 28	21 55.10	- 9 20.1	1.163	2.051	17.3	18.8	9 28	21 55.69	-25 21.8	1.459	2.287	17.7	21.5
298255	2002 <i>VS</i> ₈₇		8 26.5 298°90	2.0/28.1 18			90300	2003 <i>EJ</i> ₄₀		8 26.5 35°40	3.6/22.6 18		
7 20	22 44.41	- 3 40.5	1.854	2.681	15.2	20.4	7 20	22 41.02	- 8 38.6	1.425	2.291	16.9	18.6
7 30	22 40.80	- 3 39.3	1.758	2.664	12.2	20.2	7 30	22 38.64	-11 17.3	1.362	2.298	12.8	18.3
8 9	22 35.06	- 3 52.6	1.683	2.647	8.5	19.9	8 9	22 33.82	-14 18.3	1.323	2.306	8.1	18.1
8 19	22 27.61	- 4 18.8	1.631	2.630	4.6	19.7	8 19	22 27.10	-17 28.9	1.309	2.314	4.1	17.9
8 29	22 19.23	- 4 54.5	1.606	2.613	2.0	19.5	8 29	22 19.47	-20 32.9	1.324	2.323	5.0	18.0
9 8	22 10.92	- 5 34.9	1.607	2.597	5.3	19.6	9 8	22 12.12	-23 14.9	1.367	2.332	9.3	18.2
9 18	22 3.64	- 6 14.5	1.635	2.580	9.5	19.9	9 18	22 6.18	-25 25.0	1.434	2.342	13.5	18.5
9 28	21 58.27	- 6 48.3	1.686	2.564	13.3	20.1	9 28	22 2.56	-26 59.0	1.523	2.352	17.1	18.8
325851	2010 <i>TU</i> ₅₂		8 26.5 265°70	1.6/28.3 18			429523	2011 <i>BV</i> ₆₅		8 26.5 163°13	1.9/24.8 17		
7 20	22 42.06	- 2 18.9	2.311	3.123	13.0	21.5	7 20	22 49.05	-12 50.0	1.988	2.830	13.8	22.0
7 30	22 38.51	- 2 41.9	2.216	3.113	10.4	21.3	7 30	22 44.05	-13 33.6	1.915	2.836	10.5	21.8
8 9	22 33.26	- 3 19.0	2.142	3.102	7.3	21.0	8 9	22 36.97	-14 25.5	1.865	2.841	6.9	21.6
8 19	22 26.74	- 4 8.1	2.094	3.092	3.9	20.8	8 19	22 28.36	-15 20.5	1.841	2.845	3.1	21.4
8 29	22 19.54	- 5 5.7	2.074	3.081	1.7	20.6	8 29	22 19.06	-16 12.7	1.844	2.849	2.6	21.4
9 8	22 12.44	- 6 6.7	2.081	3.070	4.4	20.8	9 8	22 10.05	-16 56.4	1.876	2.852	6.2	21.6
9 18	22 6.16	- 7 5.9	2.117	3.059	7.9	21.0	9 18	22 2.23	-17 27.6	1.935	2.854	9.9	21.9
9 28	22 1.36	- 7 58.8	2.177	3.048	11.0	21.2	9 28	21 56.34	-17 44.3	2.017	2.856	13.1	22.1
454857	2015 <i>SS</i> ₁₀		8 26.5 307°17	1.1/27.5 18			243847	2000 <i>VA</i> ₆₂		8 26.5 315°14	15.1/21.7 18		
7 20	22 43.13	- 5 18.9	2.035	2.865	14.0	21.2	7 20	23 18.71	-42 53.6	1.255	2.084	21.0	18.8
7 30	22 39.55	- 5 30.2	1.945	2.855	11.0	21.0	7 30	23 9.45	-43 24.6	1.184	2.064	18.6	18.6
8 9	22 34.07	- 5 54.2	1.877	2.844	7.5	20.8	8 9	22 54.94	-43 32.2	1.129	2.046	16.4	18.4
8 19	22 27.12	- 6 28.6	1.832	2.834	3.7	20.5	8 19	22 36.44	-42 59.2	1.095	2.027	15.2	18.3
8 29	22 19.42	- 7 9.6	1.815	2.824	1.3	20.3	8 29	22 16.44	-41 32.7	1.082	2.010	15.6	18.2
9 8	22 11.84	- 7 52.2	1.825	2.814	4.9	20.6	9 8	21 57.98	-39 11.9	1.093	1.993	17.7	18.3
9 18	22 5.23	- 8 31.6	1.862	2.804	8.7	20.8	9 18	21 43.39	-36 7.4	1.126	1.976	20.7	18.5
9 28	22 0.33	- 9 3.6	1.922	2.795	12.2	21.0	9 28	21 33.88	-32 35.8	1.179	1.961	23.8	18.6
444214	2005 <i>TY</i> ₇₈		8 26.5 300°30	1.0/25.6 17			94454	2001 <i>TG</i> ₁₀₆		8 26.5 294°16	1.4/25.7 18		
7 20	22 43.95	-11 5.4	2.013	2.860	13.4	22.0	7 20	22 47.50	-11 0.0	1.287	2.154	18.3	19.3
7 30	22 40.27	-11 31.0	1.921	2.844	10.4	21.8	7 30	22 44.25	-11 21.3	1.201	2.134	14.3	19.0
8 9	22 34.59	-12 6.1	1.851	2.828	6.8	21.5	8 9	22 37.94	-11 56.8	1.135	2.115	9.5	18.6
8 19	22 27.37	-12 46.9	1.806	2.812	2.9	21.2	8 19	22 29.08	-12 41.7	1.090	2.096	4.1	18.3
8 29	22 19.33	-13 28.5	1.789	2.796	1.8	21.1	8 29	22 18.77	-13 28.4	1.069	2.077	2.4	18.1
9 8	22 11.39	-14 5.4	1.798	2.780	5.7	21.4	9 8	22 8.54	-14 8.4	1.072	2.058	8.0	18.4
9 18	22 4.45	-14 33.5	1.834	2.765	9.6	21.6	9 18	21 59.89	-14 34.8	1.098	2.039	13.5	18.6
9 28	21 59.29	-14 49.6	1.893	2.750	13.1	21.7	9 28	21 54.08	-14 43.7	1.144	2.020	18.4	18.9
93656	2000 <i>UW</i> ₉₉		8 26.5 269°68	0.9/25.8 18			506939	2008 <i>GC</i> ₉₂		8 26.5 144°75	1.6/27.9 17		
7 20	22 47.32	-10 34.2	1.868	2.712	14.5	20.0	7 20	22 47.35	- 2 47.5	1.844	2.663	15.6	22.1
7 30	22 43.08	-10 56.9	1.773	2.693	11.3	19.8	7 30	22 42.85	- 3 14.7	1.770	2.671	12.3	21.9
8 9	22 36.58	-11 30.0	1.699	2.675	7.4	19.5	8 9	22 36.24	- 3 58.3	1.717	2.680	8.5	21.7
8 19	22 28.29	-12 9.9	1.651	2.656	3.2	19.2	8 19	22 28.06	- 4 55.5	1.688	2.687	4.3	21.5
8 29	22 19.01	-12 51.2	1.629	2.637	1.7	19.1	8 29	22 19.17	- 6 1.0	1.686	2.695	1.6	21.3
9 8	22 9.80	-13 28.2	1.634	2.617	6.1	19.3	9 8	22 10.57	- 7 8.1	1.713	2.701	5.2	21.6
9 18	22 1.69	-13 56.0	1.665	2.598	10.4	19.5	9 18	22 3.17	- 8 10.7	1.766	2.707	9.2	21.8
9 28	21 55.58	-14 11.5	1.720	2.578	14.1	19.7	9 28	21 57.73	- 9 3.5	1.843	2.713	12.8	22.0
321992	2010 <i>UY</i> ₆₅		8 26.5 20°09	0.9/25.9 17			86357	1999 <i>XF</i> ₁₂₃		8 26.5 349°37	2.2/28.0 18		
7 20	22 44.61	-10 3.2	1.039	1.923	20.4	20.1	7 20	22 43.34	- 5 9.6	1.590	2.434	16.5	17.9
7 30	22 42.03	-10 19.6	0.987	1.929	15.8	19.9	7 30	22 40.21	- 4 45.5	1.509	2.425	13.2	17.7
8 9	22 36.30	-10 51.8	0.952	1.936	10.4	19.6	8 9	22 34.75	- 4 34.6	1.448	2.416	9.2	17.4
8 19	22 28.20	-11 34.1	0.938	1.944	4.4	19.3	8 19	22 27.50	- 4 35.7	1.409	2.409	4.9	17.2
8 29	22 19.10	-12 17.9	0.945	1.954	2.1	19.2	8 29	22 19.35	- 4 46.0	1.396	2.403	2.3	17.0
9 8	22 10.62	-12 54.3	0.975	1.964	7.9	19.6	9 8	22 11.40	- 5 1.1	1.408	2.398	5.7	17.2
9 18	22 4.15	-13 17.2	1.027	1.976	13.3	19.9	9 18	22 4.72	- 5 16.4	1.444	2.394	10.1	17.4
9 28	22 0.68	-13 23.1	1.098	1.989	17.9	20.2	9 28	22 0.19	- 5 27.4	1.503	2.392	14.0	17.7
170717	2004 <i>BH</i> <												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
22014	1999 XQ ₉₆		8 26.5 254°84	6°4/10.1	18		277280	2005 SA ₇₇		8 26.5 256°31	3°1/24.2	17	
7 20	22 38.22	+27 29.9	4.812	5.368	9.6	17.9	7 20	22 49.60	-16 3.4	1.701	2.558	15.1	21.1
7 30	22 34.79	+28 3.7	4.707	5.361	8.9	17.8	7 30	22 45.01	-16 37.0	1.620	2.548	11.6	20.9
8 9	22 30.45	+28 24.3	4.619	5.354	8.1	17.7	8 9	22 37.94	-17 17.4	1.560	2.538	7.7	20.6
8 19	22 25.43	+28 30.6	4.551	5.347	7.3	17.7	8 19	22 28.93	-17 58.6	1.525	2.528	4.0	20.4
8 29	22 20.07	+28 21.8	4.505	5.339	6.7	17.6	8 29	22 18.94	-18 34.0	1.516	2.517	3.8	20.4
9 8	22 14.74	+27 58.8	4.483	5.332	6.4	17.6	9 8	22 9.19	-18 57.5	1.534	2.507	7.6	20.6
9 18	22 9.79	+27 22.8	4.486	5.325	6.5	17.6	9 18	22 0.79	-19 5.5	1.576	2.496	11.7	20.8
9 28	22 5.60	+26 36.6	4.513	5.317	7.0	17.6	9 28	21 54.69	-18 56.8	1.641	2.485	15.4	21.0
293967	2007 TU ₄₅		8 26.5 239°70	2°4/29.0	18		200730	2001 VV ₅₃		8 26.5 284°75	0°5/26.8	17 R	
7 20	22 43.25	+ 0 7.1	2.157	2.960	14.1	20.8	7 20	22 48.11	- 7 32.4	1.332	2.188	18.5	20.2
7 30	22 39.56	- 0 14.9	2.063	2.952	11.4	20.6	7 30	22 44.54	- 7 38.7	1.249	2.174	14.6	19.9
8 9	22 34.04	- 0 53.5	1.990	2.943	8.2	20.4	8 9	22 38.02	- 8 1.0	1.184	2.160	9.9	19.6
8 19	22 27.13	- 1 47.2	1.941	2.934	4.7	20.2	8 19	22 29.10	- 8 36.1	1.142	2.146	4.5	19.2
8 29	22 19.50	- 2 52.2	1.920	2.925	2.4	20.0	8 29	22 18.86	- 9 18.1	1.123	2.132	1.4	19.0
9 8	22 11.95	- 4 3.1	1.927	2.915	4.7	20.2	9 8	22 8.75	- 9 59.5	1.129	2.118	7.1	19.3
9 18	22 5.30	- 5 13.7	1.961	2.906	8.2	20.4	9 18	22 0.19	-10 33.4	1.159	2.105	12.5	19.6
9 28	22 0.27	- 6 18.5	2.021	2.896	11.6	20.5	9 28	21 54.36	-10 54.6	1.209	2.091	17.2	19.8
476041	2007 RX ₂₈₀		8 26.5 297°04	6°0/30.7	18		400729	2009 SJ ₂₂₉		8 26.5 324°17	3°2/24.4	17	
7 20	22 46.95	+ 4 2.3	1.817	2.607	16.9	20.5	7 20	22 48.78	-18 37.3	1.815	2.674	14.2	20.0
7 30	22 42.90	+ 4 51.8	1.719	2.590	14.2	20.2	7 30	22 44.36	-18 41.4	1.720	2.649	11.0	19.8
8 9	22 36.55	+ 5 24.9	1.639	2.573	11.1	20.0	8 9	22 37.53	-18 47.5	1.647	2.624	7.5	19.5
8 19	22 28.34	+ 5 39.5	1.582	2.556	7.9	19.8	8 19	22 28.78	-18 51.1	1.598	2.600	4.0	19.3
8 29	22 19.07	+ 5 35.5	1.550	2.539	6.0	19.6	8 29	22 19.02	-18 47.0	1.576	2.577	3.8	19.2
9 8	22 9.79	+ 5 15.4	1.544	2.522	7.1	19.7	9 8	22 9.38	-18 31.3	1.580	2.554	7.4	19.4
9 18	22 1.56	+ 4 43.7	1.564	2.505	10.2	19.8	9 18	22 0.99	-18 2.0	1.610	2.532	11.3	19.6
9 28	21 55.35	+ 4 6.6	1.606	2.489	13.6	20.0	9 28	21 54.76	-17 19.1	1.662	2.511	15.0	19.7
237918	2002 PK ₁₂₄		8 26.5 9°10	1°2/27.6	18		517989	2015 UY ₃₂		8 26.5 232°36	0°7/25.7	18	
7 20	22 41.79	- 3 59.1	1.559	2.404	16.8	19.9	7 20	22 42.92	-10 20.5	2.711	3.543	10.8	22.4
7 30	22 38.98	- 4 26.0	1.488	2.405	13.2	19.6	7 30	22 38.91	-10 52.9	2.620	3.534	8.3	22.2
8 9	22 33.91	- 5 11.1	1.436	2.406	9.0	19.4	8 9	22 33.42	-11 32.9	2.553	3.526	5.4	22.0
8 19	22 27.12	- 6 10.9	1.406	2.409	4.4	19.1	8 19	22 26.83	-12 17.5	2.512	3.517	2.3	21.8
8 29	22 19.52	- 7 19.5	1.402	2.411	1.4	18.9	8 29	22 19.69	-13 2.7	2.501	3.508	1.3	21.7
9 8	22 12.19	- 8 28.9	1.424	2.415	5.7	19.2	9 8	22 12.65	-13 44.7	2.518	3.499	4.4	21.9
9 18	22 6.15	- 9 32.0	1.471	2.418	10.2	19.5	9 18	22 6.35	-14 19.9	2.563	3.490	7.5	22.1
9 28	22 2.22	-10 22.9	1.540	2.423	14.1	19.8	9 28	22 1.35	-14 45.8	2.634	3.480	10.2	22.3
22661	1998 QP ₁₇		8 26.5 50°65	0°1/26.5	18 R		428221	2006 VY ₁₂₃		8 26.5 162°29	0°6/27.1	17	
7 20	22 48.91	- 7 41.0	1.169	2.032	20.0	18.3	7 20	22 48.75	- 6 2.1	1.953	2.776	14.7	22.2
7 30	22 44.73	- 8 6.3	1.129	2.059	15.4	18.1	7 30	22 43.86	- 6 24.1	1.875	2.782	11.5	22.0
8 9	22 37.70	- 8 48.3	1.107	2.085	10.1	17.9	8 9	22 36.89	- 6 59.0	1.820	2.787	7.7	21.8
8 19	22 28.70	- 9 40.9	1.107	2.113	4.4	17.6	8 19	22 28.39	- 7 43.6	1.789	2.792	3.6	21.5
8 29	22 19.05	-10 35.9	1.131	2.140	1.5	17.5	8 29	22 19.18	- 8 33.1	1.786	2.795	1.1	21.4
9 8	22 10.21	-11 24.8	1.179	2.168	6.9	18.0	9 8	22 10.22	- 9 21.8	1.812	2.799	5.2	21.7
9 18	22 3.36	-12 1.7	1.251	2.196	11.8	18.3	9 18	22 2.43	-10 4.9	1.864	2.801	9.1	21.9
9 28	21 59.27	-12 23.0	1.344	2.224	15.9	18.6	9 28	21 56.56	-10 38.3	1.941	2.803	12.6	22.1
392809	2012 TG ₂₄₁		8 26.5 256°45	3°3/23.7	18		870	Manto		8 26.5 6°15	4°4/23.3	18 R	
7 20	22 47.80	-17 9.8	1.925	2.780	13.6	21.6	7 20	22 31.44	-12 31.5	0.785	1.707	21.3	13.4
7 30	22 43.34	-17 50.6	1.843	2.770	10.5	21.4	7 30	22 32.58	-13 53.0	0.742	1.707	16.2	13.1
8 9	22 36.67	-18 36.7	1.783	2.759	7.0	21.2	8 9	22 30.47	-15 34.1	0.715	1.709	10.5	12.8
8 19	22 28.32	-19 22.7	1.748	2.749	3.9	21.0	8 19	22 25.82	-17 22.3	0.706	1.713	5.3	12.5
8 29	22 19.12	-20 2.2	1.740	2.738	4.0	21.0	8 29	22 20.04	-19 1.2	0.717	1.720	5.8	12.6
9 8	22 10.12	-20 29.7	1.760	2.728	7.3	21.1	9 8	22 14.84	-20 16.2	0.747	1.730	11.1	12.9
9 18	22 2.30	-20 42.0	1.805	2.717	10.9	21.3	9 18	22 11.68	-20 59.2	0.795	1.742	16.4	13.3
9 28	21 56.49	-20 37.7	1.872	2.705	14.2	21.5	9 28	22 11.55	-21 8.0	0.859	1.757	20.9	13.6
169787	2002 PH ₁₃₇		8 26.5 297°41	0°8/25.9	18		45406	2000 AG ₁₄₂		8 26.5 282°06	4°8/30.0	18	
7 20	22 46.32	-10 53.3	1.807	2.655	14.7	19.8	7 20	22 47.79	+ 1 59.2	1.930	2.723	15.9	19.0
7 30	22 42.29	-11 9.6	1.722	2.645	11.4	19.6	7 30	22 43.41	+ 2 38.5	1.830	2.707	13.2	18.7
8 9	22 36.03	-11 35.6	1.659	2.635	7.5	19.3	8 9	22 36.83	+ 3 3.0	1.750	2.691	10.0	18.5
8 19	22 28.05	-12 7.5	1.620	2.626	3.2	19.1	8 19	22 28.48	+ 3 11.5	1.694	2.674	6.8	18.3
8 29	22 19.21	-12 40.3	1.608	2.616	1.7	18.9	8 29	22 19.15	+ 3 4.6	1.663	2.658	4.8	18.1
9 8	22 10.55	-13 8.6	1.623	2.607	6.0	19.2	9 8	22 9.82	+ 2 45.2	1.660	2.641	6.2	18.2
9 18	22 3.08	-13 28.1	1.663	2.598	10.2	19.4	9 18	22 1.50	+ 2 17.5	1.682	2.625	9.5	18.4
9 28	21 57.63	-13 36.0	1.726	2.589	13.9	19.6	9 28	21 55.10	+ 1 46.9	1.729	2.608	13.0	18.5
514348	2016 PM ₉₄		8 26.5 280°18	1°9/28.2	18		233775	2008 TO ₁₅₈		8 26.5 280°87	2°2/28.7	18	
7 20	22 44.02	- 2 49.6	1.883	2.706	15.2	21.9	7 20	22 42.24	+ 0 4.7	1.789	2.608	16.0	20.3
7 30	22 40.40	- 3 2.7	1.795	2.699	12.1	21.7	7 30	22 39.16	- 0 32.6	1.703	2.602	12.9	20.1
8 9	22 34.73	- 3 31.5	1.729	2.691	8.4	21.4	8 9	22 33.99	- 1 30.8	1.636	2.595	9.1	19.9
8 19	22 27.47	- 4 14.1	1.686	2.684	4.5	21.2	8 19	22 27.21	- 2 47.5	1.593	2.589	5.0	19.6
8 29	22 19.40	- 5 6.4	1.669	2.676	1.9	21.0	8 29	22 19.59	- 4 17.3	1.577	2.583	2.2	19.4
9 8	22 11.47	- 6 2.6	1.680	2.669	5.1	21.2	9 8	22 12.10	- 5 52.3	1.587	2.577	5.3	19.6
9 18	22 4.60	- 6 56.8	1.716	2.662	9.2	21.4	9 18	22 5.70	- 7 24.2	1.624	2.571	9.4	19.8
9 28	21 59.58	- 7 43.5	1.777	2.654	12.8	21.6	9 28	22 1.19	- 8 45.8	1.685	2.565	13.2	20.0
385445	2003 QH ₉₁		8 26.5 127°12	0°1/27.6	13 C		504458	2008 CZ ₁₈₉		8 26.5 166°90	8°8/ 2.4	18 R	
7 20	22 24.00	- 7 2.5	4										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
317239	2002 <i>CJ</i> ₂₀₈		8 26.5 232°73	0°6/26.1	17		256456	2007 <i>CX</i> ₅₄		8 26.5 108°52	5°1/	1.7	18
7 20	22 48.12	- 8 29.9	1.587	2.433	16.5	21.7	7 20	22 43.78	+ 9 3.7	2.561	3.303	13.7	20.5
7 30	22 44.04	- 9 6.4	1.503	2.425	12.8	21.5	7 30	22 39.56	+ 9 14.0	2.483	3.318	11.6	20.4
8 9	22 37.41	- 9 58.0	1.441	2.416	8.5	21.2	8 9	22 33.83	+ 9 7.1	2.426	3.333	9.2	20.3
8 19	22 28.77	-11 0.1	1.402	2.407	3.7	20.9	8 19	22 27.02	+ 8 43.0	2.392	3.347	6.8	20.1
8 29	22 19.07	-12 5.6	1.389	2.398	1.6	20.7	8 29	22 19.72	+ 8 3.2	2.385	3.362	5.2	20.1
9 8	22 9.53	-13 6.7	1.403	2.388	6.6	21.0	9 8	22 12.63	+ 7 11.2	2.406	3.375	5.5	20.1
9 18	22 1.34	-13 56.7	1.442	2.377	11.4	21.3	9 18	22 6.37	+ 6 11.5	2.454	3.389	7.3	20.2
9 28	21 55.49	-14 31.1	1.503	2.367	15.5	21.5	9 28	22 1.50	+ 5 9.4	2.528	3.403	9.6	20.4
355583	2008 <i>CL</i> ₁₁₃		8 26.5 145°95	1°2/25.4	18		44119	1998 <i>HN</i> ₃₂		8 26.5 25°90	3°7/29.4	18	
7 20	22 46.36	-12 11.6	2.245	3.084	12.5	21.4	7 20	22 42.34	+ 0 57.6	1.205	2.049	20.8	18.2
7 30	22 41.77	-12 35.8	2.169	3.088	9.6	21.3	7 30	22 39.97	+ 0 46.9	1.144	2.055	16.8	17.9
8 9	22 35.40	-13 7.0	2.117	3.091	6.2	21.1	8 9	22 34.87	+ 0 9.2	1.099	2.062	12.1	17.7
8 19	22 27.72	-13 41.4	2.090	3.095	2.7	20.8	8 19	22 27.67	- 0 53.2	1.074	2.069	7.1	17.5
8 29	22 19.47	-14 14.6	2.092	3.098	1.8	20.8	8 29	22 19.50	- 2 14.0	1.072	2.078	3.7	17.3
9 8	22 11.45	-14 42.5	2.121	3.101	5.2	21.0	9 8	22 11.74	- 3 43.0	1.094	2.086	6.6	17.5
9 18	22 4.45	-15 1.8	2.178	3.104	8.6	21.2	9 18	22 5.62	- 5 9.5	1.139	2.096	11.4	17.8
9 28	21 59.10	-15 10.5	2.260	3.107	11.6	21.4	9 28	22 2.11	- 6 24.2	1.206	2.106	15.9	18.1
453997	2012 <i>CJ</i> ₄₀		8 26.5 145°29	1°1/25.3	18		2193	Jackson		8 26.5 58°40	5°4/21.4	18	
7 20	22 42.08	-10 17.1	2.444	3.281	11.7	21.6	7 20	22 47.62	-24 55.4	2.118	2.976	12.4	15.2
7 30	22 38.39	-11 8.3	2.366	3.284	8.9	21.5	7 30	22 42.91	-25 45.1	2.059	2.983	9.7	15.1
8 9	22 33.14	-12 8.5	2.311	3.286	5.8	21.3	8 9	22 36.21	-26 33.0	2.023	2.989	7.1	14.9
8 19	22 26.73	-13 13.6	2.284	3.289	2.5	21.0	8 19	22 28.09	-27 13.2	2.012	2.996	5.5	14.8
8 29	22 19.79	-14 18.5	2.284	3.291	1.7	21.0	8 29	22 19.40	-27 39.8	2.028	3.003	6.1	14.9
9 8	22 13.02	-15 18.3	2.314	3.293	4.9	21.2	9 8	22 11.08	-27 49.3	2.070	3.010	8.4	15.1
9 18	22 7.08	-16 8.8	2.371	3.295	8.1	21.4	9 18	22 3.98	-27 40.4	2.138	3.017	11.0	15.2
9 28	22 2.57	-16 47.0	2.453	3.297	10.9	21.6	9 28	21 58.79	-27 14.1	2.227	3.024	13.4	15.4
295094	2008 <i>EU</i> ₁₅₇		8 26.5 157°22	0°7/27.1	17		512721	2016 <i>UF</i> ₁₈		8 26.5 121°48	5°1/31.2	18	
7 20	22 48.52	- 5 41.1	1.853	2.679	15.3	22.2	7 20	22 47.28	+ 5 20.7	2.113	2.884	15.4	21.9
7 30	22 43.80	- 6 7.0	1.777	2.685	11.9	22.0	7 30	22 42.60	+ 5 50.0	2.034	2.892	12.8	21.7
8 9	22 36.93	- 6 46.8	1.723	2.691	8.0	21.8	8 9	22 36.02	+ 6 2.1	1.975	2.900	9.9	21.5
8 19	22 28.45	- 7 37.3	1.694	2.696	3.7	21.5	8 19	22 28.04	+ 5 56.6	1.939	2.908	7.0	21.4
8 29	22 19.23	- 8 33.1	1.692	2.701	1.1	21.4	8 29	22 19.40	+ 5 34.6	1.929	2.916	5.2	21.3
9 8	22 10.28	- 9 28.1	1.718	2.705	5.3	21.7	9 8	22 10.97	+ 4 59.8	1.947	2.923	6.0	21.3
9 18	22 2.56	-10 16.7	1.770	2.709	9.4	21.9	9 18	22 3.58	+ 4 16.8	1.991	2.930	8.5	21.5
9 28	21 56.83	-10 54.7	1.847	2.711	13.0	22.2	9 28	21 57.93	+ 3 31.2	2.061	2.937	11.3	21.7
374793	2006 <i>TM</i> ₇₃		8 26.5 320°75	3°6/24.2	18		199739	2006 <i>HU</i> ₁₂₃		8 26.5 200°05	2°4/24.4	18	
7 20	22 42.71	-14 23.4	1.161	2.049	18.4	21.2	7 20	22 46.89	-14 15.0	1.938	2.789	13.7	21.1
7 30	22 40.89	-15 4.1	1.077	2.023	14.4	20.9	7 30	22 42.55	-14 57.4	1.862	2.788	10.5	20.8
8 9	22 35.95	-15 58.5	1.012	1.997	9.6	20.6	8 9	22 36.12	-15 47.3	1.809	2.786	6.9	20.6
8 19	22 28.35	-16 59.6	0.967	1.973	4.8	20.2	8 19	22 28.12	-16 39.5	1.781	2.785	3.3	20.4
8 29	22 19.20	-17 57.4	0.945	1.949	4.7	20.1	8 29	22 19.38	-17 27.8	1.780	2.783	3.1	20.4
9 8	22 10.07	-18 41.2	0.945	1.926	9.8	20.3	9 8	22 10.88	-18 6.7	1.807	2.781	6.6	20.6
9 18	22 2.59	-19 3.8	0.967	1.905	15.2	20.6	9 18	22 3.55	-18 32.2	1.859	2.778	10.2	20.8
9 28	21 58.10	-19 1.7	1.006	1.885	20.2	20.8	9 28	21 58.14	-18 42.6	1.935	2.776	13.5	21.0
59566	1999 <i>JU</i> ₄₆		8 26.5 153°82	0°6/27.1	18		191308	2003 <i>HX</i> ₃₉		8 26.5 87°60	1°7/27.9	17	
7 20	22 46.66	- 5 39.0	1.942	2.768	14.6	19.9	7 20	22 48.00	- 3 27.5	1.730	2.554	16.3	20.1
7 30	22 42.28	- 6 7.4	1.865	2.774	11.4	19.7	7 30	22 43.38	- 3 40.5	1.668	2.573	12.8	19.9
8 9	22 35.88	- 6 49.5	1.810	2.779	7.7	19.5	8 9	22 36.61	- 4 9.2	1.627	2.591	8.8	19.7
8 19	22 27.98	- 7 41.8	1.781	2.783	3.6	19.2	8 19	22 28.29	- 4 50.5	1.610	2.609	4.5	19.5
8 29	22 19.39	- 8 39.3	1.778	2.787	1.0	19.0	8 29	22 19.35	- 5 39.7	1.619	2.627	1.8	19.4
9 8	22 11.04	- 9 35.9	1.804	2.791	5.1	19.3	9 8	22 10.83	- 6 30.7	1.656	2.645	5.3	19.6
9 18	22 3.82	-10 26.4	1.856	2.795	9.1	19.6	9 18	22 3.64	- 7 17.7	1.719	2.663	9.3	19.9
9 28	21 58.47	-11 6.4	1.933	2.797	12.5	19.8	9 28	21 58.53	- 7 56.2	1.806	2.680	12.8	20.2
501619	2014 <i>SQ</i> ₉₆		8 26.5 15°38	0°4/26.3	17		305409	2008 <i>CV</i> ₉₅		8 26.5 132°63	8°1/	6.9	18
7 20	22 48.74	- 9 15.8	1.131	2.001	20.1	22.1	7 20	22 44.61	+21 6.9	2.808	3.452	14.5	20.9
7 30	22 45.21	- 9 25.4	1.068	2.002	15.7	21.8	7 30	22 40.19	+21 40.0	2.725	3.465	13.0	20.8
8 9	22 38.49	- 9 50.6	1.023	2.003	10.4	21.5	8 9	22 34.27	+21 52.9	2.660	3.477	11.3	20.7
8 19	22 29.30	-10 26.9	0.999	2.005	4.5	21.2	8 19	22 27.24	+21 43.5	2.615	3.489	9.7	20.6
8 29	22 18.95	-11 6.7	0.998	2.007	1.7	21.0	8 29	22 19.68	+21 11.6	2.594	3.500	8.5	20.6
9 8	22 9.08	-11 41.8	1.020	2.010	7.7	21.4	9 8	22 12.28	+20 19.4	2.598	3.512	8.1	20.6
9 18	22 1.17	-12 5.6	1.065	2.012	13.2	21.7	9 18	22 5.67	+19 10.9	2.628	3.522	8.6	20.6
9 28	21 56.29	-12 14.4	1.130	2.016	17.9	22.0	9 28	22 0.42	+17 51.7	2.683	3.532	9.9	20.7
177720	2005 <i>GA</i> ₁₇₅		8 26.5 95°46	2°0/25.0	17		366780	2004 <i>TT</i> ₁₆₀		8 26.5 45°09	4°2/29.7	17	
7 20	22 49.25	-11 53.6	1.502	2.359	16.7	20.9	7 20	22 45.45	+ 1 29.8	1.277	2.109	20.5	20.6
7 30	22 44.73	-12 38.6	1.444	2.372	12.8	20.7	7 30	22 42.31	+ 1 31.1	1.210	2.113	16.6	20.3
8 9	22 37.68	-13 34.6	1.407	2.385	8.3	20.5	8 9	22 36.41	+ 1 6.9	1.160	2.118	12.2	20.1
8 19	22 28.79	-14 35.3	1.393	2.398	3.7	20.3	8 19	22 28.37	+ 0 18.4	1.131	2.123	7.4	19.8
8 29	22 19.14	-15 32.9	1.405	2.411	2.8	20.2	8 29	22 19.31	- 0 49.5	1.124	2.128	4.3	19.7
9 8	22 9.99	-16 20.0	1.444	2.424	7.2	20.5	9 8	22 10.60	- 2 8.1	1.143	2.133	6.8	19.8
9 18	22 2.42	-16 52.0	1.507	2.436	11.5	20.8	9 18	22 3.52	- 3 27.4	1.185	2.139	11.4	20.1
9 28	21 57.28	-17 6.6	1.592	2.448	15.2	21.1	9 28	21 59.06	- 4 38.3	1.248	2.144	15.7	20.4
20259	Alanhoffman		8 26.5 9°69	1°1/27.3	18		295824	2008 <i>UX</i> ₃₄₆		8 26.5 282°70	2°8/23.9	18	

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
218403	2004 QA ₁₈		8 26.6 330°98	9°1/ 3.0 18			255161	2005 UG ₁₉₀		8 26.6 29°11	5°4/ 1.1 18		
7 20	22 42.57	+12 33.1	1.877	2.624	17.8	19.2	7 20	22 42.21	+ 7 5.0	2.004	2.780	16.0	20.2
7 30	22 39.53	+13 41.1	1.780	2.608	15.7	19.0	7 30	22 38.86	+ 7 17.9	1.925	2.784	13.4	20.0
8 9	22 34.36	+14 28.6	1.702	2.592	13.3	18.8	8 9	22 33.65	+ 7 10.6	1.864	2.789	10.5	19.8
8 19	22 27.47	+14 51.7	1.643	2.576	10.9	18.6	8 19	22 27.06	+ 6 42.9	1.826	2.794	7.5	19.7
8 29	22 19.59	+14 48.4	1.607	2.562	9.3	18.5	8 29	22 19.80	+ 5 56.6	1.813	2.799	5.5	19.6
9 8	22 11.69	+14 20.1	1.595	2.548	9.3	18.5	9 8	22 12.73	+ 4 56.3	1.826	2.805	6.1	19.6
9 18	22 4.77	+13 31.4	1.607	2.535	11.0	18.5	9 18	22 6.67	+ 3 48.1	1.866	2.810	8.6	19.8
9 28	21 59.73	+12 29.3	1.641	2.522	13.5	18.7	9 28	22 2.31	+ 2 38.8	1.930	2.816	11.5	20.0
6731	Hiei		8 26.6 256°01	0°8/25.9 18			415588	2014 QP ₃₀₈		8 26.6 64°48	1°1/27.6 18		
7 20	22 47.70	-10 28.7	2.128	2.963	13.3	18.7	7 20	22 45.37	- 6 7.3	2.336	3.156	12.7	21.2
7 30	22 43.16	-10 52.2	2.029	2.944	10.3	18.4	7 30	22 40.95	- 6 5.6	2.257	3.160	9.9	21.0
8 9	22 36.57	-11 25.1	1.952	2.925	6.8	18.2	8 9	22 34.85	- 6 13.4	2.200	3.165	6.8	20.8
8 19	22 28.38	-12 3.9	1.900	2.905	2.9	17.9	8 19	22 27.53	- 6 28.9	2.168	3.169	3.3	20.6
8 29	22 19.31	-12 44.0	1.877	2.885	1.5	17.8	8 29	22 19.66	- 6 49.2	2.165	3.173	1.2	20.5
9 8	22 10.28	-13 20.3	1.882	2.864	5.5	18.0	9 8	22 12.00	- 7 10.7	2.190	3.178	4.3	20.7
9 18	22 2.21	-13 48.7	1.914	2.843	9.4	18.2	9 18	22 5.27	- 7 30.2	2.242	3.182	7.6	20.9
9 28	21 55.90	-14 6.0	1.970	2.821	12.9	18.4	9 28	22 0.08	- 7 44.6	2.320	3.187	10.6	21.1
246182	2007 RS ₄₈		8 26.6 12°14	3°9/24.7 18			270984	2002 WF ₂₈		8 26.6 253°55	0°1/26.7 18		
7 20	22 46.24	-16 50.6	0.879	1.782	21.4	19.2	7 20	22 46.86	- 6 55.9	1.801	2.636	15.3	22.1
7 30	22 43.88	-16 59.4	0.832	1.785	16.5	18.9	7 30	22 42.87	- 7 26.6	1.706	2.621	12.0	21.9
8 9	22 37.84	-17 15.2	0.802	1.790	11.0	18.7	8 9	22 36.58	- 8 12.1	1.633	2.605	8.0	21.6
8 19	22 29.05	-17 30.2	0.790	1.796	5.5	18.4	8 19	22 28.46	- 9 9.0	1.584	2.588	3.6	21.3
8 29	22 19.15	-17 35.6	0.799	1.804	4.8	18.4	8 29	22 19.32	-10 11.6	1.562	2.571	1.1	21.1
9 8	22 10.07	-17 24.9	0.829	1.814	10.0	18.7	9 8	22 10.23	-11 13.0	1.567	2.553	5.9	21.4
9 18	22 3.42	-16 55.9	0.878	1.825	15.3	19.1	9 18	22 2.25	-12 6.9	1.598	2.536	10.3	21.6
9 28	22 0.21	-16 9.3	0.945	1.838	19.9	19.4	9 28	21 56.30	-12 48.3	1.653	2.517	14.3	21.8
216427	2008 WT ₉₄		8 26.6 287°31	11°8/ 4.5 18			168875	2000 WQ ₂₂		8 26.6 229°51	3°2/23.7 18		
7 20	22 48.92	+18 17.0	1.905	2.600	19.2	19.9	7 20	22 48.79	-14 34.8	1.750	2.604	14.8	20.4
7 30	22 44.54	+19 57.5	1.813	2.590	17.3	19.8	7 30	22 44.43	-15 39.5	1.666	2.593	11.4	20.2
8 9	22 37.77	+21 16.4	1.737	2.580	15.3	19.6	8 9	22 37.64	-16 54.5	1.604	2.582	7.6	19.9
8 19	22 29.01	+22 8.1	1.681	2.570	13.4	19.5	8 19	22 28.92	-18 13.1	1.567	2.570	3.9	19.7
8 29	22 19.08	+22 28.3	1.647	2.560	12.1	19.4	8 29	22 19.18	-19 26.8	1.558	2.557	4.1	19.7
9 8	22 9.08	+22 16.8	1.635	2.550	11.9	19.3	9 8	22 9.57	-20 28.0	1.575	2.544	7.9	19.9
9 18	22 0.14	+21 37.1	1.647	2.540	12.9	19.4	9 18	22 1.21	-21 11.0	1.618	2.530	11.9	20.1
9 28	21 53.27	+20 36.7	1.680	2.531	14.7	19.5	9 28	21 55.06	-21 33.6	1.682	2.516	15.5	20.3
516487	2005 UO ₂₈₁		8 26.6 219°57	2°3/29.1 18			289174	2004 VV ₆₄		8 26.6 326°00	6°2/20.3 18		
7 20	22 43.02	- 0 19.0	2.502	3.299	12.6	22.1	7 20	22 43.98	-24 53.1	1.965	2.834	12.8	20.0
7 30	22 39.12	- 0 31.2	2.409	3.294	10.1	22.0	7 30	22 40.50	-26 2.8	1.893	2.822	10.1	19.8
8 9	22 33.66	- 0 56.9	2.338	3.289	7.3	21.8	8 9	22 34.89	-27 12.9	1.843	2.811	7.6	19.6
8 19	22 27.01	- 1 34.7	2.292	3.283	4.2	21.6	8 19	22 27.65	-28 15.9	1.818	2.800	6.2	19.5
8 29	22 19.78	- 2 21.8	2.274	3.278	2.3	21.4	8 29	22 19.61	-29 4.4	1.819	2.790	7.1	19.5
9 8	22 12.65	- 3 13.9	2.284	3.272	4.2	21.5	9 8	22 11.79	-29 33.2	1.846	2.780	9.5	19.7
9 18	22 6.30	- 4 6.7	2.323	3.266	7.2	21.7	9 18	22 5.14	-29 39.9	1.895	2.771	12.4	19.8
9 28	22 1.33	- 4 55.8	2.387	3.260	10.1	21.9	9 28	22 0.45	-29 24.6	1.966	2.762	15.0	20.0
88196	2000 YO ₆₅		8 26.6 315°67	1°6/27.9 18			391591	2007 TK ₄₃₄		8 26.6 299°56	1°1/27.5 18		
7 20	22 42.86	- 4 2.2	1.986	2.813	14.4	19.6	7 20	22 46.51	- 6 2.5	1.899	2.729	14.8	21.1
7 30	22 39.46	- 4 10.2	1.895	2.802	11.4	19.4	7 30	22 42.28	- 6 4.7	1.818	2.727	11.6	20.9
8 9	22 34.13	- 4 32.0	1.826	2.791	7.9	19.2	8 9	22 35.98	- 6 19.0	1.758	2.725	7.9	20.7
8 19	22 27.30	- 5 5.6	1.781	2.780	4.1	18.9	8 19	22 28.10	- 6 43.1	1.722	2.723	3.9	20.4
8 29	22 19.69	- 5 47.3	1.762	2.770	1.6	18.8	8 29	22 19.47	- 7 13.3	1.713	2.722	1.3	20.2
9 8	22 12.20	- 6 32.2	1.770	2.760	4.9	19.0	9 8	22 11.05	- 7 44.6	1.731	2.720	5.1	20.5
9 18	22 5.69	- 7 15.1	1.805	2.750	8.8	19.2	9 18	22 3.76	- 8 12.7	1.776	2.718	9.1	20.7
9 28	22 0.91	- 7 51.4	1.864	2.741	12.3	19.4	9 28	21 58.37	- 8 33.6	1.845	2.716	12.7	20.9
283865	2003 WC ₉₈		8 26.6 293°18	0°7/25.9 18			512937	2017 BA ₁₁		8 26.6 294°54	0°8/27.2 17		
7 20	22 43.37	- 7 51.1	1.850	2.693	14.6	20.4	7 20	22 45.90	- 7 24.2	2.248	3.074	12.9	21.1
7 30	22 40.24	- 8 41.1	1.743	2.663	11.4	20.1	7 30	22 41.55	- 7 20.1	2.155	3.063	10.2	20.9
8 9	22 34.91	- 9 47.2	1.657	2.633	7.6	19.8	8 9	22 35.38	- 7 24.9	2.085	3.052	6.9	20.6
8 19	22 27.76	-11 5.8	1.597	2.602	3.3	19.5	8 19	22 27.82	- 7 36.8	2.040	3.042	3.3	20.4
8 29	22 19.51	-12 30.2	1.563	2.571	1.6	19.3	8 29	22 19.56	- 7 52.8	2.023	3.032	1.0	20.2
9 8	22 11.17	-13 52.6	1.556	2.540	6.2	19.6	9 8	22 11.42	- 8 9.5	2.034	3.021	4.6	20.4
9 18	22 3.76	-15 5.3	1.575	2.509	10.7	19.8	9 18	22 4.21	- 8 23.5	2.072	3.011	8.2	20.6
9 28	21 58.26	-16 2.7	1.618	2.478	14.8	19.9	9 28	21 58.60	- 8 31.9	2.135	3.001	11.4	20.8
49477	1999 BA ₈		8 26.6 272°92	1°2/27.5 18			384906	2012 TL ₃₈		8 26.6 106°75	0°2/26.4 16		
7 20	22 46.10	- 4 58.3	1.693	2.527	16.1	19.0	7 20	22 48.74	- 9 29.3	1.811	2.651	15.0	21.5
7 30	22 42.40	- 5 13.1	1.600	2.512	12.8	18.8	7 30	22 44.01	- 9 40.7	1.740	2.657	11.6	21.3
8 9	22 36.33	- 5 43.8	1.527	2.496	8.8	18.5	8 9	22 37.09	-10 2.3	1.690	2.663	7.7	21.1
8 19	22 28.36	- 6 28.1	1.478	2.480	4.3	18.2	8 19	22 28.57	-10 30.4	1.665	2.670	3.3	20.9
8 29	22 19.34	- 7 21.1	1.455	2.464	1.4	18.0	8 29	22 19.34	-11 0.4	1.667	2.676	1.2	20.7
9 8	22 10.37	- 8 16.3	1.459	2.448	5.8	18.2	9 8	22 10.45	-11 27.2	1.696	2.682	5.6	21.0
9 18	22 2.57	- 9 7.2	1.488	2.431	10.4	18.5	9 18	22 2.83	-11 46.8	1.751	2.688	9.6	21.3
9 28	21 56.90	- 9 48.2	1.540	2.415	14.5	18.7	9 28	21 57.27	-11 56.4	1.830	2.693	13.2	21.5
106383	2000 VG ₁₆		8 26.6 227°91	4°8/31.3 18			376990	2002 PN ₈₃		8 26.6 331°91	3°1/27.1 18		
7 20	22 44.86	+ 6 5.3											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
437259	2012 <i>XC</i> ₁₀₅		8 26.6	8°98'	7.8/21.1	18	38501	1999 <i>TN</i> ₁₇₀		8 26.6	103°35'	0.2/26.8	18
7 20	22 43.11	-23 30.1	1.160	2.057	17.8	20.1	7 20	22 44.24	-7 20.1	2.339	3.166	12.5	19.7
7 30	22 40.88	-24 43.8	1.113	2.059	13.9	19.9	7 30	22 40.08	-7 44.5	2.266	3.176	9.6	19.5
8 9	22 35.60	-25 57.9	1.084	2.063	10.2	19.7	8 9	22 34.28	-8 18.8	2.216	3.185	6.4	19.3
8 19	22 28.04	-27 1.4	1.077	2.068	7.9	19.6	8 19	22 27.31	-8 59.9	2.191	3.195	2.9	19.1
8 29	22 19.53	-27 43.3	1.092	2.074	8.9	19.7	8 29	22 19.83	-9 43.9	2.195	3.204	0.8	19.0
9 8	22 11.64	-27 57.0	1.128	2.082	12.2	19.9	9 8	22 12.57	-10 26.3	2.227	3.213	4.4	19.3
9 18	22 5.70	-27 41.1	1.185	2.091	15.9	20.1	9 18	22 6.24	-11 3.2	2.287	3.223	7.7	19.5
9 28	22 2.60	-26 58.3	1.260	2.102	19.2	20.4	9 28	22 1.42	-11 31.6	2.372	3.231	10.7	19.7
15808	Zelter		8 26.6	97°14'	0°5/26.1	18	352627	2008 <i>FD</i> ₄₀		8 26.6	127°35'	5°3/20.8	18
7 20	22 45.10	-9 10.3	2.075	2.912	13.4	18.1	7 20	22 49.91	-27 28.8	2.603	3.447	10.8	21.3
7 30	22 40.94	-9 41.4	2.004	2.921	10.3	17.9	7 30	22 44.29	-28 17.8	2.547	3.460	8.6	21.2
8 9	22 34.94	-10 22.5	1.955	2.929	6.8	17.7	8 9	22 36.96	-29 3.4	2.517	3.473	6.5	21.1
8 19	22 27.60	-11 9.8	1.932	2.937	2.9	17.5	8 19	22 28.45	-29 40.3	2.512	3.486	5.3	21.1
8 29	22 19.67	-11 58.3	1.937	2.945	1.3	17.4	8 29	22 19.48	-30 3.9	2.536	3.498	5.9	21.1
9 8	22 12.01	-12 42.9	1.970	2.954	5.1	17.7	9 8	22 10.87	-30 11.3	2.587	3.510	7.7	21.2
9 18	22 5.40	-13 19.3	2.029	2.962	8.7	17.9	9 18	22 3.34	-30 2.0	2.664	3.521	9.8	21.4
9 28	22 0.52	-13 44.6	2.113	2.970	11.9	18.1	9 28	21 57.49	-29 36.9	2.764	3.532	11.8	21.6
515659	2014 <i>OW</i> ₁₃₃		8 26.6	202°46'	4°2/21.0	18	399829	2005 <i>TN</i> ₉₆		8 26.6	350°50'	0°6/26.2	17
7 20	22 43.40	-21 10.0	2.583	3.437	10.6	21.3	7 20	22 43.49	-10 10.3	1.637	2.494	15.5	20.8
7 30	22 39.48	-22 29.0	2.509	3.434	8.2	21.1	7 30	22 40.31	-10 22.2	1.561	2.488	12.0	20.6
8 9	22 33.93	-23 50.6	2.461	3.431	5.8	21.0	8 9	22 34.87	-10 44.9	1.505	2.483	8.0	20.3
8 19	22 27.16	-25 9.0	2.440	3.428	4.3	20.9	8 19	22 27.70	-11 14.8	1.473	2.479	3.4	20.0
8 29	22 19.80	-26 18.3	2.447	3.425	5.0	20.9	8 29	22 19.70	-11 46.5	1.466	2.475	1.5	19.9
9 8	22 12.58	-27 13.6	2.482	3.422	7.2	21.1	9 8	22 11.94	-12 14.5	1.485	2.472	6.1	20.2
9 18	22 6.20	-27 52.1	2.544	3.418	9.6	21.2	9 18	22 5.44	-12 34.2	1.529	2.470	10.4	20.4
9 28	22 1.28	-28 12.8	2.628	3.414	11.9	21.4	9 28	22 1.04	-12 42.3	1.595	2.469	14.2	20.7
508866	2002 <i>UZ</i> ₅₃		8 26.6	284°53'	4°3/23.1	18	444232	2005 <i>UL</i> ₈₃		8 26.6	282°86'	3°9/30.7	15
7 20	22 47.35	-16 49.0	1.562	2.429	15.6	22.1	7 20	22 42.11	+3 55.8	2.208	2.994	14.4	21.7
7 30	22 43.78	-17 50.2	1.471	2.405	12.2	21.8	7 30	22 38.70	+3 51.6	2.115	2.987	11.9	21.5
8 9	22 37.50	-19 1.3	1.402	2.381	8.2	21.5	8 9	22 33.55	+3 29.7	2.043	2.981	8.9	21.3
8 19	22 28.98	-20 15.1	1.356	2.357	4.8	21.2	8 19	22 27.07	+2 50.9	1.994	2.974	5.9	21.1
8 29	22 19.18	-21 22.0	1.336	2.332	5.3	21.2	8 29	22 19.91	+1 57.4	1.972	2.968	3.9	21.0
9 8	22 9.38	-22 13.3	1.341	2.308	9.2	21.4	9 8	22 12.85	+0 53.9	1.977	2.961	5.0	21.1
9 18	22 0.91	-22 43.3	1.370	2.283	13.6	21.6	9 18	22 6.66	-0 14.0	2.009	2.955	8.0	21.2
9 28	21 54.89	-22 49.7	1.419	2.258	17.6	21.8	9 28	22 2.00	-1 20.3	2.066	2.949	11.0	21.4
58099	1978 <i>RB</i> ₁₀		8 26.6	353°89'	0°9/26.2	18	350895	2002 <i>QX</i> ₁₅₂		8 26.6	319°47'	3°8/23.2	18
7 20	22 44.80	-12 11.4	0.912	1.808	21.5	18.2	7 20	22 44.94	-16 49.3	1.767	2.632	14.2	20.6
7 30	22 42.86	-11 54.5	0.852	1.801	16.8	17.9	7 30	22 41.34	-17 49.4	1.695	2.627	10.9	20.4
8 9	22 37.34	-11 49.5	0.809	1.795	11.2	17.6	8 9	22 35.51	-18 56.5	1.644	2.623	7.3	20.2
8 19	22 28.97	-11 51.9	0.784	1.791	4.9	17.2	8 19	22 27.98	-20 3.9	1.618	2.619	4.2	20.0
8 29	22 19.22	-11 55.3	0.779	1.788	2.1	17.1	8 29	22 19.63	-21 3.9	1.619	2.615	4.6	20.0
9 8	22 9.98	-11 52.8	0.796	1.787	8.6	17.5	9 8	22 11.52	-21 49.9	1.646	2.612	7.9	20.2
9 18	22 2.95	-11 39.7	0.832	1.788	14.6	17.8	9 18	22 4.65	-22 17.7	1.697	2.608	11.6	20.4
9 28	21 59.33	-11 13.4	0.886	1.791	19.7	18.1	9 28	21 59.85	-22 25.9	1.770	2.605	14.8	20.6
204429	2004 <i>XF</i> ₁₇		8 26.6	337°33'	7°0/30.9	18	386823	2010 <i>GX</i> ₁₀₆		8 26.6	167°06'	2°1/24.7	18
7 20	22 44.92	+3 55.2	1.437	2.250	19.5	19.2	7 20	22 48.31	-14 24.8	2.032	2.878	13.4	21.6
7 30	22 41.85	+4 57.3	1.354	2.239	16.4	19.0	7 30	22 43.54	-14 56.8	1.958	2.880	10.2	21.4
8 9	22 36.17	+5 39.7	1.288	2.228	12.8	18.7	8 9	22 36.74	-15 35.2	1.906	2.882	6.7	21.2
8 19	22 28.36	+5 59.7	1.243	2.219	9.3	18.5	8 19	22 28.45	-16 15.2	1.880	2.884	3.2	21.0
8 29	22 19.40	+5 56.5	1.220	2.210	7.0	18.4	8 29	22 19.49	-16 51.5	1.882	2.886	2.8	21.0
9 8	22 10.53	+5 33.5	1.221	2.202	8.1	18.4	9 8	22 10.79	-17 19.3	1.911	2.887	6.2	21.2
9 18	22 3.02	+4 56.5	1.246	2.195	11.5	18.6	9 18	22 3.25	-17 35.4	1.967	2.888	9.7	21.4
9 28	21 57.93	+4 13.4	1.292	2.189	15.3	18.8	9 28	21 57.58	-17 38.2	2.047	2.888	12.9	21.6
343440	2010 <i>DY</i> ₇₇		8 26.6	277°77'	2°0/28.4	18	186294	2002 <i>CP</i> ₆₂		8 26.6	201°41'	4°3/21.8	18
7 20	22 42.90	-1 9.9	1.805	2.627	15.8	20.8	7 20	22 46.44	-22 18.5	2.450	3.301	11.2	20.8
7 30	22 39.74	-1 41.4	1.713	2.615	12.6	20.6	7 30	22 41.86	-23 11.7	2.376	3.299	8.7	20.7
8 9	22 34.47	-2 32.4	1.642	2.604	8.9	20.4	8 9	22 35.53	-24 5.7	2.327	3.296	6.1	20.5
8 19	22 27.53	-3 40.8	1.594	2.592	4.8	20.1	8 19	22 27.90	-24 55.3	2.304	3.294	4.4	20.4
8 29	22 19.69	-5 1.4	1.573	2.580	2.0	19.9	8 29	22 19.67	-25 35.1	2.309	3.290	5.0	20.4
9 8	22 11.94	-6 26.9	1.578	2.568	5.3	20.1	9 8	22 11.65	-26 1.1	2.342	3.287	7.2	20.6
9 18	22 5.24	-7 49.5	1.610	2.557	9.5	20.3	9 18	22 4.60	-26 11.2	2.401	3.283	9.8	20.7
9 28	22 0.43	-9 2.3	1.666	2.545	13.4	20.5	9 28	21 59.16	-26 5.0	2.483	3.280	12.2	20.9
425735	2011 <i>BP</i> ₈₂		8 26.6	158°89'	1°0/25.8	17	445442	2010 <i>UP</i> ₆₉		8 26.6	288°92'	4°7/31.4	18
7 20	22 50.46	-11 9.4	1.768	2.611	15.2	21.6	7 20	22 42.38	+5 38.1	2.253	3.027	14.5	21.0
7 30	22 45.44	-11 30.1	1.695	2.615	11.7	21.3	7 30	22 38.97	+5 47.9	2.149	3.011	12.1	20.8
8 9	22 38.11	-12 0.2	1.644	2.618	7.7	21.1	8 9	22 33.78	+5 40.3	2.066	2.994	9.4	20.6
8 19	22 29.06	-12 35.5	1.617	2.622	3.3	20.9	8 19	22 27.21	+5 14.9	2.005	2.977	6.6	20.4
8 29	22 19.23	-13 10.4	1.617	2.625	1.8	20.8	8 29	22 19.87	+4 32.9	1.971	2.960	4.8	20.2
9 8	22 9.72	-13 39.6	1.644	2.627	6.1	21.1	9 8	22 12.55	+3 38.1	1.963	2.944	5.6	20.3
9 18	22 1.55	-13 59.1	1.698	2.629	10.2	21.3	9 18	22 6.03	+2 35.7	1.983	2.927	8.2	20.4
9 28	21 55.55	-14 6.3	1.775	2.631	13.8	21.5	9 28	22 1.04	+1 31.6	2.028	2.910	11.2	20.5
36581	2000 <i>QB</i> ₁₂₅		8 26.6	217°02'	0°9/25.8	18	137424	1999 <i>TY</i> ₂₀₂		8 26.6	29°39'	4°4/24.3	18

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
374737	2006 <i>SC</i> ₁₀₆		8 26.6 268°54	2°3/28.5	17		370861	2005 <i>EJ</i> ₂₄		8 26.6 102°28	1°2/25.6	17	
7 20	22 45.45	- 1 19.9	1.667	2.490	16.8	22.3	7 20	22 47.19	- 8 36.5	1.497	2.349	17.0	20.9
7 30	22 42.03	- 1 41.3	1.568	2.471	13.6	22.0	7 30	22 43.26	- 9 34.9	1.435	2.360	13.1	20.7
8 9	22 36.21	- 2 23.1	1.489	2.451	9.6	21.7	8 9	22 36.84	-10 48.9	1.394	2.371	8.5	20.5
8 19	22 28.41	- 3 23.9	1.433	2.431	5.3	21.4	8 19	22 28.58	-12 12.0	1.376	2.382	3.6	20.2
8 29	22 19.47	- 4 38.9	1.403	2.410	2.3	21.2	8 29	22 19.51	-13 35.5	1.384	2.392	2.1	20.1
9 8	22 10.49	- 6 0.6	1.399	2.389	5.8	21.4	9 8	22 10.85	-14 50.5	1.419	2.402	6.8	20.5
9 18	22 2.64	- 7 20.7	1.421	2.368	10.5	21.6	9 18	22 3.68	-15 50.2	1.479	2.412	11.3	20.8
9 28	21 56.91	- 8 31.4	1.467	2.347	14.8	21.8	9 28	21 58.85	-16 31.0	1.561	2.422	15.1	21.0
380427	2003 <i>HB</i> ₄₄		8 26.6 79°25	6°7/21.1	17		21892	1999 <i>VM</i> ₃		8 26.6 24°27	1°1/25.6	18	
7 20	22 49.69	-24 12.3	1.619	2.487	15.1	20.6	7 20	22 42.99	-10 40.4	1.810	2.664	14.4	18.0
7 30	22 45.12	-25 26.4	1.568	2.498	11.8	20.4	7 30	22 39.62	-11 14.5	1.745	2.671	11.1	17.8
8 9	22 38.00	-26 39.8	1.538	2.508	8.7	20.2	8 9	22 34.24	-11 58.7	1.700	2.678	7.2	17.6
8 19	22 29.04	-27 43.5	1.533	2.518	6.8	20.1	8 19	22 27.39	-12 48.6	1.680	2.686	3.1	17.4
8 29	22 19.33	-28 29.2	1.553	2.529	7.6	20.2	8 29	22 19.90	-13 38.2	1.687	2.695	1.9	17.3
9 8	22 10.16	-28 51.6	1.598	2.539	10.3	20.4	9 8	22 12.72	-14 21.8	1.720	2.704	5.8	17.6
9 18	22 2.60	-28 49.3	1.667	2.549	13.4	20.6	9 18	22 6.71	-14 54.8	1.779	2.713	9.7	17.9
9 28	21 57.48	-28 24.1	1.755	2.560	16.2	20.8	9 28	22 2.58	-15 14.5	1.861	2.723	13.0	18.1
78955	2003 <i>SQ</i> ₂₂₁		8 26.6 107°90	2°5/25.0	18		232227	2002 <i>JX</i> ₁₃₅		8 26.6 76°09	0°9/27.3	18	
7 20	22 53.58	-14 50.6	1.493	2.349	16.8	19.0	7 20	22 47.02	- 6 0.2	1.739	2.574	15.8	20.9
7 30	22 48.18	-15 10.3	1.431	2.358	12.9	18.8	7 30	22 42.77	- 6 12.5	1.672	2.584	12.3	20.7
8 9	22 40.06	-15 37.0	1.390	2.367	8.5	18.6	8 9	22 36.34	- 6 38.4	1.624	2.594	8.3	20.5
8 19	22 29.97	-16 4.8	1.372	2.376	4.0	18.3	8 19	22 28.33	- 7 14.7	1.601	2.604	3.9	20.3
8 29	22 19.05	-16 27.3	1.380	2.385	3.2	18.3	8 29	22 19.61	- 7 56.5	1.604	2.613	1.2	20.1
9 8	22 8.67	-16 39.1	1.415	2.394	7.4	18.6	9 8	22 11.24	- 8 38.3	1.635	2.623	5.4	20.4
9 18	22 0.02	-16 37.2	1.475	2.402	11.8	18.9	9 18	22 4.16	- 9 14.8	1.691	2.633	9.5	20.7
9 28	21 53.97	-16 21.0	1.556	2.410	15.5	19.1	9 28	21 59.11	- 9 42.0	1.771	2.643	13.1	20.9
478622	2012 <i>TV</i> ₁₇₁		8 26.6 11°11	6°0/31.5	16		421616	2014 <i>OX</i> ₂₅₃		8 26.6 282°18	0°9/25.8	18	
7 20	22 40.20	+ 5 9.7	1.298	2.122	20.6	21.2	7 20	22 45.96	-11 52.1	2.330	3.167	12.2	21.5
7 30	22 38.24	+ 5 24.4	1.232	2.125	17.2	21.0	7 30	22 41.53	-12 4.1	2.245	3.161	9.4	21.3
8 9	22 33.74	+ 5 11.3	1.182	2.128	13.1	20.8	8 9	22 35.34	-12 22.6	2.182	3.156	6.2	21.1
8 19	22 27.28	+ 4 30.1	1.151	2.133	9.0	20.6	8 19	22 27.86	-12 44.5	2.146	3.151	2.7	20.8
8 29	22 19.88	+ 3 24.2	1.143	2.139	6.1	20.4	8 29	22 19.75	-13 6.2	2.138	3.146	1.5	20.7
9 8	22 12.80	+ 2 1.6	1.158	2.146	7.2	20.5	9 8	22 11.82	-13 23.9	2.159	3.141	4.9	21.0
9 18	22 7.18	+ 0 32.5	1.196	2.154	10.9	20.7	9 18	22 4.82	-13 34.8	2.206	3.136	8.3	21.2
9 28	22 3.96	- 0 52.6	1.257	2.163	14.9	21.0	9 28	21 59.40	-13 36.7	2.278	3.131	11.3	21.4
268377	2005 <i>TP</i> ₁₉₃		8 26.6 354°08	2°0/24.9	17		347136	2010 <i>OO</i> ₃₃		8 26.6 254°67	4°5/22.7	18	
7 20	22 40.68	- 9 33.0	1.267	2.143	18.0	19.7	7 20	22 48.52	-20 18.1	1.913	2.771	13.6	20.9
7 30	22 38.77	-10 38.5	1.200	2.139	13.9	19.4	7 30	22 44.00	-21 6.6	1.836	2.764	10.5	20.7
8 9	22 34.19	-12 2.5	1.152	2.135	9.0	19.2	8 9	22 37.23	-21 58.2	1.782	2.756	7.3	20.5
8 19	22 27.51	-13 37.7	1.126	2.133	3.9	18.9	8 19	22 28.76	-22 46.4	1.753	2.748	4.8	20.3
8 29	22 19.80	-15 13.5	1.125	2.131	3.0	18.8	8 29	22 19.47	-23 24.4	1.750	2.740	5.2	20.3
9 8	22 12.39	-16 38.6	1.147	2.131	8.0	19.1	9 8	22 10.41	-23 47.1	1.775	2.732	8.1	20.5
9 18	22 6.52	-17 44.6	1.193	2.131	13.0	19.4	9 18	22 2.59	-23 51.7	1.824	2.724	11.5	20.7
9 28	22 3.16	-18 26.6	1.258	2.132	17.2	19.7	9 28	21 56.84	-23 38.0	1.895	2.716	14.6	20.9
311834	2006 <i>VK</i> ₂₃		8 26.6 270°47	0°5/27.1	18		264952	2002 <i>XW</i> ₇		8 26.6 238°33	1°4/25.4	18	
7 20	22 43.99	- 6 25.0	2.092	2.923	13.6	21.6	7 20	22 48.04	-10 56.9	1.809	2.654	14.8	20.7
7 30	22 40.21	- 6 48.1	2.008	2.918	10.6	21.4	7 30	22 43.76	-11 35.1	1.722	2.643	11.5	20.5
8 9	22 34.57	- 7 23.2	1.945	2.914	7.1	21.2	8 9	22 37.18	-12 24.7	1.656	2.632	7.5	20.2
8 19	22 27.54	- 8 7.6	1.907	2.910	3.3	20.9	8 19	22 28.79	-13 21.0	1.616	2.621	3.3	20.0
8 29	22 19.81	- 8 56.8	1.897	2.906	0.9	20.8	8 29	22 19.45	-14 17.7	1.602	2.609	2.2	19.9
9 8	22 12.24	- 9 45.4	1.914	2.902	4.8	21.0	9 8	22 10.24	-15 8.0	1.616	2.596	6.4	20.1
9 18	22 5.64	-10 28.9	1.959	2.898	8.6	21.3	9 18	22 2.21	-15 46.6	1.655	2.584	10.6	20.3
9 28	22 0.71	-11 3.2	2.027	2.893	11.9	21.5	9 28	21 56.24	-16 10.3	1.718	2.571	14.4	20.5
478494	2012 <i>RC</i> ₃₃		8 26.6 304°85	2°6/28.8	18		67554	2000 <i>ST</i> ₆₇		8 26.6 242°80	2°2/29.1	18	
7 20	22 41.89	- 0 36.2	1.567	2.398	17.3	21.6	7 20	22 42.36	+ 0 17.8	2.451	3.247	12.8	20.1
7 30	22 39.39	- 0 55.4	1.471	2.377	14.1	21.3	7 30	22 38.75	- 0 10.1	2.351	3.236	10.3	19.9
8 9	22 34.52	- 1 36.7	1.394	2.357	10.1	21.0	8 9	22 33.54	- 0 53.3	2.274	3.226	7.4	19.7
8 19	22 27.69	- 2 38.8	1.339	2.336	5.7	20.7	8 19	22 27.09	- 1 50.1	2.222	3.214	4.3	19.5
8 29	22 19.73	- 3 57.1	1.309	2.316	2.6	20.5	8 29	22 20.00	- 2 57.1	2.198	3.203	2.2	19.3
9 8	22 11.77	- 5 23.7	1.305	2.296	6.0	20.7	9 8	22 12.98	- 4 9.4	2.203	3.191	4.2	19.4
9 18	22 4.94	- 6 49.5	1.325	2.277	10.7	20.9	9 18	22 6.71	- 5 21.6	2.236	3.179	7.4	19.6
9 28	22 0.27	- 8 6.1	1.368	2.258	15.1	21.1	9 28	22 1.83	- 6 28.4	2.295	3.167	10.5	19.8
251878	1999 <i>VE</i> ₅₄		8 26.6 322°50	5°2/21.7	18		175723	1997 <i>GC</i> ₁₀		8 26.6 71°81	1°6/27.9	17	
7 20	22 46.99	-23 52.4	2.135	2.993	12.4	20.0	7 20	22 47.21	- 2 49.3	1.442	2.278	18.3	20.5
7 30	22 42.55	-24 41.1	2.065	2.990	9.7	19.8	7 30	22 43.20	- 3 20.9	1.387	2.298	14.4	20.3
8 9	22 36.11	-25 29.4	2.018	2.987	7.0	19.6	8 9	22 36.74	- 4 12.4	1.352	2.319	9.8	20.1
8 19	22 28.20	-26 11.3	1.997	2.984	5.3	19.5	8 19	22 28.52	- 5 19.4	1.339	2.340	4.9	19.9
8 29	22 19.62	-26 40.9	2.003	2.981	5.8	19.5	8 29	22 19.60	- 6 34.9	1.352	2.361	1.7	19.7
9 8	22 11.32	-26 54.1	2.035	2.979	8.2	19.7	9 8	22 11.19	- 7 50.1	1.391	2.381	5.8	20.1
9 18	22 4.18	-26 49.3	2.092	2.976	11.0	19.9	9 18	22 4.34	- 8 57.4	1.455	2.402	10.4	20.4
9 28	21 58.89	-26 26.8	2.171	2.974	13.6	20.0	9 28	21 59.84	- 9 51.2	1.542	2.422	14.2	20.7
494	<i>Virtus</i>		8 26.6 67°76	3°4/23.4	18		468682	2009 <i>OS</i> ₁₅					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
51269	2000 <i>JU</i> ₇₂		8 26.6 125°34	3°4/29.9	18		477933	2011 <i>QZ</i> ₆₃		8 26.6 73°44	4°2/30.1	16	
7 20	22 47.86	+ 1 18.1	2.263	3.048	14.1	19.6	7 20	22 46.73	+ 1 55.3	1.849	2.648	16.3	21.5
7 30	22 42.92	+ 1 32.1	2.186	3.060	11.4	19.4	7 30	22 42.47	+ 2 14.3	1.776	2.657	13.3	21.3
8 9	22 36.22	+ 1 31.8	2.130	3.072	8.4	19.3	8 9	22 36.14	+ 2 15.9	1.722	2.666	9.9	21.2
8 19	22 28.23	+ 1 18.0	2.099	3.083	5.3	19.1	8 19	22 28.28	+ 2 0.4	1.692	2.676	6.4	21.0
8 29	22 19.68	+ 0 52.7	2.095	3.094	3.4	19.0	8 29	22 19.71	+ 1 30.2	1.687	2.685	4.2	20.9
9 8	22 11.36	+ 0 19.6	2.120	3.104	4.8	19.1	9 8	22 11.42	+ 0 50.0	1.710	2.695	5.6	21.0
9 18	22 4.03	- 0 17.0	2.173	3.114	7.7	19.3	9 18	22 4.31	+ 0 5.1	1.758	2.704	8.9	21.2
9 28	21 58.33	- 0 52.8	2.251	3.124	10.6	19.5	9 28	21 59.12	- 0 38.7	1.831	2.713	12.2	21.4
423012	2003 <i>SR</i> ₃₇₃		8 26.6 251°58	1°4/27.7	17		121941	2000 <i>ER</i> ₁₈		8 26.6 224°32	1°1/25.3	18	
7 20	22 46.90	- 4 0.7	1.567	2.402	17.2	22.1	7 20	22 43.41	- 11 44.9	2.738	3.572	10.7	20.5
7 30	22 43.20	- 4 20.4	1.481	2.392	13.6	21.8	7 30	22 39.36	- 12 20.2	2.649	3.565	8.2	20.3
8 9	22 36.99	- 4 58.4	1.414	2.382	9.4	21.6	8 9	22 33.84	- 13 2.3	2.584	3.558	5.3	20.2
8 19	22 28.78	- 5 52.1	1.371	2.372	4.7	21.3	8 19	22 27.21	- 13 47.9	2.546	3.550	2.3	19.9
8 29	22 19.48	- 6 55.9	1.353	2.362	1.6	21.0	8 29	22 20.05	- 14 33.1	2.537	3.543	1.6	19.9
9 8	22 10.31	- 8 2.3	1.361	2.351	6.0	21.3	9 8	22 12.99	- 15 13.8	2.556	3.535	4.6	20.1
9 18	22 2.43	- 9 3.7	1.395	2.340	10.8	21.5	9 18	22 6.67	- 15 46.8	2.604	3.527	7.5	20.3
9 28	21 56.83	- 9 53.9	1.451	2.329	15.1	21.8	9 28	22 1.64	- 16 9.9	2.677	3.518	10.2	20.4
87943	2000 <i>SM</i> ₃₅₇		8 26.6 336°02	3°8/23.0	18		287202	2002 <i>SY</i> ₃₁		8 26.6 314°34	3°7/23.6	18	
7 20	22 37.08	- 11 0.5	1.258	2.143	17.5	18.7	7 20	22 43.92	- 15 53.7	1.575	2.446	15.3	20.2
7 30	22 36.16	- 12 47.6	1.182	2.128	13.4	18.4	7 30	22 41.15	- 16 43.6	1.479	2.415	11.9	19.9
8 9	22 32.62	- 14 56.8	1.127	2.113	8.7	18.1	8 9	22 35.83	- 17 43.8	1.404	2.385	8.0	19.6
8 19	22 26.93	- 17 18.5	1.094	2.100	4.4	17.8	8 19	22 28.37	- 18 47.8	1.352	2.355	4.4	19.3
8 29	22 20.07	- 19 38.5	1.086	2.087	5.1	17.8	8 29	22 19.65	- 19 47.2	1.325	2.325	4.6	19.2
9 8	22 13.35	- 21 42.3	1.102	2.076	9.8	18.0	9 8	22 10.89	- 20 33.9	1.323	2.296	8.7	19.4
9 18	22 8.05	- 23 18.8	1.141	2.066	14.7	18.3	9 18	22 3.34	- 21 1.7	1.345	2.267	13.1	19.6
9 28	22 5.28	- 24 22.4	1.198	2.057	18.9	18.5	9 28	21 58.10	- 21 7.8	1.387	2.239	17.2	19.8
384556	2010 <i>FK</i> ₁₃		8 26.6 180°12	5°3/21.5	18		280527	2004 <i>QS</i> ₃		8 26.6 39°81	3°2/30.6	18	
7 20	22 51.88	- 25 9.9	2.291	3.137	12.0	21.6	7 20	22 40.59	+ 2 52.9	2.564	3.348	12.7	20.2
7 30	22 46.17	- 26 1.8	2.222	3.138	9.5	21.4	7 30	22 37.16	+ 2 50.4	2.493	3.365	10.3	20.1
8 9	22 38.44	- 26 52.2	2.176	3.139	7.0	21.3	8 9	22 32.33	+ 2 33.8	2.444	3.382	7.6	19.9
8 19	22 29.24	- 27 35.0	2.158	3.140	5.4	21.2	8 19	22 26.52	+ 2 4.1	2.419	3.400	5.0	19.8
8 29	22 19.39	- 28 4.5	2.167	3.139	6.0	21.2	8 29	22 20.29	+ 1 23.7	2.421	3.417	3.3	19.7
9 8	22 9.85	- 28 16.9	2.203	3.138	8.2	21.4	9 8	22 14.27	+ 0 36.6	2.451	3.435	4.2	19.8
9 18	22 1.49	- 28 10.8	2.265	3.137	10.8	21.5	9 18	22 9.04	- 0 13.3	2.508	3.454	6.6	20.0
9 28	21 55.04	- 27 47.2	2.350	3.135	13.2	21.7	9 28	22 5.09	- 1 1.5	2.592	3.472	9.2	20.2
141645	2002 <i>JW</i> ₅₉		8 26.6 16°03	6°5/23.1	17		515245	2012 <i>CK</i> ₂₇		8 26.6 337°31	0°3/26.8	18	
7 20	22 46.24	- 20 35.0	0.976	1.877	20.0	19.0	7 20	22 47.51	- 9 33.7	1.898	2.737	14.4	21.0
7 30	22 43.69	- 21 20.4	0.932	1.882	15.5	18.8	7 30	22 43.14	- 9 21.9	1.814	2.730	11.3	20.8
8 9	22 37.66	- 22 8.9	0.905	1.889	10.7	18.5	8 9	22 36.64	- 9 18.4	1.751	2.724	7.6	20.5
8 19	22 29.07	- 22 50.1	0.897	1.897	6.9	18.4	8 19	22 28.54	- 9 20.9	1.714	2.718	3.4	20.3
8 29	22 19.46	- 23 13.2	0.911	1.907	7.4	18.4	8 29	22 19.64	- 9 26.2	1.703	2.712	1.0	20.1
9 8	22 10.67	- 23 11.8	0.947	1.918	11.4	18.7	9 8	22 10.96	- 9 30.5	1.719	2.707	5.3	20.4
9 18	22 4.16	- 22 44.6	1.002	1.930	15.9	19.0	9 18	22 3.42	- 9 30.7	1.762	2.702	9.3	20.6
9 28	22 0.90	- 21 54.2	1.075	1.944	19.9	19.3	9 28	21 57.82	- 9 24.3	1.828	2.698	12.9	20.8
433749	2015 <i>AM</i> ₂₆₃		8 26.6 107°51	0°4/26.3	17		150602	2000 <i>WV</i> ₁₈₃		8 26.6 231°79	6°3/20.4	18	
7 20	22 48.16	- 8 3.6	1.702	2.542	15.8	21.5	7 20	22 50.26	- 28 54.9	2.311	3.161	11.9	19.9
7 30	22 43.69	- 8 40.0	1.638	2.555	12.2	21.3	7 30	22 45.00	- 29 44.3	2.243	3.156	9.5	19.8
8 9	22 36.97	- 9 29.6	1.595	2.568	8.0	21.1	8 9	22 37.72	- 30 29.7	2.197	3.152	7.4	19.6
8 19	22 28.63	- 10 27.6	1.576	2.581	3.5	20.9	8 19	22 28.96	- 31 4.9	2.178	3.148	6.3	19.6
8 29	22 19.59	- 11 27.6	1.584	2.593	1.3	20.8	8 29	22 19.55	- 31 24.3	2.185	3.143	7.0	19.6
9 8	22 10.92	- 12 22.9	1.620	2.605	5.9	21.1	9 8	22 10.46	- 31 24.6	2.218	3.138	8.9	19.7
9 18	22 3.62	- 13 8.0	1.681	2.617	10.0	21.4	9 18	22 2.55	- 31 5.2	2.277	3.134	11.3	19.9
9 28	21 58.43	- 13 39.4	1.766	2.628	13.6	21.6	9 28	21 56.53	- 30 27.3	2.357	3.129	13.5	20.0
404620	2014 <i>GE</i> ₄₀		8 26.6 330°74	3°5/23.4	18		512707	2016 <i>UU</i> ₁₀		8 26.6 25°65	5°9/1.5	18	
7 20	22 44.28	- 16 8.5	1.829	2.691	13.9	20.6	7 20	22 42.06	+ 8 20.2	1.715	2.497	18.1	21.1
7 30	22 40.78	- 17 7.8	1.756	2.688	10.7	20.3	7 30	22 39.14	+ 8 19.8	1.637	2.500	15.2	20.9
8 9	22 35.13	- 18 14.3	1.705	2.684	7.1	20.1	8 9	22 34.10	+ 7 54.1	1.576	2.503	11.9	20.7
8 19	22 27.86	- 19 21.7	1.679	2.681	3.9	19.9	8 19	22 27.45	+ 7 2.6	1.537	2.506	8.5	20.5
8 29	22 19.81	- 20 22.7	1.680	2.678	4.2	19.9	8 29	22 20.01	+ 5 48.3	1.522	2.510	6.1	20.4
9 8	22 12.00	- 21 10.9	1.707	2.675	7.5	20.1	9 8	22 12.78	+ 4 17.6	1.533	2.514	6.6	20.4
9 18	22 5.36	- 21 42.0	1.759	2.672	11.1	20.4	9 18	22 6.70	+ 2 39.2	1.569	2.518	9.5	20.6
9 28	22 0.69	- 21 54.3	1.834	2.670	14.3	20.6	9 28	22 2.57	+ 1 2.1	1.629	2.523	12.8	20.8
523088	2016 <i>RS</i> ₄₁		8 26.6 212°30	3°4/30.3	18		67037	1999 <i>XC</i> ₁₈₁		8 26.6 117°90	3°9/30.8	18	
7 20	22 43.64	+ 3 41.1	2.095	2.882	15.0	21.6	7 20	22 45.46	+ 3 47.4	2.559	3.329	13.1	18.5
7 30	22 40.00	+ 3 14.3	2.003	2.878	12.3	21.4	7 30	22 40.93	+ 4 5.0	2.478	3.339	10.8	18.4
8 9	22 34.50	+ 2 27.5	1.931	2.874	9.1	21.2	8 9	22 34.85	+ 4 8.6	2.419	3.348	8.1	18.2
8 19	22 27.57	+ 1 22.0	1.884	2.869	5.7	21.0	8 19	22 27.66	+ 3 58.5	2.384	3.358	5.6	18.1
8 29	22 19.92	+ 0 1.6	1.863	2.864	3.4	20.9	8 29	22 19.96	+ 3 36.3	2.376	3.367	3.9	18.0
9 8	22 12.37	- 1 27.6	1.871	2.858	5.0	21.0	9 8	22 12.44	+ 3 5.0	2.397	3.376	4.8	18.0
9 18	22 5.75	- 2 58.6	1.906	2.852	8.3	21.2	9 18	22 5.74	+ 2 28.4	2.445	3.385	7.1	18.2
9 28	22 0.79	- 4 24.2	1.967	2.846	11.6	21.4	9 28	22 0.45	+ 1 50.6	2.520	3.394	9.6	18.4
474075	2016 <i>JS</i> ₂₉		8 26.6 60°01	4°1/29.8	17								

EPHEMERIDES

8 26.6

8 26.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
384445	2010 AW ₃₀		8 26.6 189°44	5°5/20.1	18		521776	2015 SX ₂₆		8 26.6 254°00	4°3/22.6	18	
7 20	22 46.16	-20 34.2	2.038	2.898	12.8	21.1	7 20	22 49.40	-22 48.8	2.355	3.203	11.7	21.5
7 30	22 42.16	-22 31.7	1.969	2.897	9.9	20.9	7 30	22 44.26	-23 20.2	2.275	3.196	9.1	21.3
8 9	22 36.05	-24 34.6	1.925	2.896	7.1	20.8	8 9	22 37.22	-23 51.4	2.219	3.188	6.4	21.1
8 19	22 28.31	-26 33.9	1.908	2.894	5.5	20.7	8 19	22 28.77	-24 17.3	2.189	3.180	4.5	21.0
8 29	22 19.75	-28 20.3	1.919	2.892	6.6	20.7	8 29	22 19.67	-24 33.2	2.187	3.172	4.9	21.0
9 8	22 11.33	-29 46.1	1.958	2.890	9.2	20.9	9 8	22 10.81	-24 35.5	2.212	3.163	7.2	21.2
9 18	22 4.01	-30 47.4	2.022	2.887	12.1	21.1	9 18	22 3.00	-24 22.8	2.264	3.155	10.0	21.3
9 28	21 58.58	-31 23.1	2.107	2.884	14.7	21.2	9 28	21 56.94	-23 55.2	2.339	3.146	12.6	21.5
263587	2008 FF ₁₀₅		8 26.6 18°88	2°1/25.0	18		512466	2016 QW ₅₂		8 26.6 262°97	0°5/26.9	18	
7 20	22 45.32	-14 7.6	1.560	2.426	15.7	20.4	7 20	22 50.01	- 8 33.2	1.806	2.641	15.3	21.2
7 30	22 41.73	-14 27.5	1.501	2.434	12.0	20.2	7 30	22 45.23	- 8 26.7	1.721	2.634	12.0	21.0
8 9	22 35.80	-14 54.9	1.462	2.442	7.8	20.0	8 9	22 38.14	- 8 30.3	1.656	2.627	8.1	20.8
8 19	22 28.16	-15 24.6	1.446	2.452	3.6	19.8	8 19	22 29.27	- 8 41.3	1.616	2.620	3.7	20.5
8 29	22 19.83	-15 50.6	1.456	2.462	2.9	19.8	8 29	22 19.50	- 8 56.1	1.603	2.613	1.1	20.3
9 8	22 11.93	-16 7.6	1.492	2.473	6.8	20.0	9 8	22 9.93	- 9 10.4	1.618	2.605	5.6	20.6
9 18	22 5.47	-16 12.4	1.552	2.485	10.9	20.3	9 18	22 1.58	- 9 20.2	1.658	2.598	9.8	20.8
9 28	22 1.22	-16 3.5	1.634	2.497	14.4	20.6	9 28	21 55.33	- 9 22.7	1.722	2.590	13.6	21.0
235452	2003 YZ ₁₄₈		8 26.6 235°32	7°9/15.4	18		476887	2008 VV ₇₁		8 26.6 333°17	0°9/27.2	16	
7 20	22 46.39	-36 58.7	2.718	3.558	10.6	20.2	7 20	22 42.48	- 7 49.1	1.258	2.127	18.5	20.1
7 30	22 41.99	-38 23.3	2.663	3.554	9.1	20.1	7 30	22 40.45	- 7 37.0	1.172	2.104	14.7	19.8
8 9	22 35.73	-39 40.4	2.632	3.550	8.1	20.0	8 9	22 35.58	- 7 39.2	1.104	2.083	10.1	19.5
8 19	22 28.10	-40 43.6	2.626	3.546	7.9	20.0	8 19	22 28.34	- 7 53.9	1.058	2.062	4.8	19.1
8 29	22 19.83	-41 27.5	2.645	3.541	8.7	20.1	8 29	22 19.76	- 8 16.3	1.034	2.043	1.4	18.8
9 8	22 11.78	-41 49.0	2.689	3.537	10.1	20.1	9 8	22 11.24	- 8 40.1	1.033	2.025	6.9	19.1
9 18	22 4.75	-41 47.7	2.755	3.532	11.7	20.3	9 18	22 4.20	- 8 59.0	1.054	2.009	12.4	19.4
9 28	21 59.41	-41 25.1	2.841	3.528	13.2	20.4	9 28	21 59.81	- 9 7.7	1.096	1.994	17.3	19.6
339173	2004 TT ₉₅		8 26.6 319°04	1°3/27.6	18		154246	2002 KB ₈		8 26.6 32°78	2°1/24.2	18	
7 20	22 43.79	- 4 40.4	1.539	2.383	17.0	21.3	7 20	22 40.83	-11 6.5	1.964	2.818	13.4	19.5
7 30	22 40.82	- 4 55.3	1.456	2.373	13.5	21.1	7 30	22 37.90	-12 26.8	1.898	2.826	10.2	19.3
8 9	22 35.43	- 5 27.7	1.392	2.363	9.3	20.8	8 9	22 33.12	-13 58.2	1.856	2.835	6.6	19.1
8 19	22 28.13	- 6 14.8	1.351	2.353	4.6	20.5	8 19	22 26.99	-15 34.5	1.839	2.844	3.0	18.9
8 29	22 19.81	- 7 11.5	1.335	2.344	1.5	20.3	8 29	22 20.24	-17 8.0	1.850	2.853	2.9	18.9
9 8	22 11.65	- 8 10.4	1.344	2.335	5.9	20.6	9 8	22 13.73	-18 31.4	1.888	2.863	6.3	19.2
9 18	22 4.75	- 9 4.3	1.379	2.327	10.7	20.8	9 18	22 8.25	-19 39.3	1.953	2.873	9.8	19.4
9 28	22 0.07	- 9 47.4	1.435	2.319	14.9	21.0	9 28	22 4.47	-20 28.6	2.041	2.883	12.9	19.6
195190	2002 CR ₂₇₇		8 26.6 27°78	1°0/27.3	17		255276	2005 VE ₅₉		8 26.6 336°39	4°4/23.1	18	
7 20	22 45.25	- 6 21.9	1.302	2.160	18.7	19.5	7 20	22 46.70	-20 9.6	1.796	2.661	14.0	20.5
7 30	22 42.03	- 6 26.2	1.245	2.171	14.6	19.3	7 30	22 42.74	-20 45.1	1.722	2.653	10.9	20.3
8 9	22 36.18	- 6 47.1	1.207	2.182	9.8	19.0	8 9	22 36.50	-21 23.1	1.669	2.645	7.5	20.1
8 19	22 28.38	- 7 20.8	1.191	2.194	4.6	18.8	8 19	22 28.54	-21 57.6	1.641	2.638	4.7	19.9
8 29	22 19.77	- 8 1.4	1.198	2.208	1.4	18.6	8 29	22 19.76	-22 22.3	1.638	2.632	5.0	19.9
9 8	22 11.65	- 8 41.8	1.231	2.222	6.3	19.0	9 8	22 11.26	-22 32.2	1.662	2.625	8.1	20.1
9 18	22 5.17	- 9 15.5	1.286	2.236	11.1	19.3	9 18	22 4.05	-22 25.0	1.710	2.620	11.6	20.3
9 28	22 1.19	- 9 38.0	1.364	2.252	15.2	19.6	9 28	21 58.95	-22 0.6	1.780	2.615	14.8	20.5
358416	2007 CV ₂₄		8 26.6 134°53	1°5/24.9	18		238574	2004 XK ₁₁₁		8 26.6 281°24	3°6/23.5	18	
7 20	22 42.93	-11 10.3	2.342	3.183	12.0	20.8	7 20	22 47.38	-16 45.0	1.814	2.672	14.2	20.8
7 30	22 39.20	-12 9.2	2.267	3.188	9.1	20.6	7 30	22 43.46	-17 35.8	1.720	2.649	11.0	20.6
8 9	22 33.84	-13 17.0	2.216	3.192	5.9	20.4	8 9	22 37.15	-18 34.3	1.649	2.627	7.4	20.3
8 19	22 27.26	-14 29.2	2.191	3.196	2.6	20.2	8 19	22 28.92	-19 34.4	1.603	2.604	4.2	20.1
8 29	22 20.12	-15 40.2	2.195	3.200	2.1	20.2	8 29	22 19.61	-20 28.6	1.583	2.580	4.4	20.0
9 8	22 13.16	-16 44.4	2.227	3.204	5.3	20.4	9 8	22 10.34	-21 10.1	1.589	2.557	8.0	20.2
9 18	22 7.09	-17 37.5	2.287	3.208	8.5	20.6	9 18	22 2.22	-21 34.2	1.621	2.533	11.9	20.4
9 28	22 2.50	-18 16.8	2.371	3.211	11.4	20.8	9 28	21 56.20	-21 38.9	1.674	2.510	15.5	20.6
352249	2007 TC ₁₆₅		8 26.6 327°24	2°7/28.8	18		213516	2002 GA ₁₄₁		8 26.6 48°36	0°1/26.7	17	
7 20	22 45.58	- 1 48.7	1.839	2.657	15.7	20.1	7 20	22 46.77	- 6 38.3	1.145	2.010	20.2	20.5
7 30	22 41.72	- 1 43.1	1.757	2.655	12.6	19.9	7 30	22 43.43	- 7 12.9	1.099	2.029	15.6	20.3
8 9	22 35.76	- 1 52.9	1.694	2.653	9.0	19.7	8 9	22 37.18	- 8 6.7	1.070	2.048	10.3	20.1
8 19	22 28.19	- 2 17.0	1.656	2.650	5.1	19.4	8 19	22 28.85	- 9 13.6	1.063	2.068	4.5	19.8
8 29	22 19.83	- 2 52.1	1.643	2.648	2.7	19.3	8 29	22 19.71	-10 24.4	1.079	2.089	1.4	19.7
9 8	22 11.64	- 3 33.3	1.657	2.646	5.2	19.4	9 8	22 11.24	-11 29.1	1.120	2.109	7.0	20.1
9 18	22 4.58	- 4 15.1	1.697	2.644	9.1	19.7	9 18	22 4.67	-12 20.4	1.183	2.131	12.1	20.4
9 28	21 59.43	- 4 52.5	1.761	2.643	12.7	19.9	9 28	22 0.85	-12 53.9	1.267	2.152	16.4	20.8
476647	2008 SH ₂₇₀		8 26.6 253°88	1°6/25.2	18		102968	1999 XW ₆₉		8 26.6 277°20	2°3/24.6	18	
7 20	22 47.20	-12 5.7	1.912	2.758	14.1	22.2	7 20	22 45.71	-13 21.5	1.840	2.694	14.2	20.0
7 30	22 43.02	-12 40.4	1.824	2.747	10.9	22.0	7 30	22 41.95	-14 6.2	1.757	2.684	10.9	19.8
8 9	22 36.67	-13 24.8	1.759	2.735	7.1	21.7	8 9	22 35.99	-15 0.2	1.696	2.674	7.2	19.5
8 19	22 28.62	-14 14.2	1.718	2.723	3.2	21.5	8 19	22 28.34	-15 58.3	1.660	2.664	3.4	19.3
8 29	22 19.69	-15 2.8	1.704	2.710	2.3	21.4	8 29	22 19.82	-16 53.9	1.650	2.654	3.0	19.2
9 8	22 10.89	-15 44.7	1.718	2.697	6.3	21.6	9 8	22 11.46	-17 40.5	1.667	2.644	6.8	19.4
9 18	22 3.19	-16 15.2	1.757	2.684	10.2	21.8	9 18	22 4.23	-18 13.5	1.710	2.634	10.7	19.6
9 28	21 57.43	-16 31.5	1.820	2.671	13.8	22.0	9 28	21 58.99	-18 30.1	1.775	2.623	14.2	19.8
177162	2003 SC ₉₇		8 26.6 335°88	1°6/27.8	17		60044	1999 TA ₁₀₃		8 26.6 9°37	7°3/19.1	18	
7 20	22 38.4												

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8 26.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
318391	2004 <i>XH</i> ₄₉		8 26.6 320°19	4.2/23.3	18		139031	2001 <i>DL</i> ₁₀₂		8 26.6 91°40	3.8/23.9	17	
7 20	22 45.57	-17 19.6	1.560	2.430	15.5	20.2	7 20	22 53.17	-17 7.3	1.519	2.378	16.4	20.5
7 30	22 42.26	-18 12.9	1.484	2.420	11.9	20.0	7 30	22 47.78	-17 52.1	1.468	2.397	12.5	20.3
8 9	22 36.41	-19 13.5	1.430	2.410	8.0	19.8	8 9	22 39.78	-18 42.1	1.439	2.416	8.3	20.1
8 19	22 28.59	-20 14.3	1.400	2.401	4.7	19.5	8 19	22 29.96	-19 29.8	1.433	2.435	4.5	19.9
8 29	22 19.77	-21 6.9	1.394	2.391	5.0	19.5	8 29	22 19.46	-20 7.8	1.454	2.453	4.5	20.0
9 8	22 11.19	-21 44.0	1.414	2.383	8.7	19.7	9 8	22 9.59	-20 30.3	1.501	2.471	8.1	20.2
9 18	22 4.00	-22 1.4	1.457	2.374	12.7	19.9	9 18	22 1.46	-20 35.1	1.573	2.489	12.0	20.5
9 28	21 59.14	-21 57.8	1.522	2.366	16.3	20.2	9 28	21 55.86	-20 22.2	1.666	2.506	15.4	20.7
42399	6372 <i>P-L</i>		8 26.6 17°13	1.9/28.1	18		41832	2000 <i>WB</i> ₅₈		8 26.6 251°59	1.2/25.6	18	R
7 20	22 43.50	- 3 36.7	1.422	2.268	18.0	19.0	7 20	22 46.50	-10 30.3	1.934	2.776	14.1	19.7
7 30	22 40.60	- 3 43.5	1.355	2.272	14.3	18.8	7 30	22 42.48	-11 8.3	1.845	2.765	10.9	19.4
8 9	22 35.24	- 4 8.7	1.308	2.277	9.9	18.5	8 9	22 36.34	-11 57.3	1.777	2.752	7.2	19.2
8 19	22 28.03	- 4 49.8	1.282	2.283	5.1	18.3	8 19	22 28.54	-12 53.1	1.735	2.740	3.1	18.9
8 29	22 19.96	- 5 41.3	1.281	2.289	2.0	18.1	8 29	22 19.86	-13 49.9	1.720	2.727	1.9	18.8
9 8	22 12.24	- 6 35.9	1.305	2.296	5.9	18.3	9 8	22 11.29	-14 41.3	1.732	2.714	6.0	19.0
9 18	22 5.94	- 7 26.5	1.353	2.304	10.5	18.6	9 18	22 3.77	-15 22.3	1.771	2.701	10.0	19.2
9 28	22 1.95	- 8 7.1	1.423	2.313	14.6	18.9	9 28	21 58.15	-15 49.4	1.833	2.687	13.6	19.4
366049	2012 <i>CJ</i> ₉		8 26.6 89°80	0.4/27.1	18		262400	2006 <i>UT</i> ₁₂		8 26.7 165°21	3.3/30.3	18	
7 20	22 44.97	- 7 28.4	2.338	3.163	12.5	21.5	7 20	22 43.27	+ 2 49.1	2.259	3.047	14.1	21.2
7 30	22 40.75	- 7 39.2	2.259	3.167	9.7	21.3	7 30	22 39.57	+ 2 35.0	2.173	3.048	11.5	21.0
8 9	22 34.85	- 7 59.2	2.202	3.170	6.5	21.1	8 9	22 34.17	+ 2 4.1	2.108	3.050	8.5	20.8
8 19	22 27.74	- 8 26.1	2.171	3.174	3.0	20.9	8 19	22 27.50	+ 1 17.3	2.067	3.051	5.4	20.6
8 29	22 20.07	- 8 56.3	2.168	3.177	0.8	20.7	8 29	22 20.22	+ 0 17.9	2.053	3.052	3.3	20.5
9 8	22 12.60	- 9 25.9	2.194	3.181	4.4	21.0	9 8	22 13.08	- 0 49.3	2.067	3.053	4.7	20.6
9 18	22 6.04	- 9 51.4	2.247	3.184	7.7	21.2	9 18	22 6.82	- 1 58.6	2.108	3.054	7.7	20.8
9 28	22 1.00	-10 9.9	2.325	3.188	10.7	21.4	9 28	22 2.08	- 3 4.4	2.176	3.055	10.7	21.0
342331	2008 <i>TJ</i> ₁₁₁		8 26.6 298°00	0°1/26.6	18		13357	Werkhoven		8 26.7 170°65	2°9/29.9	18	
7 20	22 46.80	- 8 58.5	1.636	2.484	16.0	20.7	7 20	22 45.42	+ 1 39.9	2.406	3.191	13.4	18.8
7 30	22 43.18	- 9 8.3	1.541	2.463	12.6	20.4	7 30	22 41.10	+ 1 31.2	2.319	3.194	10.9	18.6
8 9	22 37.07	- 9 30.4	1.467	2.442	8.4	20.2	8 9	22 35.12	+ 1 7.7	2.254	3.197	8.0	18.4
8 19	22 28.94	-10 1.8	1.416	2.420	3.8	19.8	8 19	22 27.91	+ 0 30.3	2.213	3.199	4.9	18.3
8 29	22 19.65	-10 37.3	1.390	2.399	1.2	19.6	8 29	22 20.11	- 0 18.1	2.200	3.201	3.0	18.1
9 8	22 10.39	-11 10.9	1.391	2.379	6.3	19.9	9 8	22 12.45	- 1 13.1	2.216	3.202	4.4	18.2
9 18	22 2.33	-11 37.3	1.416	2.358	11.0	20.1	9 18	22 5.65	- 2 10.1	2.260	3.203	7.4	18.4
9 28	21 56.49	-11 52.1	1.464	2.337	15.3	20.3	9 28	22 0.33	- 3 4.1	2.330	3.204	10.3	18.6
478237	2011 <i>UK</i> ₃₃₈		8 26.6 332°52	1.9/25.1	18		517904	2015 <i>TS</i> ₁₀₄		8 26.7 66°36	2°6/29.9	18	
7 20	22 47.18	-13 38.9	1.830	2.682	14.4	21.3	7 20	22 40.86	+ 1 58.0	2.540	3.337	12.6	21.4
7 30	22 42.99	-14 3.1	1.754	2.680	11.0	21.0	7 30	22 37.52	+ 1 35.8	2.462	3.340	10.2	21.2
8 9	22 36.61	-14 34.8	1.700	2.677	7.2	20.8	8 9	22 32.71	+ 0 58.6	2.397	3.342	7.5	21.1
8 19	22 28.59	-15 9.4	1.670	2.675	3.3	20.6	8 19	22 26.84	+ 0 8.0	2.357	3.344	4.6	20.9
8 29	22 19.80	-15 41.2	1.667	2.673	2.6	20.5	8 29	22 20.44	- 0 52.9	2.345	3.346	2.7	20.8
9 8	22 11.27	-16 5.3	1.692	2.671	6.4	20.8	9 8	22 14.18	- 1 59.7	2.361	3.349	4.1	20.9
9 18	22 3.96	-16 17.9	1.741	2.669	10.3	21.0	9 18	22 8.67	- 3 7.4	2.405	3.351	6.9	21.0
9 28	21 58.66	-16 17.3	1.814	2.667	13.7	21.2	9 28	22 4.46	- 4 11.3	2.476	3.353	9.6	21.2
55992	1998 <i>SX</i> ₈₂		8 26.6 351°79	1°0/25.9	18		40813	1999 <i>TJ</i> ₆₆		8 26.7 235°95	3°7/23.1	18	
7 20	22 49.70	-12 14.8	1.758	2.605	15.1	19.0	7 20	22 47.85	-20 28.8	2.350	3.199	11.7	19.6
7 30	22 44.99	-12 17.2	1.682	2.603	11.7	18.8	7 30	22 43.07	-21 2.7	2.273	3.195	9.0	19.4
8 9	22 37.96	-12 27.0	1.627	2.603	7.7	18.6	8 9	22 36.46	-21 38.0	2.219	3.191	6.2	19.2
8 19	22 29.19	-12 40.8	1.597	2.602	3.4	18.3	8 19	22 28.51	-22 10.0	2.192	3.187	3.9	19.1
8 29	22 19.63	-12 54.0	1.593	2.601	1.7	18.2	8 29	22 19.94	-22 33.8	2.192	3.183	4.2	19.1
9 8	22 10.36	-13 2.1	1.617	2.601	6.0	18.5	9 8	22 11.60	-22 45.8	2.220	3.179	6.7	19.2
9 18	22 2.42	-13 2.0	1.666	2.601	10.2	18.7	9 18	22 4.27	-22 44.0	2.275	3.174	9.6	19.4
9 28	21 56.62	-12 51.9	1.738	2.601	13.8	19.0	9 28	21 58.62	-22 27.9	2.354	3.170	12.2	19.6
476175	2007 <i>TZ</i> ₄₂₈		8 26.6 213°54	5°1/ 1.9	18		258960	2002 <i>RY</i> ₂₇₉		8 26.7 184°47	2°3/28.7	18	
7 20	22 44.45	+10 5.2	2.671	3.402	13.5	22.3	7 20	22 46.90	- 1 9.3	1.720	2.538	16.6	21.2
7 30	22 40.29	+10 6.5	2.567	3.394	11.5	22.1	7 30	22 42.93	- 1 27.9	1.639	2.538	13.3	21.0
8 9	22 34.56	+ 9 50.2	2.483	3.385	9.2	21.9	8 9	22 36.69	- 2 5.4	1.579	2.538	9.4	20.7
8 19	22 27.65	+ 9 15.6	2.424	3.375	6.9	21.8	8 19	22 28.72	- 2 59.6	1.541	2.538	5.2	20.5
8 29	22 20.10	+ 8 24.0	2.390	3.365	5.3	21.7	8 29	22 19.87	- 4 5.6	1.530	2.537	2.3	20.3
9 8	22 12.59	+ 7 18.7	2.385	3.355	5.5	21.7	9 8	22 11.22	- 5 16.6	1.546	2.536	5.4	20.5
9 18	22 5.81	+ 6 4.4	2.408	3.344	7.4	21.8	9 18	22 3.78	- 6 25.2	1.588	2.534	9.7	20.8
9 28	22 0.35	+ 4 47.0	2.458	3.332	9.8	21.9	9 28	21 58.42	- 7 25.2	1.654	2.532	13.5	21.0
97428	2000 <i>AT</i> ₁₉₉		8 26.6 268°58	5°1/20.9	18		108509	2001 <i>KO</i> ₆₉		8 26.7 34°83	3°9/22.8	18	
7 20	22 45.61	-19 44.0	1.990	2.851	13.0	19.0	7 20	22 42.81	-14 39.2	1.658	2.525	14.9	19.3
7 30	22 41.95	-21 18.9	1.901	2.830	10.1	18.8	7 30	22 39.85	-16 13.5	1.596	2.531	11.3	19.1
8 9	22 36.10	-23 1.2	1.835	2.809	7.1	18.6	8 9	22 34.66	-17 58.0	1.556	2.537	7.4	18.9
8 19	22 28.47	-24 43.2	1.796	2.787	5.2	18.4	8 19	22 27.80	-19 44.4	1.542	2.543	4.2	18.7
8 29	22 19.84	-26 15.7	1.783	2.765	6.2	18.4	8 29	22 20.16	-21 22.8	1.554	2.549	4.8	18.8
9 8	22 11.20	-27 30.9	1.798	2.742	9.1	18.6	9 8	22 12.81	-22 44.7	1.592	2.556	8.3	19.0
9 18	22 3.58	-28 23.6	1.838	2.719	12.4	18.7	9 18	22 6.73	-23 44.6	1.654	2.563	11.9	19.3
9 28	21 57.88	-28 52.0	1.899	2.696	15.4	18.9	9 28	22 2.72	-24 20.4	1.739	2.571	15.2	19.5
78010	2002 <i>JO</i> ₅₃		8 26.6 30°67	4.7/23.8	18		166387	2002 <i>NU</i> ₄		8 26.7 335°96	2°8/28.9		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
23911	1998 <i>SF</i> ₁₂₈		8 26.7 140°21	2.6/29.9	18		516091	2015 <i>TP</i> ₃₅₉		8 26.7 68°94	7.1/19.9	18	
7 20	22 41.65	+ 2 21.0	2.535	3.321	12.8	18.9	7 20	22 50.48	-30 49.5	2.199	3.049	12.3	20.8
7 30	22 38.13	+ 1 52.8	2.449	3.325	10.3	18.7	7 30	22 45.28	-31 43.3	2.142	3.054	10.0	20.6
8 9	22 33.13	+ 1 8.9	2.384	3.328	7.5	18.5	8 9	22 37.98	-32 31.3	2.109	3.058	8.0	20.5
8 19	22 27.03	+ 0 11.1	2.345	3.332	4.6	18.4	8 19	22 29.20	-33 6.8	2.100	3.063	7.1	20.5
8 29	22 20.42	- 0 57.2	2.334	3.335	2.6	18.2	8 29	22 19.82	-33 24.4	2.118	3.067	7.7	20.5
9 8	22 13.94	- 2 11.3	2.351	3.339	4.1	18.3	9 8	22 10.86	-33 20.8	2.161	3.072	9.6	20.6
9 18	22 8.23	- 3 25.9	2.397	3.342	6.9	18.5	9 18	22 3.20	-32 56.1	2.228	3.076	11.8	20.8
9 28	22 3.85	- 4 35.9	2.469	3.345	9.7	18.7	9 28	21 57.54	-32 12.2	2.317	3.081	13.9	21.0
361038	2005 <i>WG</i> ₂₀₈		8 26.7 160°99	4.6/21.4	18		59958	1999 <i>RJ</i> ₂₃₁		8 26.7 8°71	5.8/21.1	18	
7 20	22 45.58	-22 55.0	2.453	3.307	11.1	20.8	7 20	22 44.94	-23 23.1	1.887	2.755	13.3	18.3
7 30	22 41.29	-23 57.0	2.386	3.309	8.6	20.7	7 30	22 41.32	-24 32.4	1.825	2.756	10.4	18.1
8 9	22 35.26	-24 59.6	2.343	3.312	6.2	20.5	8 9	22 35.55	-25 42.4	1.786	2.757	7.6	17.9
8 19	22 27.99	-25 57.1	2.327	3.314	4.7	20.4	8 19	22 28.19	-26 45.7	1.772	2.759	5.9	17.8
8 29	22 20.14	-26 44.1	2.338	3.315	5.3	20.5	8 29	22 20.12	-27 35.0	1.784	2.761	6.6	17.9
9 8	22 12.51	-27 16.4	2.377	3.317	7.4	20.6	9 8	22 12.35	-28 5.0	1.821	2.763	9.1	18.0
9 18	22 5.84	-27 31.9	2.441	3.318	9.9	20.8	9 18	22 5.83	-28 13.6	1.882	2.766	12.0	18.2
9 28	22 0.75	-27 30.3	2.529	3.320	12.2	21.0	9 28	22 1.31	-28 1.1	1.964	2.769	14.7	18.4
379992	2012 <i>VZ</i> ₁₁₁		8 26.7 6°03	6.4/30.2	18		340347	2006 <i>DJ</i> ₆₇		8 26.7 101°66	5.2/22.7	16	
7 20	22 50.10	+ 1 34.5	1.430	2.244	19.5	19.2	7 20	22 53.20	-23 3.4	1.870	2.724	14.0	20.2
7 30	22 45.84	+ 2 51.6	1.356	2.244	16.2	19.0	7 30	22 47.48	-23 44.8	1.815	2.738	10.9	20.1
8 9	22 38.85	+ 3 51.7	1.301	2.245	12.4	18.8	8 9	22 39.47	-24 25.3	1.782	2.751	7.7	19.9
8 19	22 29.75	+ 4 32.2	1.267	2.247	8.6	18.6	8 19	22 29.86	-24 58.4	1.774	2.764	5.4	19.8
8 29	22 19.58	+ 4 52.3	1.257	2.249	6.5	18.5	8 29	22 19.64	-25 18.0	1.793	2.777	5.8	19.8
9 8	22 9.68	+ 4 54.4	1.272	2.252	7.8	18.5	9 8	22 9.94	-25 20.2	1.838	2.790	8.4	20.0
9 18	22 1.31	+ 4 43.3	1.310	2.256	11.3	18.8	9 18	22 1.74	-25 4.3	1.909	2.802	11.4	20.2
9 28	21 55.47	+ 4 25.5	1.371	2.261	15.0	19.0	9 28	21 55.76	-24 31.5	2.003	2.814	14.2	20.5
49421	1998 <i>XC</i> ₇₇		8 26.7 182°67	1°3/27.9	18		84565	2002 <i>VA</i> ₉		8 26.7 307°06	4°3/23.1	18	
7 20	22 45.21	- 4 5.5	2.066	2.887	14.1	18.7	7 20	22 44.86	-15 34.4	1.414	2.289	16.5	19.0
7 30	22 41.23	- 4 21.3	1.984	2.887	11.1	18.5	7 30	22 42.03	-16 47.5	1.339	2.278	12.7	18.8
8 9	22 35.36	- 4 50.6	1.923	2.887	7.7	18.3	8 9	22 36.48	-18 12.4	1.285	2.267	8.5	18.5
8 19	22 28.08	- 5 30.9	1.887	2.887	3.9	18.0	8 19	22 28.77	-19 40.6	1.254	2.256	4.9	18.3
8 29	22 20.11	- 6 18.3	1.878	2.886	1.4	17.9	8 29	22 19.92	-21 1.6	1.247	2.245	5.3	18.3
9 8	22 12.32	- 7 7.7	1.897	2.886	4.7	18.1	9 8	22 11.26	-22 5.7	1.266	2.235	9.4	18.5
9 18	22 5.53	- 7 54.0	1.943	2.886	8.4	18.3	9 18	22 4.07	-22 46.6	1.307	2.225	13.7	18.7
9 28	22 0.44	- 8 32.8	2.014	2.885	11.8	18.5	9 28	21 59.40	-23 2.3	1.368	2.216	17.7	18.9
293511	2007 <i>GQ</i> ₂₉		8 26.7 156°32	5°0/2.7	18		302810	2003 <i>BA</i> ₃₁		8 26.7 313°60	3°2/28.8	17	
7 20	22 43.29	+11 22.7	3.114	3.827	12.0	21.6	7 20	22 45.28	- 2 22.4	1.668	2.496	16.6	20.5
7 30	22 39.11	+11 31.2	3.023	3.835	10.3	21.5	7 30	22 42.13	- 1 59.3	1.559	2.463	13.6	20.2
8 9	22 33.64	+11 24.3	2.954	3.841	8.3	21.4	8 9	22 36.52	- 1 51.0	1.470	2.430	9.9	19.9
8 19	22 27.23	+11 1.9	2.908	3.848	6.4	21.2	8 19	22 28.85	- 1 57.6	1.402	2.397	5.8	19.6
8 29	22 20.38	+10 24.7	2.889	3.853	5.1	21.2	8 29	22 19.87	- 2 17.3	1.360	2.365	3.2	19.4
9 8	22 13.64	+ 9 35.6	2.898	3.859	5.2	21.2	9 8	22 10.72	- 2 46.0	1.343	2.333	6.1	19.5
9 18	22 7.55	+ 8 38.1	2.935	3.864	6.5	21.3	9 18	22 2.58	- 3 18.3	1.351	2.301	10.6	19.6
9 28	22 2.59	+ 7 36.6	2.999	3.868	8.4	21.4	9 28	21 56.55	- 3 48.2	1.381	2.270	15.0	19.8
316464	2010 <i>UT</i> ₉₅		8 26.7 333°20	0°8/25.8	18		377988	2006 <i>QY</i> ₁₆₀		8 26.7 343°72	0°9/27.2	15	
7 20	22 40.72	- 8 30.3	1.819	2.671	14.5	19.9	7 20	22 36.86	- 6 14.2	0.962	1.853	21.1	20.9
7 30	22 38.13	- 9 19.7	1.735	2.660	11.2	19.7	7 30	22 36.67	- 6 21.7	0.892	1.836	16.8	20.6
8 9	22 33.51	-10 23.2	1.673	2.650	7.4	19.5	8 9	22 33.39	- 6 52.0	0.838	1.821	11.5	20.2
8 19	22 27.33	-11 36.3	1.635	2.640	3.2	19.2	8 19	22 27.55	- 7 42.1	0.803	1.808	5.4	19.9
8 29	22 20.33	-12 52.4	1.623	2.631	1.7	19.1	8 29	22 20.29	- 8 44.5	0.788	1.797	1.5	19.5
9 8	22 13.47	-14 4.2	1.638	2.623	5.9	19.3	9 8	22 13.24	- 9 48.1	0.793	1.788	7.8	19.9
9 18	22 7.65	-15 5.1	1.679	2.615	10.0	19.6	9 18	22 7.96	-10 42.2	0.819	1.781	13.8	20.2
9 28	22 3.66	-15 50.8	1.742	2.607	13.6	19.8	9 28	22 5.70	-11 18.7	0.863	1.776	19.2	20.5
86435	2000 <i>CL</i> ₉		8 26.7 31°57	2°2/29.2	18		309302	2007 <i>RL</i> ₂₄₃		8 26.7 7°59	4°1/24.0	18	
7 20	22 41.59	- 1 13.5	2.790	3.587	11.4	18.7	7 20	22 36.68	-13 20.8	0.797	1.713	21.7	18.5
7 30	22 37.91	- 1 11.3	2.708	3.594	9.1	18.6	7 30	22 36.84	-14 19.7	0.752	1.713	16.6	18.2
8 9	22 32.89	- 1 19.9	2.649	3.600	6.5	18.4	8 9	22 33.53	-15 35.4	0.724	1.715	10.9	18.0
8 19	22 26.91	- 1 38.1	2.615	3.606	3.9	18.2	8 19	22 27.54	-16 57.1	0.713	1.720	5.4	17.7
8 29	22 20.49	- 2 3.6	2.610	3.613	2.2	18.1	8 29	22 20.35	-18 10.5	0.722	1.727	5.3	17.7
9 8	22 14.22	- 2 33.6	2.632	3.620	3.7	18.2	9 8	22 13.79	-19 3.1	0.751	1.736	10.6	18.0
9 18	22 8.66	- 3 4.7	2.683	3.627	6.3	18.4	9 18	22 9.41	-19 27.9	0.797	1.747	16.1	18.4
9 28	22 4.31	- 3 33.7	2.760	3.634	8.9	18.6	9 28	22 8.23	-19 23.2	0.861	1.759	20.8	18.7
190275	4275 <i>P-L</i>		8 26.7 331°48	6°8/1.6	18		505184	2012 <i>TW</i> ₁₁₀		8 26.7 208°34	2°1/24.9	18	
7 20	22 36.41	+ 7 59.1	1.297	2.114	21.0	19.5	7 20	22 51.23	-15 10.9	2.042	2.884	13.5	21.5
7 30	22 35.65	+ 8 1.9	1.207	2.093	17.9	19.2	7 30	22 45.93	-15 28.8	1.961	2.880	10.4	21.3
8 9	22 32.38	+ 7 32.1	1.133	2.073	14.2	19.0	8 9	22 38.52	-15 51.8	1.902	2.877	6.9	21.1
8 19	22 27.01	+ 6 26.9	1.077	2.054	10.1	18.7	8 19	22 29.51	-16 15.5	1.869	2.873	3.3	20.9
8 29	22 20.41	+ 4 48.3	1.043	2.037	7.1	18.5	8 29	22 19.75	-16 35.3	1.864	2.868	2.7	20.8
9 8	22 13.83	+ 2 44.6	1.032	2.020	7.7	18.4	9 8	22 10.23	-16 46.9	1.887	2.863	6.1	21.0
9 18	22 8.53	+ 0 28.5	1.044	2.005	11.6	18.6	9 18	22 1.88	-16 47.6	1.937	2.858	9.8	21.3
9 28	22 5.63	- 1 45.2	1.077	1.991	16.1	18.8	9 28	21 55.47	-16 36.3	2.011	2.853	13.0	21.5
384350	2009 <i>UQ</i> ₁		8 26.7 315°37	1°2/27.3	18		445408	2010 <i>TO</i> ₇₀		8 26.7			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
467730	2009 JY ₁₇		8 26.7	47°89	17°0/16.3	17	92246	2000 AQ ₁₅₃		8 26.7	311°68	2°2/28.5	18
7 20	22 44.31	+31 11.4	1.461	2.098	26.1	21.0	7 20	22 45.54	-3 33.8	2.066	2.884	14.2	18.6
7 30	22 41.73	+32 45.3	1.400	2.109	24.4	20.9	7 30	22 41.62	-3 18.8	1.971	2.870	11.4	18.4
8 9	22 36.34	+33 40.6	1.350	2.120	22.5	20.8	8 9	22 35.73	-3 15.7	1.897	2.857	8.1	18.1
8 19	22 28.72	+33 49.6	1.311	2.131	20.4	20.6	8 19	22 28.34	-3 23.5	1.848	2.844	4.5	17.9
8 29	22 19.98	+33 7.2	1.287	2.143	18.6	20.6	8 29	22 20.13	-3 40.0	1.825	2.831	2.2	17.7
9 8	22 11.51	+31 34.7	1.280	2.155	17.3	20.5	9 8	22 12.01	-4 1.4	1.830	2.819	4.9	17.9
9 18	22 4.65	+29 19.9	1.292	2.167	17.0	20.5	9 18	22 4.83	-4 23.8	1.861	2.806	8.5	18.1
9 28	22 0.46	+26 36.0	1.324	2.180	17.6	20.6	9 28	21 59.36	-4 43.1	1.917	2.794	12.0	18.3
205204	2000 EO ₁₇₈		8 26.7	134°87	1°3/25.3	15	254192	2004 RP ₄₁		8 26.7	22°48	1°5/25.3	18
7 20	22 46.75	-11 33.5	2.252	3.089	12.6	22.0	7 20	22 45.10	-12 36.0	1.920	2.771	13.8	20.2
7 30	22 42.20	-12 14.7	2.182	3.099	9.6	21.8	7 30	22 41.26	-13 2.8	1.850	2.775	10.6	20.0
8 9	22 35.88	-13 3.9	2.134	3.109	6.2	21.6	8 9	22 35.44	-13 37.4	1.802	2.779	6.9	19.8
8 19	22 28.30	-13 56.8	2.114	3.118	2.7	21.4	8 19	22 28.15	-14 15.5	1.778	2.783	3.1	19.6
8 29	22 20.15	-14 48.2	2.121	3.127	1.9	21.3	8 29	22 20.21	-14 52.0	1.782	2.788	2.2	19.5
9 8	22 12.25	-15 33.4	2.157	3.136	5.3	21.6	9 8	22 12.56	-15 21.7	1.813	2.793	5.9	19.8
9 18	22 5.35	-16 8.5	2.221	3.144	8.6	21.8	9 18	22 6.04	-15 41.1	1.869	2.799	9.5	20.0
9 28	22 0.09	-16 31.3	2.308	3.152	11.5	22.0	9 28	22 1.36	-15 48.0	1.949	2.805	12.8	20.2
384520	2010 DR ₁		8 26.7	147°82	2°3/28.7	18	339087	2004 RV ₁₀₀		8 26.7	3°16	4°7/30.9	16
7 20	22 49.33	-2 24.4	2.102	2.906	14.4	20.9	7 20	22 33.71	+4 27.5	1.067	1.920	22.3	20.4
7 30	22 44.31	-2 17.0	2.023	2.913	11.5	20.8	7 30	22 33.77	+4 4.3	1.003	1.917	18.3	20.2
8 9	22 37.36	-2 22.6	1.965	2.920	8.2	20.6	8 9	22 31.16	+3 5.6	0.955	1.917	13.7	19.9
8 19	22 28.98	-2 39.9	1.932	2.926	4.6	20.4	8 19	22 26.46	+1 32.7	0.926	1.918	8.6	19.6
8 29	22 19.94	-3 6.0	1.926	2.932	2.3	20.2	8 29	22 20.72	-0 27.0	0.918	1.922	4.8	19.4
9 8	22 11.12	-3 36.9	1.949	2.937	4.8	20.4	9 8	22 15.29	-2 39.8	0.932	1.927	6.8	19.6
9 18	22 3.38	-4 8.2	2.000	2.942	8.3	20.6	9 18	22 11.41	-4 50.5	0.969	1.934	11.7	19.9
9 28	21 57.41	-4 35.9	2.075	2.946	11.5	20.8	9 28	22 10.07	-6 45.4	1.026	1.943	16.4	20.2
74370	Kolárĵan		8 26.7	183°28	3°8/22.5	18	117417	2005 AS ₁₅		8 26.7	101°12	1°9/24.7	18
7 20	22 48.83	-21 13.9	2.628	3.471	10.8	20.8	7 20	22 43.78	-10 26.3	1.858	2.708	14.3	19.7
7 30	22 43.65	-22 2.2	2.553	3.471	8.3	20.6	7 30	22 40.39	-11 41.3	1.786	2.711	10.9	19.5
8 9	22 36.79	-22 51.8	2.502	3.471	5.8	20.5	8 9	22 34.96	-13 9.0	1.736	2.714	7.1	19.3
8 19	22 28.69	-23 37.6	2.479	3.471	3.9	20.3	8 19	22 27.99	-14 43.3	1.712	2.717	3.2	19.1
8 29	22 20.03	-24 15.0	2.484	3.469	4.3	20.4	8 29	22 20.28	-16 16.1	1.715	2.720	2.7	19.0
9 8	22 11.56	-24 40.1	2.518	3.468	6.5	20.5	9 8	22 12.78	-17 39.6	1.746	2.723	6.5	19.3
9 18	22 4.02	-24 50.9	2.579	3.465	9.1	20.7	9 18	22 6.40	-18 47.7	1.803	2.726	10.3	19.5
9 28	21 58.02	-24 47.0	2.664	3.462	11.5	20.8	9 28	22 1.88	-19 37.0	1.883	2.729	13.6	19.7
79701	1998 SM ₇₅		8 26.7	233°20	3°0/30.3	18	326851	2003 UT ₁₆₈		8 26.7	311°06	1°4/27.6	17
7 20	22 44.71	+3 32.6	2.747	3.515	12.3	20.7	7 20	22 44.74	-5 40.2	1.255	2.114	19.2	20.4
7 30	22 40.52	+3 10.2	2.636	3.498	10.1	20.5	7 30	22 42.37	-5 39.2	1.165	2.091	15.3	20.1
8 9	22 34.78	+2 32.4	2.546	3.481	7.5	20.3	8 9	22 37.04	-5 56.6	1.094	2.068	10.7	19.7
8 19	22 27.85	+1 39.9	2.482	3.463	4.8	20.1	8 19	22 29.20	-6 30.6	1.042	2.046	5.3	19.4
8 29	22 20.26	+0 35.3	2.446	3.444	3.0	19.9	8 29	22 19.85	-7 16.4	1.014	2.023	1.7	19.1
9 8	22 12.67	-0 37.2	2.440	3.425	4.2	20.0	9 8	22 10.46	-8 5.9	1.010	2.002	7.1	19.4
9 18	22 5.74	-1 52.8	2.463	3.404	6.9	20.1	9 18	22 2.51	-8 51.0	1.028	1.981	12.8	19.6
9 28	22 0.06	-3 6.2	2.513	3.383	9.8	20.3	9 28	21 57.31	-9 24.5	1.066	1.961	17.9	19.8
224125	2005 QF ₁₆		8 26.7	34°59	0°4/26.9	17	390067	2012 UO ₁₀₄		8 26.7	195°85	4°5/30.4	18
7 20	22 45.30	-6 40.8	1.201	2.065	19.5	20.4	7 20	22 48.74	+2 40.0	2.042	2.827	15.5	21.0
7 30	22 42.32	-7 3.4	1.148	2.078	15.2	20.1	7 30	22 44.04	+3 8.9	1.955	2.825	12.8	20.8
8 9	22 36.55	-7 44.3	1.113	2.091	10.1	19.9	8 9	22 37.31	+3 22.1	1.887	2.824	9.6	20.6
8 19	22 28.72	-8 38.5	1.100	2.105	4.6	19.6	8 19	22 29.03	+3 19.2	1.844	2.822	6.5	20.4
8 29	22 20.03	-9 38.1	1.110	2.120	1.2	19.4	8 29	22 19.96	+3 1.6	1.826	2.820	4.5	20.3
9 8	22 11.89	-10 34.2	1.145	2.135	6.7	19.8	9 8	22 11.02	+2 32.6	1.836	2.818	5.7	20.3
9 18	22 5.50	-11 19.5	1.202	2.152	11.8	20.2	9 18	22 3.12	+1 56.8	1.873	2.816	8.7	20.5
9 28	22 1.75	-11 49.3	1.281	2.168	16.0	20.5	9 28	21 57.03	+1 19.6	1.935	2.813	11.9	20.7
13483	1980 SF		8 26.7	332°18	0°2/26.8	18	378130	2006 VJ ₁₇		8 26.7	165°08	0°5/26.3	17
7 20	22 39.99	-7 3.8	1.132	2.010	19.5	17.6	7 20	22 49.61	-8 55.6	1.817	2.653	15.1	21.9
7 30	22 38.79	-7 24.2	1.053	1.991	15.4	17.3	7 30	22 44.89	-9 23.9	1.742	2.657	11.7	21.6
8 9	22 34.67	-8 5.3	0.992	1.973	10.5	16.9	8 9	22 37.94	-10 4.0	1.688	2.661	7.8	21.4
8 19	22 28.10	-9 3.5	0.950	1.956	4.8	16.6	8 19	22 29.31	-10 51.7	1.659	2.664	3.4	21.2
8 29	22 20.16	-10 11.2	0.930	1.940	1.4	16.3	8 29	22 19.89	-11 41.3	1.657	2.666	1.3	21.0
9 8	22 12.31	-11 17.9	0.933	1.925	7.6	16.6	9 8	22 10.75	-12 26.8	1.683	2.668	5.7	21.3
9 18	22 6.04	-12 14.0	0.958	1.912	13.3	16.9	9 18	22 2.85	-13 3.3	1.735	2.670	9.9	21.6
9 28	22 2.58	-12 52.1	1.001	1.901	18.4	17.1	9 28	21 57.01	-13 27.4	1.811	2.671	13.5	21.8
32560	2001 QV ₃₁		8 26.7	275°89	6°2/21.6	18	282776	2006 JB ₅₇		8 26.7	350°96	15°6/7.5	18
7 20	22 49.29	-22 28.7	1.651	2.518	14.9	17.6	7 20	22 44.06	-42 43.9	1.383	2.251	17.2	18.5
7 30	22 45.19	-23 35.4	1.574	2.504	11.7	17.4	7 30	22 42.39	-45 37.7	1.351	2.244	16.0	18.4
8 9	22 38.45	-24 45.1	1.518	2.491	8.5	17.2	8 9	22 37.23	-48 12.8	1.339	2.238	15.6	18.3
8 19	22 29.63	-25 49.5	1.487	2.477	6.3	17.0	8 19	22 29.26	-50 14.3	1.348	2.233	16.3	18.4
8 29	22 19.73	-26 39.4	1.481	2.463	7.1	17.0	8 29	22 19.88	-51 30.9	1.375	2.229	17.7	18.5
9 8	22 10.03	-27 8.0	1.500	2.449	10.1	17.2	9 8	22 10.98	-51 58.5	1.420	2.226	19.5	18.6
9 18	22 1.77	-27 12.2	1.543	2.435	13.7	17.4	9 18	22 4.23	-51 39.4	1.479	2.225	21.4	18.7
9 28	21 55.92	-26 52.5	1.606	2.421	17.0	17.5	9 28	22 0.81	-50 40.1	1.550	2.224	23.0	18.9
267680	2002 UW ₁₀		8 26.7	303°46	1°2/27.5	18	304665	2006 WB ₇₀		8 26.7	319°66	5°7/22.1	18
7 20	22 45.41	-5 41.4	1.408	2.259	17.9	20.7	7 20	22 48					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
25064	1998 QN ₈₅		8 26.7 200°71	5°5/ 1.0 18			514817	2007 UE ₉₄		8 26.7 268°57	1°4/27.9 18		
7 20	22 46.92	+ 7 25.3	2.239	2.994	15.1	18.4	7 20	22 45.55	- 4 14.4	1.983	2.805	14.5	21.9
7 30	22 42.51	+ 7 51.6	2.146	2.992	12.7	18.2	7 30	22 41.71	- 4 24.8	1.891	2.795	11.5	21.7
8 9	22 36.25	+ 8 0.4	2.074	2.989	10.1	18.0	8 9	22 35.86	- 4 49.0	1.821	2.785	8.0	21.5
8 19	22 28.56	+ 7 50.7	2.025	2.985	7.4	17.8	8 19	22 28.44	- 5 25.0	1.775	2.774	4.1	21.2
8 29	22 20.13	+ 7 23.2	2.001	2.982	5.7	17.7	8 29	22 20.20	- 6 8.9	1.756	2.764	1.5	21.0
9 8	22 11.79	+ 6 41.3	2.005	2.978	6.2	17.8	9 8	22 12.05	- 6 55.5	1.764	2.753	4.9	21.2
9 18	22 4.35	+ 5 49.6	2.036	2.973	8.4	17.9	9 18	22 4.90	- 7 39.7	1.799	2.743	8.9	21.5
9 28	21 58.54	+ 4 53.9	2.092	2.969	11.2	18.1	9 28	21 59.52	- 8 16.8	1.858	2.732	12.5	21.7
496639	2015 VL ₁₁₈		8 26.7 311°04	15°2/11.2 17			479658	2014 DX ₆₆		8 26.7 152°71	6°8/20.9 18		
7 20	22 39.84	+26 1.6	1.140	1.859	28.6	21.2	7 20	22 52.87	-28 17.3	1.989	2.841	13.4	21.7
7 30	22 38.87	+26 37.0	1.063	1.853	26.3	21.0	7 30	22 47.35	-29 7.8	1.927	2.843	10.7	21.6
8 9	22 34.84	+26 23.7	0.995	1.847	23.4	20.7	8 9	22 39.51	-29 54.0	1.887	2.845	8.2	21.4
8 19	22 28.24	+25 11.1	0.941	1.841	20.2	20.5	8 19	22 29.99	-30 28.8	1.873	2.847	6.8	21.3
8 29	22 20.18	+22 53.4	0.902	1.836	17.1	20.3	8 29	22 19.77	-30 45.9	1.885	2.848	7.5	21.4
9 8	22 12.25	+19 35.0	0.882	1.831	15.3	20.2	9 8	22 9.98	-30 41.6	1.923	2.850	9.7	21.5
9 18	22 6.01	+15 32.0	0.884	1.826	15.7	20.2	9 18	22 1.63	-30 15.7	1.985	2.851	12.3	21.7
9 28	22 2.77	+11 9.9	0.908	1.822	18.3	20.3	9 28	21 55.49	-29 30.3	2.068	2.852	14.8	21.9
95953	2003 QV ₁₉		8 26.7 210°00	1°8/24.8 18			235831	2004 XR ₁₆₀		8 26.7 123°68	4°0/29.8 18		
7 20	22 46.75	-15 18.8	2.723	3.559	10.6	19.4	7 20	22 50.19	+ 0 45.5	1.982	2.775	15.6	20.2
7 30	22 41.98	-15 40.5	2.638	3.555	8.2	19.2	7 30	22 45.13	+ 1 17.0	1.903	2.782	12.7	20.0
8 9	22 35.67	-16 5.9	2.577	3.551	5.4	19.0	8 9	22 38.01	+ 1 33.8	1.845	2.788	9.4	19.8
8 19	22 28.23	-16 32.0	2.544	3.546	2.6	18.9	8 19	22 29.34	+ 1 35.8	1.811	2.795	6.0	19.6
8 29	22 20.25	-16 55.1	2.539	3.542	2.3	18.8	8 29	22 19.95	+ 1 24.8	1.803	2.801	4.0	19.5
9 8	22 12.42	-17 11.8	2.563	3.536	4.9	19.0	9 8	22 10.80	+ 1 4.0	1.823	2.807	5.5	19.6
9 18	22 5.41	-17 19.9	2.615	3.531	7.8	19.2	9 18	22 2.78	+ 0 37.8	1.870	2.813	8.7	19.8
9 28	21 59.78	-17 18.2	2.692	3.525	10.4	19.3	9 28	21 56.64	+ 0 11.1	1.942	2.818	11.9	20.0
488019	2015 UL ₁₅		8 26.7 317°56	6°0/21.6 17			347981	2003 SM ₉₅		8 26.7 5°34	3°1/25.5 18		
7 20	22 47.52	-24 31.1	1.861	2.725	13.6	21.3	7 20	22 52.23	-17 24.4	1.006	1.894	20.7	19.4
7 30	22 43.57	-25 17.7	1.777	2.705	10.8	21.1	7 30	22 48.45	-17 4.7	0.949	1.893	16.1	19.1
8 9	22 37.25	-26 4.3	1.716	2.685	7.9	20.9	8 9	22 41.04	-16 48.4	0.910	1.893	10.7	18.9
8 19	22 29.08	-26 43.9	1.678	2.665	6.1	20.7	8 19	22 30.87	-16 29.9	0.890	1.895	5.2	18.6
8 29	22 19.96	-27 9.3	1.667	2.646	6.8	20.7	8 29	22 19.52	-16 3.1	0.892	1.898	3.8	18.5
9 8	22 11.02	-27 15.5	1.681	2.627	9.4	20.8	9 8	22 8.88	-15 24.3	0.917	1.903	9.0	18.8
9 18	22 3.32	-27 0.3	1.719	2.609	12.6	21.0	9 18	22 0.59	-14 32.9	0.963	1.909	14.4	19.1
9 28	21 57.77	-26 24.3	1.777	2.591	15.7	21.2	9 28	21 55.74	-13 30.0	1.029	1.916	19.1	19.4
346968	2010 CZ ₃₁		8 26.7 187°93	0°1/26.6 17			511307	2014 DJ ₈₈		8 26.7 109°65	0°7/27.3 17		
7 20	22 46.18	- 7 17.5	2.119	2.947	13.5	22.1	7 20	22 47.40	- 6 7.6	2.036	2.860	14.2	21.7
7 30	22 41.98	- 7 56.0	2.036	2.946	10.5	21.9	7 30	22 42.86	- 6 25.2	1.966	2.872	11.0	21.5
8 9	22 35.90	- 8 46.7	1.975	2.946	7.0	21.6	8 9	22 36.42	- 6 54.6	1.917	2.884	7.4	21.4
8 19	22 28.39	- 9 45.8	1.940	2.944	3.1	21.4	8 19	22 28.61	- 7 32.9	1.894	2.896	3.5	21.1
8 29	22 20.19	-10 48.3	1.934	2.943	1.0	21.2	8 29	22 20.19	- 8 15.7	1.898	2.907	1.0	21.0
9 8	22 12.15	-11 48.2	1.955	2.941	5.0	21.5	9 8	22 12.06	- 8 57.9	1.931	2.918	4.8	21.3
9 18	22 5.09	-12 40.5	2.004	2.938	8.8	21.7	9 18	22 5.03	- 9 35.1	1.990	2.929	8.5	21.5
9 28	21 59.73	-13 21.4	2.077	2.935	12.0	22.0	9 28	21 59.78	-10 3.8	2.074	2.940	11.7	21.7
428103	2006 QU ₁₆₂		8 26.7 8°52	3°8/29.0 17			228639	2002 CA ₃₀₉		8 26.7 205°96	1°5/25.5 18		
7 20	22 44.52	- 2 0.5	1.114	1.971	21.2	20.5	7 20	22 48.52	-12 12.8	1.766	2.614	15.0	21.0
7 30	22 42.10	- 1 34.9	1.051	1.971	17.1	20.3	7 30	22 44.17	-12 39.4	1.690	2.614	11.5	20.7
8 9	22 36.68	- 1 31.4	1.005	1.973	12.3	20.0	8 9	22 37.53	-13 15.2	1.636	2.613	7.6	20.5
8 19	22 28.92	- 1 49.3	0.979	1.976	7.1	19.8	8 19	22 29.18	-13 55.4	1.607	2.612	3.4	20.2
8 29	22 20.03	- 2 24.4	0.974	1.980	3.8	19.6	8 29	22 20.01	-14 34.3	1.604	2.611	2.2	20.2
9 8	22 11.54	- 3 9.3	0.992	1.985	7.0	19.8	9 8	22 11.10	-15 6.1	1.629	2.610	6.3	20.4
9 18	22 4.82	- 3 55.4	1.033	1.991	12.1	20.1	9 18	22 3.47	-15 26.7	1.678	2.609	10.4	20.7
9 28	22 0.94	- 4 34.8	1.093	1.998	16.7	20.4	9 28	21 57.93	-15 33.7	1.751	2.608	14.0	20.9
35723	1999 FT ₄₂		8 26.7 324°64	2°2/25.6 18			504434	2008 AQ ₉₇		8 26.7 103°83	1°6/25.5 17		
7 20	22 47.29	-13 24.1	1.103	1.985	19.6	17.0	7 20	22 50.78	-11 41.1	1.546	2.398	16.6	21.5
7 30	22 44.67	-13 31.4	1.027	1.969	15.3	16.7	7 30	22 46.05	-12 14.6	1.485	2.410	12.7	21.3
8 9	22 38.69	-13 49.9	0.969	1.953	10.2	16.3	8 9	22 38.81	-12 58.7	1.444	2.421	8.3	21.1
8 19	22 29.95	-14 14.0	0.932	1.938	4.6	16.0	8 19	22 29.73	-13 47.8	1.428	2.433	3.7	20.8
8 29	22 19.69	-14 36.0	0.917	1.924	3.1	15.8	8 29	22 19.86	-14 34.8	1.437	2.444	2.4	20.8
9 8	22 9.63	-14 48.0	0.924	1.911	8.7	16.1	9 8	22 10.45	-15 13.2	1.473	2.455	6.8	21.1
9 18	22 1.43	-14 45.0	0.952	1.899	14.4	16.4	9 18	22 2.59	-15 38.4	1.534	2.465	11.1	21.4
9 28	21 56.40	-14 24.4	0.999	1.888	19.4	16.7	9 28	21 57.12	-15 48.3	1.617	2.476	14.8	21.6
392110	2009 EK ₂₁		8 26.7 150°13	21°8/11.3 18			479831	2014 FQ ₆₅		8 26.7 178°24	2°2/29.1 18		
7 20	23 21.25	-55 57.9	1.214	2.012	23.3	20.6	7 20	22 44.43	+ 0 1.2	2.214	3.014	13.9	21.7
7 30	23 13.11	-58 10.2	1.198	2.017	22.2	20.6	7 30	22 40.55	- 0 25.7	2.128	3.015	11.2	21.5
8 9	22 58.29	-59 47.3	1.196	2.022	21.8	20.6	8 9	22 34.92	- 1 8.7	2.063	3.016	8.0	21.3
8 19	22 38.50	-60 31.3	1.208	2.027	21.9	20.6	8 19	22 27.97	- 2 5.9	2.023	3.016	4.5	21.1
8 29	22 17.33	-60 11.1	1.236	2.031	22.7	20.7	8 29	22 20.38	- 3 13.4	2.011	3.016	2.2	21.0
9 8	21 58.86	-58 48.3	1.278	2.034	23.8	20.8	9 8	22 12.92	- 4 25.5	2.027	3.016	4.5	21.1
9 18	21 45.69	-56 34.3	1.334	2.037	25.1	20.9	9 18	22 6.37	- 5 36.4	2.071	3.015	7.9	21.3
9 28	21 38.67	-53 44.1	1.401	2.039	26.4	21.1	9 28	22 1.39	- 6 40.8	2.141	3.015	11.1	21.5
96658	1999 JC ₆		8 26.7 269°28	3°6/24.4 18			474367	2002 RA ₁₁₆		8 26.7 8°43	1°9/27.7 18		
7 20	22 52												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V	
245221	2004 <i>XJ</i> ₂₈	8 26.7 279°95 14.2/12.3 18						445411	2010 <i>TV</i> ₈₇	8 26.7 316°88 0°3/26.4 18				
7 20	22 44.28	+31 22.7	2.092	2.678	20.2	20.6	7 20	22 44.49	- 8 54.5	2.073	2.911	13.4	21.5	
7 30	22 41.21	+32 24.6	1.984	2.655	19.1	20.5	7 30	22 40.75	- 9 18.4	1.991	2.907	10.4	21.3	
8 9	22 35.86	+32 57.9	1.887	2.631	17.8	20.3	8 9	22 35.13	- 9 52.7	1.930	2.903	6.9	21.1	
8 19	22 28.59	+32 56.2	1.805	2.607	16.3	20.1	8 19	22 28.10	-10 33.9	1.895	2.900	3.0	20.8	
8 29	22 20.14	+32 14.2	1.740	2.583	15.1	20.0	8 29	22 20.38	-11 17.5	1.887	2.896	1.1	20.7	
9 8	22 11.55	+30 50.7	1.694	2.558	14.3	19.9	9 8	22 12.83	-11 58.4	1.907	2.893	5.1	20.9	
9 18	22 3.92	+28 49.1	1.670	2.533	14.4	19.8	9 18	22 6.26	-12 32.2	1.953	2.889	8.8	21.2	
9 28	21 58.25	+26 18.0	1.669	2.509	15.4	19.9	9 28	22 1.38	-12 55.7	2.023	2.886	12.1	21.4	
194067	2001 <i>SQ</i> ₁₃₉	8 26.7 3°91 2°4/24.3 18						396179	2013 <i>GR</i> ₃₀	8 26.7 41°83 2°1/28.8 18				
7 20	22 45.69	-16 56.9	2.396	3.243	11.6	19.7	7 20	22 43.13	- 1 44.9	1.996	2.813	14.7	20.5	
7 30	22 41.37	-17 19.5	2.320	3.243	8.8	19.5	7 30	22 39.64	- 1 57.4	1.927	2.826	11.6	20.3	
8 9	22 35.36	-17 45.3	2.268	3.243	5.9	19.3	8 9	22 34.34	- 2 25.0	1.879	2.838	8.2	20.1	
8 19	22 28.13	-18 10.6	2.242	3.244	3.1	19.1	8 19	22 27.72	- 3 5.5	1.855	2.851	4.5	19.9	
8 29	22 20.35	-18 31.2	2.244	3.244	2.9	19.1	8 29	22 20.54	- 3 54.9	1.858	2.864	2.1	19.8	
9 8	22 12.79	-18 43.5	2.274	3.245	5.7	19.3	9 8	22 13.61	- 4 48.0	1.888	2.878	4.6	20.0	
9 18	22 6.18	-18 45.5	2.331	3.246	8.6	19.5	9 18	22 7.72	- 5 39.4	1.945	2.892	8.1	20.2	
9 28	22 1.11	-18 36.0	2.412	3.247	11.3	19.7	9 28	22 3.51	- 6 24.5	2.026	2.906	11.3	20.4	
482572	2012 <i>WW</i> ₂₃	8 26.7 298°24 4°7/22.5 18						20766	2000 <i>PK</i> ₁₁	8 26.7 352°99 6°1/20.9 18				
7 20	22 45.54	-18 19.1	1.686	2.554	14.6	20.9	7 20	22 41.04	-17 22.9	1.335	2.222	16.6	17.3	
7 30	22 42.28	-19 25.6	1.601	2.534	11.4	20.6	7 30	22 39.19	-19 23.3	1.273	2.218	12.7	17.1	
8 9	22 36.56	-20 39.8	1.536	2.514	7.8	20.4	8 9	22 34.69	-21 35.3	1.233	2.215	8.8	16.9	
8 19	22 28.87	-21 54.4	1.496	2.494	5.0	20.2	8 19	22 28.07	-23 47.1	1.216	2.212	6.2	16.7	
8 29	22 20.09	-23 0.4	1.482	2.474	5.6	20.2	8 29	22 20.41	-25 45.0	1.223	2.210	7.5	16.8	
9 8	22 11.39	-23 50.2	1.493	2.455	9.0	20.3	9 8	22 13.01	-27 17.5	1.255	2.209	11.1	17.0	
9 18	22 3.91	-24 18.7	1.529	2.435	12.9	20.5	9 18	22 7.13	-28 18.3	1.308	2.209	15.1	17.2	
9 28	21 58.64	-24 24.2	1.585	2.416	16.4	20.7	9 28	22 3.75	-28 46.3	1.381	2.209	18.6	17.5	
174680	2003 <i>SC</i> ₃₀₄	8 26.7 45°96 3°8/29.3 18 R						5928	Pindarus	8 26.7 51°98 0°6/27.5 18				
7 20	22 50.65	- 1 41.0	1.544	2.365	18.0	19.1	7 20	22 40.01	- 5 6.4	2.878	3.695	10.7	17.4	
7 30	22 45.89	- 0 59.5	1.482	2.379	14.5	19.0	7 30	22 36.72	- 5 39.3	2.802	3.704	8.3	17.3	
8 9	22 38.68	- 0 34.1	1.438	2.394	10.5	18.8	8 9	22 32.16	- 6 21.8	2.748	3.713	5.6	17.1	
8 19	22 29.67	- 0 24.4	1.417	2.409	6.3	18.6	8 19	22 26.71	- 7 11.4	2.721	3.722	2.7	16.9	
8 29	22 19.91	- 0 28.5	1.422	2.424	3.9	18.4	8 29	22 20.84	- 8 4.8	2.722	3.732	0.7	16.8	
9 8	22 10.58	- 0 42.2	1.452	2.440	6.1	18.6	9 8	22 15.12	- 8 58.1	2.753	3.741	3.5	17.0	
9 18	22 2.77	- 1 0.5	1.508	2.456	9.9	18.9	9 18	22 10.08	- 9 47.5	2.812	3.751	6.3	17.2	
9 28	21 57.29	- 1 18.2	1.587	2.472	13.6	19.2	9 28	22 6.18	-10 30.0	2.897	3.760	8.8	17.4	
313264	2001 <i>XK</i> ₁₂₃	8 26.7 308°93 4°5/29.9 17						254474	2005 <i>ET</i> ₉	8 26.7 54°61 1°3/27.7 17				
7 20	22 45.12	+ 1 29.5	1.285	2.117	20.4	20.4	7 20	22 46.89	- 3 52.4	1.251	2.102	19.7	19.9	
7 30	22 42.42	+ 1 38.5	1.206	2.109	16.7	20.1	7 30	22 43.46	- 4 19.1	1.199	2.119	15.5	19.7	
8 9	22 36.90	+ 1 22.6	1.144	2.101	12.4	19.8	8 9	22 37.29	- 5 6.8	1.164	2.136	10.5	19.4	
8 19	22 29.09	+ 0 41.6	1.102	2.093	7.7	19.6	8 19	22 29.13	- 6 10.9	1.151	2.154	5.1	19.2	
8 29	22 20.03	- 0 20.6	1.083	2.086	4.5	19.4	8 29	22 20.14	- 7 23.4	1.163	2.172	1.5	19.0	
9 8	22 11.12	- 1 36.3	1.088	2.079	6.9	19.5	9 8	22 11.71	- 8 35.0	1.199	2.190	6.4	19.4	
9 18	22 3.71	- 2 55.3	1.116	2.072	11.7	19.7	9 18	22 5.00	- 9 37.4	1.258	2.208	11.3	19.7	
9 28	21 58.92	- 4 7.9	1.166	2.066	16.3	20.0	9 28	22 0.88	-10 24.7	1.340	2.227	15.5	20.0	
116438	2003 <i>YL</i> ₁₆₀	8 26.7 282°12 2°5/24.6 18						290647	2005 <i>UY</i> ₂₇₇	8 26.7 16°30 0°9/25.9 18				
7 20	22 47.56	-14 51.0	1.884	2.736	14.0	20.3	7 20	22 44.71	-10 31.7	1.871	2.719	14.3	20.9	
7 30	22 43.47	-15 23.8	1.795	2.720	10.8	20.0	7 30	22 41.07	-10 56.1	1.799	2.721	11.0	20.7	
8 9	22 37.15	-16 4.0	1.727	2.704	7.2	19.8	8 9	22 35.40	-11 30.3	1.748	2.724	7.2	20.5	
8 19	22 29.07	-16 46.7	1.685	2.688	3.5	19.5	8 19	22 28.24	-12 10.2	1.722	2.727	3.1	20.3	
8 29	22 20.06	-17 25.7	1.669	2.672	3.2	19.5	8 29	22 20.39	-12 50.8	1.723	2.731	1.6	20.2	
9 8	22 11.16	-17 55.5	1.680	2.656	6.8	19.7	9 8	22 12.80	-13 26.4	1.750	2.735	5.6	20.5	
9 18	22 3.38	-18 12.0	1.717	2.640	10.7	19.9	9 18	22 6.35	-13 53.1	1.804	2.739	9.5	20.7	
9 28	21 57.59	-18 13.3	1.777	2.624	14.3	20.1	9 28	22 1.76	-14 8.0	1.881	2.744	12.9	20.9	
347027	2010 <i>EJ</i> ₄₄	8 26.7 91°74 7°9/19.6 17						41545	2000 <i>RA</i> ₄₃	8 26.7 101°40 7°9/ 4.1 18 R				
7 20	22 51.85	-29 59.1	1.877	2.734	13.9	20.0	7 20	22 45.22	+14 18.0	1.869	2.601	18.4	17.5	
7 30	22 46.65	-31 15.4	1.832	2.748	11.2	19.9	7 30	22 41.51	+14 35.1	1.794	2.612	16.0	17.3	
8 9	22 39.06	-32 25.8	1.810	2.762	8.9	19.8	8 9	22 35.73	+14 25.9	1.735	2.623	13.2	17.2	
8 19	22 29.79	-33 21.8	1.813	2.777	7.9	19.8	8 19	22 28.41	+13 48.6	1.697	2.634	10.4	17.0	
8 29	22 19.89	-33 56.5	1.841	2.791	8.7	19.8	8 29	22 20.34	+12 44.3	1.682	2.644	8.3	16.9	
9 8	22 10.53	-34 6.1	1.894	2.804	10.7	20.0	9 8	22 12.51	+11 18.3	1.692	2.655	8.1	16.9	
9 18	22 2.71	-33 50.8	1.970	2.818	13.1	20.2	9 18	22 5.83	+ 9 38.2	1.729	2.665	9.8	17.1	
9 28	21 57.19	-33 13.1	2.066	2.831	15.4	20.4	9 28	22 1.04	+ 7 53.3	1.790	2.675	12.3	17.2	
297367	2000 <i>DV</i> ₄₉	8 26.7 164°26 0°8/27.5 18						191887	2004 <i>XU</i> ₁₇₃	8 26.7 322°66 10°7/20.0 18				
7 20	22 48.17	- 6 9.9	2.338	3.153	12.9	21.1	7 20	22 55.59	-33 27.6	1.426	2.291	17.0	18.8	
7 30	22 43.28	- 6 18.2	2.256	3.157	10.1	20.9	7 30	22 50.78	-34 20.1	1.356	2.273	14.3	18.6	
8 9	22 36.64	- 6 36.6	2.197	3.161	6.8	20.7	8 9	22 42.54	-35 3.2	1.305	2.255	11.9	18.4	
8 19	22 28.72	- 7 2.7	2.164	3.164	3.3	20.5	8 19	22 31.60	-35 25.9	1.276	2.238	10.7	18.3	
8 29	22 20.20	- 7 33.3	2.159	3.167	1.0	20.3	8 29	22 19.40	-35 18.1	1.269	2.221	11.5	18.3	
9 8	22 11.87	- 8 4.4	2.183	3.170	4.4	20.6	9 8	22 7.69	-34 35.4	1.285	2.206	14.0	18.4	
9 18	22 4.48	- 8 32.3	2.235	3.172	7.8	20.8	9 18	21 58.08	-33 19.2	1.322	2.191	17.1	18.5	
9 28	21 58.68	- 8 53.9	2.312	3.174	10.8	21.0	9 28	21 51.70	-31 35.6	1.378	2.177	20.1	18.7	
52525	1996 <i>PJ</i>	8 26.7 228°35 4°0/22.8 17						252057	2000 <i>SR</i> ₄₁	8 26.7 325°87 5°2/23.3 18				
7 20	22 45.98	- 7 15.3	1.198	2.063	19.5	18.4	7 20	22 44.64	-17 10.9	1.111	2.003	18.8	19.9	
7 30	22 43.45	-10 0.7	1.122	2.057	15.0	18.1	7 30							

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
44923	1999 <i>VF</i> ₃₄		8 26.7 181°02	2°8/23.9	18		34624	2000 <i>UB</i> ₆₂		8 26.7 263°97	4°6/31.5	18	
7 20	22 48.20	-16 23.6	2.246	3.091	12.3	19.2	7 20	22 43.71	+ 5 30.5	2.230	3.003	14.6	18.9
7 30	22 43.47	-17 10.3	2.170	3.092	9.4	19.1	7 30	22 40.05	+ 5 39.8	2.140	3.001	12.2	18.8
8 9	22 36.87	-18 2.0	2.117	3.092	6.3	18.9	8 9	22 34.65	+ 5 31.6	2.071	2.999	9.4	18.6
8 19	22 28.87	-18 53.8	2.091	3.092	3.4	18.7	8 19	22 27.93	+ 5 5.8	2.024	2.996	6.6	18.4
8 29	22 20.22	-19 40.1	2.093	3.092	3.4	18.7	8 29	22 20.53	+ 4 24.3	2.004	2.994	4.7	18.3
9 8	22 11.78	-20 16.1	2.124	3.091	6.3	18.9	9 8	22 13.24	+ 3 31.0	2.011	2.992	5.4	18.3
9 18	22 4.37	-20 38.7	2.181	3.089	9.5	19.1	9 18	22 6.83	+ 2 31.1	2.046	2.990	8.0	18.5
9 28	21 58.66	-20 46.5	2.262	3.088	12.3	19.3	9 28	22 1.96	+ 1 30.4	2.105	2.988	10.8	18.7
22276	Belkin		8 26.7 348°29	6°6/23.8	18		337317	2001 <i>BM</i> ₁₉		8 26.7 293°41	3°6/23.7	18	
7 20	22 40.49	-22 18.5	0.923	1.836	19.8	16.5	7 20	22 46.10	-15 51.9	1.683	2.546	14.9	20.5
7 30	22 39.93	-22 24.3	0.856	1.813	15.7	16.2	7 30	22 42.68	-16 46.5	1.597	2.529	11.5	20.2
8 9	22 35.82	-22 28.9	0.806	1.793	11.1	15.9	8 9	22 36.83	-17 50.2	1.533	2.512	7.7	20.0
8 19	22 28.78	-22 23.5	0.774	1.775	7.2	15.6	8 19	22 29.05	-18 56.5	1.493	2.495	4.2	19.7
8 29	22 20.22	-21 59.2	0.762	1.761	7.3	15.6	8 29	22 20.20	-19 57.2	1.479	2.478	4.4	19.7
9 8	22 12.04	-21 10.1	0.769	1.749	11.6	15.8	9 8	22 11.46	-20 45.0	1.490	2.461	8.1	19.9
9 18	22 5.97	-19 56.0	0.795	1.741	16.6	16.0	9 18	22 3.93	-21 14.8	1.527	2.444	12.2	20.1
9 28	22 3.31	-18 20.4	0.838	1.735	21.3	16.3	9 28	21 58.60	-21 24.2	1.584	2.428	15.9	20.3
321188	2008 <i>WE</i> ₁₃₈		8 26.7 286°78	0°6/27.2	18		164001	2003 <i>UP</i> ₁₇₀		8 26.7 314°54	4°4/23.1	18	
7 20	22 45.11	- 5 57.3	1.771	2.608	15.4	21.4	7 20	22 47.42	-18 57.7	1.717	2.581	14.6	19.6
7 30	22 41.71	- 6 19.8	1.679	2.593	12.2	21.1	7 30	22 43.53	-19 48.7	1.644	2.576	11.3	19.3
8 9	22 36.07	- 6 57.5	1.607	2.577	8.3	20.9	8 9	22 37.25	-20 44.4	1.593	2.570	7.7	19.1
8 19	22 28.65	- 7 47.4	1.559	2.562	3.9	20.6	8 19	22 29.16	-21 38.1	1.566	2.565	4.8	18.9
8 29	22 20.26	- 8 44.3	1.537	2.546	1.0	20.3	8 29	22 20.19	-22 22.1	1.566	2.559	5.2	18.9
9 8	22 11.93	- 9 41.9	1.542	2.531	5.6	20.6	9 8	22 11.48	-22 50.4	1.591	2.554	8.4	19.1
9 18	22 4.67	-10 33.6	1.572	2.515	10.0	20.8	9 18	22 4.10	-22 59.9	1.640	2.549	12.0	19.3
9 28	21 59.40	-11 14.4	1.626	2.500	14.0	21.0	9 28	21 58.91	-22 49.7	1.711	2.545	15.3	19.5
287620	2003 <i>HW</i> ₁₃		8 26.7 115°19	5°1/21.1	18		345826	2007 <i>HZ</i> ₈₇		8 26.7 345°87	8°2/18.1	18	
7 20	22 46.25	-23 22.1	2.250	3.107	11.9	20.0	7 20	22 33.65	-17 55.9	1.113	2.021	17.5	18.9
7 30	22 42.00	-24 31.8	2.189	3.113	9.2	19.9	7 30	22 34.01	-20 44.7	1.049	2.006	13.5	18.6
8 9	22 35.89	-25 41.8	2.152	3.120	6.7	19.7	8 9	22 31.59	-23 51.3	1.007	1.992	9.7	18.3
8 19	22 28.43	-26 45.7	2.141	3.126	5.2	19.7	8 19	22 26.85	-26 59.1	0.988	1.980	8.2	18.2
8 29	22 20.36	-27 37.3	2.157	3.132	5.8	19.7	8 29	22 20.84	-29 48.0	0.992	1.970	10.4	18.3
9 8	22 12.57	-28 12.3	2.200	3.137	8.1	19.9	9 8	22 15.01	-32 1.5	1.018	1.961	14.4	18.5
9 18	22 5.84	-28 28.3	2.268	3.143	10.6	20.0	9 18	22 10.78	-33 30.4	1.063	1.954	18.6	18.7
9 28	22 0.83	-28 25.6	2.358	3.149	13.0	20.2	9 28	22 9.29	-34 13.3	1.125	1.949	22.2	19.0
480357	2015 <i>KM</i> ₂₁		8 26.7 59°09	0°3/27.0	16		216961	2000 <i>AW</i> ₁₉₅		8 26.7 231°41	0°3/27.1	18	
7 20	22 45.46	- 6 14.3	1.672	2.513	16.0	21.4	7 20	22 44.83	- 5 22.7	2.299	3.119	12.9	20.8
7 30	22 41.79	- 6 46.4	1.608	2.525	12.4	21.2	7 30	22 40.94	- 6 7.8	2.203	3.108	10.1	20.6
8 9	22 35.94	- 7 33.2	1.565	2.536	8.3	21.0	8 9	22 35.28	- 7 6.6	2.129	3.096	6.8	20.4
8 19	22 28.50	- 8 30.8	1.545	2.549	3.8	20.7	8 19	22 28.24	- 8 15.7	2.081	3.084	3.1	20.2
8 29	22 20.35	- 9 32.8	1.552	2.561	1.0	20.5	8 29	22 20.47	- 9 30.4	2.062	3.071	0.8	19.9
9 8	22 12.55	-10 32.3	1.585	2.574	5.5	20.9	9 8	22 12.75	-10 44.6	2.072	3.058	4.7	20.2
9 18	22 6.04	-11 23.5	1.644	2.586	9.7	21.2	9 18	22 5.86	-11 52.7	2.109	3.045	8.3	20.4
9 28	22 1.56	-12 1.9	1.726	2.599	13.4	21.4	9 28	22 0.50	-12 50.3	2.172	3.031	11.6	20.6
124036	2001 <i>FZ</i> ₁₃₂		8 26.7 130°46	3°5/31.1	18		355160	2006 <i>VR</i> ₉₇		8 26.7 126°84	0°7/26.1	18	
7 20	22 42.57	+ 4 30.8	2.594	3.364	12.9	19.8	7 20	22 46.75	-10 36.7	2.095	2.933	13.3	21.1
7 30	22 38.86	+ 4 23.4	2.508	3.369	10.6	19.6	7 30	22 42.45	-10 55.6	2.017	2.934	10.3	20.9
8 9	22 33.68	+ 4 0.6	2.443	3.375	8.0	19.4	8 9	22 36.25	-11 23.1	1.961	2.935	6.8	20.7
8 19	22 27.43	+ 3 23.3	2.403	3.379	5.4	19.3	8 19	22 28.64	-11 55.5	1.931	2.936	2.9	20.5
8 29	22 20.67	+ 2 33.7	2.390	3.384	3.6	19.2	8 29	22 20.37	-12 28.6	1.928	2.936	1.4	20.4
9 8	22 14.04	+ 1 35.7	2.406	3.389	4.4	19.2	9 8	22 12.32	-12 57.6	1.953	2.937	5.2	20.6
9 18	22 8.17	+ 0 34.0	2.449	3.393	6.8	19.4	9 18	22 5.31	-13 19.1	2.005	2.938	8.8	20.8
9 28	22 3.61	- 0 26.5	2.519	3.398	9.4	19.6	9 28	22 0.03	-13 30.4	2.081	2.939	12.0	21.1
21426	Davidbauer		8 26.7 62°63	5°0/22.8	18		70727	1999 <i>VX</i> ₃		8 26.7 111°18	6°2/ 2.3	18	
7 20	22 47.37	-15 59.1	1.282	2.160	17.7	18.4	7 20	22 45.06	+10 6.3	2.015	2.766	16.7	19.5
7 30	22 43.91	-17 33.3	1.236	2.175	13.5	18.2	7 30	22 41.23	+10 16.2	1.936	2.775	14.1	19.4
8 9	22 37.64	-19 16.8	1.210	2.191	9.0	18.0	8 9	22 35.49	+10 3.8	1.876	2.784	11.3	19.2
8 19	22 29.30	-20 58.7	1.207	2.208	5.4	17.9	8 19	22 28.32	+ 9 28.5	1.837	2.793	8.4	19.0
8 29	22 20.13	-22 27.4	1.229	2.224	6.0	18.0	8 29	22 20.47	+ 8 31.9	1.824	2.802	6.4	18.9
9 8	22 11.53	-23 33.4	1.275	2.241	9.8	18.2	9 8	22 12.82	+ 7 19.0	1.837	2.810	6.6	19.0
9 18	22 4.72	-24 12.6	1.344	2.257	13.8	18.5	9 18	22 6.21	+ 5 56.3	1.877	2.818	8.8	19.1
9 28	22 0.57	-24 24.8	1.433	2.274	17.4	18.8	9 28	22 1.34	+ 4 31.6	1.941	2.826	11.5	19.3
207235	2005 <i>EB</i> ₁₆₃		8 26.7 12°73	1°3/25.7	18		437083	2012 <i>UZ</i> ₇₁		8 26.7 357°75	0°3/26.9	18	
7 20	22 45.72	-10 57.4	1.711	2.564	15.2	20.5	7 20	22 44.82	- 7 23.5	1.458	2.312	17.2	21.1
7 30	22 42.07	-11 28.3	1.639	2.565	11.7	20.2	7 30	22 41.77	- 7 39.1	1.386	2.310	13.5	20.9
8 9	22 36.20	-12 9.9	1.589	2.566	7.7	20.0	8 9	22 36.22	- 8 9.8	1.333	2.309	9.1	20.6
8 19	22 28.65	-12 57.5	1.562	2.567	3.3	19.7	8 19	22 28.75	- 8 52.0	1.303	2.308	4.1	20.4
8 29	22 20.32	-13 45.1	1.562	2.569	2.0	19.7	8 29	22 20.35	- 9 39.6	1.298	2.307	1.1	20.1
9 8	22 12.26	-14 26.3	1.588	2.571	6.2	19.9	9 8	22 12.21	-10 25.5	1.318	2.308	6.2	20.5
9 18	22 5.45	-14 56.4	1.639	2.574	10.3	20.2	9 18	22 5.49	-11 3.5	1.362	2.309	10.9	20.8
9 28	22 0.69	-15 12.6	1.713	2.576	13.9	20.4	9 28	22 1.07	-11 29.0	1.428	2.310	15.0	21.0
35455	1998 <i>DN</i> ₁₄		8 26.7 287°31	2°1/24.9	18		342319	2008 <i>TS</i> ₇₉		8 26.7 244°69			

EPHEMERIDES

8 26.7

8 26.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
155524	1999 <i>TL</i> ₅₇		8 26.7 253°47'	0°7/26.0	18		204772	2006 <i>KR</i> ₂₉		8 26.8 274°70'	1°2/27.8	18	
7 20	22 44.61	-10 11.2	2.325	3.160	12.3	21.2	7 20	22 45.94	-4 51.9	1.862	2.690	15.1	21.0
7 30	22 40.68	-10 39.4	2.239	3.155	9.5	21.0	7 30	22 42.24	-5 5.6	1.771	2.678	12.0	20.8
8 9	22 35.03	-11 16.2	2.177	3.150	6.2	20.8	8 9	22 36.38	-5 33.8	1.700	2.666	8.3	20.6
8 19	22 28.11	-11 58.3	2.140	3.145	2.7	20.5	8 19	22 28.85	-6 14.1	1.653	2.654	4.1	20.3
8 29	22 20.55	-12 41.3	2.132	3.140	1.3	20.4	8 29	22 20.40	-7 2.3	1.633	2.642	1.3	20.1
9 8	22 13.13	-13 20.7	2.151	3.134	4.8	20.7	9 8	22 12.04	-7 52.5	1.640	2.629	5.2	20.3
9 18	22 6.59	-13 52.7	2.198	3.129	8.3	20.9	9 18	22 4.72	-8 39.2	1.673	2.617	9.4	20.5
9 28	22 1.57	-14 14.5	2.270	3.124	11.3	21.1	9 28	21 59.31	-9 17.3	1.730	2.605	13.2	20.7
95579	2002 <i>EB</i> ₁₄₈		8 26.7 133°91'	0°7/26.0	18		318449	2005 <i>CR</i> ₇₉		8 26.8 294°61'	0°1/26.9	18	
7 20	22 45.32	-10 18.3	2.377	3.210	12.1	20.6	7 20	22 42.92	-5 24.0	1.746	2.586	15.5	20.6
7 30	22 41.11	-10 45.6	2.300	3.214	9.3	20.5	7 30	22 40.10	-6 12.5	1.653	2.569	12.2	20.4
8 9	22 35.24	-11 21.0	2.246	3.219	6.1	20.3	8 9	22 35.09	-7 19.1	1.581	2.553	8.2	20.1
8 19	22 28.17	-12 1.0	2.219	3.223	2.6	20.1	8 19	22 28.32	-8 40.1	1.533	2.536	3.8	19.8
8 29	22 20.55	-12 41.4	2.219	3.227	1.3	20.0	8 29	22 20.58	-10 8.9	1.511	2.520	1.0	19.6
9 8	22 13.12	-13 18.1	2.248	3.231	4.7	20.2	9 8	22 12.87	-11 37.0	1.516	2.504	5.8	19.9
9 18	22 6.59	-13 47.4	2.305	3.235	8.0	20.4	9 18	22 6.21	-12 56.7	1.547	2.488	10.3	20.1
9 28	22 1.57	-14 6.9	2.387	3.239	10.9	20.6	9 28	22 1.49	-14 1.5	1.601	2.472	14.3	20.3
130593	2000 <i>RX</i> ₈₈		8 26.8 71°13'	3°0/28.8	17		447054	2004 <i>RN</i> ₂₃₀		8 26.8 3°14'	1°6/25.3	18	
7 20	22 50.24	-2 1.3	1.302	2.138	20.0	19.7	7 20	22 46.12	-13 28.5	2.072	2.919	13.1	20.8
7 30	22 46.03	-1 54.1	1.244	2.153	15.9	19.5	7 30	22 42.02	-13 50.3	1.996	2.919	10.1	20.6
8 9	22 39.04	-2 7.4	1.204	2.167	11.2	19.3	8 9	22 36.02	-14 18.5	1.943	2.919	6.6	20.4
8 19	22 29.99	-2 39.2	1.185	2.182	6.2	19.0	8 19	22 28.60	-14 49.3	1.915	2.919	3.0	20.1
8 29	22 20.05	-3 24.3	1.191	2.197	3.0	18.9	8 29	22 20.53	-15 18.0	1.914	2.920	2.2	20.1
9 8	22 10.63	-4 15.3	1.221	2.212	6.3	19.1	9 8	22 12.70	-15 40.2	1.941	2.921	5.6	20.3
9 18	22 2.94	-5 4.6	1.275	2.227	11.0	19.5	9 18	22 5.91	-15 52.6	1.994	2.922	9.2	20.5
9 28	21 57.90	-5 45.7	1.352	2.241	15.2	19.7	9 28	22 0.88	-15 53.5	2.071	2.923	12.3	20.7
89859	2002 <i>CS</i> ₁₁₇		8 26.8 10°11'	1°5/28.4	18		230731	2003 <i>UO</i> ₃₂₈		8 26.8 256°80'	0°5/27.3	18	
7 20	22 40.85	-1 39.2	1.901	2.726	15.0	18.6	7 20	22 46.41	-7 43.3	2.510	3.329	11.9	20.9
7 30	22 38.12	-2 20.6	1.823	2.727	11.9	18.4	7 30	22 41.96	-7 45.3	2.416	3.320	9.3	20.7
8 9	22 33.51	-3 20.0	1.765	2.729	8.3	18.2	8 9	22 35.87	-7 55.4	2.345	3.312	6.3	20.5
8 19	22 27.48	-4 34.3	1.732	2.731	4.3	18.0	8 19	22 28.53	-8 11.8	2.301	3.303	3.0	20.3
8 29	22 20.77	-5 58.0	1.725	2.733	1.5	17.8	8 29	22 20.57	-8 31.4	2.285	3.294	0.8	20.1
9 8	22 14.24	-7 23.9	1.746	2.736	4.8	18.0	9 8	22 12.71	-8 51.1	2.297	3.285	4.2	20.4
9 18	22 8.71	-8 45.0	1.793	2.740	8.7	18.2	9 18	22 5.66	-9 7.8	2.338	3.275	7.5	20.6
9 28	22 4.89	-9 55.1	1.865	2.744	12.2	18.5	9 28	22 0.05	-9 18.7	2.404	3.266	10.5	20.7
178866	2001 <i>KA</i> ₇₅		8 26.8 18°69'	0°3/27.0	18		295769	2008 <i>UV</i> ₁₈₀		8 26.8 227°80'	1°1/25.8	18	
7 20	22 42.20	-4 36.0	1.259	2.120	19.1	19.4	7 20	22 47.83	-11 4.4	1.860	2.704	14.5	21.0
7 30	22 40.04	-5 27.0	1.196	2.123	14.9	19.2	7 30	22 43.61	-11 31.4	1.781	2.701	11.2	20.8
8 9	22 35.22	-6 40.7	1.151	2.127	10.0	18.9	8 9	22 37.23	-12 8.1	1.723	2.698	7.4	20.6
8 19	22 28.36	-8 11.6	1.128	2.132	4.6	18.6	8 19	22 29.20	-12 50.4	1.691	2.696	3.2	20.3
8 29	22 20.52	-9 50.3	1.128	2.138	1.2	18.4	8 29	22 20.37	-13 32.8	1.685	2.693	1.8	20.2
9 8	22 13.02	-11 25.4	1.154	2.144	6.7	18.8	9 8	22 11.76	-14 9.5	1.707	2.690	5.9	20.5
9 18	22 7.08	-12 47.2	1.202	2.151	11.8	19.1	9 18	22 4.31	-14 36.3	1.755	2.687	9.9	20.7
9 28	22 3.62	-13 48.9	1.272	2.159	16.2	19.4	9 28	21 58.83	-14 50.4	1.826	2.684	13.4	20.9
130823	2000 <i>UJ</i> ₂₂		8 26.8 255°64'	1°5/25.4	18		399832	2005 <i>TD</i> ₁₂₆		8 26.8 343°57'	0°2/26.9	15	
7 20	22 47.05	-11 20.9	1.905	2.750	14.2	20.3	7 20	22 42.62	-7 34.2	1.653	2.504	15.7	20.9
7 30	22 43.08	-12 1.7	1.815	2.737	11.0	20.1	7 30	22 39.87	-7 50.8	1.572	2.495	12.3	20.7
8 9	22 36.93	-12 53.2	1.747	2.723	7.2	19.8	8 9	22 34.91	-8 21.1	1.512	2.486	8.3	20.4
8 19	22 29.07	-13 51.0	1.705	2.709	3.2	19.5	8 19	22 28.22	-9 1.7	1.474	2.479	3.8	20.2
8 29	22 20.30	-14 48.9	1.689	2.695	2.2	19.4	8 29	22 20.66	-9 47.5	1.462	2.472	1.0	19.9
9 8	22 11.61	-15 40.3	1.701	2.681	6.2	19.7	9 8	22 13.26	-10 32.1	1.476	2.466	5.7	20.3
9 18	22 3.99	-16 20.3	1.738	2.666	10.3	19.9	9 18	22 7.04	-11 9.8	1.515	2.460	10.1	20.5
9 28	21 58.29	-16 45.4	1.799	2.651	13.9	20.1	9 28	22 2.83	-11 36.1	1.576	2.456	14.0	20.7
482212	2010 <i>WM</i> ₁₁		8 26.8 206°93'	5°0/20.5	18		185573	2008 <i>AE</i> ₁₀₆		8 26.8 145°05'	0°9/27.5	17	
7 20	22 48.71	-27 59.5	2.989	3.830	9.7	22.1	7 20	22 52.05	-6 12.6	1.763	2.588	16.0	21.4
7 30	22 43.52	-28 46.9	2.915	3.824	7.7	22.0	7 30	22 46.85	-6 20.2	1.690	2.596	12.5	21.2
8 9	22 36.75	-29 31.5	2.865	3.819	6.0	21.9	8 9	22 39.35	-6 40.8	1.638	2.604	8.5	20.9
8 19	22 28.84	-30 8.7	2.842	3.812	5.0	21.8	8 19	22 30.13	-7 11.6	1.611	2.612	4.1	20.7
8 29	22 20.40	-30 34.2	2.847	3.805	5.5	21.8	8 29	22 20.13	-7 48.0	1.610	2.619	1.2	20.5
9 8	22 12.15	-30 45.1	2.880	3.798	7.2	21.9	9 8	22 10.44	-8 24.4	1.637	2.626	5.4	20.8
9 18	22 4.74	-30 40.4	2.939	3.791	9.2	22.0	9 18	22 2.09	-8 55.9	1.691	2.632	9.6	21.1
9 28	21 58.76	-30 20.3	3.022	3.783	11.1	22.2	9 28	21 55.89	-9 18.8	1.769	2.637	13.3	21.3
149178	2002 <i>JF</i> ₄₀		8 26.8 93°20'	1°0/27.9	18		475886	2007 <i>CP</i> ₆₅		8 26.8 183°20'	2°4/23.9	18	
7 20	22 45.70	-4 51.4	2.401	3.215	12.6	20.2	7 20	22 45.99	-16 45.6	2.844	3.682	10.2	22.0
7 30	22 41.29	-5 5.9	2.333	3.232	9.9	20.0	7 30	22 41.43	-17 26.6	2.765	3.683	7.8	21.8
8 9	22 35.30	-5 31.0	2.286	3.249	6.7	19.9	8 9	22 35.39	-18 11.1	2.710	3.683	5.2	21.6
8 19	22 28.20	-6 4.5	2.266	3.265	3.3	19.7	8 19	22 28.28	-18 55.4	2.682	3.682	2.8	21.5
8 29	22 20.62	-6 42.8	2.273	3.282	1.1	19.5	8 29	22 20.66	-19 35.2	2.684	3.681	2.9	21.5
9 8	22 13.29	-7 21.8	2.310	3.298	4.0	19.8	9 8	22 13.20	-20 7.0	2.714	3.680	5.2	21.6
9 18	22 6.88	-7 57.8	2.374	3.314	7.2	20.0	9 18	22 6.50	-20 28.3	2.773	3.678	7.8	21.8
9 28	22 1.94	-8 27.5	2.464	3.330	10.1	20.2	9 28	22 1.12	-20 37.8	2.856	3.676	10.2	22.0
157718	2006 <i>AF</i> ₉₇		8 26.8 295°81'	6°4/18.8	18		184438	2005 <i>NR</i> ₂₈		8 26.8 13°16'	1°2/27.7	17	
7 20	2												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
404056	2012 <i>DE</i> ₁₇		8 26.8 231°75	2°2/28.8	17		395936	2013 <i>AE</i> ₁₀₇		8 26.8 268°22	1°2/27.9	18	
7 20	22 48.65	- 2 54.6	2.538	3.334	12.5	21.5	7 20	22 45.68	- 4 51.6	2.016	2.840	14.3	21.5
7 30	22 43.66	- 2 35.5	2.441	3.326	10.0	21.3	7 30	22 41.83	- 5 3.6	1.928	2.833	11.3	21.3
8 9	22 36.99	- 2 26.3	2.367	3.319	7.1	21.1	8 9	22 36.02	- 5 28.6	1.860	2.825	7.8	21.1
8 19	22 29.04	- 2 26.1	2.318	3.311	4.1	20.9	8 19	22 28.69	- 6 4.6	1.817	2.818	3.9	20.8
8 29	22 20.44	- 2 33.3	2.298	3.303	2.2	20.8	8 29	22 20.58	- 6 47.6	1.802	2.810	1.3	20.6
9 8	22 11.93	- 2 45.3	2.307	3.294	4.2	20.9	9 8	22 12.58	- 7 32.4	1.813	2.803	4.8	20.8
9 18	22 4.22	- 2 59.0	2.345	3.286	7.3	21.1	9 18	22 5.58	- 8 14.1	1.852	2.795	8.7	21.1
9 28	21 57.97	- 3 11.4	2.409	3.277	10.2	21.2	9 28	22 0.31	- 8 48.4	1.914	2.787	12.2	21.3
515228	2012 <i>BH</i> ₉₄		8 26.8 156°58	1°7/28.7	18		445449	2010 <i>UZ</i> ₈₇		8 26.8 291°95	3°2/23.9	17	
7 20	22 46.68	- 3 9.2	2.848	3.642	11.3	21.9	7 20	22 48.34	-18 14.0	2.142	2.992	12.6	21.3
7 30	22 41.88	- 3 3.5	2.762	3.647	9.0	21.7	7 30	22 43.91	-18 41.4	2.048	2.972	9.8	21.1
8 9	22 35.65	- 3 7.2	2.699	3.652	6.3	21.6	8 9	22 37.42	-19 12.4	1.977	2.951	6.6	20.8
8 19	22 28.39	- 3 19.0	2.663	3.657	3.5	21.4	8 19	22 29.33	-19 42.3	1.931	2.931	3.8	20.6
8 29	22 20.65	- 3 36.8	2.656	3.661	1.7	21.3	8 29	22 20.39	-20 5.9	1.913	2.910	3.8	20.6
9 8	22 13.05	- 3 57.8	2.678	3.665	3.7	21.4	9 8	22 11.53	-20 18.6	1.922	2.890	6.8	20.7
9 18	22 6.20	- 4 19.3	2.729	3.669	6.4	21.6	9 18	22 3.68	-20 17.8	1.957	2.869	10.2	20.9
9 28	22 0.62	- 4 38.3	2.807	3.672	9.0	21.8	9 28	21 57.63	-20 2.4	2.016	2.849	13.3	21.1
154449	2003 <i>CY</i> ₅		8 26.8 218°81	3°5/30.3	18		477550	2010 <i>FS</i> ₈₂		8 26.8 114°84	7°5/20.2	16	
7 20	22 46.42	+ 3 26.1	2.103	2.886	15.1	21.1	7 20	22 52.54	-29 24.3	1.928	2.783	13.6	20.6
7 30	22 42.37	+ 3 7.5	2.005	2.877	12.4	20.8	7 30	22 47.25	-30 30.6	1.875	2.791	11.0	20.5
8 9	22 36.37	+ 2 29.5	1.927	2.868	9.2	20.6	8 9	22 39.59	-31 31.8	1.844	2.798	8.7	20.4
8 19	22 28.85	+ 1 33.0	1.874	2.858	5.9	20.4	8 19	22 30.23	-32 20.1	1.838	2.806	7.5	20.3
8 29	22 20.49	+ 0 21.2	1.847	2.847	3.5	20.2	8 29	22 20.18	-32 48.4	1.858	2.813	8.3	20.4
9 8	22 12.18	- 1 0.2	1.849	2.836	5.1	20.3	9 8	22 10.60	-32 53.2	1.903	2.820	10.3	20.5
9 18	22 4.79	- 2 24.4	1.879	2.824	8.5	20.5	9 18	22 2.51	-32 34.2	1.972	2.827	12.8	20.7
9 28	21 59.09	- 3 44.6	1.934	2.812	11.9	20.7	9 28	21 56.67	-31 53.7	2.061	2.833	15.2	20.9
156026	2001 <i>RO</i> ₁₂₂		8 26.8 284°39	2°5/25.0	18		434777	2006 <i>KQ</i> ₇₂		8 26.8 335°62	6°5/3.0	18	
7 20	22 49.67	-14 11.8	1.617	2.473	15.7	20.9	7 20	22 41.23	+12 26.8	1.771	2.527	18.5	20.6
7 30	22 45.61	-14 38.2	1.527	2.454	12.2	20.6	7 30	22 38.71	+12 2.1	1.682	2.524	15.8	20.4
8 9	22 38.93	-15 13.5	1.458	2.435	8.2	20.3	8 9	22 34.10	+11 7.4	1.610	2.521	12.7	20.2
8 19	22 30.11	-15 52.4	1.412	2.416	3.9	20.0	8 19	22 27.88	+ 9 41.7	1.560	2.518	9.4	20.0
8 29	22 20.11	-16 28.2	1.392	2.397	3.2	19.9	8 29	22 20.82	+ 7 48.1	1.533	2.515	6.9	19.8
9 8	22 10.18	-16 54.5	1.398	2.377	7.4	20.1	9 8	22 13.89	+ 5 34.4	1.533	2.513	6.9	19.8
9 18	22 1.55	-17 6.6	1.429	2.358	12.0	20.4	9 18	22 8.03	+ 3 11.0	1.560	2.511	9.4	20.0
9 28	21 55.28	-17 2.3	1.481	2.338	16.0	20.6	9 28	22 4.05	+ 0 49.7	1.612	2.509	12.8	20.2
111928	2002 <i>GA</i> ₂₂		8 26.8 78°08	0°7/27.7	18		478674	2012 <i>TO</i> ₂₉₀		8 26.8 350°04	4°2/23.7	16	
7 20	22 41.12	- 5 26.6	3.114	3.925	10.0	19.6	7 20	22 41.66	-15 27.6	1.226	2.114	17.7	20.5
7 30	22 37.50	- 5 47.6	3.038	3.937	7.8	19.4	7 30	22 39.91	-16 22.9	1.160	2.105	13.6	20.2
8 9	22 32.69	- 6 17.0	2.986	3.949	5.3	19.3	8 9	22 35.34	-17 29.3	1.113	2.098	9.1	19.9
8 19	22 27.05	- 6 52.6	2.960	3.961	2.6	19.1	8 19	22 28.55	-18 38.7	1.088	2.091	4.9	19.7
8 29	22 21.04	- 7 31.6	2.964	3.973	0.8	19.0	8 29	22 20.65	-19 40.7	1.085	2.086	5.1	19.7
9 8	22 15.18	- 8 10.9	2.996	3.984	3.3	19.2	9 8	22 13.05	-20 26.1	1.106	2.083	9.4	19.9
9 18	22 9.95	- 8 47.5	3.057	3.996	5.9	19.4	9 18	22 7.07	-20 49.3	1.149	2.080	14.0	20.2
9 28	22 5.80	- 9 18.7	3.145	4.008	8.2	19.6	9 28	22 3.73	-20 48.2	1.210	2.079	18.1	20.4
30389	Ledoux		8 26.8 131°99	1°6/25.2	18		92506	2000 <i>NU</i> ₁₆		8 26.8 109°30	3°0/24.5	18	
7 20	22 46.36	-12 21.7	2.035	2.879	13.4	19.2	7 20	22 52.28	-13 37.7	1.504	2.359	16.8	18.9
7 30	22 42.26	-12 58.7	1.960	2.882	10.3	19.0	7 30	22 47.33	-14 37.9	1.450	2.376	12.8	18.7
8 9	22 36.21	-13 43.9	1.908	2.884	6.7	18.8	8 9	22 39.79	-15 47.8	1.416	2.394	8.4	18.5
8 19	22 28.72	-14 33.0	1.881	2.886	3.0	18.6	8 19	22 30.36	-16 59.8	1.407	2.411	4.1	18.3
8 29	22 20.56	-15 20.3	1.882	2.888	2.2	18.5	8 29	22 20.17	-18 5.1	1.424	2.427	3.8	18.3
9 8	22 12.62	-16 0.6	1.911	2.890	5.8	18.8	9 8	22 10.51	-18 56.3	1.468	2.443	7.7	18.6
9 18	22 5.75	-16 30.0	1.966	2.892	9.4	19.0	9 18	22 2.49	-19 29.0	1.536	2.458	11.8	18.9
9 28	22 0.65	-16 46.0	2.044	2.894	12.5	19.2	9 28	21 56.96	-19 42.0	1.627	2.472	15.4	19.2
382936	2004 <i>TQ</i> ₁₅₈		8 26.8 189°53	7°5/20.4	18		13846	1999 <i>XV</i> ₆₉		8 26.8 50°03	2°7/24.9	18	
7 20	22 54.39	-29 46.1	1.962	2.813	13.6	21.3	7 20	22 48.59	-12 37.6	1.223	2.095	18.7	17.0
7 30	22 48.73	-30 45.6	1.899	2.812	11.0	21.1	7 30	22 44.90	-13 26.6	1.177	2.113	14.3	16.8
8 9	22 40.61	-31 40.1	1.859	2.811	8.7	21.0	8 9	22 38.35	-14 27.4	1.151	2.132	9.3	16.6
8 19	22 30.69	-32 21.8	1.843	2.810	7.5	20.9	8 19	22 29.75	-15 32.0	1.146	2.151	4.3	16.3
8 29	22 20.00	-32 43.6	1.854	2.809	8.2	21.0	8 29	22 20.36	-16 31.1	1.166	2.171	3.5	16.4
9 8	22 9.72	-32 41.8	1.889	2.807	10.4	21.1	9 8	22 11.64	-17 16.3	1.210	2.191	8.1	16.7
9 18	22 0.93	-32 16.0	1.949	2.805	12.9	21.2	9 18	22 4.77	-17 43.0	1.277	2.211	12.6	17.0
9 28	21 54.44	-31 28.9	2.030	2.803	15.4	21.4	9 28	22 0.61	-17 49.7	1.364	2.232	16.5	17.3
485708	2012 <i>AT</i> ₁		8 26.8 158°82	4°1/21.1	18		364557	2007 <i>GG</i> ₇₆		8 26.8 208°85	0°1/26.9	18	
7 20	22 44.90	-22 8.5	2.847	3.695	9.9	21.9	7 20	22 44.71	- 7 46.3	2.702	3.521	11.2	22.3
7 30	22 40.66	-23 22.5	2.780	3.700	7.7	21.7	7 30	22 40.54	- 8 9.9	2.612	3.517	8.7	22.1
8 9	22 34.92	-24 37.7	2.739	3.706	5.5	21.6	8 9	22 34.89	- 8 42.3	2.545	3.512	5.8	21.9
8 19	22 28.09	-25 48.9	2.725	3.711	4.1	21.5	8 19	22 28.12	- 9 20.8	2.504	3.507	2.6	21.7
8 29	22 20.75	-26 50.9	2.740	3.715	4.7	21.5	8 29	22 20.80	-10 2.0	2.492	3.501	0.7	21.5
9 8	22 13.57	-27 39.7	2.784	3.720	6.7	21.7	9 8	22 13.58	-10 42.1	2.510	3.496	4.0	21.8
9 18	22 7.17	-28 13.0	2.854	3.723	8.9	21.8	9 18	22 7.10	-11 17.5	2.556	3.490	7.1	22.0
9 28	22 2.11	-28 30.0	2.947	3.727	10.9	22.0	9 28	22 1.92	-11 45.4	2.627	3.483	9.9	22.1
147005	2002 <i>PA</i> ₁₂₇		8 26.8 308°38	4°6/23.8	18		130148	1999 <i>XT</i> ₂₀₂		8 26.8 139°86			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
371850	2007 YV ₄₈		8 26.8 78°42'	1.3°/25.8	17		171025	2005 ER ₅₁		8 26.8 22°06'	1.7°/28.2	18	
7 20	22 48.50	-9 24.9	1.401	2.258	17.7	20.9	7 20	22 43.58	-3 1.5	1.601	2.437	16.8	19.7
7 30	22 44.61	-10 12.5	1.344	2.270	13.6	20.7	7 30	22 40.60	-3 22.6	1.530	2.441	13.3	19.4
8 9	22 38.10	-11 14.8	1.306	2.283	8.9	20.5	8 9	22 35.38	-4 1.9	1.479	2.446	9.2	19.2
8 19	22 29.66	-12 25.5	1.291	2.296	3.9	20.2	8 19	22 28.48	-4 56.5	1.451	2.451	4.8	19.0
8 29	22 20.38	-13 35.9	1.301	2.309	2.1	20.1	8 29	22 20.78	-6 0.6	1.448	2.456	1.7	18.8
9 8	22 11.56	-14 37.6	1.337	2.322	7.0	20.5	9 8	22 13.35	-7 7.2	1.471	2.463	5.4	19.0
9 18	22 4.35	-15 24.3	1.398	2.334	11.6	20.8	9 18	22 7.17	-8 8.9	1.520	2.469	9.7	19.3
9 28	21 59.60	-15 52.9	1.480	2.347	15.5	21.1	9 28	22 3.04	-9 0.1	1.591	2.476	13.6	19.6
260667	2005 JE ₄		8 26.8 100°83'	2°0/28.5	17		123422	2000 WF ₁₀₆		8 26.8 3°64'	1°1/26.1	18	
7 20	22 50.01	-1 55.0	1.640	2.458	17.3	21.1	7 20	22 42.77	-9 55.8	1.218	2.094	18.6	19.1
7 30	22 45.32	-2 15.6	1.579	2.478	13.7	20.9	7 30	22 40.66	-10 20.5	1.156	2.093	14.4	18.8
8 9	22 38.34	-2 54.4	1.538	2.498	9.5	20.7	8 9	22 35.77	-11 0.4	1.111	2.093	9.5	18.6
8 19	22 29.70	-3 48.3	1.520	2.517	5.0	20.5	8 19	22 28.74	-11 50.0	1.088	2.094	4.1	18.3
8 29	22 20.37	-4 41.8	1.529	2.536	2.1	20.4	8 29	22 20.71	-12 41.5	1.088	2.097	2.0	18.1
9 8	22 11.47	-5 57.5	1.564	2.554	5.4	20.6	9 8	22 13.04	-13 26.3	1.112	2.101	7.3	18.5
9 18	22 3.97	-6 58.9	1.627	2.572	9.5	20.9	9 18	22 6.99	-13 58.0	1.158	2.106	12.3	18.8
9 28	21 58.66	-7 50.3	1.712	2.589	13.2	21.2	9 28	22 3.54	-14 12.6	1.225	2.112	16.7	19.1
45953	2001 AZ ₃₃		8 26.8 151°90'	2°7/24.5	18		389758	2011 SS ₁₉₃		8 26.8 25°88'	1°6/25.3	18	
7 20	22 52.09	-14 37.8	1.902	2.745	14.3	19.5	7 20	22 45.91	-11 57.2	1.881	2.730	14.2	21.2
7 30	22 46.78	-15 27.3	1.834	2.755	10.9	19.3	7 30	22 42.11	-12 35.5	1.808	2.731	10.9	20.9
8 9	22 39.26	-16 24.0	1.789	2.764	7.2	19.1	8 9	22 36.24	-13 23.1	1.756	2.733	7.1	20.7
8 19	22 30.12	-17 22.0	1.769	2.772	3.6	18.9	8 19	22 28.83	-14 15.4	1.729	2.734	3.2	20.5
8 29	22 20.25	-18 14.6	1.778	2.779	3.3	18.9	8 29	22 20.69	-15 6.2	1.729	2.735	2.3	20.4
9 8	22 10.71	-18 56.1	1.814	2.786	6.8	19.1	9 8	22 12.78	-15 49.8	1.756	2.737	6.1	20.7
9 18	22 2.47	-19 22.7	1.877	2.792	10.4	19.4	9 18	22 6.01	-16 21.8	1.809	2.738	9.9	20.9
9 28	21 56.29	-19 33.1	1.963	2.797	13.6	19.6	9 28	22 1.12	-16 39.6	1.885	2.740	13.2	21.1
101517	1998 XT ₄₂		8 26.8 274°87'	3°6/24.2	18		508882	2003 SJ ₂₀₉		8 26.8 294°41'	3°3/29.1	17	
7 20	22 50.51	-16 46.8	1.628	2.487	15.5	19.6	7 20	22 46.02	-1 8.7	1.409	2.243	18.8	21.2
7 30	22 46.23	-17 22.5	1.544	2.473	12.0	19.3	7 30	22 43.22	-1 2.9	1.312	2.219	15.4	20.9
8 9	22 39.31	-18 5.0	1.481	2.459	8.1	19.1	8 9	22 37.66	-1 18.1	1.233	2.195	11.2	20.6
8 19	22 30.31	-18 48.0	1.442	2.444	4.4	18.8	8 19	22 29.74	-1 54.1	1.175	2.171	6.5	20.2
8 29	22 20.20	-19 24.2	1.430	2.430	4.3	18.8	8 29	22 20.38	-2 47.7	1.141	2.146	3.3	20.0
9 8	22 10.25	-19 47.2	1.443	2.416	8.1	19.0	9 8	22 10.87	-3 52.0	1.131	2.122	6.6	20.1
9 18	22 1.68	-19 53.0	1.481	2.401	12.3	19.2	9 18	22 2.62	-4 58.5	1.145	2.098	11.7	20.3
9 28	21 55.49	-19 40.6	1.540	2.387	16.1	19.4	9 28	21 56.84	-5 58.5	1.180	2.075	16.6	20.5
425597	2010 UP ₁₃		8 26.8 252°69'	1°1/25.9	18		470678	2008 SS ₂₅₁		8 26.8 350°07'	2°3/30.3	16 C	
7 20	22 50.12	-10 37.9	1.591	2.439	16.3	21.5	7 20	21 42.98	-5 27.4	0.475	1.449	20.3	21.3
7 30	22 45.92	-11 2.9	1.506	2.428	12.7	21.3	7 30	21 52.69	-4 55.7	0.405	1.398	16.4	20.7
8 9	22 39.12	-11 40.1	1.441	2.417	8.5	21.0	8 9	22 2.43	-4 53.2	0.348	1.352	11.8	20.2
8 19	22 30.24	-12 24.9	1.400	2.405	3.7	20.7	8 19	22 12.98	-5 25.6	0.303	1.312	6.7	19.6
8 29	22 20.24	-13 10.9	1.385	2.393	1.9	20.5	8 29	22 25.49	-6 32.3	0.270	1.280	2.4	19.1
9 8	22 10.37	-13 51.1	1.396	2.381	6.7	20.8	9 8	22 41.10	-8 1.2	0.249	1.256	5.4	19.0
9 18	22 1.84	-14 20.2	1.433	2.368	11.4	21.1	9 18	23 0.17	-9 30.8	0.241	1.240	10.5	19.1
9 28	21 55.66	-14 34.5	1.491	2.355	15.5	21.3	9 28	23 22.29	-10 32.7	0.244	1.235	15.1	19.3
76497	2000 GJ ₁₆		8 26.8 244°50'	0°6/26.3	18		283824	2003 TB ₅		8 26.8 325°62'	4°4/30.5	18	
7 20	22 47.19	-9 50.3	2.029	2.866	13.7	19.9	7 20	22 44.00	+2 29.7	1.667	2.476	17.4	20.5
7 30	22 42.99	-10 11.4	1.945	2.861	10.7	19.7	7 30	22 40.99	+2 39.6	1.581	2.469	14.3	20.3
8 9	22 36.79	-10 42.2	1.883	2.855	7.1	19.5	8 9	22 35.74	+2 29.1	1.514	2.461	10.7	20.0
8 19	22 29.07	-11 19.2	1.845	2.850	3.1	19.2	8 19	22 28.70	+1 58.1	1.469	2.454	7.0	19.8
8 29	22 20.59	-11 57.8	1.836	2.844	1.3	19.1	8 29	22 20.73	+1 9.3	1.448	2.448	4.4	19.6
9 8	22 12.27	-12 33.0	1.854	2.839	5.3	19.3	9 8	22 12.87	+0 8.5	1.453	2.441	6.0	19.7
9 18	22 4.99	-13 0.5	1.898	2.833	9.1	19.6	9 18	22 6.14	-0 57.4	1.484	2.436	9.7	19.9
9 28	21 59.50	-13 17.3	1.967	2.827	12.5	19.8	9 28	22 1.45	-2 0.7	1.537	2.430	13.5	20.1
344780	2003 WA ₁₉₄		8 26.8 210°16'	3°0/23.9	18		28226	1999 AE ₂		8 26.8 207°13'	2°3/24.4	18	
7 20	22 47.09	-15 44.0	2.024	2.875	13.2	21.3	7 20	22 47.44	-15 10.8	2.364	3.205	11.9	19.3
7 30	22 42.94	-16 35.6	1.948	2.873	10.1	21.1	7 30	22 42.92	-15 52.6	2.281	3.201	9.1	19.1
8 9	22 36.76	-17 33.7	1.894	2.870	6.7	20.9	8 9	22 36.62	-16 40.2	2.221	3.196	6.0	18.9
8 19	22 29.06	-18 33.0	1.866	2.867	3.6	20.7	8 19	22 28.98	-17 29.0	2.188	3.191	3.1	18.7
8 29	22 20.61	-19 27.0	1.865	2.864	3.6	20.7	8 29	22 20.68	-18 14.0	2.184	3.185	2.9	18.7
9 8	22 12.35	-20 9.9	1.892	2.861	6.8	20.9	9 8	22 12.52	-18 50.5	2.208	3.179	5.8	18.9
9 18	22 5.18	-20 38.1	1.945	2.858	10.2	21.1	9 18	22 5.28	-19 15.4	2.259	3.172	9.0	19.1
9 28	21 59.85	-20 49.9	2.020	2.854	13.3	21.3	9 28	21 59.64	-19 26.8	2.334	3.166	11.8	19.3
442120	2010 TA ₁₇₇		8 26.8 339°46'	7°7/1.9	17		124027	2001 FS ₁₁₇		8 26.8 147°93'	3°9/31.9	18	
7 20	22 45.77	+9 16.3	1.901	2.661	17.2	20.1	7 20	22 44.99	+6 20.4	3.073	3.817	11.6	20.5
7 30	22 42.13	+10 18.1	1.812	2.654	14.9	19.9	7 30	22 40.53	+6 29.7	2.986	3.826	9.7	20.3
8 9	22 36.38	+11 0.8	1.742	2.648	12.2	19.8	8 9	22 34.78	+6 25.8	2.921	3.835	7.5	20.2
8 19	22 28.96	+11 21.8	1.693	2.641	9.6	19.6	8 19	22 28.08	+6 9.0	2.881	3.844	5.4	20.1
8 29	22 20.62	+11 20.0	1.667	2.636	7.8	19.5	8 29	22 20.94	+5 40.4	2.869	3.852	3.9	20.0
9 8	22 12.34	+10 57.4	1.667	2.631	8.1	19.5	9 8	22 13.92	+5 2.9	2.885	3.860	4.4	20.0
9 18	22 5.08	+10 18.8	1.691	2.626	10.1	19.6	9 18	22 7.57	+4 19.7	2.930	3.867	6.2	20.2
9 28	21 59.69	+9 30.6	1.739	2.622	12.8	19.7	9 28	22 2.37	+3 34.7	3.003	3.874	8.3	20.3
4692	SIMBAD		8 26.8 314°98'	3°6/24.4	18		497521	2006 BY ₁₂₄		8 26.8 246°69'	1°0/26.1	17	
7 20	22 46.16	-14 26.6	1.216	2.096	18.3	16.5	7 20						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
325587	2009 <i>SB</i> ₁₄₅		8 26.8	27°94	2.3/25.4	17	380846	2006 <i>BN</i> ₇		8 26.8	178°00	9.3/12.9	18
7 20	22 47.08	-12 37.1	1.150	2.029	19.2	20.0	7 20	22 55.68	-42 35.0	2.742	3.554	11.2	22.3
7 30	22 44.02	-13 6.2	1.099	2.038	14.8	19.8	7 30	22 49.61	-44 24.4	2.699	3.557	10.1	22.3
8 9	22 37.97	-13 47.4	1.066	2.049	9.7	19.5	8 9	22 41.25	-46 2.7	2.681	3.559	9.4	22.2
8 19	22 29.70	-14 33.7	1.054	2.060	4.4	19.3	8 19	22 31.14	-47 22.3	2.687	3.560	9.5	22.2
8 29	22 20.51	-15 16.5	1.066	2.073	3.1	19.2	8 29	22 20.18	-48 17.3	2.718	3.560	10.3	22.3
9 8	22 11.92	-15 47.9	1.101	2.086	8.0	19.6	9 8	22 9.44	-48 44.8	2.773	3.560	11.5	22.4
9 18	22 5.21	-16 3.1	1.158	2.100	12.9	19.9	9 18	21 59.94	-48 45.2	2.848	3.558	12.8	22.5
9 28	22 1.31	-16 0.2	1.236	2.115	17.1	20.2	9 28	21 52.50	-48 21.3	2.941	3.556	14.1	22.6
103504	2000 <i>AF</i> ₂₅₄		8 26.8	282°74	0.2/26.9	18	113295	2002 <i>RA</i> ₁₇₆		8 26.8	51°99	4.8/30.6	17
7 20	22 46.48	- 7 35.3	1.850	2.686	14.9	20.1	7 20	22 46.02	+ 3 14.2	1.381	2.199	19.9	19.3
7 30	22 42.68	- 7 53.1	1.764	2.679	11.6	19.9	7 30	22 42.82	+ 3 18.5	1.316	2.208	16.4	19.1
8 9	22 36.73	- 8 23.4	1.700	2.671	7.8	19.6	8 9	22 37.05	+ 2 57.7	1.268	2.218	12.2	18.9
8 19	22 29.12	- 9 3.0	1.660	2.664	3.6	19.4	8 19	22 29.33	+ 2 12.5	1.241	2.227	7.8	18.7
8 29	22 20.66	- 9 47.0	1.647	2.656	0.9	19.2	8 29	22 20.70	+ 1 7.1	1.238	2.238	4.8	18.5
9 8	22 12.34	-10 29.7	1.661	2.649	5.4	19.5	9 8	22 12.41	- 0 10.3	1.259	2.248	6.5	18.7
9 18	22 5.12	-11 6.1	1.701	2.642	9.6	19.7	9 18	22 5.62	- 1 30.6	1.304	2.259	10.5	18.9
9 28	21 59.81	-11 32.2	1.764	2.634	13.2	19.9	9 28	22 1.22	- 2 44.8	1.372	2.269	14.5	19.2
8185	1992 <i>WR</i> ₂		8 26.8	70°44	1.7/25.2	18	449070	2012 <i>FP</i> ₄₆		8 26.8	263°13	0.1/26.7	18
7 20	22 46.22	-12 26.5	1.987	2.834	13.6	17.3	7 20	22 44.27	- 8 4.3	2.473	3.299	11.9	22.1
7 30	22 42.24	-13 3.2	1.913	2.836	10.4	17.1	7 30	22 40.47	- 8 31.5	2.376	3.285	9.3	21.9
8 9	22 36.29	-13 48.4	1.861	2.837	6.8	16.9	8 9	22 35.03	- 9 8.5	2.302	3.271	6.2	21.7
8 19	22 28.87	-14 37.3	1.835	2.839	3.1	16.7	8 19	22 28.34	- 9 52.4	2.254	3.257	2.8	21.4
8 29	22 20.75	-15 24.5	1.835	2.841	2.3	16.6	8 29	22 20.98	-10 39.5	2.234	3.243	0.8	21.2
9 8	22 12.86	-16 4.5	1.863	2.843	5.9	16.9	9 8	22 13.67	-11 25.1	2.243	3.229	4.4	21.5
9 18	22 6.06	-16 33.3	1.918	2.845	9.5	17.1	9 18	22 7.13	-12 5.2	2.279	3.214	7.8	21.7
9 28	22 1.06	-16 48.6	1.996	2.847	12.7	17.3	9 28	22 1.99	-12 36.5	2.341	3.199	10.8	21.9
145098	2005 <i>GJ</i> ₈₆		8 26.8	41°08	5.9/22.3	18	26196	1997 <i>EF</i> ₄₆		8 26.8	137°65	4.2/23.3	18
7 20	22 49.01	-22 21.6	1.536	2.407	15.6	19.4	7 20	22 49.29	-16 54.9	1.614	2.476	15.5	19.3
7 30	22 44.85	-23 19.0	1.490	2.423	12.1	19.2	7 30	22 45.13	-18 4.0	1.550	2.481	11.9	19.0
8 9	22 38.16	-24 16.6	1.465	2.439	8.6	19.1	8 9	22 38.48	-19 20.5	1.508	2.485	8.0	18.8
8 19	22 29.69	-25 6.3	1.464	2.455	6.1	19.0	8 19	22 29.95	-20 36.5	1.490	2.489	4.7	18.7
8 29	22 20.55	-25 4.4	1.487	2.472	6.7	19.0	8 29	22 20.55	-21 43.0	1.498	2.493	5.1	18.7
9 8	22 11.99	-25 54.0	1.536	2.490	9.5	19.2	9 8	22 11.49	-22 32.9	1.532	2.497	8.5	18.9
9 18	22 5.06	-25 45.8	1.608	2.508	12.8	19.5	9 18	22 3.87	-23 1.9	1.591	2.501	12.3	19.1
9 28	22 0.52	-25 17.3	1.700	2.526	15.7	19.7	9 28	21 58.56	-23 9.2	1.671	2.504	15.6	19.4
504428	2008 <i>AN</i> ₅₅		8 26.8	202°44	0.5/26.4	17	75540	1999 <i>XJ</i> ₂₃₃		8 26.8	223°84	2.6/24.6	18
7 20	22 49.22	- 7 57.9	1.786	2.621	15.4	22.4	7 20	22 48.48	-12 53.2	1.681	2.534	15.4	19.8
7 30	22 44.88	- 8 36.7	1.703	2.618	12.0	22.2	7 30	22 44.51	-13 50.1	1.602	2.529	11.9	19.6
8 9	22 38.24	- 9 29.6	1.642	2.614	8.0	21.9	8 9	22 38.11	-14 58.4	1.545	2.523	7.8	19.3
8 19	22 29.82	-10 32.0	1.605	2.609	3.5	21.6	8 19	22 29.83	-16 11.8	1.513	2.517	3.8	19.1
8 29	22 20.48	-11 37.8	1.595	2.604	1.3	21.5	8 29	22 20.57	-17 22.2	1.507	2.510	3.4	19.0
9 8	22 11.31	-12 39.8	1.613	2.599	5.9	21.8	9 8	22 11.49	-18 21.8	1.528	2.504	7.3	19.2
9 18	22 3.32	-13 32.0	1.658	2.592	10.2	22.0	9 18	22 3.69	-19 5.2	1.574	2.497	11.5	19.5
9 28	21 57.40	-14 10.2	1.725	2.586	14.0	22.2	9 28	21 58.08	-19 29.4	1.642	2.489	15.2	19.7
354484	2004 <i>EB</i> ₃₀		8 26.8	200°26	0.1/26.8	18	384492	2010 <i>CT</i> ₇₄		8 26.8	106°75	0.4/26.4	18
7 20	22 45.29	- 7 29.1	2.063	2.895	13.7	21.6	7 20	22 47.58	- 8 18.3	1.923	2.757	14.5	21.5
7 30	22 41.48	- 7 59.6	1.982	2.895	10.7	21.4	7 30	22 43.26	- 8 55.9	1.856	2.770	11.2	21.3
8 9	22 35.77	- 8 41.9	1.923	2.894	7.1	21.2	8 9	22 36.95	- 9 45.0	1.811	2.783	7.4	21.1
8 19	22 28.65	- 9 32.6	1.890	2.893	3.2	20.9	8 19	22 29.18	-10 41.5	1.792	2.796	3.2	20.9
8 29	22 20.82	-10 26.7	1.883	2.892	0.9	20.7	8 29	22 20.78	-11 39.7	1.799	2.808	1.2	20.8
9 8	22 13.17	-11 18.8	1.905	2.892	5.0	21.0	9 8	22 12.67	-12 33.5	1.835	2.820	5.3	21.1
9 18	22 6.51	-12 3.8	1.953	2.891	8.7	21.3	9 18	22 5.73	-13 18.1	1.897	2.832	9.1	21.4
9 28	22 1.55	-12 38.1	2.026	2.890	12.0	21.5	9 28	22 0.64	-13 50.2	1.984	2.844	12.4	21.6
12292	Dalton		8 26.8	134°74	2.6/23.9	18	320573	2008 <i>AL</i> ₁₀₄		8 26.8	249°43	3.0/24.4	17
7 20	22 45.66	-16 29.1	2.509	3.354	11.2	18.7	7 20	22 47.45	-12 46.4	1.459	2.322	16.7	20.9
7 30	22 41.38	-17 14.3	2.439	3.360	8.5	18.6	7 30	22 44.01	-13 50.8	1.389	2.320	12.9	20.7
8 9	22 35.51	-18 3.6	2.392	3.366	5.7	18.4	8 9	22 37.92	-15 8.3	1.338	2.318	8.5	20.4
8 19	22 28.47	-18 52.8	2.372	3.372	3.1	18.2	8 19	22 29.78	-16 31.5	1.312	2.316	4.1	20.2
8 29	22 20.90	-19 36.9	2.380	3.378	3.1	18.2	8 29	22 20.61	-17 50.9	1.311	2.314	3.8	20.2
9 8	22 13.54	-20 12.0	2.417	3.384	5.7	18.4	9 8	22 11.69	-18 57.1	1.335	2.312	8.1	20.4
9 18	22 7.07	-20 35.2	2.480	3.389	8.5	18.6	9 18	22 4.24	-19 44.1	1.384	2.309	12.5	20.7
9 28	22 2.06	-20 45.2	2.569	3.394	11.0	18.8	9 28	21 59.23	-20 8.9	1.453	2.307	16.5	20.9
458413	2011 <i>AH</i> ₈		8 26.8	312°17	1.1/25.8	17	103240	2000 <i>AC</i> ₁		8 26.8	290°77	0.1/26.8	17
7 20	22 43.67	-10 49.2	2.084	2.929	13.1	21.8	7 20	22 44.31	- 7 52.8	2.280	3.110	12.7	20.5
7 30	22 40.33	-11 20.0	1.994	2.915	10.2	21.6	7 30	22 40.74	- 8 18.1	2.174	3.085	9.9	20.3
8 9	22 35.09	-12 0.5	1.925	2.901	6.7	21.3	8 9	22 35.37	- 8 54.3	2.091	3.061	6.7	20.0
8 19	22 28.40	-12 46.8	1.882	2.887	3.0	21.1	8 19	22 28.57	- 9 38.7	2.033	3.037	3.0	19.8
8 29	22 20.93	-13 34.1	1.866	2.874	1.7	21.0	8 29	22 20.95	-10 27.2	2.003	3.013	0.9	19.5
9 8	22 13.55	-14 16.8	1.877	2.860	5.4	21.2	9 8	22 13.32	-11 14.9	2.002	2.988	4.8	19.8
9 18	22 7.09	-14 50.7	1.915	2.848	9.2	21.4	9 18	22 6.47	-11 57.0	2.027	2.964	8.5	20.0
9 28	22 2.30	-15 12.6	1.976	2.835	12.5	21.6	9 28	22 1.14	-12 29.8	2.077	2.939	11.9	20.1
68138	2001 <i>AU</i> ₂₄		8 26.8	38°99	0.8/27.6	18	104463	2000 <i>GW</i> ₁₂		8 26.8	328°93		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
103606	2000 CR ₁₈		8 26.8 259°25	4.9/30.8	18		42412	4320 T ₋₁		8 26.9 168°47	2.2/25.2	18	
7 20	22 48.62	+ 3 34.6	2.056	2.835	15.5	20.1	7 20	22 51.58	-12 50.2	1.645	2.494	15.9	19.5
7 30	22 44.22	+ 4 9.2	1.958	2.824	12.9	19.9	7 30	22 46.86	-13 31.2	1.574	2.497	12.2	19.3
8 9	22 37.76	+ 4 28.2	1.880	2.812	10.0	19.7	8 9	22 39.65	-14 22.1	1.523	2.499	8.0	19.1
8 19	22 29.67	+ 4 30.7	1.826	2.800	6.9	19.5	8 19	22 30.54	-15 17.1	1.497	2.502	3.7	18.8
8 29	22 20.66	+ 4 17.3	1.797	2.788	5.0	19.3	8 29	22 20.53	-16 9.0	1.498	2.503	2.9	18.8
9 8	22 11.68	+ 3 50.8	1.796	2.776	6.0	19.4	9 8	22 10.82	-16 51.0	1.526	2.504	7.0	19.0
9 18	22 3.64	+ 3 15.8	1.822	2.764	8.9	19.5	9 18	22 2.53	-17 18.6	1.579	2.505	11.2	19.3
9 28	21 57.37	+ 2 37.7	1.872	2.751	12.1	19.7	9 28	21 56.54	-17 29.5	1.654	2.505	14.9	19.5
289077	2004 TW ₂₁₇		8 26.8 267°58	1.5/28.5	18		362638	2011 SR ₁₇₂		8 26.9 234°56	1.8/28.1	17	
7 20	22 43.54	- 2 42.8	2.417	3.225	12.7	21.3	7 20	22 49.16	- 3 35.8	1.375	2.214	18.9	21.3
7 30	22 39.96	- 3 1.8	2.317	3.212	10.1	21.1	7 30	22 45.52	- 3 46.7	1.298	2.210	15.1	21.0
8 9	22 34.74	- 3 33.7	2.240	3.199	7.1	20.9	8 9	22 39.07	- 4 17.5	1.239	2.206	10.5	20.8
8 19	22 28.24	- 4 16.9	2.189	3.186	3.8	20.7	8 19	22 30.40	- 5 5.8	1.201	2.202	5.4	20.5
8 29	22 21.08	- 5 8.0	2.165	3.172	1.5	20.5	8 29	22 20.54	- 6 5.7	1.189	2.197	1.9	20.2
9 8	22 13.95	- 6 2.4	2.169	3.159	4.2	20.7	9 8	22 10.88	- 7 9.2	1.201	2.193	6.4	20.5
9 18	22 7.58	- 6 55.6	2.201	3.145	7.5	20.8	9 18	22 2.73	- 8 8.1	1.238	2.188	11.5	20.8
9 28	22 2.62	- 7 43.0	2.259	3.131	10.6	21.0	9 28	21 57.14	- 8 55.5	1.297	2.183	16.0	21.0
374826	2006 UV ₁₉₃		8 26.8 356°55	3.7/24.8	16 R		392998	2012 XN ₁₁₉		8 26.9 199°36	1.5/28.2	18	
7 20	22 41.87	-15 18.5	0.934	1.837	20.5	19.8	7 20	22 48.82	- 4 36.0	2.183	2.994	13.7	20.9
7 30	22 40.81	-15 41.8	0.877	1.830	15.9	19.5	7 30	22 44.13	- 4 32.5	2.096	2.992	10.9	20.7
8 9	22 36.37	-16 15.8	0.837	1.825	10.6	19.2	8 9	22 37.54	- 4 40.3	2.030	2.990	7.6	20.5
8 19	22 29.24	-16 52.7	0.816	1.821	5.3	18.9	8 19	22 29.53	- 4 57.7	1.990	2.988	4.0	20.2
8 29	22 20.81	-17 22.7	0.815	1.820	4.6	18.9	8 29	22 20.81	- 5 21.8	1.977	2.985	1.6	20.1
9 8	22 12.86	-17 36.9	0.835	1.820	9.7	19.1	9 8	22 12.23	- 5 48.8	1.993	2.982	4.5	20.3
9 18	22 6.95	-17 30.5	0.874	1.823	15.1	19.4	9 18	22 4.62	- 6 14.6	2.037	2.979	8.1	20.5
9 28	22 4.23	-17 2.5	0.932	1.827	19.8	19.7	9 28	21 58.69	- 6 35.6	2.105	2.975	11.4	20.7
476222	2007 UM ₁₃₁		8 26.8 247°66	1.6/28.4	18		438303	2006 DV ₁₄₆		8 26.9 338°61	2.0/25.8	18	
7 20	22 45.98	- 3 23.0	2.049	2.865	14.3	22.2	7 20	22 52.32	-15 7.4	1.459	2.319	16.9	20.3
7 30	22 42.10	- 3 33.5	1.960	2.860	11.4	21.9	7 30	22 47.82	-14 57.9	1.382	2.311	13.2	20.1
8 9	22 36.28	- 3 58.0	1.893	2.854	8.0	21.7	8 9	22 40.51	-14 53.5	1.326	2.304	8.8	19.8
8 19	22 28.97	- 4 34.5	1.850	2.848	4.2	21.5	8 19	22 31.01	-14 50.0	1.292	2.297	4.1	19.5
8 29	22 20.89	- 5 19.3	1.834	2.841	1.7	21.3	8 29	22 20.43	-14 42.4	1.284	2.291	2.6	19.4
9 8	22 12.93	- 6 7.4	1.845	2.835	4.7	21.5	9 8	22 10.18	-14 26.7	1.301	2.286	7.2	19.7
9 18	22 5.93	- 6 53.7	1.884	2.829	8.5	21.7	9 18	22 1.52	-14 0.4	1.343	2.281	11.8	19.9
9 28	22 0.65	- 7 33.4	1.947	2.822	12.0	21.9	9 28	21 55.48	-13 23.1	1.407	2.277	16.0	20.2
316505	2010 VY ₁₃₀		8 26.8 179°83	7.3/17.9	18		121529	1999 UY ₃₃		8 26.9 268°10	1.2/25.6	18 R	
7 20	22 48.88	-33 7.7	2.516	3.360	11.1	20.5	7 20	22 45.54	-11 45.7	2.384	3.221	12.0	20.8
7 30	22 44.15	-34 22.8	2.458	3.361	9.3	20.4	7 30	22 41.56	-12 15.4	2.289	3.206	9.2	20.6
8 9	22 37.50	-35 32.0	2.425	3.361	7.8	20.3	8 9	22 35.85	-12 52.9	2.218	3.191	6.1	20.4
8 19	22 29.46	-36 28.7	2.417	3.361	7.3	20.3	8 19	22 28.80	-13 34.7	2.172	3.176	2.7	20.2
8 29	22 20.77	-37 7.4	2.435	3.361	8.1	20.3	8 29	22 21.04	-14 16.4	2.154	3.161	1.7	20.1
9 8	22 12.35	-37 24.6	2.479	3.361	9.7	20.4	9 8	22 13.34	-14 53.4	2.165	3.146	5.1	20.3
9 18	22 5.01	-37 19.7	2.545	3.361	11.5	20.6	9 18	22 6.47	-15 22.1	2.203	3.130	8.5	20.5
9 28	21 59.43	-36 54.2	2.633	3.360	13.3	20.7	9 28	22 1.09	-15 39.9	2.266	3.115	11.5	20.6
521738	2015 RV ₂₇₁		8 26.9 148°15	0.9/27.8	18		466259	2013 JA ₄₈		8 26.9 33°57	0.1/26.9	17	
7 20	22 44.65	- 4 59.1	2.439	3.254	12.4	22.0	7 20	22 43.00	- 4 59.1	0.984	1.862	21.8	20.7
7 30	22 40.68	- 5 18.3	2.356	3.257	9.7	21.9	7 30	22 41.22	- 5 51.7	0.939	1.876	17.0	20.4
8 9	22 35.11	- 5 48.4	2.296	3.260	6.6	21.7	8 9	22 36.33	- 7 9.5	0.911	1.891	11.3	20.2
8 19	22 28.38	- 6 27.2	2.262	3.262	3.3	21.5	8 19	22 29.14	- 8 45.0	0.902	1.907	5.1	19.9
8 29	22 21.08	- 7 11.1	2.256	3.265	1.0	21.3	8 29	22 20.98	-10 26.1	0.915	1.925	1.4	19.7
9 8	22 13.94	- 7 55.9	2.279	3.268	4.1	21.5	9 8	22 13.43	-11 59.4	0.951	1.943	7.5	20.2
9 18	22 7.62	- 8 37.4	2.329	3.270	7.3	21.7	9 18	22 7.84	-13 14.7	1.009	1.962	13.0	20.5
9 28	22 2.73	- 9 12.1	2.405	3.272	10.3	21.9	9 28	22 5.12	-14 6.1	1.087	1.982	17.6	20.9
510631	2012 TU ₁₇₆		8 26.9 279°19	1.5/28.1	18		202987	1999 VU ₄₀		8 26.9 313°60	1.4/27.9	18	
7 20	22 45.49	- 3 29.8	1.763	2.591	15.9	22.1	7 20	22 44.89	- 4 59.0	1.588	2.429	16.7	20.5
7 30	22 42.06	- 3 49.4	1.677	2.583	12.6	21.8	7 30	22 41.94	- 5 6.0	1.498	2.412	13.3	20.3
8 9	22 36.44	- 4 25.7	1.611	2.576	8.8	21.6	8 9	22 36.58	- 5 29.2	1.427	2.397	9.2	20.0
8 19	22 29.10	- 5 16.3	1.569	2.568	4.5	21.3	8 19	22 29.28	- 6 6.4	1.380	2.381	4.7	19.7
8 29	22 20.86	- 6 16.4	1.552	2.561	1.5	21.1	8 29	22 20.90	- 6 53.1	1.357	2.366	1.5	19.4
9 8	22 12.74	- 7 19.4	1.563	2.553	5.3	21.3	9 8	22 12.56	- 7 42.8	1.360	2.351	5.8	19.7
9 18	22 5.72	- 8 18.7	1.599	2.546	9.6	21.6	9 18	22 5.41	- 8 28.8	1.388	2.337	10.5	19.9
9 28	22 0.66	- 9 8.5	1.659	2.538	13.5	21.8	9 28	22 0.41	- 9 5.4	1.438	2.323	14.7	20.1
50088	2000 AO ₉₄		8 26.9 280°63	1.4/27.8	18		314528	2005 YX ₂₅		8 26.9 307°15	3.3/29.9	18	
7 20	22 48.25	- 5 12.6	1.533	2.371	17.3	19.8	7 20	22 45.91	+ 0 29.1	2.270	3.063	13.8	20.6
7 30	22 44.55	- 5 17.4	1.450	2.363	13.8	19.6	7 30	22 41.85	+ 0 46.7	2.179	3.059	11.3	20.4
8 9	22 38.30	- 5 38.3	1.387	2.355	9.5	19.3	8 9	22 36.03	+ 0 50.9	2.111	3.055	8.3	20.2
8 19	22 30.01	- 6 12.9	1.346	2.348	4.8	19.0	8 19	22 28.87	+ 0 42.1	2.066	3.051	5.3	20.0
8 29	22 20.64	- 6 56.3	1.331	2.340	1.5	18.8	8 29	22 21.03	+ 0 22.1	2.048	3.048	3.3	19.9
9 8	22 11.41	- 7 42.0	1.341	2.332	5.9	19.0	9 8	22 13.30	- 0 5.9	2.058	3.044	4.7	20.0
9 18	22 3.52	- 8 23.6	1.377	2.324	10.7	19.3	9 18	22 6.44	- 0 37.7	2.096	3.041	7.7	20.2
9 28	21 57.95	- 8 55.6	1.435	2.317	15.0	19.5	9 28	22 1.13	- 1 9.1	2.158	3.038	10.8	20.4
41636	2000 SZ ₂₂₀		8 26.9 50°68	3.7/23.5	18		261667	2005 YW ₁₃₉		8 26.9 177°48	2.7/29.6	18	
7 20	22 45.32</												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
237029	2008 <i>SL</i> ₆₇		8 26.9	26°51'	0°7/26.3	18	481588	2007 <i>TN</i> ₁₆₄		8 26.9	309°05'	1°7/28.3	17
7 20	22 47.71	-9 39.4	1.667	2.514	15.8	21.1	7 20	22 43.81	-3 29.5	1.638	2.474	16.5	21.6
7 30	22 43.82	-10 2.8	1.594	2.515	12.2	20.8	7 30	22 41.20	-3 41.3	1.533	2.444	13.3	21.3
8 9	22 37.61	-10 37.9	1.542	2.516	8.1	20.6	8 9	22 36.20	-4 11.2	1.448	2.414	9.4	21.0
8 19	22 29.64	-11 20.5	1.513	2.518	3.6	20.3	8 19	22 29.20	-4 57.7	1.385	2.385	5.0	20.7
8 29	22 20.83	-12 4.8	1.511	2.520	1.4	20.2	8 29	22 20.96	-5 56.8	1.347	2.355	1.8	20.4
9 8	22 12.29	-12 44.6	1.535	2.521	6.0	20.5	9 8	22 12.58	-7 1.7	1.335	2.326	5.8	20.6
9 18	22 5.04	-13 14.8	1.585	2.523	10.3	20.8	9 18	22 5.23	-8 4.7	1.348	2.298	10.7	20.8
9 28	21 59.92	-13 32.2	1.657	2.525	14.0	21.0	9 28	21 59.95	-8 58.8	1.383	2.270	15.1	21.0
507222	2010 <i>WU</i> ₂₆		8 26.9	356°56'	7°2/31.4	17	128179	2003 <i>RV</i> ₁₂		8 26.9	60°69'	0°3/26.5	18
7 20	22 44.22	+3 50.9	1.137	1.972	22.3	21.0	7 20	22 45.68	-9 20.3	2.193	3.027	12.9	19.5
7 30	22 42.12	+4 46.3	1.069	1.968	18.7	20.8	7 30	22 41.62	-9 40.6	2.124	3.037	10.0	19.3
8 9	22 37.05	+5 16.2	1.016	1.964	14.5	20.5	8 9	22 35.81	-10 9.7	2.076	3.048	6.6	19.1
8 19	22 29.58	+5 17.8	0.981	1.963	10.2	20.3	8 19	22 28.75	-10 44.4	2.054	3.058	2.9	18.9
8 29	22 20.84	+4 51.6	0.968	1.962	7.4	20.1	8 29	22 21.15	-11 20.5	2.060	3.069	1.0	18.8
9 8	22 12.33	+4 3.3	0.976	1.962	8.5	20.2	9 8	22 13.78	-11 53.6	2.094	3.080	4.7	19.1
9 18	22 5.47	+3 2.1	1.005	1.964	12.4	20.4	9 18	22 7.41	-12 20.1	2.155	3.090	8.1	19.3
9 28	22 1.43	+1 58.7	1.055	1.966	16.7	20.7	9 28	22 2.63	-12 37.3	2.240	3.101	11.1	19.5
193209	2000 <i>QC</i> ₂₀₆		8 26.9	16°12'	3°9/25.0	18	451361	2010 <i>XK</i> ₁₂		8 26.9	285°82'	0°6/26.3	17
7 20	22 56.56	-19 49.9	1.355	2.219	17.7	19.1	7 20	22 45.17	-9 57.2	2.293	3.128	12.4	22.0
7 30	22 51.14	-19 41.8	1.292	2.222	13.8	18.9	7 30	22 41.38	-10 20.4	2.196	3.110	9.7	21.8
8 9	22 42.65	-19 34.2	1.249	2.226	9.4	18.6	8 9	22 35.80	-10 52.6	2.121	3.093	6.4	21.6
8 19	22 31.92	-19 21.2	1.229	2.230	5.1	18.4	8 19	22 28.83	-11 30.9	2.071	3.075	2.8	21.3
8 29	22 20.26	-18 57.4	1.234	2.235	4.5	18.4	8 29	22 21.11	-12 10.9	2.049	3.058	1.2	21.2
9 8	22 9.23	-18 19.8	1.264	2.241	8.4	18.6	9 8	22 13.43	-12 48.0	2.056	3.040	4.9	21.4
9 18	22 0.17	-17 28.4	1.319	2.248	12.8	18.9	9 18	22 6.58	-13 18.3	2.089	3.023	8.5	21.6
9 28	21 54.03	-16 25.0	1.395	2.255	16.6	19.2	9 28	22 1.26	-13 38.8	2.147	3.005	11.7	21.8
346645	2008 <i>XS</i> ₂₉		8 26.9	181°97'	4°5/31.9	17	145394	2005 <i>NT</i> ₄₃		8 26.9	242°89'	0°9/27.6	18
7 20	22 47.49	+6 52.6	2.595	3.341	13.4	21.9	7 20	22 49.15	-5 33.2	1.789	2.616	15.7	21.2
7 30	22 42.84	+7 1.9	2.501	3.342	11.3	21.7	7 30	22 44.97	-5 49.0	1.697	2.604	12.4	21.0
8 9	22 36.58	+6 55.4	2.428	3.343	8.8	21.5	8 9	22 38.47	-6 19.4	1.626	2.592	8.5	20.7
8 19	22 29.10	+6 32.7	2.379	3.342	6.3	21.4	8 19	22 30.12	-7 2.0	1.578	2.580	4.2	20.4
8 29	22 21.00	+5 55.5	2.357	3.342	4.6	21.3	8 29	22 20.75	-7 51.8	1.557	2.566	1.1	20.2
9 8	22 13.00	+5 6.8	2.364	3.340	5.1	21.3	9 8	22 11.44	-8 42.9	1.564	2.553	5.5	20.5
9 18	22 5.77	+4 11.1	2.400	3.338	7.3	21.4	9 18	22 3.24	-9 29.1	1.596	2.539	9.9	20.7
9 28	21 59.94	+3 13.4	2.461	3.335	9.8	21.6	9 28	21 57.09	-10 5.7	1.653	2.524	13.9	20.9
513985	2014 <i>GN</i> ₅₇		8 26.9	212°83'	2°6/29.6	18	237927	2002 <i>PG</i> ₁₈₇		8 26.9	260°96'	3°4/23.8	18
7 20	22 45.39	+0 39.1	2.262	3.055	13.9	22.4	7 20	22 47.39	-16 38.6	1.877	2.733	13.9	20.6
7 30	22 41.49	+0 25.2	2.169	3.051	11.2	22.2	7 30	22 43.41	-17 30.4	1.804	2.732	10.7	20.4
8 9	22 35.82	-0 4.4	2.098	3.046	8.2	22.0	8 9	22 37.28	-18 28.5	1.753	2.730	7.1	20.2
8 19	22 28.80	-0 48.3	2.051	3.040	4.9	21.8	8 19	22 29.51	-19 26.8	1.727	2.728	4.0	20.0
8 29	22 21.08	-1 43.3	2.031	3.035	2.7	21.6	8 29	22 20.95	-20 18.4	1.728	2.726	4.1	20.0
9 8	22 13.45	-2 44.8	2.040	3.029	4.5	21.7	9 8	22 12.62	-20 57.5	1.756	2.724	7.3	20.2
9 18	22 6.68	-3 47.2	2.077	3.022	7.8	21.9	9 18	22 5.46	-21 20.3	1.809	2.722	10.8	20.4
9 28	22 1.44	-4 45.3	2.139	3.016	11.0	22.1	9 28	22 0.27	-21 25.4	1.884	2.720	14.0	20.6
158776	2003 <i>SK</i> ₆₅		8 26.9	318°47'	5°7/2.6	18	211043	2002 <i>CL</i> ₃₄		8 26.9	265°38'	1°1/26.2	17
7 20	22 41.72	+10 29.9	2.318	3.063	14.9	19.8	7 20	22 53.13	-11 35.5	1.455	2.306	17.4	20.5
7 30	22 38.66	+10 32.5	2.224	3.058	12.7	19.6	7 30	22 48.64	-11 41.7	1.370	2.293	13.7	20.3
8 9	22 33.94	+10 14.8	2.149	3.053	10.3	19.4	8 9	22 41.23	-11 58.3	1.305	2.280	9.2	20.0
8 19	22 27.95	+9 36.2	2.096	3.049	7.7	19.3	8 19	22 31.45	-12 21.2	1.263	2.267	4.1	19.7
8 29	22 21.32	+8 38.1	2.069	3.045	5.9	19.2	8 29	22 20.40	-12 44.4	1.246	2.254	1.9	19.5
9 8	22 14.76	+7 24.5	2.068	3.041	6.0	19.2	9 8	22 9.47	-13 1.7	1.255	2.241	7.1	19.8
9 18	22 9.00	+6 1.2	2.094	3.037	7.9	19.3	9 18	22 0.06	-13 8.6	1.288	2.227	12.1	20.0
9 28	22 4.68	+4 34.9	2.146	3.033	10.5	19.4	9 28	21 53.29	-13 2.3	1.343	2.213	16.6	20.3
142160	2002 <i>RN</i> ₃₁		8 26.9	207°67'	1°2/27.7	18	404041	2012 <i>DD</i> ₃		8 26.9	241°76'	1°3/25.4	18
7 20	22 51.48	-6 10.8	1.664	2.494	16.6	20.2	7 20	22 43.20	-10 37.9	2.420	3.258	11.8	21.5
7 30	22 46.81	-6 6.9	1.583	2.492	13.1	19.9	7 30	22 39.69	-11 29.8	2.336	3.254	9.0	21.3
8 9	22 39.67	-6 16.1	1.523	2.489	9.0	19.7	8 9	22 34.57	-12 30.9	2.276	3.250	5.9	21.1
8 19	22 30.62	-6 36.3	1.486	2.487	4.4	19.4	8 19	22 28.24	-13 37.2	2.242	3.246	2.6	20.9
8 29	22 20.59	-7 3.2	1.475	2.484	1.4	19.2	8 29	22 21.30	-14 43.5	2.236	3.243	1.8	20.8
9 8	22 10.78	-7 31.8	1.491	2.481	5.6	19.5	9 8	22 14.47	-15 44.6	2.259	3.239	5.0	21.0
9 18	22 2.29	-7 56.9	1.533	2.477	10.1	19.7	9 18	22 8.44	-16 35.9	2.310	3.235	8.2	21.2
9 28	21 56.04	-8 14.4	1.598	2.474	14.1	20.0	9 28	22 3.83	-17 14.7	2.385	3.231	11.1	21.4
315788	2008 <i>FO</i> ₁₂₉		8 26.9	345°05'	4°2/31.3	18	114390	2002 <i>YR</i> ₃		8 26.9	328°67'	18°2/4.6	18
7 20	22 42.66	+4 41.3	2.069	2.854	15.3	20.4	7 20	22 46.58	-45 30.0	1.204	2.071	19.3	18.1
7 30	22 39.54	+4 39.3	1.982	2.852	12.6	20.2	7 30	22 45.49	-48 26.7	1.163	2.051	18.4	17.9
8 9	22 34.60	+4 18.1	1.914	2.849	9.6	20.0	8 9	22 40.20	-51 3.0	1.141	2.031	18.3	17.9
8 19	22 28.27	+3 38.5	1.870	2.847	6.5	19.8	8 19	22 31.29	-53 1.5	1.136	2.013	19.2	17.9
8 29	22 21.24	+2 42.7	1.851	2.846	4.3	19.7	8 29	22 20.42	-54 8.0	1.147	1.995	20.9	17.9
9 8	22 14.33	+1 35.9	1.859	2.844	5.3	19.7	9 8	22 9.98	-54 17.1	1.174	1.979	22.9	18.0
9 18	22 8.33	+0 24.1	1.894	2.843	8.2	19.9	9 18	22 2.16	-53 31.3	1.212	1.963	25.0	18.1
9 28	22 3.93	-0 46.2	1.954	2.842	11.3	20.1	9 28	21 58.46	-51 58.6	1.262	1.950	26.9	18.3
393548	2002 <i>XF</i> ₆₃		8 26.9	299°76'	6°3/21.0	18	446066	2013 <i>CR</i> ₁₅₀		8 26.9	36°56'	1°9/25.3	18
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
463428	2013 <i>KY</i> ₁₆		8 26.9 44°26'	4.1/24.3	17		519827	2013 <i>JB</i> ₆₇		8 26.9 161°36'	4.2/1.5	18	
7 20	22 49.34	-15 5.9	1.067	1.951	20.0	20.6	7 20	22 42.60	+ 8 7.1	2.697	3.443	13.0	22.0
7 30	22 46.01	-16 1.2	1.024	1.966	15.3	20.4	7 30	22 39.04	+ 7 55.1	2.605	3.446	10.9	21.8
8 9	22 39.45	-17 6.7	0.999	1.982	10.1	20.1	8 9	22 34.04	+ 7 26.0	2.535	3.449	8.5	21.7
8 19	22 30.54	-18 12.8	0.995	1.999	5.2	19.9	8 19	22 27.99	+ 6 40.2	2.488	3.451	6.1	21.5
8 29	22 20.72	-19 8.5	1.014	2.016	5.0	20.0	8 29	22 21.41	+ 5 39.9	2.468	3.453	4.4	21.4
9 8	22 11.65	-19 45.2	1.055	2.033	9.5	20.3	9 8	22 14.94	+ 4 29.0	2.477	3.455	4.7	21.5
9 18	22 4.68	-19 59.0	1.119	2.052	14.2	20.6	9 18	22 9.18	+ 3 12.3	2.514	3.457	6.8	21.6
9 28	22 0.74	-19 49.8	1.201	2.070	18.2	20.9	9 28	22 4.67	+ 1 55.3	2.578	3.458	9.2	21.8
91713	1999 <i>TD</i> ₁₅₂		8 26.9 254°49'	5.9/20.3	18		380762	2005 <i>TW</i> ₇₁		8 26.9 323°46'	9.8/21.9	18	
7 20	22 49.20	-27 56.9	2.515	3.363	11.1	20.2	7 20	22 57.73	-30 35.2	1.279	2.149	18.2	19.8
7 30	22 44.44	-28 53.8	2.435	3.349	8.9	20.1	7 30	22 52.94	-31 10.5	1.206	2.130	15.1	19.6
8 9	22 37.79	-29 48.5	2.379	3.334	6.9	19.9	8 9	22 44.45	-31 37.8	1.152	2.112	11.9	19.4
8 19	22 29.71	-30 35.0	2.349	3.320	5.9	19.8	8 19	22 32.98	-31 45.9	1.119	2.095	10.0	19.2
8 29	22 20.91	-31 7.8	2.346	3.305	6.5	19.8	8 29	22 20.06	-31 24.6	1.108	2.079	10.6	19.2
9 8	22 12.26	-31 23.1	2.370	3.290	8.4	19.9	9 8	22 7.63	-30 29.1	1.120	2.063	13.4	19.3
9 18	22 4.58	-31 19.1	2.419	3.274	10.8	20.1	9 18	21 57.43	-29 1.5	1.154	2.048	17.1	19.5
9 28	21 58.57	-30 56.5	2.490	3.259	13.0	20.2	9 28	21 50.72	-27 8.3	1.206	2.034	20.7	19.7
244546	2002 <i>UD</i> ₇₈		8 26.9 330°56'	3.5/23.8	18		489560	2007 <i>TG</i> ₁₁		8 26.9 294°04'	7.7/20.8	18	
7 20	22 46.42	-16 28.4	1.794	2.654	14.2	20.5	7 20	22 54.64	-28 41.2	1.833	2.687	14.3	21.4
7 30	22 42.78	-17 20.9	1.721	2.650	11.0	20.3	7 30	22 49.59	-29 32.8	1.742	2.659	11.7	21.1
8 9	22 36.92	-18 20.1	1.670	2.647	7.3	20.1	8 9	22 41.77	-30 21.5	1.673	2.630	9.2	20.9
8 19	22 29.38	-19 19.9	1.643	2.644	4.1	19.9	8 19	22 31.70	-30 59.0	1.628	2.601	7.7	20.8
8 29	22 21.01	-20 13.1	1.643	2.641	4.2	19.9	8 29	22 20.39	-31 16.9	1.608	2.572	8.5	20.8
9 8	22 12.87	-20 53.3	1.670	2.639	7.5	20.1	9 8	22 9.17	-31 9.6	1.613	2.543	11.0	20.9
9 18	22 5.93	-21 16.8	1.721	2.636	11.2	20.3	9 18	21 59.35	-30 35.7	1.642	2.514	14.2	21.0
9 28	22 1.02	-21 21.9	1.794	2.634	14.4	20.5	9 28	21 51.99	-29 37.4	1.692	2.484	17.2	21.1
388956	2008 <i>TC</i> ₇₂		8 26.9 246°96'	0.6/27.5	18		198277	2004 <i>TD</i> ₂₇₆		8 26.9 269°41'	2.4/28.9	18	
7 20	22 46.43	- 5 6.3	2.064	2.885	14.1	22.0	7 20	22 46.88	- 1 15.7	1.980	2.788	15.1	21.1
7 30	22 42.57	- 5 38.0	1.967	2.871	11.1	21.8	7 30	22 43.11	- 1 25.4	1.873	2.765	12.2	20.9
8 9	22 36.72	- 6 24.1	1.891	2.857	7.6	21.5	8 9	22 37.22	- 1 51.7	1.787	2.742	8.8	20.6
8 19	22 29.30	- 7 21.8	1.841	2.842	3.6	21.2	8 19	22 29.60	- 2 33.3	1.725	2.719	5.0	20.4
8 29	22 21.02	- 8 26.3	1.818	2.827	0.9	21.0	8 29	22 20.96	- 3 27.2	1.689	2.695	2.4	20.2
9 8	22 12.77	- 9 31.5	1.824	2.812	4.9	21.3	9 8	22 12.25	- 4 27.8	1.682	2.671	5.1	20.3
9 18	22 5.43	-10 31.7	1.856	2.796	8.9	21.5	9 18	22 4.43	- 5 29.0	1.700	2.647	9.1	20.5
9 28	21 59.80	-11 21.8	1.913	2.780	12.5	21.7	9 28	21 58.39	- 6 24.8	1.744	2.622	13.0	20.7
341035	2007 <i>GY</i> ₃₃		8 26.9 55°72'	3.1/29.3	17		510946	2013 <i>EB</i> ₁₂₆		8 26.9 81°83'	2.4/29.9	18	
7 20	22 49.39	- 0 46.6	1.447	2.271	18.9	20.1	7 20	22 43.43	+ 1 55.5	2.383	3.171	13.4	21.8
7 30	22 45.11	- 0 44.5	1.397	2.297	15.0	20.0	7 30	22 39.74	+ 1 21.6	2.313	3.191	10.8	21.6
8 9	22 38.40	- 1 2.4	1.365	2.324	10.7	19.8	8 9	22 34.51	+ 0 31.8	2.264	3.210	7.8	21.5
8 19	22 29.97	- 1 37.8	1.356	2.350	6.1	19.6	8 19	22 28.18	- 0 31.6	2.241	3.229	4.6	21.3
8 29	22 20.89	- 2 26.0	1.372	2.377	3.1	19.5	8 29	22 21.39	- 1 44.7	2.245	3.248	2.5	21.2
9 8	22 12.36	- 3 19.7	1.413	2.404	5.7	19.7	9 8	22 14.81	- 3 2.0	2.278	3.267	4.0	21.3
9 18	22 5.41	- 4 12.0	1.480	2.431	9.8	20.0	9 18	22 9.10	- 4 18.1	2.339	3.286	7.0	21.5
9 28	22 0.78	- 4 57.0	1.570	2.458	13.6	20.3	9 28	22 4.80	- 5 28.0	2.427	3.304	9.8	21.8
245283	2005 <i>CS</i> ₇		8 26.9 306°97'	10.7/3.5	18		210951	2001 <i>UE</i> ₄₅		8 26.9 287°39'	0.3/27.1	17	
7 20	22 48.31	+14 17.6	1.762	2.493	19.4	20.1	7 20	22 47.62	- 6 41.9	1.351	2.204	18.4	21.0
7 30	22 44.58	+15 47.7	1.668	2.479	17.2	19.9	7 30	22 44.71	- 7 3.9	1.257	2.180	14.7	20.7
8 9	22 38.40	+16 56.8	1.591	2.466	14.9	19.7	8 9	22 38.88	- 7 45.0	1.182	2.156	10.0	20.4
8 19	22 30.19	+17 39.6	1.533	2.452	12.5	19.5	8 19	22 30.55	- 8 42.0	1.128	2.132	4.7	20.0
8 29	22 20.76	+17 52.5	1.497	2.439	11.0	19.4	8 29	22 20.69	- 9 48.4	1.099	2.108	1.2	19.7
9 8	22 11.22	+17 35.8	1.485	2.426	10.9	19.4	9 8	22 10.70	-10 55.1	1.094	2.084	7.1	20.0
9 18	22 2.74	+16 53.4	1.496	2.413	12.4	19.4	9 18	22 2.06	-11 53.2	1.113	2.060	12.7	20.3
9 28	21 56.37	+15 53.2	1.528	2.401	14.8	19.5	9 28	21 56.05	-12 35.8	1.152	2.036	17.7	20.5
244820	2003 <i>TA</i> ₄		8 26.9 175°67'	6.8/3.1	18		457800	2009 <i>QT</i> ₆₀		8 26.9 354°04'	6.5/30.8	17	
7 20	22 44.60	+11 43.3	1.978	2.723	17.1	20.6	7 20	22 48.31	+ 2 28.6	1.623	2.426	18.0	19.6
7 30	22 41.18	+11 55.2	1.892	2.723	14.7	20.4	7 30	22 44.49	+ 3 51.0	1.540	2.419	15.1	19.4
8 9	22 35.78	+11 43.4	1.823	2.723	12.0	20.2	8 9	22 38.24	+ 4 58.7	1.477	2.413	11.8	19.2
8 19	22 28.86	+11 6.6	1.775	2.724	9.2	20.0	8 19	22 30.07	+ 5 48.6	1.435	2.409	8.5	19.0
8 29	22 21.16	+10 5.8	1.751	2.724	7.1	19.9	8 29	22 20.86	+ 6 19.5	1.418	2.405	6.6	18.9
9 8	22 13.57	+ 8 45.8	1.754	2.724	7.1	19.9	9 8	22 11.78	+ 6 32.6	1.426	2.403	7.6	18.9
9 18	22 6.98	+ 7 13.6	1.782	2.724	9.1	20.0	9 18	22 3.93	+ 6 31.6	1.458	2.402	10.6	19.1
9 28	22 2.15	+ 5 37.6	1.836	2.724	11.9	20.2	9 28	21 58.28	+ 6 21.8	1.513	2.402	13.9	19.3
164900	1999 <i>VE</i> ₁₈₁		8 26.9 218°99'	15.2/9.5	16		312424	2008 <i>GC</i> ₆₃		8 26.9 116°27'	1.8/25.1	18	
7 20	22 47.99	+24 28.1	1.385	2.076	25.4	20.9	7 20	22 48.00	-14 18.9	2.330	3.169	12.1	21.2
7 30	22 45.05	+25 41.9	1.304	2.071	23.4	20.7	7 30	22 43.33	-14 46.0	2.260	3.178	9.3	21.0
8 9	22 39.11	+26 19.6	1.234	2.066	20.9	20.5	8 9	22 36.94	-15 18.3	2.212	3.186	6.1	20.8
8 19	22 30.62	+26 12.3	1.179	2.060	18.4	20.3	8 19	22 29.29	-15 52.0	2.191	3.194	2.9	20.6
8 29	22 20.64	+25 14.2	1.141	2.053	16.3	20.1	8 29	22 21.11	-16 22.6	2.198	3.202	2.3	20.6
9 8	22 10.65	+23 26.5	1.122	2.047	15.2	20.0	9 8	22 13.17	-16 46.1	2.234	3.210	5.3	20.8
9 18	22 2.16	+20 57.8	1.125	2.039	15.8	20.1	9 18	22 6.21	-17 0.0	2.296	3.218	8.5	21.0
9 28	21 56.46	+18 4.0	1.148	2.031	17.8	20.2	9 28	22 0.85	-17 2.6	2.384	3.225	11.3	21.2
10686	Kaluna		8 26.9 188°24'	11.9/10.5	18		284271	2006 <i>HA</i> ₉₀					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
508085	2015 <i>DU</i> ₉₁		8 26.9 193°53	1.4/25.8	17		390396	2013 <i>XA</i> ₂		8 26.9 234°18	4.5/30.9	18	
7 20	22 50.30	-10 55.0	1.822	2.662	14.9	22.8	7 20	22 47.06	+ 4 5.7	2.026	2.807	15.7	21.5
7 30	22 45.73	-11 32.3	1.742	2.660	11.6	22.5	7 30	22 43.09	+ 4 15.9	1.931	2.798	13.0	21.3
8 9	22 38.88	-12 20.4	1.684	2.659	7.6	22.3	8 9	22 37.09	+ 4 8.0	1.855	2.790	9.9	21.1
8 19	22 30.29	-13 14.6	1.652	2.656	3.4	22.0	8 19	22 29.52	+ 3 41.6	1.803	2.781	6.7	20.9
8 29	22 20.82	-14 8.5	1.646	2.653	2.0	21.9	8 29	22 21.08	+ 2 58.8	1.777	2.772	4.5	20.8
9 8	22 11.55	-14 55.8	1.668	2.650	6.2	22.2	9 8	22 12.69	+ 2 3.8	1.779	2.762	5.6	20.8
9 18	22 3.50	-15 31.6	1.716	2.646	10.3	22.4	9 18	22 5.24	+ 1 2.4	1.807	2.753	8.7	21.0
9 28	21 57.50	-15 53.0	1.788	2.642	13.9	22.7	9 28	21 59.55	+ 0 1.1	1.859	2.742	12.0	21.2
4126	Mashu		8 26.9 246°57	1.0/25.7	18		397661	2008 <i>AB</i> ₁₄		8 26.9 252°95	2.3/29.1	18	
7 20	22 44.47	-11 13.6	2.632	3.464	11.1	17.8	7 20	22 46.14	- 1 43.3	2.093	2.900	14.4	21.6
7 30	22 40.58	-11 48.2	2.539	3.454	8.5	17.6	7 30	22 42.22	- 1 43.9	2.005	2.897	11.5	21.4
8 9	22 35.14	-12 30.3	2.470	3.443	5.6	17.4	8 9	22 36.41	- 1 58.7	1.939	2.893	8.2	21.2
8 19	22 28.52	-13 16.7	2.428	3.432	2.5	17.2	8 19	22 29.17	- 2 26.3	1.896	2.890	4.7	21.0
8 29	22 21.31	-14 3.2	2.414	3.421	1.5	17.1	8 29	22 21.18	- 3 3.7	1.881	2.886	2.3	20.8
9 8	22 14.17	-14 45.6	2.429	3.410	4.6	17.3	9 8	22 13.32	- 3 46.4	1.893	2.883	4.7	21.0
9 18	22 7.76	-15 20.4	2.472	3.399	7.7	17.5	9 18	22 6.41	- 4 29.5	1.933	2.879	8.2	21.2
9 28	22 2.68	-15 45.0	2.540	3.387	10.5	17.6	9 28	22 1.16	- 5 8.3	1.997	2.875	11.5	21.4
74203	1998 <i>RN</i> ₅₆		8 26.9 197°73	2.6/25.0	18		74116	1998 <i>QL</i> ₄₉		8 26.9 20°64	2.4/25.4	18	
7 20	22 55.78	-16 23.1	1.930	2.768	14.3	18.5	7 20	22 46.27	-13 52.1	1.171	2.052	18.8	17.5
7 30	22 49.84	-16 40.2	1.849	2.766	11.1	18.3	7 30	22 43.39	-14 9.5	1.124	2.064	14.4	17.2
8 9	22 41.54	-17 1.6	1.790	2.763	7.4	18.1	8 9	22 37.62	-14 36.5	1.094	2.077	9.5	17.0
8 19	22 31.47	-17 22.6	1.757	2.759	3.7	17.9	8 19	22 29.75	-15 6.6	1.086	2.092	4.4	16.8
8 29	22 20.53	-17 37.8	1.752	2.755	3.1	17.8	8 29	22 21.06	-15 32.5	1.102	2.108	3.2	16.7
9 8	22 9.86	-17 43.0	1.775	2.750	6.6	18.0	9 8	22 12.99	-15 47.5	1.140	2.125	7.8	17.1
9 18	22 0.50	-17 35.9	1.825	2.744	10.4	18.3	9 18	22 6.75	-15 48.1	1.201	2.144	12.5	17.4
9 28	21 53.30	-17 15.7	1.899	2.738	13.8	18.5	9 28	22 3.19	-15 32.9	1.283	2.163	16.5	17.7
71016	1999 <i>XR</i> ₅₅		8 26.9 175°96	5.0/1.0	18		514962	2009 <i>BU</i> ₆₅		8 26.9 279°48	0.3/26.6	18	
7 20	22 47.37	+ 6 51.8	2.312	3.068	14.7	19.9	7 20	22 45.62	- 7 42.7	1.913	2.750	14.4	22.3
7 30	22 42.98	+ 7 7.3	2.223	3.070	12.3	19.7	7 30	22 42.19	- 8 19.5	1.815	2.730	11.3	22.1
8 9	22 36.81	+ 7 5.4	2.154	3.071	9.6	19.5	8 9	22 36.63	- 9 10.3	1.738	2.710	7.6	21.8
8 19	22 29.30	+ 6 45.8	2.108	3.072	6.9	19.4	8 19	22 29.36	-10 11.5	1.686	2.690	3.4	21.5
8 29	22 21.11	+ 6 9.8	2.088	3.073	5.1	19.3	8 29	22 21.12	-11 17.6	1.661	2.670	1.1	21.3
9 8	22 13.03	+ 5 21.0	2.096	3.073	5.6	19.3	9 8	22 12.87	-12 21.8	1.663	2.649	5.6	21.6
9 18	22 5.82	+ 4 24.2	2.132	3.072	7.9	19.4	9 18	22 5.57	-13 18.0	1.691	2.629	9.8	21.8
9 28	22 0.17	+ 3 25.2	2.194	3.072	10.7	19.6	9 28	22 0.11	-14 1.2	1.743	2.608	13.6	22.0
39452	4027 <i>T</i> ₋₃		8 26.9 339°09	0.2/26.9	18		268284	2005 <i>QM</i> ₃₁		8 26.9 344°62	9.0/1.4	18	
7 20	22 37.78	- 5 25.7	0.990	1.876	21.1	19.1	7 20	22 43.19	+ 6 5.6	1.178	2.001	22.4	18.9
7 30	22 37.57	- 6 2.7	0.919	1.861	16.7	18.8	7 30	22 41.40	+ 7 22.9	1.102	1.989	19.2	18.7
8 9	22 34.32	- 7 6.8	0.864	1.847	11.4	18.4	8 9	22 36.69	+ 8 16.0	1.041	1.979	15.4	18.4
8 19	22 28.52	- 8 33.7	0.828	1.834	5.2	18.0	8 19	22 29.56	+ 8 39.9	0.999	1.970	11.7	18.2
8 29	22 21.29	-10 13.2	0.813	1.823	1.3	17.7	8 29	22 21.05	+ 8 32.7	0.977	1.962	9.2	18.0
9 8	22 14.20	-11 51.5	0.820	1.813	7.9	18.1	9 8	22 12.62	+ 7 57.8	0.976	1.956	9.8	18.0
9 18	22 8.81	-13 15.6	0.847	1.805	14.0	18.4	9 18	22 5.72	+ 7 2.9	0.996	1.951	12.9	18.2
9 28	22 6.37	-14 15.9	0.892	1.799	19.4	18.7	9 28	22 1.56	+ 5 58.7	1.036	1.947	16.9	18.4
183041	2002 <i>QW</i> ₅₀		8 26.9 287°79	0.1/26.9	18		357881	2005 <i>UC</i> ₄₄₀		8 26.9 159°38	1.5/25.6	18	
7 20	22 46.29	- 6 52.4	1.491	2.340	17.2	21.0	7 20	22 48.66	-13 29.0	2.267	3.104	12.5	20.6
7 30	22 43.21	- 7 24.9	1.407	2.328	13.5	20.8	7 30	22 43.96	-13 45.7	2.188	3.105	9.6	20.4
8 9	22 37.56	- 8 14.8	1.342	2.316	9.1	20.5	8 9	22 37.44	-14 8.1	2.133	3.106	6.3	20.2
8 19	22 29.83	- 9 18.2	1.299	2.304	4.2	20.2	8 19	22 29.58	-14 32.7	2.104	3.107	2.9	20.0
8 29	22 20.95	-10 28.3	1.282	2.292	1.1	19.9	8 29	22 21.10	-14 55.2	2.102	3.108	1.9	19.9
9 8	22 12.16	-11 36.6	1.291	2.280	6.4	20.2	9 8	22 12.83	-15 12.0	2.129	3.109	5.2	20.1
9 18	22 4.67	-12 35.2	1.324	2.268	11.4	20.5	9 18	22 5.56	-15 20.2	2.184	3.110	8.6	20.3
9 28	21 59.51	-13 18.4	1.379	2.256	15.8	20.7	9 28	21 59.93	-15 18.3	2.263	3.111	11.5	20.5
494298	2016 <i>RJ</i> ₃₆		8 26.9 352°20	1.3/26.3	16		512897	2016 <i>WU</i> ₃₈		8 26.9 47°80	0.6/27.5	18	
7 20	22 39.03	-13 35.9	0.905	1.811	20.7	19.7	7 20	22 45.62	- 6 7.6	1.920	2.752	14.6	20.7
7 30	22 38.80	-13 8.8	0.840	1.794	16.2	19.4	7 30	22 41.88	- 6 25.7	1.848	2.759	11.4	20.5
8 9	22 35.22	-12 50.2	0.792	1.780	10.9	19.0	8 9	22 36.18	- 6 56.4	1.798	2.766	7.7	20.3
8 19	22 28.93	-12 36.2	0.762	1.769	4.9	18.7	8 19	22 29.04	- 7 36.8	1.772	2.774	3.7	20.1
8 29	22 21.21	-12 21.5	0.751	1.760	2.2	18.5	8 29	22 21.24	- 8 22.1	1.772	2.782	0.9	19.9
9 8	22 13.82	-12 0.3	0.761	1.755	8.3	18.8	9 8	22 13.68	- 9 7.0	1.800	2.790	4.9	20.2
9 18	22 8.38	-11 29.0	0.791	1.753	14.2	19.1	9 18	22 7.21	- 9 46.7	1.854	2.798	8.7	20.5
9 28	22 6.11	-10 45.7	0.837	1.753	19.3	19.4	9 28	22 2.53	-10 17.2	1.933	2.806	12.1	20.7
47884	2000 <i>FN</i> ₄₀		8 26.9 290°90	0.3/26.6	18		371423	2006 <i>SX</i> ₁₀₅		8 26.9 303°59	1.6/28.1	17	
7 20	22 43.59	- 6 48.2	1.875	2.714	14.6	19.0	7 20	22 45.07	- 3 25.8	1.403	2.247	18.3	21.0
7 30	22 40.61	- 7 37.9	1.782	2.699	11.4	18.7	7 30	22 42.42	- 3 46.1	1.319	2.235	14.7	20.8
8 9	22 35.55	- 8 43.4	1.710	2.683	7.7	18.5	8 9	22 37.12	- 4 27.3	1.254	2.223	10.2	20.5
8 19	22 28.85	-10 0.7	1.663	2.668	3.4	18.2	8 19	22 29.67	- 5 27.0	1.210	2.211	5.2	20.2
8 29	22 21.24	-11 23.5	1.643	2.652	1.2	18.0	8 29	22 21.04	- 6 39.2	1.191	2.200	1.6	19.9
9 8	22 13.66	-12 44.2	1.650	2.637	5.6	18.2	9 8	22 12.48	- 7 55.0	1.197	2.189	6.2	20.2
9 18	22 7.05	-13 55.7	1.683	2.621	9.8	18.5	9 18	22 5.27	- 9 5.7	1.227	2.178	11.4	20.4
9 28	22 2.26	-14 52.8	1.740	2.606	13.6	18.7	9 28	22 0.46	-10 3.6	1.278	2.168	15.9	20.7
521371	2015 <i>MU</i> ₁₄₀		8 26.9 334°76	0.2/26.7	18		65841	1997 <i>AD</i> ₉		8 26.9 357°23	1.7/28.2		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
175175	2005 <i>EP</i> ₁₄₂		8 26.9	20°41'	4.5°/23.8	18	514456	2016 <i>UB</i> ₈₉		8 26.9	160°99'	1.7°/28.7	18 R
7 20	22 48.19	-16 27.5	1.247	2.126	18.1	19.8	7 20	22 45.85	-2 14.8	2.285	3.090	13.4	21.9
7 30	22 44.98	-17 23.1	1.189	2.128	13.9	19.5	7 30	22 41.80	-2 32.3	2.202	3.093	10.7	21.7
8 9	22 38.81	-18 27.6	1.150	2.132	9.3	19.3	8 9	22 36.03	-3 3.4	2.140	3.097	7.5	21.5
8 19	22 30.37	-19 32.2	1.133	2.135	5.2	19.1	8 19	22 28.99	-3 45.9	2.104	3.099	4.1	21.3
8 29	22 20.90	-20 26.9	1.140	2.140	5.3	19.1	8 29	22 21.32	-4 36.3	2.095	3.102	1.7	21.2
9 8	22 11.88	-21 3.3	1.171	2.145	9.4	19.3	9 8	22 13.80	-5 29.9	2.114	3.104	4.2	21.4
9 18	22 4.65	-21 17.3	1.224	2.150	13.8	19.6	9 18	22 7.17	-6 21.9	2.162	3.106	7.6	21.6
9 28	22 0.19	-21 8.3	1.297	2.156	17.7	19.9	9 28	22 2.07	-7 7.8	2.235	3.108	10.7	21.8
94071	2000 <i>YM</i> ₃₇		8 26.9	85°14'	4.0°/22.3	18	48415	Dehio		8 26.9	327°84'	0°1°/26.9	18
7 20	22 44.55	-18 47.1	2.215	3.072	12.0	19.0	7 20	22 49.18	-11 24.6	1.172	2.043	19.4	17.8
7 30	22 40.95	-20 2.1	2.147	3.074	9.2	18.8	7 30	22 46.29	-10 56.0	1.088	2.022	15.4	17.5
8 9	22 35.52	-21 21.6	2.101	3.076	6.3	18.6	8 9	22 40.13	-10 36.2	1.022	2.001	10.5	17.1
8 19	22 28.75	-22 39.4	2.083	3.078	4.2	18.5	8 19	22 31.21	-10 22.6	0.977	1.982	4.8	16.7
8 29	22 21.33	-23 48.6	2.092	3.080	4.7	18.6	8 29	22 20.69	-10 11.0	0.954	1.963	1.3	16.4
9 8	22 14.09	-24 43.8	2.128	3.082	7.3	18.7	9 8	22 10.22	-9 56.4	0.954	1.946	7.5	16.8
9 18	22 7.81	-25 21.6	2.190	3.083	10.2	18.9	9 18	22 1.44	-9 35.2	0.977	1.930	13.3	17.1
9 28	22 3.17	-25 40.7	2.275	3.085	12.8	19.1	9 28	21 55.69	-9 4.8	1.019	1.915	18.5	17.3
342750	2008 <i>WN</i> ₆₇		8 26.9	289°11'	1.6°/25.5	18	295410	2008 <i>JE</i> ₂₆		8 26.9	73°17'	4.7°/1.1	18
7 20	22 46.37	-11 17.8	1.734	2.585	15.1	20.8	7 20	22 44.38	+ 6 31.9	2.256	3.021	14.7	20.4
7 30	22 42.93	-11 57.5	1.648	2.573	11.7	20.5	7 30	22 40.66	+ 6 39.7	2.178	3.032	12.3	20.2
8 9	22 37.19	-12 49.0	1.583	2.560	7.7	20.3	8 9	22 35.26	+ 6 29.6	2.120	3.043	9.5	20.1
8 19	22 29.63	-13 47.4	1.543	2.548	3.5	20.0	8 19	22 28.63	+ 6 1.7	2.086	3.054	6.7	19.9
8 29	22 21.09	-14 46.0	1.529	2.535	2.3	19.9	8 29	22 21.42	+ 5 18.1	2.078	3.065	4.8	19.8
9 8	22 12.65	-15 37.8	1.541	2.523	6.5	20.1	9 8	22 14.39	+ 4 22.9	2.096	3.076	5.3	19.9
9 18	22 5.36	-16 17.2	1.578	2.510	10.8	20.4	9 18	22 8.27	+ 3 21.3	2.142	3.087	7.7	20.0
9 28	22 0.13	-16 40.7	1.638	2.498	14.6	20.6	9 28	22 3.65	+ 2 19.0	2.214	3.098	10.3	20.2
161792	2006 <i>UO</i> ₂₇₄		8 26.9	37°48'	2°3°/25.4	17	353336	2010 <i>PG</i> ₂₆		8 26.9	285°02'	1°3°/29.1	16
7 20	22 48.50	-12 17.4	1.279	2.148	18.3	20.6	7 20	22 39.01	-2 25.1	4.319	5.107	7.8	21.6
7 30	22 45.06	-12 55.0	1.220	2.154	14.1	20.4	7 30	22 35.77	-2 29.7	4.220	5.101	6.2	21.4
8 9	22 38.77	-13 44.9	1.181	2.162	9.3	20.2	8 9	22 31.66	-2 41.2	4.144	5.094	4.4	21.3
8 19	22 30.33	-14 40.3	1.164	2.169	4.2	19.9	8 19	22 26.92	-2 58.4	4.096	5.088	2.5	21.2
8 29	22 20.94	-15 32.7	1.171	2.177	3.1	19.8	8 29	22 21.88	-3 19.9	4.076	5.081	1.3	21.1
9 8	22 12.00	-16 14.0	1.202	2.186	7.8	20.2	9 8	22 16.88	-3 44.0	4.086	5.074	2.5	21.2
9 18	22 4.79	-16 38.8	1.257	2.195	12.5	20.4	9 18	22 12.28	-4 8.5	4.126	5.068	4.4	21.3
9 28	22 0.24	-16 45.0	1.332	2.204	16.6	20.7	9 28	22 8.41	-4 31.5	4.193	5.061	6.2	21.4
449770	2014 <i>OE</i> ₈₈		8 26.9	4°46'	1°0°/25.8	18	467477	2006 <i>SJ</i> ₂₈		8 26.9	53°16'	1°8°/27.9	17
7 20	22 42.41	-9 2.3	2.094	2.936	13.2	20.8	7 20	22 55.34	-6 53.7	1.193	2.042	20.6	21.0
7 30	22 39.34	-9 56.2	2.016	2.936	10.2	20.6	7 30	22 50.25	-6 22.8	1.144	2.062	16.2	20.7
8 9	22 34.49	-11 1.8	1.961	2.936	6.7	20.4	8 9	22 42.11	-6 6.8	1.112	2.082	11.1	20.5
8 19	22 28.31	-12 14.5	1.932	2.936	2.9	20.2	8 19	22 31.78	-6 3.6	1.102	2.103	5.5	20.3
8 29	22 21.46	-13 28.5	1.930	2.937	1.6	20.1	8 29	22 20.63	-6 9.1	1.116	2.124	1.9	20.1
9 8	22 14.77	-14 37.3	1.955	2.938	5.3	20.3	9 8	22 10.21	-6 17.7	1.154	2.146	6.5	20.5
9 18	22 9.01	-15 35.8	2.008	2.940	8.9	20.6	9 18	22 1.85	-6 24.6	1.217	2.167	11.5	20.8
9 28	22 4.85	-16 20.3	2.084	2.941	12.0	20.8	9 28	21 56.41	-6 25.6	1.300	2.189	15.8	21.1
214008	2004 <i>CJ</i> ₃₆		8 26.9	218°59'	3°7°/22.8	18	424338	2007 <i>UG</i> ₁₁₆		8 26.9	323°98'	1°5°/25.9	17
7 20	22 47.86	-19 7.6	2.372	3.219	11.7	20.9	7 20	22 43.47	-9 56.7	1.115	1.996	19.6	20.8
7 30	22 43.44	-20 6.1	2.290	3.211	9.0	20.7	7 30	22 41.87	-10 28.8	1.038	1.978	15.4	20.5
8 9	22 37.17	-21 8.5	2.232	3.204	6.2	20.6	8 9	22 37.17	-11 19.4	0.978	1.961	10.3	20.2
8 19	22 29.51	-22 9.2	2.200	3.195	4.0	20.4	8 19	22 29.86	-12 23.2	0.938	1.945	4.6	19.8
8 29	22 21.15	-23 2.6	2.197	3.186	4.4	20.4	8 29	22 21.06	-13 30.8	0.921	1.929	2.5	19.6
9 8	22 12.90	-23 43.5	2.221	3.177	6.9	20.6	9 8	22 12.34	-14 31.5	0.927	1.915	8.3	19.9
9 18	22 5.57	-24 9.0	2.272	3.167	9.8	20.7	9 18	22 5.28	-15 16.2	0.953	1.902	14.1	20.2
9 28	21 59.85	-24 17.8	2.347	3.157	12.4	20.9	9 28	22 1.15	-15 39.2	0.998	1.890	19.2	20.5
271012	2002 <i>YR</i> ₁₇		8 26.9	311°61'	5°4°/22.8	18	373433	1999 <i>TF</i> ₈₄		8 26.9	24°75'	4°2°/24.9	17
7 20	22 45.72	-17 53.1	1.318	2.199	17.1	20.1	7 20	22 50.69	-17 44.0	0.945	1.839	21.1	19.8
7 30	22 43.36	-18 59.5	1.235	2.176	13.4	19.8	7 30	22 47.39	-17 53.3	0.905	1.851	16.3	19.6
8 9	22 38.02	-20 16.6	1.172	2.153	9.2	19.5	8 9	22 40.54	-18 7.8	0.881	1.865	10.9	19.4
8 19	22 30.20	-21 35.6	1.131	2.131	5.8	19.3	8 19	22 31.13	-18 19.8	0.877	1.881	5.7	19.1
8 29	22 20.93	-22 45.2	1.114	2.109	6.5	19.2	8 29	22 20.81	-18 20.9	0.894	1.898	4.9	19.2
9 8	22 11.69	-23 35.1	1.120	2.087	10.5	19.4	9 8	22 11.42	-18 6.0	0.934	1.916	9.5	19.5
9 18	22 3.95	-23 59.1	1.147	2.067	15.2	19.6	9 18	22 4.42	-17 33.8	0.994	1.936	14.5	19.8
9 28	21 58.95	-23 55.3	1.194	2.047	19.4	19.8	9 28	22 0.71	-16 45.5	1.072	1.957	18.7	20.2
513774	2012 <i>YD</i> ₁₀		8 26.9	294°03'	1°2°/25.9	18	478675	2012 <i>TQ</i> ₂₉₂		8 26.9	359°71'	4°8°/30.4	18
7 20	22 47.65	-11 40.9	1.886	2.731	14.3	21.4	7 20	22 44.97	+ 1 14.0	1.417	2.243	19.1	20.7
7 30	22 43.65	-12 3.3	1.804	2.724	11.1	21.1	7 30	22 42.17	+ 1 44.1	1.343	2.241	15.7	20.5
8 9	22 37.51	-12 34.6	1.743	2.718	7.3	20.9	8 9	22 36.84	+ 1 53.6	1.287	2.240	11.7	20.2
8 19	22 29.73	-13 10.9	1.706	2.711	3.3	20.6	8 19	22 29.52	+ 1 41.9	1.252	2.239	7.6	20.0
8 29	22 21.11	-13 46.9	1.697	2.704	1.9	20.5	8 29	22 21.19	+ 1 11.5	1.239	2.239	4.9	19.8
9 8	22 12.66	-14 17.4	1.715	2.698	5.8	20.8	9 8	22 13.07	+ 0 27.9	1.251	2.241	6.6	19.9
9 18	22 5.33	-14 38.3	1.758	2.692	9.8	21.0	9 18	22 6.33	-0 21.7	1.287	2.243	10.5	20.2
9 28	21 59.91	-14 46.9	1.825	2.685	13.3	21.2	9 28	22 1.91	-1 9.7	1.345	2.245	14.6	20.4
217508	2006 <i>TE</i> ₁₀₃		8 26.9	119°97'	1°0°/27.7	18 R	178535	1999 <i>UA</i>		8 26.9	336°37'	5°5°/30	

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
515226	2012 <i>BY</i> ₇₄		8 26.9 209°06	3°8/21.9	18		256996	2008 <i>ED</i> ₁₄₈		8 26.9 39°85	2°9/24.8	18	
7 20	22 47.06	-22 21.7	2.967	3.809	9.7	22.8	7 20	22 50.78	-17 30.9	1.917	2.767	13.9	20.2
7 30	22 42.46	-23 15.4	2.885	3.802	7.5	22.6	7 30	22 45.87	-17 44.9	1.851	2.775	10.7	20.0
8 9	22 36.34	-24 9.9	2.829	3.795	5.4	22.5	8 9	22 38.83	-18 2.0	1.808	2.783	7.1	19.8
8 19	22 29.11	-25 0.8	2.799	3.787	3.9	22.4	8 19	22 30.28	-18 17.6	1.790	2.792	3.7	19.6
8 29	22 21.32	-25 43.7	2.799	3.778	4.4	22.4	8 29	22 21.09	-18 26.8	1.800	2.801	3.4	19.6
9 8	22 13.64	-26 14.9	2.827	3.769	6.3	22.5	9 8	22 12.28	-18 26.0	1.836	2.810	6.5	19.9
9 18	22 6.69	-26 32.3	2.882	3.760	8.5	22.7	9 18	22 4.75	-18 13.5	1.898	2.820	10.0	20.1
9 28	22 1.06	-26 35.2	2.961	3.750	10.7	22.8	9 28	21 59.22	-17 48.8	1.984	2.829	13.1	20.3
306889	2001 <i>TF</i> ₉₇		8 26.9 303°18	3°1/29.1	18		427601	2003 <i>SC</i> ₂₀₈		8 26.9 299°06	1°8/25.8	18	
7 20	22 45.71	-1 29.3	1.513	2.343	17.9	20.1	7 20	22 48.72	-11 40.9	1.356	2.219	17.8	21.6
7 30	22 42.85	-1 22.4	1.418	2.323	14.6	19.8	7 30	22 45.71	-12 4.5	1.259	2.190	14.0	21.3
8 9	22 37.43	-1 34.5	1.342	2.303	10.6	19.5	8 9	22 39.68	-12 41.9	1.182	2.161	9.4	21.0
8 19	22 29.88	-2 5.1	1.288	2.283	6.1	19.2	8 19	22 31.05	-13 28.3	1.127	2.133	4.3	20.6
8 29	22 21.09	-2 51.1	1.258	2.264	3.1	19.0	8 29	22 20.81	-14 16.2	1.096	2.104	2.6	20.4
9 8	22 12.24	-3 46.2	1.253	2.244	6.1	19.1	9 8	22 10.39	-14 57.1	1.090	2.075	8.0	20.6
9 18	22 4.59	-4 43.1	1.272	2.225	10.8	19.3	9 18	22 1.32	-15 24.0	1.106	2.047	13.5	20.9
9 28	21 59.21	-5 34.1	1.314	2.207	15.3	19.6	9 28	21 54.97	-15 32.4	1.143	2.019	18.4	21.1
312741	2010 <i>TD</i> ₂₉		8 26.9 254°55	0°5/27.4	16		442396	2011 <i>UK</i> ₄₄		8 26.9 289°63	3°6/30.2	16	
7 20	22 45.70	-6 38.7	2.341	3.162	12.6	22.2	7 20	22 44.54	+1 54.3	1.991	2.789	15.3	21.3
7 30	22 41.75	-6 55.8	2.247	3.152	9.9	22.0	7 30	22 41.31	+1 53.1	1.886	2.768	12.6	21.0
8 9	22 36.06	-7 23.6	2.176	3.143	6.7	21.8	8 9	22 36.06	+1 34.0	1.801	2.747	9.4	20.8
8 19	22 29.05	-7 59.4	2.131	3.132	3.2	21.5	8 19	22 29.17	+0 57.1	1.739	2.726	6.0	20.5
8 29	22 21.34	-8 39.7	2.113	3.122	0.8	21.3	8 29	22 21.35	+0 4.8	1.704	2.704	3.6	20.4
9 8	22 13.71	-9 20.1	2.124	3.112	4.4	21.6	9 8	22 13.47	-0 57.8	1.695	2.683	5.2	20.4
9 18	22 6.91	-9 56.4	2.162	3.101	7.9	21.8	9 18	22 6.46	-2 4.8	1.712	2.662	8.8	20.6
9 28	22 1.61	-10 25.2	2.225	3.091	11.1	22.0	9 28	22 1.16	-3 9.3	1.754	2.640	12.5	20.8
445020	2008 <i>KB</i> ₃₀		8 26.9 74°13	1°5/28.7	18		401275	2012 <i>CO</i> ₂₅		8 26.9 222°95	1°4/28.5	18	
7 20	22 43.35	-0 46.9	2.230	3.036	13.7	20.7	7 20	22 44.25	-2 58.9	2.550	3.355	12.2	21.9
7 30	22 39.83	-1 36.8	2.162	3.054	10.8	20.6	7 30	22 40.46	-3 18.2	2.457	3.350	9.7	21.7
8 9	22 34.69	-2 42.5	2.115	3.072	7.5	20.4	8 9	22 35.12	-3 49.6	2.387	3.345	6.8	21.5
8 19	22 28.37	-4 0.8	2.094	3.091	4.0	20.2	8 19	22 28.62	-4 31.1	2.342	3.339	3.6	21.3
8 29	22 21.55	-5 26.4	2.101	3.109	1.5	20.1	8 29	22 21.52	-5 19.5	2.326	3.333	1.4	21.1
9 8	22 14.95	-6 53.0	2.137	3.127	4.1	20.3	9 8	22 14.50	-6 10.5	2.338	3.327	3.9	21.3
9 18	22 9.27	-8 14.7	2.201	3.145	7.5	20.5	9 18	22 8.23	-6 59.9	2.378	3.321	7.1	21.5
9 28	22 5.07	-9 26.5	2.291	3.163	10.5	20.8	9 28	22 3.29	-7 43.7	2.445	3.315	10.0	21.7
323610	2004 <i>TR</i> ₃₅₆		8 26.9 267°03	7°6/17.6	18		328217	2008 <i>EQ</i> ₁₃₁		8 26.9 51°30	2°3/25.2	17	
7 20	22 49.07	-33 8.2	2.435	3.281	11.4	20.8	7 20	22 48.40	-11 38.7	1.279	2.146	18.4	20.5
7 30	22 44.59	-34 24.5	2.364	3.267	9.6	20.7	7 30	22 44.83	-12 30.6	1.231	2.164	14.1	20.3
8 9	22 38.06	-35 35.7	2.316	3.253	8.1	20.6	8 9	22 38.52	-13 35.3	1.203	2.183	9.2	20.1
8 19	22 29.98	-36 34.9	2.294	3.238	7.6	20.5	8 19	22 30.22	-14 45.0	1.197	2.202	4.2	19.9
8 29	22 21.11	-37 15.7	2.297	3.224	8.4	20.5	8 29	22 21.13	-15 50.5	1.215	2.221	3.1	19.9
9 8	22 12.40	-37 34.1	2.326	3.209	10.2	20.6	9 8	22 12.62	-16 43.4	1.259	2.241	7.6	20.2
9 18	22 4.75	-37 29.0	2.377	3.195	12.2	20.7	9 18	22 5.86	-17 18.4	1.325	2.261	12.2	20.5
9 28	21 58.92	-37 1.7	2.449	3.180	14.1	20.9	9 28	22 1.67	-17 33.4	1.413	2.281	16.0	20.8
180373	2003 <i>YJ</i> ₁₂₅		8 26.9 281°56	0°9/26.4	18		521786	2015 <i>SF</i> ₂₈		8 26.9 15°98	4°0/22.7	18	
7 20	22 51.58	-11 8.0	1.470	2.322	17.2	20.1	7 20	22 43.95	-18 2.5	2.001	2.863	12.9	20.9
7 30	22 47.42	-11 14.8	1.386	2.310	13.5	19.8	7 30	22 40.68	-19 10.9	1.935	2.865	9.9	20.8
8 9	22 40.45	-11 32.4	1.323	2.298	9.1	19.5	8 9	22 35.47	-20 24.4	1.891	2.867	6.7	20.6
8 19	22 31.22	-11 56.8	1.282	2.287	4.1	19.2	8 19	22 28.81	-21 36.7	1.873	2.870	4.3	20.4
8 29	22 20.78	-12 22.2	1.266	2.275	1.7	19.0	8 29	22 21.48	-22 40.6	1.882	2.874	4.7	20.5
9 8	22 10.48	-12 42.5	1.276	2.263	6.8	19.3	9 8	22 14.36	-23 30.4	1.917	2.877	7.5	20.6
9 18	22 1.64	-12 52.8	1.311	2.252	11.8	19.6	9 18	22 8.31	-24 2.6	1.978	2.881	10.6	20.8
9 28	21 55.35	-12 50.3	1.367	2.240	16.2	19.8	9 28	22 4.01	-24 15.8	2.061	2.885	13.4	21.0
316816	1999 <i>VH</i> ₂₀₆		8 26.9 327°59	4°1/31.3	18		50364	2000 <i>CG</i> ₇₇		8 26.9 1°98	0°6/26.5	18	
7 20	22 43.72	+4 28.4	2.264	3.041	14.3	20.8	7 20	22 47.05	-9 43.3	1.770	2.614	15.1	18.0
7 30	22 40.25	+4 31.4	2.175	3.040	11.9	20.6	7 30	22 43.27	-10 2.8	1.694	2.614	11.7	17.7
8 9	22 35.07	+4 17.4	2.106	3.039	9.0	20.4	8 9	22 37.30	-10 33.2	1.640	2.614	7.8	17.5
8 19	22 28.61	+3 46.8	2.061	3.037	6.1	20.3	8 19	22 29.68	-11 10.7	1.609	2.614	3.4	17.3
8 29	22 21.49	+3 1.7	2.042	3.036	4.2	20.1	8 29	22 21.25	-11 49.9	1.606	2.614	1.3	17.1
9 8	22 14.48	+2 6.3	2.051	3.035	5.0	20.2	9 8	22 13.05	-12 25.3	1.628	2.615	5.7	17.4
9 18	22 8.31	+1 5.6	2.087	3.034	7.7	20.4	9 18	22 6.04	-12 52.2	1.677	2.616	9.8	17.6
9 28	22 3.63	+0 5.4	2.148	3.033	10.6	20.5	9 28	22 1.03	-13 7.4	1.748	2.617	13.4	17.9
402752	2006 <i>YM</i> ₁₂		8 26.9 127°59	3°6/31.4	18		483360	2016 <i>RY</i> ₃₄		8 26.9 334°97	1°4/27.9	18	
7 20	22 47.42	+4 41.9	2.986	3.737	11.8	22.2	7 20	22 44.40	-6 23.9	1.303	2.163	18.6	21.0
7 30	22 42.52	+4 55.0	2.907	3.753	9.7	22.0	7 30	22 42.13	-6 11.8	1.221	2.146	14.8	20.7
8 9	22 36.26	+4 55.5	2.849	3.770	7.4	21.9	8 9	22 37.09	-6 15.3	1.156	2.130	10.3	20.4
8 19	22 29.04	+4 43.8	2.816	3.785	5.1	21.8	8 19	22 29.78	-6 32.6	1.113	2.116	5.2	20.1
8 29	22 21.40	+4 21.2	2.812	3.800	3.7	21.7	8 29	22 21.21	-6 59.4	1.093	2.102	1.6	19.8
9 8	22 13.91	+3 50.3	2.838	3.815	4.2	21.8	9 8	22 12.73	-7 29.3	1.097	2.090	6.5	20.1
9 18	22 7.14	+3 14.5	2.892	3.829	6.2	21.9	9 18	22 5.67	-7 55.8	1.123	2.079	11.7	20.4
9 28	22 1.60	+2 37.4	2.973	3.843	8.4	22.1	9 28	22 1.16	-8 13.1	1.171	2.069	16.4	20.6
163793	2003 <i>QM</i> ₅₁		8 26.9 355°05	2°8/25.5	18		259417	2003 <i>QV</i> ₈₆		8 26.9 305°63	1°4/28.1	17	
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
441379	2008 <i>EJ</i> ₉₂		8 26.9 92°19	5°4/21.6	15		108068	2001 <i>FY</i> ₁₆₆		8 26.9 101°63	3°9/29.9	18	
7 20	22 52.53	-26 38.4	2.392	3.235	11.7	21.4	7 20	22 49.83	+ 0 54.3	1.556	2.367	18.4	20.2
7 30	22 46.76	-27 28.1	2.347	3.260	9.2	21.2	7 30	22 45.66	+ 1 4.8	1.486	2.376	14.9	20.0
8 9	22 39.18	-28 14.3	2.326	3.284	6.9	21.1	8 9	22 39.02	+ 0 55.2	1.434	2.385	10.9	19.8
8 19	22 30.37	-28 51.4	2.331	3.308	5.5	21.1	8 19	22 30.52	+ 0 26.3	1.404	2.393	6.7	19.5
8 29	22 21.14	-29 14.6	2.364	3.331	6.0	21.2	8 29	22 21.13	- 0 18.4	1.400	2.402	3.9	19.4
9 8	22 12.35	-29 21.2	2.425	3.354	7.8	21.3	9 8	22 12.04	- 1 12.6	1.421	2.410	5.9	19.5
9 18	22 4.77	-29 10.6	2.511	3.377	10.0	21.5	9 18	22 4.34	- 2 9.3	1.468	2.418	9.9	19.8
9 28	21 58.97	-28 44.0	2.620	3.399	12.1	21.7	9 28	21 58.91	- 3 1.5	1.538	2.426	13.8	20.1
494732	2005 <i>UV</i> ₁₀₇		8 26.9 330°30	5°6/21.7	17		438937	2010 <i>GL</i> ₁₅₅		8 26.9 133°74	4°1/22.5	18	
7 20	22 46.60	-22 52.5	1.908	2.772	13.4	21.0	7 20	22 48.69	-18 12.4	2.145	2.994	12.6	21.7
7 30	22 42.95	-23 53.2	1.837	2.765	10.5	20.8	7 30	22 44.17	-19 34.8	2.084	3.007	9.7	21.5
8 9	22 37.11	-24 55.3	1.788	2.758	7.6	20.6	8 9	22 37.71	-21 1.8	2.047	3.019	6.6	21.4
8 19	22 29.61	-25 51.9	1.763	2.752	5.7	20.5	8 19	22 29.84	-22 26.5	2.036	3.031	4.3	21.2
8 29	22 21.30	-26 35.7	1.765	2.746	6.3	20.5	8 29	22 21.32	-23 41.7	2.054	3.042	4.8	21.3
9 8	22 13.21	-27 1.5	1.793	2.740	8.9	20.7	9 8	22 13.07	-24 41.7	2.100	3.053	7.4	21.5
9 18	22 6.31	-27 6.6	1.844	2.734	11.9	20.8	9 18	22 5.90	-25 23.2	2.172	3.063	10.3	21.7
9 28	22 1.40	-26 51.2	1.917	2.729	14.7	21.0	9 28	22 0.50	-25 45.0	2.267	3.073	12.9	21.9
299068	2005 <i>CH</i> ₆₀		8 26.9 192°78	1°0/25.9	18		257376	2009 <i>QW</i> ₅₇		8 26.9 200°83	1°0/28.9	17	
7 20	22 45.56	- 8 17.1	2.120	2.952	13.4	21.1	7 20	22 38.05	- 2 43.2	4.653	5.442	7.3	21.1
7 30	22 41.82	- 9 21.8	2.037	2.951	10.3	20.9	7 30	22 35.00	- 2 56.6	4.558	5.441	5.8	21.0
8 9	22 36.21	-10 39.5	1.977	2.950	6.8	20.6	8 9	22 31.17	- 3 16.4	4.488	5.439	4.1	20.9
8 19	22 29.18	-12 5.4	1.943	2.948	3.0	20.4	8 19	22 26.78	- 3 41.5	4.445	5.438	2.3	20.8
8 29	22 21.42	-13 33.0	1.938	2.945	1.6	20.3	8 29	22 22.11	- 4 10.4	4.431	5.437	1.0	20.7
9 8	22 13.78	-14 55.4	1.961	2.943	5.4	20.5	9 8	22 17.51	- 4 41.1	4.447	5.436	2.3	20.8
9 18	22 7.08	-16 6.7	2.012	2.940	9.1	20.8	9 18	22 13.27	- 5 11.8	4.492	5.434	4.1	20.9
9 28	22 2.03	-17 2.7	2.087	2.937	12.3	21.0	9 28	22 9.69	- 5 40.5	4.566	5.433	5.8	21.0
384494	2010 <i>CB</i> ₇₉		8 26.9 200°47	4°0/22.9	18		491078	2011 <i>RP</i> ₁₄		8 26.9 267°79	0°1/26.9	16	
7 20	22 47.82	-17 24.9	1.911	2.767	13.7	20.7	7 20	22 49.61	- 9 4.0	2.087	2.915	13.7	22.4
7 30	22 43.84	-18 36.5	1.838	2.765	10.5	20.5	7 30	22 45.10	- 9 8.7	1.988	2.898	10.8	22.2
8 9	22 37.68	-19 54.6	1.788	2.764	7.1	20.3	8 9	22 38.51	- 9 22.5	1.912	2.881	7.3	21.9
8 19	22 29.87	-21 12.5	1.763	2.761	4.4	20.1	8 19	22 30.30	- 9 42.9	1.861	2.864	3.3	21.7
8 29	22 21.25	-22 22.2	1.766	2.759	4.8	20.1	8 29	22 21.19	-10 6.3	1.837	2.847	0.9	21.4
9 8	22 12.81	-23 17.1	1.795	2.756	7.8	20.3	9 8	22 12.11	-10 28.2	1.842	2.829	5.1	21.7
9 18	22 5.52	-23 53.2	1.850	2.753	11.2	20.5	9 18	22 3.99	-10 44.9	1.873	2.811	9.0	21.9
9 28	22 0.18	-24 9.0	1.927	2.750	14.3	20.7	9 28	21 57.65	-10 53.4	1.929	2.793	12.6	22.1
231522	2008 <i>SD</i> ₄₄		8 26.9 100°83	2°1/28.9	16		394491	2007 <i>TJ</i> ₁₂₉		8 26.9 239°48	2°8/29.8	18	
7 20	22 46.63	- 1 30.6	1.790	2.607	16.1	20.4	7 20	22 46.04	+ 0 48.4	2.251	3.043	14.0	21.6
7 30	22 42.88	- 1 48.4	1.715	2.613	12.9	20.2	7 30	22 42.14	+ 0 40.9	2.152	3.032	11.4	21.4
8 9	22 37.01	- 2 23.8	1.660	2.619	9.1	20.0	8 9	22 36.44	+ 0 17.8	2.075	3.021	8.3	21.2
8 19	22 29.56	- 3 14.4	1.629	2.625	5.0	19.8	8 19	22 29.33	- 0 19.9	2.022	3.010	5.1	20.9
8 29	22 21.34	- 4 15.5	1.624	2.631	2.1	19.6	8 29	22 21.45	- 1 9.4	1.996	2.998	2.9	20.8
9 8	22 13.34	- 5 20.6	1.647	2.637	5.0	19.8	9 8	22 13.60	- 2 6.2	1.998	2.986	4.6	20.9
9 18	22 6.50	- 6 23.2	1.695	2.643	9.0	20.1	9 18	22 6.58	- 3 5.0	2.027	2.974	7.9	21.1
9 28	22 1.58	- 7 17.6	1.768	2.649	12.7	20.3	9 28	22 1.11	- 4 0.6	2.083	2.961	11.2	21.2
205609	2001 <i>UV</i> ₁₅₂		8 26.9 318°79	0°9/27.5	18		191712	2004 <i>RT</i> ₁₉₆		8 26.9 37°63	1°9/28.1	16	
7 20	22 44.71	- 6 9.5	1.128	1.997	20.3	20.0	7 20	22 51.18	- 6 9.4	1.316	2.163	19.2	19.3
7 30	22 42.83	- 6 16.9	1.048	1.979	16.1	19.7	7 30	22 46.93	- 5 44.1	1.260	2.177	15.1	19.1
8 9	22 37.85	- 6 44.8	0.986	1.963	11.1	19.3	8 9	22 39.92	- 5 33.5	1.223	2.193	10.4	18.9
8 19	22 30.25	- 7 30.4	0.943	1.947	5.4	19.0	8 19	22 30.91	- 5 35.8	1.208	2.209	5.3	18.7
8 29	22 21.12	- 8 27.3	0.922	1.932	1.3	18.6	8 29	22 21.07	- 5 46.8	1.218	2.226	1.9	18.5
9 8	22 12.03	- 9 25.9	0.924	1.917	7.3	19.0	9 8	22 11.79	- 6 1.3	1.252	2.244	6.1	18.8
9 18	22 4.56	-10 16.8	0.948	1.904	13.3	19.3	9 18	22 4.23	- 6 14.1	1.310	2.262	10.8	19.1
9 28	22 0.00	-10 52.6	0.991	1.891	18.5	19.5	9 28	21 59.28	- 6 21.1	1.391	2.280	14.9	19.4
66729	1999 <i>TH</i> ₁₁₁		8 26.9 244°70	6°7/ 2.7	18		30014	2000 <i>CY</i> ₈₀		8 26.9 49°71	1°8/28.2	18	
7 20	22 44.92	+10 50.0	1.964	2.714	17.1	19.5	7 20	22 47.47	- 2 43.1	1.070	1.928	21.9	18.1
7 30	22 41.56	+11 3.1	1.872	2.709	14.7	19.3	7 30	22 44.55	- 3 8.8	1.022	1.945	17.3	17.9
8 9	22 36.18	+10 52.9	1.798	2.703	11.9	19.2	8 9	22 38.59	- 3 59.6	0.991	1.963	11.9	17.7
8 19	22 29.23	+10 18.0	1.745	2.698	9.0	19.0	8 19	22 30.37	- 5 10.5	0.980	1.982	6.0	17.4
8 29	22 21.42	+ 9 19.5	1.717	2.693	7.0	18.8	8 29	22 21.22	- 6 32.6	0.992	2.001	1.8	17.2
9 8	22 13.69	+ 8 1.7	1.715	2.687	7.0	18.8	9 8	22 12.68	- 7 54.4	1.027	2.020	6.7	17.6
9 18	22 6.92	+ 6 31.6	1.738	2.681	9.2	19.0	9 18	22 6.08	- 9 6.0	1.085	2.040	12.0	18.0
9 28	22 1.92	+ 4 57.7	1.787	2.676	12.2	19.1	9 28	22 2.34	-10 0.4	1.164	2.060	16.6	18.3
371409	2006 <i>RU</i> ₁₂₁		8 26.9 297°72	0°5/27.3	18		277282	2005 <i>SW</i> ₇₇		8 26.9 263°50	3°4/24.4	18	
7 20	22 46.17	- 6 15.4	1.411	2.262	17.9	21.5	7 20	22 51.09	-16 21.4	1.703	2.558	15.1	21.4
7 30	22 43.49	- 6 36.3	1.317	2.239	14.2	21.2	7 30	22 46.74	-16 58.4	1.619	2.545	11.8	21.2
8 9	22 38.05	- 7 15.9	1.242	2.215	9.8	20.8	8 9	22 39.86	-17 42.3	1.556	2.532	7.9	20.9
8 19	22 30.29	- 8 11.2	1.188	2.192	4.6	20.5	8 19	22 30.98	-18 27.2	1.517	2.519	4.2	20.7
8 29	22 21.13	- 9 16.2	1.159	2.168	1.1	20.2	8 29	22 21.03	-19 6.0	1.505	2.506	4.0	20.6
9 8	22 11.88	-10 22.1	1.155	2.145	6.7	20.5	9 8	22 11.22	-19 32.5	1.519	2.492	7.7	20.8
9 18	22 3.88	-11 20.7	1.174	2.123	12.1	20.7	9 18	22 2.70	-19 42.6	1.558	2.478	11.8	21.1
9 28	21 58.36	-12 4.8	1.215	2.100	16.9	20.9	9 28	21 56.45	-19 35.0	1.619	2.465	15.5	21.3
67453	2000 <i>QB</i> ₁₇₂		8 26.9 313°12	2°4/28.8	18		348761	2006 <i>HT</i> ₁₀₇					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
85798	1998 VA ₅₀		8 26.9 332°16	6°9/11.6	18		112194	2002 JG ₁₁₀		8 26.9 91°52	4°2/30.1	17	
7 20	22 38.90	+28 22.5	4.330	4.883	10.6	19.2	7 20	22 50.97	+ 1 29.7	1.497	2.306	19.0	20.7
7 30	22 35.87	+28 45.3	4.229	4.880	9.8	19.1	7 30	22 46.56	+ 1 40.9	1.433	2.322	15.5	20.5
8 9	22 31.87	+28 53.0	4.144	4.877	8.9	19.0	8 9	22 39.62	+ 1 30.8	1.388	2.337	11.3	20.3
8 19	22 27.14	+28 44.2	4.078	4.875	8.0	19.0	8 19	22 30.81	+ 1 0.3	1.365	2.353	7.0	20.1
8 29	22 22.05	+28 18.4	4.034	4.872	7.3	18.9	8 29	22 21.17	+ 0 13.3	1.366	2.368	4.2	19.9
9 8	22 17.00	+27 36.4	4.013	4.870	6.9	18.9	9 8	22 11.91	- 0 43.7	1.394	2.382	6.1	20.1
9 18	22 12.39	+26 40.4	4.017	4.867	7.0	18.9	9 18	22 4.15	- 1 43.0	1.446	2.397	10.1	20.3
9 28	22 8.61	+25 33.5	4.046	4.865	7.5	18.9	9 28	21 58.75	- 2 37.6	1.522	2.411	13.9	20.6
251230	2006 UO ₂₇₀		8 26.9 8°81	2°7/29.4	18		39058	2000 UM ₁₀₄		8 26.9 50°76	4°0/29.6	18	
7 20	22 44.34	- 0 43.8	1.815	2.631	15.9	20.7	7 20	22 50.05	- 0 42.4	1.254	2.088	20.7	17.8
7 30	22 41.14	- 0 48.9	1.736	2.632	12.8	20.5	7 30	22 46.28	- 0 19.0	1.195	2.100	16.7	17.6
8 9	22 35.90	- 1 11.3	1.677	2.633	9.2	20.2	8 9	22 39.66	- 0 17.3	1.153	2.113	12.1	17.4
8 19	22 29.11	- 1 49.3	1.641	2.635	5.3	20.0	8 19	22 30.89	- 0 36.3	1.132	2.126	7.2	17.1
8 29	22 21.54	- 2 39.3	1.631	2.637	2.7	19.9	8 29	22 21.15	- 1 12.0	1.135	2.139	4.0	17.0
9 8	22 14.15	- 3 35.5	1.648	2.639	5.0	20.0	9 8	22 11.87	- 1 57.5	1.162	2.153	6.6	17.2
9 18	22 7.84	- 4 31.8	1.691	2.641	8.8	20.2	9 18	22 4.33	- 2 45.0	1.212	2.166	11.1	17.5
9 28	22 3.37	- 5 22.2	1.757	2.644	12.4	20.5	9 28	21 59.46	- 3 27.0	1.284	2.181	15.4	17.8
299069	2005 CD ₆₆		8 26.9 132°64	0°7/27.6	18		289449	2005 EF ₄₈		8 26.9 273°46	0°1/26.9	18	
7 20	22 47.32	- 5 23.1	2.106	2.926	13.9	21.5	7 20	22 51.36	- 9 2.1	1.484	2.330	17.4	21.0
7 30	22 43.09	- 5 49.7	2.031	2.934	10.9	21.4	7 30	22 47.35	- 9 8.4	1.395	2.315	13.7	20.7
8 9	22 37.00	- 6 29.0	1.977	2.942	7.4	21.2	8 9	22 40.53	- 9 27.7	1.325	2.299	9.3	20.4
8 19	22 29.54	- 7 17.8	1.949	2.950	3.5	20.9	8 19	22 31.41	- 9 56.7	1.279	2.283	4.3	20.1
8 29	22 21.44	- 8 11.6	1.949	2.958	0.9	20.7	8 29	22 20.98	-10 30.0	1.257	2.267	1.2	19.8
9 8	22 13.56	- 9 5.1	1.976	2.965	4.6	21.0	9 8	22 10.60	-11 0.9	1.262	2.250	6.6	20.2
9 18	22 6.68	- 9 53.2	2.031	2.972	8.3	21.3	9 18	22 1.59	-11 23.8	1.291	2.234	11.7	20.4
9 28	22 1.49	-10 32.2	2.111	2.978	11.5	21.5	9 28	21 55.08	-11 34.6	1.341	2.218	16.2	20.6
24466	2000 SC ₁₅₆		8 26.9 349°08	5°1/ 1.3	18 R		214975	2008 AL ₅₉		8 26.9 260°27	0°1/27.0	18	
7 20	22 40.67	+ 7 5.6	1.795	2.582	17.2	17.7	7 20	22 45.63	- 7 17.0	2.068	2.898	13.7	21.3
7 30	22 38.41	+ 6 56.9	1.708	2.576	14.4	17.5	7 30	22 41.94	- 7 45.6	1.983	2.894	10.7	21.1
8 9	22 34.16	+ 6 23.9	1.640	2.572	11.2	17.3	8 9	22 36.36	- 8 26.3	1.920	2.890	7.2	20.8
8 19	22 28.36	+ 5 26.7	1.594	2.568	7.8	17.1	8 19	22 29.32	- 9 15.7	1.882	2.885	3.3	20.6
8 29	22 21.74	+ 4 8.2	1.572	2.564	5.3	17.0	8 29	22 21.55	-10 9.0	1.871	2.881	0.8	20.4
9 8	22 15.24	+ 2 34.9	1.576	2.562	6.0	17.0	9 8	22 13.90	-11 0.7	1.888	2.876	4.9	20.7
9 18	22 9.74	+ 0 55.1	1.606	2.560	9.0	17.2	9 18	22 7.21	-11 45.9	1.932	2.871	8.7	20.9
9 28	22 6.02	- 0 42.4	1.660	2.558	12.4	17.4	9 28	22 2.20	-12 20.6	2.001	2.867	12.1	21.1
481391	2006 RE ₇₈		8 26.9 312°26	0°6/26.4	16		162218	1999 TW ₅₄		8 26.9 122°43	0°8/27.6	18	
7 20	22 44.81	- 8 50.8	1.830	2.675	14.7	21.7	7 20	22 47.59	- 5 46.9	1.848	2.677	15.2	20.7
7 30	22 41.61	- 9 23.7	1.745	2.665	11.4	21.4	7 30	22 43.61	- 6 4.1	1.771	2.679	11.9	20.5
8 9	22 36.29	-10 9.2	1.681	2.655	7.6	21.2	8 9	22 37.53	- 6 35.0	1.714	2.681	8.1	20.3
8 19	22 29.33	-11 3.5	1.641	2.645	3.4	20.9	8 19	22 29.86	- 7 16.5	1.682	2.684	3.9	20.0
8 29	22 21.50	-12 0.7	1.627	2.636	1.3	20.7	8 29	22 21.41	- 8 3.9	1.677	2.686	1.0	19.8
9 8	22 13.78	-12 54.4	1.640	2.627	5.7	21.0	9 8	22 13.17	- 8 51.4	1.698	2.688	5.1	20.1
9 18	22 7.11	-13 39.1	1.679	2.618	9.8	21.3	9 18	22 6.06	- 9 33.7	1.747	2.690	9.1	20.4
9 28	22 2.32	-14 10.6	1.742	2.610	13.5	21.5	9 28	22 0.85	-10 6.6	1.819	2.692	12.7	20.6
183057	2002 QU ₉₃		8 26.9 293°70	0°6/26.5	17		177353	2003 YJ ₁₆₁		8 26.9 308°37	7°4/21.6	18	
7 20	22 46.18	- 7 56.6	1.456	2.310	17.3	20.7	7 20	22 52.27	-24 16.3	1.430	2.301	16.6	20.0
7 30	22 43.28	- 8 35.2	1.372	2.297	13.6	20.5	7 30	22 48.11	-25 26.6	1.368	2.299	13.1	19.8
8 9	22 37.76	- 9 31.1	1.308	2.284	9.1	20.2	8 9	22 40.96	-26 37.5	1.326	2.296	9.7	19.6
8 19	22 30.11	-10 39.9	1.267	2.272	4.1	19.9	8 19	22 31.52	-27 39.1	1.308	2.294	7.5	19.4
8 29	22 21.28	-11 53.8	1.250	2.259	1.5	19.7	8 29	22 21.00	-28 21.2	1.314	2.292	8.3	19.5
9 8	22 12.54	-13 3.9	1.259	2.247	6.8	20.0	9 8	22 10.89	-28 37.3	1.343	2.290	11.3	19.6
9 18	22 5.11	-14 2.4	1.292	2.235	11.8	20.2	9 18	22 2.54	-28 25.7	1.395	2.288	14.8	19.8
9 28	22 0.06	-14 43.5	1.347	2.223	16.2	20.5	9 28	21 56.96	-27 48.4	1.466	2.286	18.1	20.1
394608	2007 VK ₂₉₃		8 26.9 195°39	4°8/ 1.2	18		342865	2008 YN ₃₂		8 26.9 270°44	1°9/25.3	18	
7 20	22 44.05	+ 7 21.4	2.082	2.850	15.7	20.9	7 20	22 47.93	-12 34.4	1.942	2.787	13.9	21.1
7 30	22 40.71	+ 7 10.6	1.994	2.849	13.2	20.7	7 30	22 44.03	-13 13.9	1.847	2.769	10.8	20.8
8 9	22 35.53	+ 6 38.4	1.924	2.849	10.2	20.5	8 9	22 37.95	-14 3.3	1.775	2.750	7.2	20.6
8 19	22 28.93	+ 5 45.1	1.878	2.848	7.1	20.4	8 19	22 30.13	-14 57.9	1.727	2.731	3.4	20.3
8 29	22 21.61	+ 4 33.4	1.857	2.847	5.0	20.2	8 29	22 21.34	-15 51.6	1.706	2.712	2.6	20.2
9 8	22 14.40	+ 3 8.6	1.863	2.846	5.5	20.3	9 8	22 12.57	-16 38.1	1.713	2.692	6.3	20.4
9 18	22 8.11	+ 1 37.7	1.897	2.845	8.2	20.4	9 18	22 4.80	-17 12.6	1.746	2.673	10.3	20.6
9 28	22 3.45	+ 0 8.2	1.956	2.844	11.3	20.6	9 28	21 58.92	-17 31.9	1.802	2.653	13.9	20.8
296574	2009 QU ₅₅		8 26.9 320°94	0°2/27.1	16		349846	2009 CO ₅₉		8 26.9 187°80	5°5/20.6	18	
7 20	22 43.61	- 7 21.8	1.983	2.820	14.0	21.8	7 20	22 48.31	-24 14.1	2.313	3.165	11.7	20.9
7 30	22 40.54	- 7 42.3	1.891	2.806	11.0	21.6	7 30	22 43.93	-25 34.3	2.244	3.164	9.2	20.8
8 9	22 35.52	- 8 15.0	1.820	2.791	7.4	21.4	8 9	22 37.63	-26 55.0	2.200	3.164	6.9	20.6
8 19	22 28.97	- 8 57.0	1.774	2.777	3.4	21.1	8 19	22 29.88	-28 9.6	2.183	3.162	5.5	20.5
8 29	22 21.61	- 9 43.8	1.754	2.764	0.8	20.9	8 29	22 21.43	-29 11.3	2.192	3.161	6.3	20.6
9 8	22 14.30	-10 29.9	1.762	2.750	5.0	21.1	9 8	22 13.15	-29 55.0	2.229	3.159	8.4	20.7
9 18	22 7.94	-11 10.3	1.795	2.738	9.0	21.4	9 18	22 5.88	-30 18.6	2.291	3.156	10.9	20.9
9 28	22 3.27	-11 40.9	1.852	2.725	12.6	21.6	9 28	22 0.33	-30 21.8	2.375	3.153	13.3	21.0
328092	2007 YC ₆₄		8 26.9 126°14	0°2/27.1	17		508904	2003 WR ₅₈		8 26.9 304°80	9°2/18.6	18	
7 20	22 51.29	- 7											

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8 26.9

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
264040	2009 QZ ₅₉		8 26.9	8°20	1.7°/25.4	18	264037	2009 QO ₅₂		8 26.9	259°87	0°6/26.3	18
7 20	22 43.81	-11 59.2	1.842	2.697	14.2	20.3	7 20	22 43.45	-8 20.2	2.366	3.196	12.2	20.4
7 30	22 40.73	-12 38.7	1.772	2.698	10.9	20.1	7 30	22 40.06	-9 8.6	2.277	3.190	9.5	20.2
8 9	22 35.62	-13 27.8	1.722	2.700	7.1	19.9	8 9	22 35.01	-10 8.0	2.212	3.184	6.3	20.0
8 19	22 29.00	-14 21.5	1.697	2.702	3.3	19.6	8 19	22 28.72	-11 14.7	2.173	3.177	2.8	19.8
8 29	22 21.66	-15 13.9	1.699	2.705	2.3	19.6	8 29	22 21.77	-12 23.7	2.162	3.171	1.2	19.7
9 8	22 14.56	-15 58.8	1.727	2.709	6.0	19.8	9 8	22 14.91	-13 29.5	2.180	3.164	4.7	19.9
9 18	22 8.55	-16 31.9	1.781	2.713	9.8	20.1	9 18	22 8.85	-14 27.2	2.225	3.157	8.1	20.1
9 28	22 4.38	-16 50.5	1.858	2.717	13.1	20.3	9 28	22 4.22	-15 13.2	2.296	3.151	11.1	20.3
148063	1998 UA ₂₀		8 26.9	316°08	1°4/26.0	18	35713	1999 FS ₃₀		8 26.9	203°12	2°9/29.1	18
7 20	22 45.80	-10 38.8	1.320	2.188	17.9	19.8	7 20	22 50.27	-1 28.9	1.521	2.342	18.2	19.1
7 30	22 43.33	-11 4.0	1.236	2.169	14.0	19.5	7 30	22 46.24	-1 24.4	1.441	2.341	14.7	18.9
8 9	22 38.02	-11 43.8	1.170	2.150	9.4	19.2	8 9	22 39.61	-1 38.8	1.381	2.339	10.6	18.6
8 19	22 30.33	-12 33.6	1.126	2.132	4.2	18.9	8 19	22 30.94	-2 10.9	1.343	2.337	6.0	18.4
8 29	22 21.29	-13 25.9	1.106	2.114	2.2	18.7	8 29	22 21.20	-2 56.7	1.329	2.335	2.9	18.2
9 8	22 12.28	-14 12.0	1.109	2.097	7.5	19.0	9 8	22 11.64	-3 49.7	1.342	2.333	5.9	18.3
9 18	22 4.71	-14 44.9	1.136	2.080	12.8	19.2	9 18	22 3.46	-4 42.8	1.380	2.330	10.5	18.6
9 28	21 59.75	-15 0.0	1.183	2.065	17.5	19.5	9 28	21 57.62	-5 29.3	1.441	2.327	14.6	18.8
127380	2002 KR ₅		8 26.9	27°05	0°5/26.5	18	439004	2010 VJ ₂₀₄		8 26.9	358°05	5°2/22.8	18
7 20	22 44.16	-8 51.9	1.931	2.773	14.1	19.7	7 20	22 49.84	-23 10.6	1.890	2.749	13.7	20.3
7 30	22 40.83	-9 21.1	1.862	2.781	10.9	19.6	7 30	22 45.42	-23 46.4	1.822	2.747	10.7	20.1
8 9	22 35.59	-10 1.2	1.815	2.789	7.2	19.3	8 9	22 38.75	-24 21.8	1.776	2.746	7.6	19.9
8 19	22 28.96	-10 48.4	1.793	2.797	3.2	19.1	8 19	22 30.42	-24 50.7	1.755	2.746	5.4	19.8
8 29	22 21.68	-11 37.4	1.797	2.806	1.1	19.0	8 29	22 21.36	-25 7.0	1.760	2.745	5.8	19.8
9 8	22 14.66	-12 22.7	1.829	2.815	5.1	19.3	9 8	22 12.62	-25 6.6	1.791	2.746	8.4	19.9
9 18	22 8.69	-12 59.7	1.886	2.825	8.9	19.5	9 18	22 5.19	-24 48.3	1.847	2.746	11.4	20.1
9 28	22 4.47	-13 25.3	1.967	2.835	12.2	19.8	9 28	21 59.82	-24 12.6	1.925	2.747	14.3	20.3
62690	2000 TS ₂₃		8 26.9	146°02	0°7/27.7	18	420367	2012 BT ₁₀₆		8 26.9	184°60	4°6/23.3	17
7 20	22 45.53	-5 31.5	2.235	3.055	13.2	20.4	7 20	22 49.86	-16 22.4	1.475	2.341	16.5	21.0
7 30	22 41.67	-5 53.3	2.153	3.057	10.3	20.3	7 30	22 46.06	-17 39.7	1.409	2.341	12.7	20.7
8 9	22 36.06	-6 26.8	2.094	3.059	7.0	20.1	8 9	22 39.54	-19 6.7	1.363	2.341	8.6	20.5
8 19	22 29.16	-7 9.5	2.060	3.061	3.4	19.8	8 19	22 30.90	-20 34.4	1.341	2.341	5.1	20.3
8 29	22 21.63	-7 57.2	2.053	3.062	0.9	19.6	8 29	22 21.22	-21 52.7	1.344	2.340	5.4	20.3
9 8	22 14.25	-8 45.2	2.075	3.064	4.4	19.9	9 8	22 11.83	-22 52.6	1.373	2.339	9.2	20.5
9 18	22 7.77	-9 28.9	2.124	3.065	7.9	20.1	9 18	22 3.95	-23 29.1	1.426	2.338	13.2	20.8
9 28	22 2.84	-10 4.6	2.198	3.067	11.0	20.3	9 28	21 58.58	-23 40.9	1.499	2.337	16.9	21.0
335046	2004 RH ₀₈		8 26.9	19°83	6°6/ 2.3	16	280965	2006 CV ₄₉		8 26.9	210°22	3°7/22.6	16
7 20	22 34.95	+ 9 48.2	0.986	1.821	25.0	19.7	7 20	22 45.67	-12 32.3	1.853	2.705	14.2	20.6
7 30	22 35.08	+ 9 19.6	0.939	1.835	20.9	19.5	7 30	22 42.35	-14 39.1	1.776	2.703	10.9	20.4
8 9	22 32.43	+ 8 8.1	0.905	1.852	16.2	19.3	8 9	22 36.85	-17 0.7	1.723	2.700	7.2	20.2
8 19	22 27.68	+ 6 15.5	0.889	1.870	11.1	19.1	8 19	22 29.65	-19 27.9	1.697	2.697	4.1	20.0
8 29	22 22.02	+ 3 50.9	0.894	1.891	7.1	19.0	8 29	22 21.53	-21 49.7	1.700	2.694	4.7	20.0
9 8	22 16.82	+ 1 10.2	0.921	1.914	7.4	19.1	9 8	22 13.49	-23 55.4	1.732	2.691	8.2	20.2
9 18	22 13.28	+ 1 28.4	0.970	1.938	11.4	19.4	9 18	22 6.51	-25 37.6	1.790	2.688	11.8	20.4
9 28	22 12.26	+ 3 49.5	1.041	1.963	15.7	19.7	9 28	22 1.44	-26 52.5	1.870	2.684	15.0	20.6
487296	2014 QM ₄₃		8 26.9	275°78	5°0/31.8	17	78564	2002 RH ₁₇₂		8 26.9	298°62	3°5/23.7	18
7 20	22 46.66	+ 5 39.5	2.383	3.144	14.1	21.2	7 20	22 46.28	-15 55.6	1.825	2.684	14.1	19.5
7 30	22 42.53	+ 6 12.2	2.287	3.138	11.9	21.0	7 30	22 42.79	-16 55.4	1.749	2.678	10.9	19.2
8 9	22 36.67	+ 6 29.9	2.212	3.132	9.3	20.8	8 9	22 37.12	-18 3.2	1.694	2.671	7.3	19.0
8 19	22 29.47	+ 6 31.9	2.160	3.125	6.7	20.7	8 19	22 29.75	-19 12.5	1.664	2.665	4.1	18.8
8 29	22 21.55	+ 6 18.7	2.135	3.119	5.1	20.5	8 29	22 21.52	-20 15.8	1.661	2.660	4.2	18.8
9 8	22 13.69	+ 5 52.9	2.137	3.112	5.6	20.6	9 8	22 13.46	-21 6.3	1.685	2.654	7.5	19.0
9 18	22 6.62	+ 5 18.1	2.166	3.106	7.9	20.7	9 18	22 6.54	-21 39.7	1.733	2.648	11.1	19.2
9 28	22 1.03	+ 4 39.3	2.221	3.099	10.5	20.9	9 28	22 1.59	-21 53.9	1.804	2.642	14.4	19.4
27173	1999 BM ₁		8 26.9	353°77	0°2/26.9	18	18629	1998 DZ ₃₃		8 26.9	145°80	1°2/28.3	18
7 20	22 42.41	-9 37.0	1.037	1.923	20.3	17.8	7 20	22 46.62	-2 11.0	2.069	2.878	14.5	19.0
7 30	22 41.08	-9 32.9	0.972	1.915	15.9	17.5	7 30	22 42.64	-2 57.1	1.990	2.886	11.4	18.8
8 9	22 36.65	-9 44.1	0.925	1.907	10.7	17.2	8 9	22 36.78	-3 59.7	1.934	2.894	7.9	18.6
8 19	22 29.71	-10 7.0	0.896	1.902	4.9	16.9	8 19	22 29.52	-5 15.4	1.902	2.901	4.0	18.4
8 29	22 21.49	-10 34.7	0.889	1.899	1.3	16.6	8 29	22 21.59	-6 38.7	1.899	2.908	1.2	18.2
9 8	22 13.59	-10 59.3	0.904	1.897	7.5	17.0	9 8	22 13.84	-8 3.0	1.924	2.914	4.6	18.4
9 18	22 7.49	-11 14.2	0.940	1.897	13.1	17.3	9 18	22 7.08	-9 21.7	1.977	2.920	8.3	18.7
9 28	22 4.30	-11 14.9	0.994	1.899	18.0	17.6	9 28	22 2.01	-10 29.5	2.056	2.925	11.7	18.9
504378	2007 VR ₉₆		8 26.9	309°23	2°7/28.6	17	301709	2010 GW ₃₁		8 26.9	287°1	4°6/31.4	17
7 20	22 48.33	-3 39.5	1.285	2.131	19.6	21.4	7 20	22 41.87	+ 4 59.8	1.494	2.304	19.0	20.3
7 30	22 45.30	-3 22.6	1.203	2.118	15.8	21.1	7 30	22 39.57	+ 4 44.5	1.430	2.316	15.7	20.1
8 9	22 39.33	-3 24.1	1.139	2.106	11.3	20.8	8 9	22 35.02	+ 4 3.1	1.384	2.329	11.7	19.9
8 19	22 30.94	-3 43.2	1.096	2.095	6.2	20.5	8 19	22 28.78	+ 2 56.9	1.359	2.343	7.7	19.7
8 29	22 21.18	-4 16.0	1.076	2.083	2.7	20.2	8 29	22 21.78	+ 1 31.1	1.359	2.358	4.7	19.5
9 8	22 11.49	-4 56.0	1.080	2.073	6.6	20.5	9 8	22 15.08	-0 5.7	1.383	2.373	5.9	19.6
9 18	22 3.32	-5 35.7	1.107	2.062	11.9	20.7	9 18	22 9.67	-1 43.9	1.433	2.389	9.5	19.9
9 28	21 57.84	-6 8.3	1.155	2.052	16.7	21.0	9 28	22 6.33	-3 14.4	1.506	2.406	13.3	20.2
148238	2000 EA ₁₉		8 26.9	272°05	2°8/25.1	18	92082	1999 XE ₁₈		8 26.9	265°52	3°7/23.4	18
7 20	22 52.15	-15 18.3	1.591	2.446	16.0								

EPHEMERIDES

8 26.9

8 27.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
459561	2013 <i>GM</i> ₉₂		8 26.9 35°49	3°3/29.1	17		515611	2014 <i>KF</i> ₁₉		8 27.0 178°54	1°5/25.5	18	
7 20	22 48.09	- 1 34.7	0.825	1.699	25.3	19.9	7 20	22 46.54	-11 53.2	2.072	2.914	13.3	21.8
7 30	22 45.36	- 1 29.7	0.798	1.728	20.0	19.7	7 30	22 42.64	-12 31.7	1.994	2.914	10.2	21.6
8 9	22 39.18	- 1 53.8	0.786	1.759	14.0	19.5	8 9	22 36.83	-13 19.0	1.939	2.914	6.7	21.4
8 19	22 30.64	- 2 42.5	0.791	1.791	7.6	19.3	8 19	22 29.58	-14 10.6	1.910	2.914	3.1	21.1
8 29	22 21.37	- 3 46.7	0.817	1.824	3.3	19.2	8 29	22 21.63	-15 1.2	1.908	2.914	2.1	21.1
9 8	22 13.13	- 4 54.3	0.864	1.859	7.2	19.6	9 8	22 13.86	-15 45.2	1.934	2.914	5.6	21.3
9 18	22 7.26	- 5 54.8	0.932	1.894	12.5	20.0	9 18	22 7.11	-16 18.6	1.986	2.914	9.2	21.5
9 28	22 4.55	- 6 40.9	1.019	1.930	17.1	20.4	9 28	22 2.06	-16 38.7	2.062	2.914	12.4	21.7
122522	2000 <i>QK</i> ₂₀₇		8 26.9 127°01	2°4/25.3	18		510974	2013 <i>GO</i> ₁₃₂		8 27.0 121°92	0°0/27.0	18	
7 20	22 53.35	-15 22.2	1.728	2.575	15.3	19.0	7 20	22 46.51	- 8 4.2	2.362	3.186	12.5	21.8
7 30	22 48.24	-15 36.7	1.656	2.578	11.8	18.8	7 30	22 42.30	- 8 25.2	2.285	3.193	9.7	21.6
8 9	22 40.70	-15 56.7	1.605	2.580	7.8	18.5	8 9	22 36.43	- 8 55.5	2.231	3.199	6.5	21.5
8 19	22 31.34	-16 17.4	1.579	2.582	3.8	18.3	8 19	22 29.35	- 9 32.2	2.203	3.206	2.9	21.2
8 29	22 21.15	-16 33.3	1.579	2.584	2.9	18.3	8 29	22 21.70	-10 11.3	2.203	3.212	0.7	21.1
9 8	22 11.29	-16 39.9	1.607	2.586	6.7	18.5	9 8	22 14.24	-10 48.6	2.231	3.218	4.3	21.4
9 18	22 2.83	-16 34.5	1.661	2.588	10.7	18.7	9 18	22 7.67	-11 20.4	2.287	3.224	7.7	21.6
9 28	21 56.63	-16 16.1	1.737	2.590	14.3	19.0	9 28	22 2.59	-11 43.9	2.369	3.230	10.6	21.8
425543	2010 <i>RM</i> ₅₁		8 26.9 312°81	3°1/25.2	18		237322	2009 <i>BV</i> ₈₅		8 27.0 76°96	1°2/28.1	16	
7 20	22 50.38	-15 5.3	1.247	2.120	18.4	20.8	7 20	22 48.15	- 4 48.8	1.893	2.715	15.1	21.0
7 30	22 47.08	-15 24.9	1.169	2.105	14.4	20.5	7 30	22 43.90	- 4 58.9	1.825	2.729	11.9	20.8
8 9	22 40.62	-15 53.7	1.110	2.090	9.7	20.2	8 9	22 37.64	- 5 22.3	1.779	2.743	8.2	20.6
8 19	22 31.55	-16 25.4	1.072	2.076	4.8	19.8	8 19	22 29.93	- 5 56.5	1.757	2.756	4.1	20.4
8 29	22 21.06	-16 52.1	1.057	2.063	3.8	19.7	8 29	22 21.56	- 6 36.9	1.761	2.770	1.3	20.2
9 8	22 10.73	-17 6.0	1.067	2.049	8.6	20.0	9 8	22 13.50	- 7 18.6	1.794	2.784	4.8	20.5
9 18	22 2.12	-17 2.8	1.099	2.037	13.8	20.2	9 18	22 6.58	- 7 56.5	1.852	2.797	8.6	20.8
9 28	21 56.42	-16 40.8	1.150	2.025	18.4	20.5	9 28	22 1.53	- 8 26.6	1.936	2.811	12.0	21.0
114612	2003 <i>DV</i> ₁₂		8 26.9 339°33	0°4/27.4	18		371954	2008 <i>FY</i> ₃₇		8 27.0 267°20	0°4/27.4	18	
7 20	22 42.81	- 4 50.4	1.899	2.732	14.7	19.8	7 20	22 47.57	- 5 20.6	1.650	2.485	16.5	21.5
7 30	22 39.15	- 5 35.9	1.816	2.728	11.5	19.6	7 30	22 44.19	- 5 55.7	1.554	2.466	13.1	21.3
8 9	22 35.95	- 6 37.5	1.755	2.724	7.8	19.4	8 9	22 38.34	- 6 49.1	1.478	2.447	8.9	21.0
8 19	22 28.84	- 7 51.6	1.718	2.721	3.7	19.1	8 19	22 30.46	- 7 57.6	1.425	2.427	4.2	20.7
8 29	22 21.77	- 9 12.1	1.708	2.718	0.8	18.9	8 29	22 21.39	- 9 14.9	1.398	2.407	0.9	20.4
9 8	22 14.82	-10 31.8	1.726	2.715	5.0	19.2	9 8	22 12.26	-10 33.0	1.398	2.387	6.0	20.7
9 18	22 8.87	-11 44.1	1.770	2.713	9.1	19.4	9 18	22 4.25	-11 43.7	1.423	2.366	10.8	20.9
9 28	22 4.65	-12 43.6	1.837	2.710	12.7	19.6	9 28	21 58.38	-12 40.6	1.471	2.345	15.2	21.1
432858	2011 <i>HB</i> ₇₇		8 27.0 13°66	3°3/30.0	16		182273	2001 <i>KA</i>		8 27.0 79°69	1°1/26.1	17	
7 20	22 40.07	+ 2 28.5	1.337	2.170	19.7	20.1	7 20	22 47.17	- 8 11.6	1.488	2.339	17.1	20.1
7 30	22 38.50	+ 1 53.0	1.269	2.174	15.9	19.9	7 30	22 43.78	- 9 8.6	1.423	2.346	13.2	19.9
8 9	22 34.51	+ 0 49.2	1.219	2.179	11.6	19.6	8 9	22 37.91	-10 22.0	1.378	2.354	8.7	19.6
8 19	22 28.63	+ 0 40.2	1.191	2.184	6.8	19.4	8 19	22 30.15	-11 45.6	1.356	2.361	3.8	19.4
8 29	22 21.84	+ 2 28.1	1.186	2.191	3.3	19.2	8 29	22 21.50	-13 10.8	1.361	2.369	1.9	19.3
9 8	22 15.31	- 4 23.3	1.205	2.199	5.9	19.4	9 8	22 13.17	-14 28.3	1.391	2.376	6.6	19.6
9 18	22 10.15	- 6 14.3	1.249	2.208	10.4	19.7	9 18	22 6.25	-15 31.2	1.446	2.384	11.2	19.9
9 28	22 7.22	- 7 51.2	1.316	2.217	14.7	19.9	9 28	22 1.62	-16 15.0	1.524	2.391	15.1	20.1
326882	2003 <i>UP</i> ₃₇₄		8 27.0 286°61	3°7/31.1	18		451220	2010 <i>AP</i> ₈₈		8 27.0 318°48	1°6/28.2	15	
7 20	22 42.98	+ 4 0.0	2.387	3.165	13.7	21.3	7 20	22 46.67	- 5 35.0	1.976	2.802	14.5	21.6
7 30	22 39.71	+ 3 54.7	2.289	3.156	11.3	21.1	7 30	22 43.00	- 5 20.3	1.877	2.782	11.6	21.4
8 9	22 34.81	+ 3 33.0	2.212	3.147	8.5	20.9	8 9	22 37.26	- 5 16.6	1.798	2.762	8.1	21.1
8 19	22 28.66	+ 2 55.2	2.159	3.138	5.7	20.7	8 19	22 29.87	- 5 22.4	1.743	2.742	4.3	20.9
8 29	22 21.84	+ 2 3.7	2.133	3.128	3.7	20.6	8 29	22 21.56	- 5 35.4	1.715	2.723	1.6	20.7
9 8	22 15.07	+ 1 2.7	2.134	3.119	4.7	20.6	9 8	22 13.25	- 5 51.7	1.714	2.704	4.9	20.8
9 18	22 9.05	+ 0 2.8	2.162	3.110	7.4	20.8	9 18	22 5.88	- 6 7.4	1.739	2.686	8.9	21.0
9 28	22 4.42	- 1 7.3	2.217	3.101	10.3	20.9	9 28	22 0.28	- 6 18.7	1.788	2.668	12.6	21.2
273695	2007 <i>EO</i> ₃₉		8 27.0 66°28	7°8/21.9	17		58988	1998 <i>RD</i> ₇₅		8 27.0 3°79	1°3/28.3	18	
7 20	22 57.05	-28 4.0	1.549	2.409	16.1	20.3	7 20	22 42.20	- 3 37.0	1.813	2.645	15.3	18.3
7 30	22 51.36	-28 53.0	1.501	2.421	12.9	20.2	7 30	22 39.54	- 3 59.7	1.736	2.645	12.1	18.1
8 9	22 42.81	-29 36.6	1.473	2.434	9.8	20.0	8 9	22 34.89	- 4 38.5	1.679	2.645	8.4	17.9
8 19	22 32.26	-30 5.9	1.469	2.447	7.9	19.9	8 19	22 28.75	- 5 30.5	1.647	2.646	4.3	17.7
8 29	22 20.99	-30 13.5	1.490	2.459	8.5	20.0	8 29	22 21.86	- 6 30.8	1.640	2.648	1.4	17.5
9 8	22 10.42	-29 55.9	1.535	2.472	10.9	20.2	9 8	22 15.16	- 7 33.1	1.659	2.651	4.9	17.7
9 18	22 1.75	-29 14.2	1.604	2.485	13.9	20.4	9 18	22 9.49	- 8 31.1	1.705	2.654	8.9	18.0
9 28	21 55.83	-28 11.9	1.693	2.498	16.7	20.6	9 28	22 5.61	- 9 19.6	1.774	2.658	12.5	18.2
156704	2002 <i>LQ</i> ₄₉		8 27.0 353°21	0°2/26.8	18		122006	2000 <i>FN</i> ₇₃		8 27.0 334°12	2°4/28.8	18	
7 20	22 42.17	- 7 30.9	1.880	2.723	14.4	19.5	7 20	22 40.05	- 2 14.9	1.168	2.029	20.2	19.8
7 30	22 39.47	- 8 7.1	1.800	2.719	11.2	19.2	7 30	22 39.08	- 2 23.5	1.087	2.011	16.3	19.5
8 9	22 34.83	- 8 56.7	1.743	2.716	7.5	19.0	8 9	22 35.31	- 2 57.0	1.023	1.994	11.6	19.2
8 19	22 28.71	- 9 55.7	1.709	2.713	3.4	18.8	8 19	22 29.19	- 3 53.9	0.978	1.979	6.3	18.8
8 29	22 21.84	-10 58.5	1.702	2.711	1.0	18.6	8 29	22 21.72	- 5 8.6	0.956	1.964	2.4	18.5
9 8	22 15.13	-11 58.7	1.722	2.710	5.2	18.9	9 8	22 14.30	- 6 31.3	0.956	1.951	6.7	18.8
9 18	22 9.42	-12 50.7	1.767	2.709	9.2	19.1	9 18	22 8.32	- 7 50.7	0.979	1.939	12.3	19.0
9 28	22 5.45	-13 30.1	1.836	2.708	12.7	19.3	9 28	22 4.99	- 8 57.1	1.021	1.929	17.3	19.3
391507	2007 <i>RP</i> ₁₃		8 27.0 339°07	1°6/27.9	18		228609	2002 <i>BW</i> ₁₈					