

EPHEMERIDES

9 29.9

9 30.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
358822	2008 <i>EV</i> ₁₄₈		9 29.9 79°86'	2°1/2.0	18		470444	2007 <i>YD</i> ₁₁		9 30.0 297°57'	4°2/26.9	18	
8 29	0 49.76	+ 9 53.5	2.069	2.919	12.8	20.4	8 29	0 49.93	- 3 45.2	1.299	2.203	15.3	21.1
9 8	0 43.79	+10 0.3	2.004	2.927	9.6	20.2	9 8	0 44.98	- 4 39.6	1.222	2.180	11.0	20.8
9 18	0 36.14	+ 9 54.3	1.963	2.936	6.0	20.0	9 18	0 37.32	- 5 42.0	1.167	2.156	6.6	20.5
9 28	0 27.50	+ 9 37.5	1.949	2.944	2.7	19.8	9 28	0 27.78	- 6 43.5	1.136	2.132	4.2	20.3
10 8	0 18.76	+ 9 13.4	1.963	2.953	3.2	19.8	10 8	0 17.69	- 7 34.0	1.130	2.108	7.7	20.4
10 18	0 10.79	+ 8 46.5	2.005	2.961	6.6	20.1	10 18	0 8.51	- 8 5.1	1.148	2.085	12.6	20.6
10 28	0 4.37	+ 8 21.6	2.075	2.970	10.0	20.3	10 28	0 1.58	- 8 11.4	1.188	2.061	17.4	20.9
11 7	24 0.00	+ 8 3.1	2.167	2.978	12.9	20.5	11 7	23 57.74	- 7 51.9	1.244	2.038	21.5	21.1
507908	2014 <i>VS</i> ₃₀		9 29.9 340°60'	6°1/26.5	18		426091	2012 <i>DN</i> ₆₇		9 30.0 99°99'	4°5/26.8	17	
8 29	0 47.29	- 6 32.6	0.867	1.796	18.3	20.6	8 29	0 53.52	- 6 15.4	1.417	2.314	14.7	20.6
9 8	0 43.71	- 7 16.0	0.813	1.781	13.4	20.3	9 8	0 46.94	- 6 59.7	1.370	2.322	10.5	20.4
9 18	0 36.78	- 8 2.6	0.778	1.768	8.4	20.0	9 18	0 38.04	- 7 45.1	1.345	2.330	6.4	20.2
9 28	0 27.66	- 8 40.6	0.762	1.756	6.2	19.8	9 28	0 27.84	- 8 23.8	1.346	2.338	4.5	20.1
10 8	0 18.12	- 8 58.2	0.767	1.746	9.9	20.0	10 8	0 17.65	- 8 48.4	1.373	2.346	7.3	20.3
10 18	0 10.04	- 8 48.1	0.792	1.738	15.3	20.2	10 18	0 8.72	- 8 54.3	1.425	2.353	11.4	20.5
10 28	0 4.94	- 8 7.8	0.835	1.731	20.5	20.5	10 28	0 2.05	- 8 39.7	1.501	2.361	15.2	20.8
11 7	0 3.61	- 6 59.9	0.892	1.727	24.9	20.8	11 7	23 58.17	- 8 5.6	1.595	2.368	18.4	21.0
407852	2012 <i>BV</i> ₅₅		9 29.9 238°50'	3°8/25.3	18		474707	2005 <i>GJ</i> ₁₅₀		9 30.0 78°97'	4°7/25.7	18	
8 29	0 44.87	- 6 51.6	2.249	3.142	10.2	21.2	8 29	0 50.17	- 8 43.3	1.834	2.728	12.1	20.9
9 8	0 40.21	- 8 1.8	2.189	3.139	7.3	21.0	9 8	0 44.04	- 9 35.1	1.797	2.746	8.7	20.8
9 18	0 34.11	- 9 13.6	2.154	3.137	4.7	20.9	9 18	0 36.22	-10 25.2	1.784	2.765	5.7	20.6
9 28	0 27.16	-10 20.7	2.148	3.134	4.0	20.8	9 28	0 27.52	-11 6.7	1.798	2.783	4.8	20.6
10 8	0 20.11	-11 17.1	2.170	3.130	6.0	20.9	10 8	0 18.93	-11 34.1	1.840	2.801	6.9	20.8
10 18	0 13.70	-11 58.2	2.218	3.127	8.9	21.1	10 18	0 11.34	-11 44.1	1.908	2.820	9.9	21.0
10 28	0 8.58	-12 21.2	2.292	3.124	11.6	21.3	10 28	0 5.49	-11 35.5	2.000	2.838	12.9	21.2
11 7	0 5.21	-12 25.7	2.386	3.121	14.0	21.5	11 7	0 1.81	-11 9.3	2.112	2.856	15.3	21.4
32179	2000 <i>NC</i> ₁₆		9 29.9 38°13'	0°3/29.7	18		13185	Agasthenes		9 30.0 314°58'	0°1/30.2	18	
8 29	0 47.40	+ 3 49.7	1.864	2.742	12.7	18.5	8 29	0 40.65	+ 4 23.1	4.154	5.013	6.7	19.1
9 8	0 42.23	+ 3 22.9	1.802	2.746	9.1	18.3	9 8	0 36.69	+ 4 9.2	4.075	5.009	4.8	19.0
9 18	0 35.31	+ 2 46.2	1.763	2.749	5.1	18.1	9 18	0 31.97	+ 3 50.6	4.024	5.006	2.7	18.8
9 28	0 27.37	+ 2 3.9	1.752	2.753	0.8	17.8	9 28	0 26.82	+ 3 29.2	4.002	5.003	0.5	18.6
10 8	0 19.33	+ 1 21.6	1.768	2.757	3.6	18.0	10 8	0 21.60	+ 3 7.0	4.010	5.000	1.7	18.7
10 18	0 12.09	+ 0 44.7	1.811	2.762	7.7	18.2	10 18	0 16.67	+ 2 46.1	4.048	4.997	3.9	18.9
10 28	0 6.46	+ 0 18.0	1.880	2.766	11.3	18.5	10 28	0 12.40	+ 2 28.7	4.115	4.994	5.9	19.0
11 7	0 2.94	+ 0 4.6	1.971	2.771	14.4	18.7	11 7	0 9.06	+ 2 16.5	4.208	4.991	7.6	19.2
429810	2012 <i>JY</i> ₂₅		9 30.0 115°37'	2°4/28.0	17		123886	2001 <i>DE</i> ₄₅		9 30.0 139°81'	4°7/4.7	18	
8 29	0 51.87	- 1 8.1	1.542	2.431	14.2	21.7	8 29	0 50.76	+17 46.6	2.344	3.150	12.9	19.6
9 8	0 45.62	- 1 52.0	1.490	2.441	10.0	21.5	9 8	0 44.52	+18 19.8	2.266	3.151	10.3	19.4
9 18	0 37.26	- 2 42.7	1.463	2.450	5.6	21.2	9 18	0 36.60	+18 37.5	2.210	3.153	7.6	19.3
9 28	0 27.70	- 3 33.4	1.461	2.460	2.4	21.0	9 28	0 27.62	+18 39.1	2.182	3.154	5.3	19.1
10 8	0 18.12	- 4 16.6	1.486	2.469	5.5	21.3	10 8	0 18.42	+18 26.4	2.181	3.156	4.8	19.1
10 18	0 9.65	- 4 46.5	1.538	2.477	9.8	21.5	10 18	0 9.85	+18 2.7	2.209	3.157	6.7	19.2
10 28	0 3.22	- 4 59.4	1.614	2.485	13.7	21.8	10 28	0 2.69	+17 33.1	2.265	3.158	9.3	19.4
11 7	23 59.37	- 4 54.0	1.710	2.493	16.9	22.0	11 7	23 57.51	+17 3.1	2.344	3.159	11.9	19.6
391980	2008 <i>XD</i> ₅₀		9 30.0 247°17'	4°2/25.9	18		447473	2006 <i>QN</i> ₁₀₂		9 30.0 59°42'	2°2/2.0	18	
8 29	0 49.74	- 7 32.7	1.985	2.875	11.5	21.1	8 29	0 48.72	+10 25.5	1.710	2.570	14.5	21.1
9 8	0 43.92	- 8 20.9	1.915	2.864	8.3	20.9	9 8	0 43.27	+10 14.7	1.654	2.583	10.9	20.9
9 18	0 36.29	- 9 10.0	1.871	2.853	5.3	20.7	9 18	0 35.92	+ 9 47.8	1.621	2.597	6.8	20.7
9 28	0 27.56	- 9 53.6	1.854	2.841	4.2	20.6	9 28	0 27.50	+ 9 7.8	1.613	2.610	2.9	20.5
10 8	0 18.63	-10 25.7	1.865	2.829	6.5	20.7	10 8	0 19.02	+ 8 20.2	1.633	2.624	3.5	20.6
10 18	0 10.45	-10 42.1	1.902	2.817	9.8	20.9	10 18	0 11.50	+ 7 31.5	1.680	2.638	7.4	20.9
10 28	0 3.84	-10 40.2	1.965	2.805	13.0	21.1	10 28	0 5.78	+ 6 48.1	1.752	2.652	11.2	21.1
11 7	23 59.36	-10 20.1	2.048	2.793	15.7	21.2	11 7	0 2.37	+ 6 15.3	1.846	2.666	14.4	21.4
453684	2010 <i>VE</i> ₁₆₁		9 30.0 5°99'	6°0/6.5	17		164972	2000 <i>AM</i> ₆₂		9 30.0 268°83'	6°1/5.5	18	
8 29	0 43.07	+21 32.3	1.627	2.449	16.9	20.9	8 29	0 50.46	+20 22.5	1.972	2.775	15.0	19.8
9 8	0 39.51	+21 23.4	1.557	2.449	13.8	20.7	9 8	0 44.74	+20 53.8	1.881	2.762	12.3	19.6
9 18	0 33.95	+20 47.0	1.507	2.451	10.3	20.5	9 18	0 36.93	+21 5.0	1.812	2.748	9.4	19.4
9 28	0 27.16	+19 44.0	1.480	2.453	7.2	20.3	9 28	0 27.71	+20 54.7	1.767	2.734	6.9	19.2
10 8	0 20.19	+18 19.4	1.478	2.456	6.1	20.3	10 8	0 18.04	+20 24.3	1.748	2.719	6.2	19.2
10 18	0 14.08	+16 41.7	1.501	2.460	8.0	20.4	10 18	0 9.01	+19 38.2	1.757	2.705	8.1	19.3
10 28	0 9.76	+15 1.5	1.550	2.465	11.3	20.6	10 28	0 1.63	+18 43.6	1.792	2.691	11.1	19.4
11 7	0 7.81	+13 28.6	1.621	2.471	14.6	20.8	11 7	23 56.60	+17 48.4	1.849	2.676	14.1	19.6
111771	2002 <i>CZ</i> ₁₅₂		9 30.0 1°02'	0°1/29.7	18		392644	2011 <i>UF</i> ₁₃₆		9 30.0 50°67'	1°4/28.9	18	
8 29	0 39.85	+ 3 43.2	3.855	4.720	7.0	19.8	8 29	0 51.75	- 0 33.5	1.720	2.604	13.2	20.6
9 8	0 36.16	+ 3 16.3	3.782	4.720	5.0	19.7	9 8	0 45.38	- 0 40.3	1.666	2.614	9.4	20.4
9 18	0 31.69	+ 2 44.4	3.736	4.720	2.8	19.5	9 18	0 37.08	- 0 52.6	1.636	2.623	5.2	20.2
9 28	0 26.76	+ 2 9.8	3.718	4.720	0.4	19.3	9 28	0 27.69	- 1 6.1	1.633	2.633	1.5	20.0
10 8	0 21.78	+ 1 35.0	3.731	4.720	2.0	19.5	10 8	0 18.28	- 1 16.1	1.657	2.643	4.4	20.2
10 18	0 17.12	+ 1 2.6	3.774	4.720	4.2	19.6	10 18	0 9.87	- 1 18.6	1.709	2.654	8.5	20.5
10 28	0 13.15	+ 0 35.2	3.845	4.721	6.3	19.8	10 28	0 3.32	- 1 10.7	1.785	2.664	12.2	20.7
11 7	0 10.18	+ 0 14.5	3.941	4.721	8.1	19.9	11 7	23 59.14	- 0 50.9	1.884	2.675	15.3	21.0
346905	2009 <i>UY</i> ₁₄₄		9 30.0 314°40'	8°2/8.3	17		428392	2007 <i>RE</i> ₃₂₁		9 30.0 337°63'	0°3/30.2	17	
8 29	0 42.85	+28 1.6	1.060										

EPHEMERIDES

9 30.0

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
50469	2000 <i>DL</i> ₆₉		9 30.0 258°86	0°3/30.3	18		303621	2005 <i>JA</i> ₅₃		9 30.0 62°10	1°7/	1.8	18
8 29	0 49.24	+ 6 30.7	1.676	2.548	14.1	19.9	8 29	0 46.25	+10 38.9	1.825	2.685	13.8	20.6
9 8	0 43.95	+ 5 54.3	1.593	2.533	10.4	19.6	9 8	0 41.50	+10 3.3	1.759	2.688	10.3	20.4
9 18	0 36.50	+ 5 2.3	1.534	2.517	6.0	19.3	9 18	0 34.97	+ 9 10.7	1.716	2.692	6.3	20.2
9 28	0 27.64	+ 3 59.3	1.500	2.501	1.2	18.9	9 28	0 27.39	+ 8 5.3	1.698	2.696	2.4	20.0
10 8	0 18.41	+ 2 52.2	1.494	2.485	3.8	19.1	10 8	0 19.68	+ 6 53.1	1.709	2.701	3.2	20.0
10 18	0 9.93	+ 1 48.7	1.515	2.468	8.6	19.4	10 18	0 12.77	+ 5 41.6	1.747	2.705	7.2	20.3
10 28	0 3.25	+ 0 56.3	1.561	2.451	13.0	19.6	10 28	0 7.49	+ 4 37.9	1.811	2.709	11.0	20.5
11 7	23 59.04	+ 0 20.1	1.628	2.434	16.7	19.8	11 7	0 4.35	+ 3 47.3	1.897	2.713	14.2	20.8
482995	2014 <i>QD</i> ₃₈		9 30.0 86°14	5°2/	6.1	18	454076	2012 <i>UE</i> ₁₇₄		9 30.0 210°87	12°6/	12.2	17
8 29	0 49.01	+20 58.8	2.283	3.076	13.6	20.9	8 29	0 52.28	+34 48.7	1.375	2.118	23.1	20.9
9 8	0 43.20	+21 14.8	2.220	3.093	11.0	20.8	9 8	0 46.99	+35 17.9	1.297	2.114	20.5	20.7
9 18	0 35.80	+21 11.9	2.178	3.110	8.3	20.6	9 18	0 38.57	+35 5.5	1.233	2.109	17.5	20.5
9 28	0 27.49	+20 50.2	2.162	3.126	6.0	20.5	9 28	0 28.05	+34 4.7	1.187	2.104	14.7	20.3
10 8	0 19.10	+20 12.6	2.173	3.143	5.3	20.5	10 8	0 17.01	+32 15.7	1.162	2.099	12.8	20.2
10 18	0 11.45	+19 23.6	2.212	3.159	6.7	20.6	10 18	0 7.19	+29 46.6	1.161	2.092	13.0	20.2
10 28	0 5.28	+18 29.4	2.279	3.176	9.1	20.8	10 28	0 0.11	+26 53.9	1.182	2.085	15.2	20.3
11 7	0 1.05	+17 36.2	2.370	3.192	11.5	21.0	11 7	23 56.60	+23 57.1	1.226	2.078	18.3	20.5
226572	2003 <i>XA</i> ₁₁		9 30.0 281°15	8°4/19.5	18		35561	1998 <i>FZ</i> ₁₃₂		9 30.0 153°39	2°4/27.3	18	
8 29	0 48.34	-24 39.9	2.366	3.237	10.6	19.9	8 29	0 46.85	+ 0 11.0	1.900	2.786	12.1	18.7
9 8	0 42.70	-25 44.8	2.319	3.228	9.1	19.8	9 8	0 41.81	- 1 13.9	1.841	2.791	8.5	18.5
9 18	0 35.51	-26 37.8	2.297	3.220	8.4	19.7	9 18	0 35.10	- 2 47.3	1.808	2.796	4.7	18.3
9 28	0 27.44	-27 12.3	2.300	3.211	8.8	19.7	9 28	0 27.41	- 4 21.8	1.802	2.800	2.4	18.2
10 8	0 19.31	-27 24.2	2.328	3.203	10.1	19.8	10 8	0 19.64	- 5 49.2	1.826	2.804	5.2	18.4
10 18	0 11.93	-27 11.6	2.380	3.195	11.9	19.9	10 18	0 12.66	- 7 2.4	1.877	2.807	8.9	18.6
10 28	0 5.99	-26 35.4	2.453	3.186	13.8	20.1	10 28	0 7.24	- 7 56.5	1.953	2.811	12.3	18.8
11 7	0 1.97	-25 38.3	2.544	3.178	15.4	20.2	11 7	0 3.87	- 8 29.6	2.050	2.814	15.1	19.0
301037	2008 <i>SN</i> ₂₉₁		9 30.0 33°40	3°1/	6.0	18	443550	2014 <i>KX</i> ₁₄		9 30.0 28°03	8°2/21.9	18	
8 29	0 40.56	+20 2.7	4.075	4.858	8.2	20.0	8 29	0 46.96	-16 44.4	1.641	2.542	12.8	20.0
9 8	0 36.69	+20 1.0	3.993	4.861	6.6	19.8	9 8	0 42.07	-18 11.0	1.607	2.549	10.1	19.8
9 18	0 32.01	+19 48.5	3.935	4.865	5.0	19.7	9 18	0 35.27	-19 28.3	1.595	2.556	8.4	19.7
9 28	0 26.85	+19 25.9	3.904	4.869	3.6	19.6	9 28	0 27.44	-20 27.1	1.609	2.563	8.6	19.8
10 8	0 21.62	+18 55.0	3.902	4.873	3.1	19.6	10 8	0 19.63	-21 0.8	1.647	2.571	10.6	19.9
10 18	0 16.71	+18 18.0	3.930	4.877	4.0	19.7	10 18	0 12.83	-21 6.4	1.708	2.579	13.2	20.1
10 28	0 12.51	+17 38.0	3.986	4.881	5.6	19.8	10 28	0 7.89	-20 44.3	1.790	2.588	15.8	20.3
11 7	0 9.31	+16 58.1	4.068	4.885	7.2	19.9	11 7	0 5.25	-19 57.9	1.890	2.597	18.0	20.5
271567	2004 <i>KL</i> ₃		9 30.0 143°32	2°7/	2.7	18	442973	2013 <i>CZ</i> ₁₃₇		9 30.0 298°16	1°4/	1.1	16
8 29	0 49.08	+13 4.4	1.704	2.553	15.1	20.8	8 29	0 50.57	+ 6 51.4	1.790	2.656	13.7	20.9
9 8	0 43.64	+12 37.6	1.637	2.558	11.5	20.6	9 8	0 44.86	+ 7 0.2	1.704	2.639	10.2	20.6
9 18	0 36.21	+11 50.9	1.592	2.563	7.4	20.4	9 18	0 37.03	+ 6 57.4	1.641	2.621	6.1	20.3
9 28	0 27.58	+10 47.4	1.573	2.568	3.5	20.2	9 28	0 27.79	+ 6 44.8	1.605	2.604	2.0	20.0
10 8	0 18.80	+ 9 33.6	1.581	2.572	3.7	20.2	10 8	0 18.14	+ 6 26.4	1.595	2.587	3.5	20.1
10 18	0 10.94	+ 8 17.2	1.617	2.576	7.6	20.4	10 18	0 9.17	+ 6 6.9	1.614	2.570	7.9	20.3
10 28	0 4.90	+ 7 6.6	1.679	2.580	11.5	20.7	10 28	0 1.91	+ 5 51.6	1.657	2.553	12.0	20.6
11 7	0 1.25	+ 6 8.4	1.762	2.583	15.0	20.9	11 7	23 57.06	+ 5 45.0	1.723	2.536	15.6	20.8
480037	2015 <i>BU</i> ₁₉₂		9 30.0 205°17	1°8/28.5	17		418947	2009 <i>ED</i> ₃		9 30.0 266°79	3°7/27.2	18	
8 29	0 51.18	+ 0 45.2	1.658	2.542	13.7	21.6	8 29	0 51.05	- 2 45.4	1.333	2.234	15.2	20.9
9 8	0 45.20	- 0 1.4	1.591	2.539	9.7	21.4	9 8	0 45.57	- 3 42.7	1.269	2.225	10.9	20.6
9 18	0 37.12	- 0 57.4	1.548	2.535	5.4	21.1	9 18	0 37.53	- 4 47.9	1.227	2.215	6.3	20.4
9 28	0 27.75	- 1 56.6	1.531	2.531	1.8	20.9	9 28	0 27.87	- 5 52.1	1.210	2.206	3.7	20.2
10 8	0 18.17	- 2 51.4	1.542	2.526	5.0	21.1	10 8	0 17.91	- 6 45.8	1.218	2.196	7.0	20.4
10 18	0 9.50	- 3 35.3	1.579	2.521	9.4	21.3	10 18	0 9.02	- 7 21.3	1.250	2.187	11.8	20.6
10 28	0 2.72	- 4 3.2	1.642	2.515	13.4	21.6	10 28	0 2.38	- 7 33.6	1.305	2.177	16.2	20.8
11 7	23 58.42	- 4 12.6	1.725	2.509	16.8	21.8	11 7	23 58.70	- 7 22.1	1.378	2.167	20.0	21.1
466247	2013 <i>CT</i> ₂₁₂		9 30.0 315°58	1°6/26.6	16		194732	2001 <i>YL</i> ₃		9 30.0 293°08	8°1/23.5	18	
8 29	0 38.55	- 3 4.3	4.057	4.940	6.3	20.6	8 29	0 52.91	-15 48.0	1.556	2.451	13.8	19.3
9 8	0 35.24	- 3 59.9	3.986	4.934	4.4	20.5	9 8	0 46.78	-16 47.5	1.487	2.429	10.8	19.1
9 18	0 31.20	- 4 57.9	3.942	4.928	2.5	20.3	9 18	0 38.18	-17 40.2	1.440	2.406	8.6	18.9
9 28	0 26.72	- 5 55.3	3.928	4.922	1.7	20.2	9 28	0 27.99	-18 16.3	1.419	2.383	8.4	18.8
10 8	0 22.18	- 6 49.1	3.944	4.916	3.0	20.3	10 8	0 17.43	-18 28.0	1.422	2.361	10.7	18.9
10 18	0 17.93	- 7 36.3	3.990	4.910	5.0	20.5	10 18	0 7.82	-18 11.2	1.449	2.338	14.0	19.0
10 28	0 14.31	- 8 14.8	4.064	4.905	6.8	20.6	10 28	0 0.32	-17 25.6	1.497	2.316	17.4	19.2
11 7	0 11.62	- 8 43.2	4.162	4.899	8.4	20.7	11 7	23 55.63	-16 14.6	1.563	2.293	20.4	19.4
195236	2002 <i>EL</i> ₁₄		9 30.0 244°48	0°9/30.9	18		509337	2006 <i>XC</i> ₃₆		9 30.0 332°79	9°3/21.3	18	
8 29	0 47.55	+ 8 38.8	1.924	2.785	13.1	20.6	8 29	0 39.70	- 9 47.1	0.978	1.912	16.2	19.8
9 8	0 42.49	+ 7 55.2	1.840	2.773	9.7	20.4	9 8	0 38.04	-12 10.1	0.920	1.887	12.3	19.5
9 18	0 35.58	+ 6 55.7	1.780	2.760	5.7	20.1	9 18	0 33.58	-14 39.5	0.881	1.863	9.6	19.3
9 28	0 27.49	+ 5 44.4	1.747	2.747	1.6	19.8	9 28	0 27.22	-16 56.8	0.864	1.841	10.2	19.3
10 8	0 19.13	+ 4 27.5	1.742	2.734	3.3	19.9	10 8	0 20.39	-18 43.7	0.869	1.820	13.9	19.4
10 18	0 11.44	+ 3 12.5	1.766	2.720	7.5	20.1	10 18	0 14.64	-19 47.4	0.892	1.801	18.5	19.6
10 28	0 5.30	+ 2 6.5	1.816	2.705	11.4	20.4	10 28	0 11.35	-20 3.1	0.931	1.784	22.8	19.8
11 7	0 1.30	+ 1 14.9	1.888	2.691	14.8	20.6	11 7	0 11.33	-19 33.9	0.983	1.769	26.5	20.0
277669	2006 <i>BC</i> ₂₀₆		9 30.0 56°00	4°1/26.3	16		398082	2009 <i>KR</i> ₂		9 30.0 92°42	3°4/26.7	18	
8 29													

EPHEMERIDES

9 30.0

9 30.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
148910	2001 XY ₉		9 30.0 219°13	3°4/ 3.9 18			241773	2001 JA ₂		9 30.0 14°76	3°2/26.9 18		
8 29	0 47.79	+15 34.0	2.386	3.207	12.2	20.4	8 29	0 45.69	- 2 2.4	1.635	2.534	13.0	19.9
9 8	0 42.39	+15 32.7	2.301	3.201	9.6	20.2	9 8	0 41.23	- 3 15.2	1.580	2.535	9.2	19.7
9 18	0 35.43	+15 16.0	2.240	3.196	6.6	20.0	9 18	0 34.88	- 4 35.1	1.548	2.537	5.2	19.5
9 28	0 27.50	+14 44.8	2.205	3.190	4.0	19.8	9 28	0 27.42	- 5 53.8	1.543	2.539	3.2	19.4
10 8	0 19.36	+14 2.3	2.199	3.183	3.7	19.8	10 8	0 19.86	- 7 2.9	1.564	2.541	6.1	19.6
10 18	0 11.79	+13 12.9	2.222	3.176	6.1	19.9	10 18	0 13.19	- 7 55.6	1.612	2.544	10.0	19.8
10 28	0 5.52	+12 22.3	2.272	3.169	9.1	20.1	10 28	0 8.24	- 8 27.5	1.682	2.546	13.6	20.0
11 7	0 1.08	+11 35.8	2.347	3.162	11.9	20.3	11 7	0 5.56	- 8 37.4	1.773	2.549	16.7	20.3
486434	2013 FT ₁₀		9 30.0 200°13	5°3/23.8 18			252099	2000 UP ₉₂		9 30.0 1°04	2°5/ 1.5 18		
8 29	0 47.33	-12 12.1	2.238	3.128	10.3	21.2	8 29	0 50.04	+ 8 11.0	1.060	1.951	19.0	19.8
9 8	0 42.00	-13 19.3	2.183	3.127	7.7	21.0	9 8	0 45.28	+ 8 27.8	1.003	1.949	14.2	19.6
9 18	0 35.16	-14 23.5	2.153	3.124	5.7	20.9	9 18	0 37.54	+ 8 25.0	0.965	1.948	8.7	19.3
9 28	0 27.45	-15 18.3	2.152	3.122	5.5	20.9	9 28	0 27.91	+ 8 5.4	0.949	1.948	3.3	19.0
10 8	0 19.65	-15 58.2	2.178	3.119	7.3	21.0	10 8	0 17.97	+ 7 35.1	0.956	1.949	4.8	19.1
10 18	0 12.55	-16 19.5	2.230	3.117	9.9	21.2	10 18	0 9.36	+ 7 2.7	0.986	1.951	10.3	19.4
10 28	0 6.83	-16 20.7	2.306	3.114	12.4	21.3	10 28	0 3.46	+ 6 36.9	1.038	1.953	15.5	19.7
11 7	0 2.97	-16 2.8	2.402	3.110	14.6	21.5	11 7	0 0.96	+ 6 24.3	1.107	1.957	19.9	20.0
374690	2006 QM ₁₃₈		9 30.0 3°08	2°9/28.3 15			454246	2013 LS ₁₉		9 30.0 109°39	2°5/27.1 18		
8 29	0 49.69	- 1 52.0	1.032	1.945	17.5	20.2	8 29	0 46.80	- 4 12.4	2.456	3.340	9.8	21.3
9 8	0 44.93	- 2 11.4	0.982	1.944	12.5	19.9	9 8	0 41.43	- 4 53.4	2.404	3.352	6.9	21.1
9 18	0 37.27	- 2 38.2	0.952	1.943	7.0	19.7	9 18	0 34.77	- 5 36.5	2.377	3.363	4.0	21.0
9 28	0 27.84	- 3 4.8	0.944	1.944	2.9	19.4	9 28	0 27.40	- 6 17.1	2.379	3.374	2.5	20.9
10 8	0 18.24	- 3 22.7	0.959	1.946	6.6	19.7	10 8	0 20.01	- 6 50.8	2.411	3.384	4.5	21.1
10 18	0 10.06	- 3 25.4	0.997	1.949	12.1	20.0	10 18	0 13.28	- 7 14.3	2.470	3.395	7.3	21.3
10 28	0 4.57	- 3 9.0	1.055	1.953	17.0	20.3	10 28	0 7.80	- 7 25.0	2.556	3.405	10.0	21.4
11 7	0 2.40	- 2 32.9	1.130	1.959	21.1	20.6	11 7	0 3.97	- 7 22.2	2.664	3.415	12.3	21.6
252758	2002 ES ₄₈		9 30.0 91°52	1°9/ 1.3 17			180828	2005 GG ₃₈		9 30.0 175°00	2°1/ 1.7 17		
8 29	0 55.44	+ 7 54.4	1.393	2.262	16.7	20.5	8 29	0 51.31	+ 9 58.5	1.550	2.412	15.6	20.9
9 8	0 48.43	+ 8 0.8	1.341	2.276	12.3	20.3	9 8	0 45.47	+ 9 43.5	1.483	2.413	11.7	20.7
9 18	0 38.97	+ 7 51.5	1.311	2.291	7.4	20.0	9 18	0 37.37	+ 9 10.6	1.437	2.414	7.2	20.4
9 28	0 28.11	+ 7 29.2	1.306	2.305	2.6	19.8	9 28	0 27.87	+ 8 22.9	1.417	2.415	2.8	20.2
10 8	0 17.23	+ 6 59.7	1.328	2.319	4.0	19.9	10 8	0 18.15	+ 7 26.8	1.424	2.415	3.8	20.2
10 18	0 7.65	+ 6 29.6	1.376	2.333	8.8	20.2	10 18	0 9.42	+ 6 29.6	1.457	2.415	8.4	20.5
10 28	0 0.44	+ 6 5.5	1.449	2.347	13.2	20.5	10 28	0 2.72	+ 5 39.5	1.516	2.415	12.7	20.8
11 7	23 56.17	+ 5 52.3	1.542	2.361	16.8	20.8	11 7	23 58.68	+ 5 2.1	1.595	2.415	16.3	21.0
70742	1999 VF ₁₉		9 30.0 298°12	1°6/ 1.5 18			163923	2003 SW ₂₉₂		9 30.0 333°81	7°0/ 5.6 18		
8 29	0 46.75	+ 9 27.7	1.677	2.544	14.4	19.5	8 29	0 50.67	+19 58.7	1.629	2.447	17.1	18.8
9 8	0 42.19	+ 9 2.0	1.595	2.529	10.8	19.2	9 8	0 45.19	+20 45.5	1.552	2.441	14.0	18.6
9 18	0 35.55	+ 8 18.8	1.534	2.514	6.6	18.9	9 18	0 37.33	+21 9.9	1.496	2.436	10.7	18.4
9 28	0 27.56	+ 7 21.4	1.499	2.498	2.3	18.6	9 28	0 27.88	+21 9.5	1.462	2.431	7.8	18.2
10 8	0 19.21	+ 6 16.0	1.491	2.483	3.6	18.7	10 8	0 18.02	+20 46.0	1.454	2.426	7.1	18.2
10 18	0 11.59	+ 5 10.1	1.510	2.468	8.1	18.9	10 18	0 8.99	+20 4.4	1.471	2.422	9.1	18.3
10 28	0 5.70	+ 4 11.8	1.553	2.453	12.4	19.1	10 28	0 1.96	+19 13.0	1.513	2.418	12.3	18.5
11 7	0 2.21	+ 3 27.0	1.618	2.439	16.1	19.4	11 7	23 57.67	+18 21.0	1.576	2.414	15.6	18.7
172629	2003 XD ₁₇		9 30.0 334°84	1°9/ 1.6 18			272407	2005 TB ₃₃		9 30.0 264°29	1°8/28.5 18		
8 29	0 43.86	+ 9 30.6	1.333	2.217	16.4	18.9	8 29	0 49.55	+ 0 39.1	1.629	2.517	13.7	21.0
9 8	0 40.50	+ 9 9.4	1.257	2.200	12.3	18.6	9 8	0 44.18	- 0 5.1	1.555	2.505	9.8	20.8
9 18	0 34.76	+ 8 27.4	1.202	2.184	7.6	18.3	9 18	0 36.66	- 0 59.0	1.504	2.493	5.4	20.5
9 28	0 27.43	+ 7 28.1	1.169	2.168	2.7	18.0	9 28	0 27.76	- 1 56.7	1.480	2.480	1.8	20.2
10 8	0 19.70	+ 6 18.9	1.161	2.154	4.0	18.1	10 8	0 18.56	- 2 50.6	1.483	2.468	5.1	20.4
10 18	0 12.83	+ 5 9.2	1.178	2.141	9.2	18.3	10 18	0 10.18	- 3 33.7	1.512	2.455	9.6	20.7
10 28	0 7.99	+ 4 8.8	1.217	2.129	14.1	18.6	10 28	0 3.65	- 4 0.6	1.565	2.442	13.7	20.9
11 7	0 5.93	+ 3 25.0	1.277	2.119	18.3	18.8	11 7	23 59.62	- 4 8.6	1.639	2.429	17.2	21.1
356184	2009 HO ₁₀₅		9 30.0 46°51	1°7/28.4 18			37962	1998 HW ₇₄		9 30.0 222°51	0°7/30.8 18		
8 29	0 47.40	+ 0 15.7	1.767	2.656	12.7	20.5	8 29	0 47.31	+ 8 19.2	1.960	2.823	12.8	19.2
9 8	0 42.27	- 0 23.9	1.715	2.665	9.0	20.3	9 8	0 42.26	+ 7 31.0	1.883	2.816	9.4	18.9
9 18	0 35.38	- 1 10.6	1.686	2.674	4.9	20.1	9 18	0 35.44	+ 6 27.6	1.829	2.809	5.5	18.7
9 28	0 27.50	- 1 58.8	1.684	2.684	1.7	19.9	9 28	0 27.54	+ 5 13.4	1.802	2.802	1.4	18.4
10 8	0 19.58	- 2 42.2	1.710	2.694	4.5	20.1	10 8	0 19.43	+ 3 54.9	1.803	2.795	3.2	18.5
10 18	0 12.55	- 3 15.5	1.762	2.704	8.5	20.4	10 18	0 12.02	+ 2 39.2	1.833	2.787	7.4	18.8
10 28	0 7.20	- 3 34.8	1.839	2.715	12.0	20.6	10 28	0 6.12	+ 1 33.2	1.890	2.778	11.1	19.0
11 7	0 4.00	- 3 38.1	1.937	2.726	15.0	20.8	11 7	0 2.30	+ 0 42.0	1.969	2.769	14.4	19.2
6943	Moretto		9 30.0 272°72	2°1/ 1.8 18			317322	2002 JF ₄		9 30.0 84°70	6°5/23.3 17		
8 29	0 49.12	+10 43.0	1.382	2.252	16.7	17.4	8 29	0 49.65	- 6 20.4	1.402	2.306	14.4	20.4
9 8	0 44.26	+10 14.4	1.305	2.239	12.6	17.1	9 8	0 44.02	- 9 8.7	1.378	2.334	10.3	20.2
9 18	0 36.88	+ 9 23.5	1.248	2.226	7.8	16.8	9 18	0 36.35	-11 56.2	1.381	2.361	7.0	20.1
9 28	0 27.80	+ 8 13.6	1.215	2.213	3.0	16.5	9 28	0 27.66	-14 27.7	1.411	2.388	6.9	20.2
10 8	0 18.29	+ 6 52.5	1.208	2.200	4.1	16.5	10 8	0 19.15	-16 31.0	1.468	2.415	9.7	20.4
10 18	0 9.70	+ 5 30.2	1.226	2.187	9.3	16.8	10 18	0 11.92	-17 59.3	1.550	2.441	13.2	20.7
10 28	0 3.26	+ 4 17.2	1.269	2.173	14.2	17.0	10 28	0 6.79	-18 51.2	1.654	2.467	16.3	20.9
11 7	23 59.73	+ 3 21.3	1.331	2.160	18.4	17.2	11 7	0 4.18	-19 10.1	1.775	2.491	18.7	21.2
18834	1999 NN ₅₅		9 30.0 78°24	6°5/ 7.0 18			173262	1999 RD ₁₇₆		9 30.0 40°42	2°5/28.4 18		
8 29	0 47.36	+23 31.2	1.730	2.530	16.9	18.3	8 29	0 50.36	- 0 3.6	1.058	1.967		

EPHEMERIDES

9 30.0

9 30.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
115743	2003 <i>UW</i> ₁₈₉		9 30.0 293°29	0°8/29.2	18		314393	2005 <i>UJ</i> ₁₆₆		9 30.0 352°75	0°5/29.6	18	
8 29	0 45.01	+ 2 35.2	2.261	3.138	10.8	19.6	8 29	0 47.01	+ 3 5.4	1.880	2.760	12.5	20.9
9 8	0 40.44	+ 1 58.1	2.180	3.124	7.7	19.4	9 8	0 42.04	+ 2 39.2	1.813	2.758	9.0	20.7
9 18	0 34.37	+ 1 12.5	2.123	3.109	4.3	19.2	9 18	0 35.33	+ 2 3.6	1.770	2.757	5.0	20.5
9 28	0 27.36	+ 0 22.5	2.094	3.095	0.9	18.9	9 28	0 27.56	+ 1 23.0	1.754	2.755	0.9	20.2
10 8	0 20.14	- 0 26.9	2.093	3.081	3.5	19.1	10 8	0 19.64	+ 0 42.8	1.765	2.755	3.7	20.4
10 18	0 13.47	- 1 10.6	2.121	3.066	7.1	19.3	10 18	0 12.48	+ 0 8.4	1.804	2.754	7.8	20.6
10 28	0 8.05	- 1 44.1	2.175	3.052	10.4	19.5	10 28	0 6.89	- 0 15.4	1.868	2.754	11.4	20.9
11 7	0 4.40	- 2 4.5	2.252	3.038	13.2	19.6	11 7	0 3.39	- 0 25.8	1.955	2.754	14.5	21.1
163336	2002 <i>LE</i> ₅		9 30.0 81°89	10°9/19.4	18		374880	2006 <i>VU</i> ₁₅₂		9 30.0 356°55	4°6/27.0	18	
8 29	0 51.88	-25 48.4	1.717	2.593	13.6	19.7	8 29	0 43.04	- 3 3.4	0.897	1.826	17.8	19.7
9 8	0 45.47	-27 21.7	1.701	2.611	11.8	19.7	9 8	0 40.43	- 3 57.6	0.850	1.819	12.7	19.4
9 18	0 37.12	-28 36.1	1.708	2.628	10.9	19.6	9 18	0 34.89	- 5 0.6	0.821	1.814	7.4	19.1
9 28	0 27.80	-29 22.9	1.738	2.645	11.4	19.7	9 28	0 27.51	- 6 0.8	0.813	1.810	4.6	18.9
10 8	0 18.68	-29 37.4	1.792	2.662	12.9	19.9	10 8	0 19.91	- 6 46.0	0.826	1.809	8.4	19.2
10 18	0 10.80	-29 19.4	1.867	2.679	14.8	20.0	10 18	0 13.67	- 7 7.2	0.859	1.809	13.8	19.4
10 28	0 4.97	-28 32.0	1.962	2.696	16.7	20.2	10 28	0 10.10	- 6 59.9	0.911	1.812	18.8	19.7
11 7	0 1.60	-27 20.7	2.072	2.712	18.4	20.4	11 7	0 9.83	- 6 24.7	0.978	1.816	22.9	20.0
77025	2001 <i>CW</i> ₂₁		9 30.0 288°63	3°4/ 2.4	18		71577	2000 <i>DU</i> ₅₅		9 30.1 8°96	0°6/29.4	18	
8 29	0 52.31	+11 13.0	1.402	2.265	16.9	19.4	8 29	0 44.62	+ 3 16.0	1.812	2.697	12.6	18.4
9 8	0 46.54	+11 29.4	1.330	2.258	13.0	19.1	9 8	0 40.35	+ 2 40.1	1.751	2.699	9.0	18.2
9 18	0 38.15	+11 26.8	1.278	2.251	8.4	18.9	9 18	0 34.37	+ 1 54.2	1.714	2.701	5.0	17.9
9 28	0 28.05	+11 6.5	1.249	2.244	4.2	18.6	9 28	0 27.40	+ 1 3.3	1.703	2.704	0.9	17.7
10 8	0 17.53	+10 32.8	1.247	2.237	4.6	18.6	10 8	0 20.31	+ 0 13.4	1.719	2.708	3.8	17.9
10 18	0 8.01	+ 9 52.5	1.270	2.230	9.1	18.9	10 18	0 14.00	- 0 29.5	1.762	2.713	7.9	18.2
10 28	0 0.72	+ 9 14.2	1.317	2.224	13.7	19.1	10 28	0 9.25	- 1 0.4	1.830	2.718	11.5	18.4
11 7	23 56.44	+ 8 44.9	1.385	2.217	17.7	19.4	11 7	0 6.54	- 1 16.5	1.920	2.723	14.6	18.6
151580	2002 <i>TJ</i> ₂₅₇		9 30.0 308°79	2°5/28.2	18		449640	2014 <i>KM</i> ₂₇		9 30.1 41°69	5°2/26.1	15	
8 29	0 47.49	+ 0 24.9	1.286	2.189	15.5	19.9	8 29	0 52.14	-10 46.7	1.679	2.573	13.0	20.3
9 8	0 43.35	- 0 25.6	1.203	2.160	11.2	19.6	9 8	0 45.55	-11 12.4	1.646	2.594	9.5	20.2
9 18	0 36.53	- 1 30.0	1.141	2.131	6.3	19.2	9 18	0 37.14	-11 33.5	1.638	2.616	6.3	20.0
9 28	0 27.81	- 2 40.8	1.102	2.102	2.5	18.9	9 28	0 27.84	-11 44.2	1.655	2.639	5.2	20.0
10 8	0 18.45	- 3 47.8	1.088	2.074	6.3	19.1	10 8	0 18.74	-11 40.0	1.700	2.662	7.3	20.2
10 18	0 9.88	- 4 41.1	1.099	2.046	11.8	19.3	10 18	0 10.80	-11 19.1	1.770	2.685	10.4	20.4
10 28	0 3.47	- 5 12.7	1.130	2.018	17.0	19.5	10 28	0 4.81	-10 41.3	1.864	2.709	13.4	20.7
11 7	0 0.13	- 5 18.9	1.180	1.992	21.4	19.7	11 7	0 1.16	- 9 48.7	1.979	2.733	15.9	20.9
180215	2003 <i>UK</i> ₉		9 30.0 331°63	5°3/26.6	18		487871	2015 <i>TF</i> ₁₂₆		9 30.1 0°44	7°1/22.4	18	
8 29	0 51.77	- 7 9.5	1.207	2.115	15.9	19.7	8 29	0 47.85	-17 25.7	2.066	2.956	11.1	20.8
9 8	0 46.26	- 7 49.3	1.150	2.107	11.6	19.4	9 8	0 42.48	-18 28.9	2.020	2.955	8.8	20.7
9 18	0 37.99	- 8 30.3	1.114	2.100	7.3	19.2	9 18	0 35.49	-19 24.2	1.998	2.955	7.2	20.6
9 28	0 28.02	- 9 3.2	1.101	2.093	5.4	19.1	9 28	0 27.59	-20 4.7	2.003	2.955	7.4	20.6
10 8	0 17.81	- 9 19.5	1.113	2.087	8.4	19.2	10 8	0 19.64	-20 25.2	2.034	2.955	9.0	20.7
10 18	0 8.85	- 9 13.8	1.148	2.081	13.0	19.5	10 18	0 12.51	-20 23.2	2.089	2.955	11.4	20.9
10 28	0 2.37	- 8 44.2	1.204	2.076	17.3	19.7	10 28	0 6.92	-19 58.7	2.167	2.956	13.7	21.0
11 7	23 59.05	- 7 52.4	1.277	2.071	21.0	19.9	11 7	0 3.33	-19 13.8	2.264	2.956	15.7	21.2
477059	2009 <i>BA</i> ₃₃		9 30.0 235°10	1°8/ 1.9	18		23261	2000 <i>YQ</i> ₄₄		9 30.1 5°48	8°4/21.6	18	
8 29	0 48.96	+10 10.6	2.125	2.974	12.5	22.2	8 29	0 47.69	-15 57.4	1.589	2.491	13.1	18.3
9 8	0 43.40	+ 9 56.2	2.040	2.964	9.4	22.0	9 8	0 42.76	-17 37.8	1.547	2.491	10.3	18.1
9 18	0 36.10	+ 9 27.8	1.979	2.953	5.9	21.8	9 18	0 35.79	-19 10.6	1.529	2.491	8.6	18.0
9 28	0 27.69	+ 8 47.7	1.945	2.942	2.4	21.6	9 28	0 27.64	-20 25.1	1.536	2.491	8.9	18.0
10 8	0 19.02	+ 8 0.3	1.940	2.930	3.1	21.6	10 8	0 19.44	-21 13.4	1.567	2.492	11.0	18.1
10 18	0 10.97	+ 7 10.8	1.963	2.918	6.8	21.8	10 18	0 12.24	-21 31.5	1.622	2.492	13.8	18.3
10 28	0 4.36	+ 6 25.2	2.013	2.906	10.3	22.0	10 28	0 6.94	-21 19.4	1.697	2.493	16.6	18.5
11 7	23 59.77	+ 5 48.3	2.087	2.893	13.4	22.2	11 7	0 4.08	-20 40.3	1.788	2.495	18.9	18.7
476847	2008 <i>UR</i> ₃₀₈		9 30.0 219°78	9°9/13.2	17		244405	2002 <i>PV</i> ₁₃₆		9 30.1 359°05	4°5/26.3	18	
8 29	0 48.56	+36 33.5	2.096	2.787	17.5	21.9	8 29	0 45.07	- 4 43.9	1.298	2.211	14.7	19.1
9 8	0 43.44	+36 38.8	2.006	2.782	15.6	21.7	9 8	0 41.19	- 5 47.2	1.247	2.208	10.5	18.9
9 18	0 36.23	+36 12.6	1.932	2.777	13.5	21.5	9 18	0 35.04	- 6 55.2	1.217	2.205	6.3	18.6
9 28	0 27.72	+35 11.8	1.878	2.771	11.4	21.4	9 28	0 27.53	- 7 58.4	1.211	2.204	4.6	18.5
10 8	0 18.94	+33 37.6	1.849	2.766	10.1	21.3	10 8	0 19.88	- 8 47.5	1.230	2.204	7.6	18.7
10 18	0 10.98	+31 35.4	1.845	2.759	10.0	21.3	10 18	0 13.29	- 9 15.6	1.272	2.206	11.9	19.0
10 28	0 4.84	+29 15.1	1.867	2.753	11.4	21.4	10 28	0 8.78	- 9 19.3	1.335	2.208	15.9	19.2
11 7	0 1.12	+26 48.5	1.914	2.746	13.5	21.5	11 7	0 6.93	- 8 58.8	1.417	2.211	19.3	19.5
296124	2009 <i>BL</i> ₆₉		9 30.0 253°45	7°6/ 7.1	18		135076	2001 <i>PC</i> ₅₆		9 30.1 357°88	2°1/ 1.9	18	
8 29	0 51.31	+24 10.0	1.908	2.690	16.2	20.6	8 29	0 46.89	+10 19.3	1.692	2.555	14.5	19.5
9 8	0 45.45	+24 53.5	1.827	2.687	13.6	20.4	9 8	0 42.17	+10 4.9	1.623	2.554	10.9	19.3
9 18	0 37.41	+25 14.0	1.766	2.683	10.9	20.3	9 18	0 35.49	+ 9 33.7	1.576	2.553	6.8	19.0
9 28	0 27.93	+25 9.1	1.729	2.679	8.5	20.1	9 28	0 27.61	+ 8 48.8	1.555	2.552	2.8	18.8
10 8	0 18.08	+24 39.9	1.717	2.675	7.6	20.1	10 8	0 19.53	+ 7 55.7	1.560	2.552	3.5	18.8
10 18	0 8.97	+23 50.9	1.732	2.671	8.9	20.1	10 18	0 12.28	+ 7 1.1	1.593	2.552	7.6	19.1
10 28	0 1.65	+22 49.6	1.772	2.667	11.4	20.3	10 28	0 6.77	+ 6 12.3	1.650	2.553	11.6	19.3
11 7	23 56.83	+21 45.1	1.834	2.663	14.1	20.4	11 7	0 3.57	+ 5 34.8	1.729	2.554	15.0	19.6
210870	2001 <i>RE</i> ₁₁₈		9 30.0 54°33	0°4/30.4	18		342312	2008 <i>TT</i> ₆₇		9 30.1 284°92	1°8/28.5	18	
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
246705	2009 <i>AN</i> ₃₆		9 30.1 97°94	2°8/27.2	18		395410	2011 <i>SA</i> ₁₅₈		9 30.1 344°70	0°4/29.7	18	
8 29	0 46.88	- 1 57.4	1.823	2.715	12.2	20.2	8 29	0 49.50	+ 2 57.6	1.739	2.619	13.3	20.7
9 8	0 41.94	- 3 2.9	1.766	2.718	8.6	20.0	9 8	0 43.98	+ 2 42.8	1.673	2.617	9.6	20.4
9 18	0 35.26	- 4 14.6	1.733	2.721	4.9	19.8	9 18	0 36.49	+ 2 18.6	1.629	2.615	5.4	20.2
9 28	0 27.56	- 5 25.5	1.728	2.724	2.8	19.7	9 28	0 27.82	+ 1 49.1	1.612	2.614	0.9	19.9
10 8	0 19.78	- 6 28.1	1.750	2.727	5.5	19.8	10 8	0 18.97	+ 1 19.6	1.623	2.612	3.8	20.1
10 18	0 12.81	- 7 16.5	1.799	2.730	9.2	20.1	10 18	0 10.96	+ 0 55.4	1.660	2.611	8.2	20.4
10 28	0 7.45	- 7 46.8	1.873	2.733	12.6	20.3	10 28	0 4.71	+ 0 41.0	1.723	2.610	12.1	20.6
11 7	0 4.21	- 7 57.4	1.967	2.736	15.5	20.5	11 7	0 0.77	+ 0 39.5	1.807	2.609	15.4	20.8
41326	1999 <i>XY</i> ₂₁₂		9 30.1 301°07	9°5/18.2	18		402789	2007 <i>DW</i> ₂₉		9 30.1 83°85	3°0/26.1	18	
8 29	0 47.58	-24 24.4	2.040	2.919	11.7	18.4	8 29	0 44.95	- 3 33.4	2.262	3.151	10.3	20.8
9 8	0 42.52	-25 52.1	1.987	2.900	10.2	18.3	9 8	0 40.21	- 4 57.6	2.220	3.170	7.2	20.7
9 18	0 35.63	-27 7.6	1.957	2.882	9.5	18.2	9 18	0 34.15	- 6 24.7	2.204	3.190	4.3	20.5
9 28	0 27.64	-28 2.5	1.952	2.864	10.1	18.2	9 28	0 27.39	- 7 48.2	2.217	3.209	3.1	20.5
10 8	0 19.46	-28 30.6	1.971	2.845	11.7	18.3	10 8	0 20.65	- 9 1.9	2.259	3.227	5.2	20.6
10 18	0 12.04	-28 29.4	2.013	2.827	13.8	18.4	10 18	0 14.61	-10 0.9	2.329	3.246	8.1	20.9
10 28	0 6.23	-27 59.1	2.074	2.809	15.9	18.5	10 28	0 9.87	-10 42.1	2.425	3.265	10.8	21.1
11 7	0 2.58	-27 3.3	2.152	2.792	17.8	18.6	11 7	0 6.81	-11 4.8	2.542	3.283	13.1	21.3
195096	2002 <i>CU</i> ₁₂₄		9 30.1 169°75	0°1/29.9	18		354257	2002 <i>QH</i> ₂₈		9 30.1 0°81	3°9/ 2.4	18	
8 29	0 48.65	+ 5 17.3	1.936	2.806	12.6	20.9	8 29	0 48.05	+ 9 43.8	1.153	2.038	18.2	19.3
9 8	0 43.16	+ 4 33.9	1.869	2.809	9.1	20.7	9 8	0 43.75	+10 30.8	1.094	2.034	13.9	19.0
9 18	0 35.94	+ 3 38.7	1.827	2.811	5.1	20.5	9 18	0 36.70	+10 59.9	1.055	2.032	9.1	18.8
9 28	0 27.69	+ 2 36.4	1.812	2.813	0.8	20.2	9 28	0 27.89	+11 11.1	1.037	2.032	4.7	18.5
10 8	0 19.31	+ 1 33.4	1.825	2.814	3.5	20.4	10 8	0 18.76	+11 8.0	1.043	2.034	5.1	18.6
10 18	0 11.70	+ 0 36.0	1.866	2.816	7.6	20.6	10 18	0 10.79	+10 56.5	1.072	2.037	9.6	18.8
10 28	0 5.68	- 0 10.2	1.934	2.816	11.2	20.9	10 28	0 5.29	+10 44.3	1.123	2.042	14.3	19.1
11 7	0 1.75	- 0 41.6	2.024	2.817	14.3	21.1	11 7	0 2.96	+10 38.5	1.193	2.049	18.4	19.4
469444	2002 <i>KY</i> ₃		9 30.1 83°14	12°7/17.1	16		335081	2004 <i>SW</i> ₉		9 30.1 357°62	15°1/ 4.7	17	
8 29	0 51.55	-24 32.1	1.388	2.278	15.4	20.6	8 29	1 7.07	+22 4.2	0.939	1.769	25.8	19.5
9 8	0 45.56	-27 16.9	1.386	2.303	13.4	20.6	9 8	0 59.10	+25 20.6	0.881	1.767	22.1	19.2
9 18	0 37.29	-29 37.0	1.406	2.328	12.7	20.6	9 18	0 46.27	+28 12.1	0.840	1.766	18.4	19.0
9 28	0 27.88	-31 19.8	1.450	2.352	13.6	20.7	9 28	0 29.68	+30 21.9	0.818	1.765	15.7	18.9
10 8	0 18.73	-32 19.0	1.516	2.376	15.4	20.9	10 8	0 11.68	+31 38.8	0.818	1.765	15.3	18.8
10 18	0 11.03	-32 34.7	1.601	2.399	17.5	21.1	10 18	23 55.22	+32 2.9	0.838	1.765	17.2	19.0
10 28	0 5.70	-32 11.8	1.703	2.422	19.4	21.4	10 28	23 42.91	+31 47.2	0.877	1.767	20.5	19.2
11 7	0 3.13	-31 17.8	1.818	2.445	21.0	21.6	11 7	23 36.06	+31 10.8	0.932	1.769	23.9	19.4
256506	2007 <i>ES</i> ₉₉		9 30.1 305°92	0°4/29.7	18		314623	2006 <i>FD</i> ₂₉		9 30.1 106°78	1°6/28.9	17	
8 29	0 46.16	+ 3 45.1	2.052	2.928	11.8	20.5	8 29	0 54.49	+ 1 0.4	1.426	2.311	15.4	21.4
9 8	0 41.37	+ 3 13.3	1.979	2.922	8.5	20.3	9 8	0 47.66	+ 0 25.6	1.379	2.327	10.9	21.2
9 18	0 34.94	+ 2 31.9	1.930	2.916	4.7	20.1	9 18	0 38.54	- 0 18.4	1.355	2.342	6.0	21.0
9 28	0 27.52	+ 1 45.0	1.908	2.910	0.8	19.8	9 28	0 28.17	- 1 4.9	1.357	2.357	1.7	20.7
10 8	0 19.92	+ 0 57.9	1.914	2.904	3.4	20.0	10 8	0 17.85	- 1 46.5	1.385	2.372	5.0	21.0
10 18	0 12.98	+ 0 15.9	1.949	2.898	7.3	20.2	10 18	0 8.80	- 2 17.0	1.440	2.386	9.7	21.3
10 28	0 7.45	+ 0 16.1	2.009	2.892	10.8	20.4	10 28	0 2.01	- 2 31.9	1.519	2.399	13.9	21.6
11 7	0 3.86	- 0 35.1	2.091	2.886	13.8	20.6	11 7	23 58.01	- 2 29.5	1.618	2.412	17.3	21.9
448663	2010 <i>VB</i> ₁₇₀		9 30.1 197°50	6°9/22.3	18		262096	2006 <i>RL</i> ₈₉		9 30.1 279°43	1°3/ 1.1	16	
8 29	0 49.56	-19 12.0	2.318	3.198	10.4	20.8	8 29	0 49.24	+ 8 25.6	1.458	2.332	15.8	20.9
9 8	0 43.56	-20 4.6	2.270	3.198	8.4	20.7	9 8	0 44.26	+ 7 59.7	1.382	2.320	11.7	20.6
9 18	0 36.05	-20 48.7	2.247	3.197	7.0	20.6	9 18	0 36.89	+ 7 15.2	1.327	2.308	7.0	20.4
9 28	0 27.69	-21 18.0	2.251	3.196	7.2	20.6	9 28	0 27.93	+ 6 16.1	1.296	2.296	2.1	20.0
10 8	0 19.32	-21 28.4	2.282	3.195	8.6	20.7	10 8	0 18.59	+ 5 9.6	1.292	2.284	3.9	20.1
10 18	0 11.71	-21 17.9	2.338	3.194	10.7	20.8	10 18	0 10.13	+ 4 4.4	1.314	2.272	9.0	20.4
10 28	0 5.55	-20 46.7	2.418	3.192	12.9	21.0	10 28	0 3.70	+ 3 9.1	1.359	2.260	13.7	20.6
11 7	0 1.29	-19 57.1	2.516	3.191	14.7	21.1	11 7	0 0.03	+ 2 30.1	1.425	2.248	17.8	20.9
487847	2015 <i>TY</i> ₉₆		9 30.1 302°14	4°3/ 4.8	18		172819	2004 <i>JN</i> ₄₂		9 30.1 19°61	1°5/ 3.1	18	
8 29	0 44.63	+18 12.2	2.057	2.878	13.9	20.9	8 29	0 39.12	+12 56.8	4.076	4.903	7.4	19.1
9 8	0 40.48	+17 55.3	1.959	2.856	11.1	20.6	9 8	0 35.71	+12 28.1	3.997	4.905	5.6	19.0
9 18	0 34.57	+17 17.4	1.882	2.834	8.0	20.4	9 18	0 31.55	+11 50.8	3.943	4.907	3.7	18.9
9 28	0 27.48	+16 19.0	1.831	2.812	5.1	20.2	9 28	0 26.97	+11 6.5	3.918	4.909	1.9	18.8
10 8	0 20.04	+15 4.2	1.807	2.791	4.5	20.1	10 8	0 22.32	+10 17.7	3.922	4.911	1.9	18.8
10 18	0 13.16	+13 39.2	1.811	2.769	7.0	20.2	10 18	0 17.98	+ 9 27.2	3.957	4.914	3.6	18.9
10 28	0 7.69	+12 12.2	1.841	2.748	10.4	20.4	10 28	0 14.31	+ 8 38.1	4.021	4.916	5.6	19.0
11 7	0 4.25	+10 51.2	1.895	2.727	13.6	20.6	11 7	0 11.57	+ 7 53.1	4.112	4.918	7.3	19.2
407986	2012 <i>DA</i> ₆₅		9 30.1 209°19	0°2/30.3	18		483640	2004 <i>VE</i> ₃₉		9 30.1 278°46	2°4/27.4	17	
8 29	0 46.63	+ 5 12.3	2.561	3.422	10.2	22.0	8 29	0 46.65	- 3 3.1	2.248	3.134	10.5	21.5
9 8	0 41.43	+ 4 47.8	2.483	3.418	7.4	21.8	9 8	0 41.62	- 3 42.5	2.175	3.123	7.5	21.3
9 18	0 34.88	+ 4 14.7	2.432	3.414	4.2	21.6	9 18	0 35.07	- 4 25.9	2.126	3.112	4.3	21.1
9 28	0 27.53	+ 3 36.1	2.408	3.410	0.8	21.3	9 28	0 27.59	- 5 8.4	2.105	3.102	2.4	20.9
10 8	0 20.03	+ 2 56.0	2.415	3.405	2.7	21.5	10 8	0 19.94	- 5 45.1	2.113	3.091	4.6	21.1
10 18	0 13.07	+ 2 18.3	2.450	3.400	6.0	21.7	10 18	0 12.88	- 6 11.6	2.149	3.080	7.9	21.3
10 28	0 7.27	+ 1 47.2	2.513	3.394	9.0	21.9	10 28	0 7.12	- 6 24.8	2.210	3.069	11.0	21.4
11 7	0 3.09	+ 1 25.6	2.600	3.389	11.6	22.0	11 7	0 3.18	- 6 23.1	2.294	3.058	13.7	21.6
77129	2001 <i>DX</i> ₉₇		9 30.1 240°16	0°0/29.9	18		356234	2009 <i>SA</i> ₃₀₀		9 30.1 287°84	1°2/27.7	16	
8 29	0 51.7												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
206107	2002 <i>RD</i> ₂₀₈		9 30.1 92°28'	0°4/30.5	18		407511	2010 <i>VL</i> ₁₁₄		9 30.1 163°75'	4°0/25.6	18	
8 29	0 48.29	+ 6 23.8	1.841	2.711	13.2	21.1	8 29	0 48.78	- 9 46.1	2.418	3.304	9.9	21.0
9 8	0 42.94	+ 5 51.1	1.782	2.720	9.6	20.9	9 8	0 42.95	-10 24.2	2.361	3.306	7.2	20.8
9 18	0 35.84	+ 5 6.0	1.746	2.729	5.5	20.6	9 18	0 35.73	-11 0.5	2.330	3.308	4.8	20.6
9 28	0 27.72	+ 4 12.9	1.737	2.738	1.2	20.4	9 28	0 27.72	-11 30.2	2.328	3.310	4.1	20.6
10 8	0 19.54	+ 3 17.6	1.756	2.747	3.3	20.5	10 8	0 19.65	-11 49.0	2.354	3.311	5.8	20.7
10 18	0 12.20	+ 2 26.6	1.803	2.756	7.5	20.8	10 18	0 12.26	-11 54.1	2.407	3.313	8.4	20.9
10 28	0 6.51	+ 1 45.3	1.875	2.765	11.2	21.1	10 28	0 6.19	-11 44.1	2.486	3.314	11.0	21.1
11 7	0 2.96	+ 1 17.5	1.970	2.774	14.3	21.3	11 7	0 1.87	-11 19.3	2.587	3.315	13.2	21.2
426450	2013 <i>QX</i> ₅₉		9 30.1 222°94'	2°8/27.6	18		482713	2013 <i>DE</i> ₈		9 30.1 250°48'	3°0/27.1	18	
8 29	0 49.53	- 0 24.8	1.481	2.375	14.4	20.8	8 29	0 48.01	- 3 41.0	1.978	2.867	11.5	21.7
9 8	0 44.29	- 1 35.5	1.418	2.371	10.2	20.6	9 8	0 42.74	- 4 29.6	1.911	2.861	8.2	21.5
9 18	0 36.79	- 2 56.4	1.379	2.367	5.7	20.3	9 18	0 35.76	- 5 22.3	1.869	2.856	4.8	21.2
9 28	0 27.91	- 4 19.1	1.365	2.363	2.9	20.1	9 28	0 27.74	- 6 13.2	1.855	2.850	3.0	21.1
10 8	0 18.82	- 5 33.9	1.378	2.358	6.1	20.3	10 8	0 19.57	- 6 56.2	1.868	2.844	5.4	21.3
10 18	0 10.71	- 6 32.5	1.416	2.353	10.6	20.6	10 18	0 12.12	- 7 26.3	1.909	2.838	8.9	21.5
10 28	0 4.60	- 7 9.4	1.478	2.348	14.8	20.8	10 28	0 6.19	- 7 40.3	1.975	2.831	12.2	21.7
11 7	0 1.13	- 7 22.7	1.560	2.343	18.3	21.1	11 7	0 2.30	- 7 37.0	2.061	2.825	15.0	21.9
223544	2004 <i>EJ</i> ₄₆		9 30.1 86°55'	3°9/26.9	18		478690	2012 <i>UZ</i> ₁₂		9 30.1 357°46'	1°2/29.0	16	
8 29	0 53.03	- 4 46.6	1.519	2.413	14.1	20.5	8 29	0 40.22	+ 4 50.3	1.059	1.971	17.2	20.5
9 8	0 46.40	- 5 41.1	1.483	2.434	10.0	20.3	9 8	0 38.12	+ 3 39.2	1.004	1.965	12.4	20.2
9 18	0 37.73	- 6 37.7	1.470	2.456	5.9	20.2	9 18	0 33.52	+ 2 7.5	0.969	1.961	6.8	19.9
9 28	0 28.04	- 7 28.6	1.484	2.477	3.9	20.1	9 28	0 27.37	+ 0 24.8	0.957	1.958	1.4	19.6
10 8	0 18.49	- 8 6.7	1.525	2.498	6.6	20.3	10 8	0 21.00	- 1 15.5	0.967	1.957	5.6	19.8
10 18	0 10.19	- 8 27.3	1.591	2.519	10.4	20.6	10 18	0 15.73	- 2 40.7	1.000	1.958	11.3	20.2
10 28	0 3.99	- 8 28.2	1.682	2.539	13.9	20.8	10 28	0 12.71	- 3 40.9	1.054	1.961	16.3	20.5
11 7	0 0.33	- 8 10.1	1.792	2.559	16.8	21.1	11 7	0 12.56	- 4 12.1	1.126	1.965	20.4	20.7
65973	1998 <i>HZ</i> ₃₈		9 30.1 67°71'	2°8/ 3.1	18		402180	2004 <i>TV</i> ₆₇		9 30.1 333°54'	4°4/25.8	16	
8 29	0 45.97	+15 8.9	1.634	2.481	15.7	18.9	8 29	0 40.29	- 2 25.3	1.350	2.265	14.1	19.8
9 8	0 41.50	+14 12.2	1.572	2.492	12.0	18.7	9 8	0 38.04	- 3 57.0	1.262	2.226	10.1	19.5
9 18	0 35.10	+12 51.7	1.533	2.502	7.8	18.5	9 18	0 33.53	- 5 43.2	1.197	2.188	6.1	19.2
9 28	0 27.60	+11 12.1	1.518	2.512	3.8	18.3	9 28	0 27.40	- 7 33.7	1.157	2.151	4.6	19.0
10 8	0 20.03	+ 9 22.1	1.532	2.523	3.7	18.3	10 8	0 20.73	- 9 16.2	1.140	2.115	8.1	19.1
10 18	0 13.40	+ 7 31.6	1.572	2.533	7.5	18.5	10 18	0 14.71	-10 38.6	1.148	2.081	12.9	19.3
10 28	0 8.56	+ 5 50.6	1.639	2.544	11.5	18.8	10 28	0 10.56	-11 32.1	1.175	2.049	17.6	19.4
11 7	0 6.03	+ 4 26.6	1.728	2.554	15.0	19.1	11 7	0 9.11	-11 53.2	1.220	2.018	21.6	19.6
325654	2009 <i>SM</i> ₃₃₅		9 30.1 259°55'	0°3/29.7	17		23033	1999 <i>XU</i> ₁₀		9 30.1 140°78'	0°7/29.3	18	
8 29	0 45.30	+ 4 9.3	2.287	3.159	10.9	21.6	8 29	0 48.91	+ 1 31.9	2.524	3.392	10.1	18.6
9 8	0 40.61	+ 3 30.8	2.215	3.156	7.8	21.4	9 8	0 43.00	+ 1 15.0	2.459	3.399	7.2	18.4
9 18	0 34.48	+ 2 43.0	2.169	3.154	4.3	21.2	9 18	0 35.75	+ 0 52.6	2.421	3.406	4.0	18.2
9 28	0 27.50	+ 1 50.1	2.150	3.152	0.7	20.9	9 28	0 27.74	+ 0 27.7	2.412	3.413	0.8	18.0
10 8	0 20.39	+ 0 57.1	2.160	3.149	3.1	21.1	10 8	0 19.66	+ 0 4.0	2.432	3.420	3.1	18.2
10 18	0 13.87	+ 0 9.0	2.199	3.147	6.7	21.3	10 18	0 12.21	- 0 15.0	2.482	3.426	6.3	18.4
10 28	0 8.62	- 0 29.7	2.264	3.144	9.9	21.5	10 28	0 6.01	- 0 26.4	2.559	3.432	9.2	18.6
11 7	0 5.10	- 0 55.9	2.352	3.142	12.6	21.7	11 7	0 1.48	- 0 28.2	2.661	3.437	11.7	18.8
124062	2001 <i>FG</i> ₁₆₉		9 30.1 180°13'	1°5/27.8	18		13122	Drava		9 30.1 88°35'	3°3/27.2	18	
8 29	0 44.15	+ 0 10.8	2.964	3.839	8.6	20.4	8 29	0 49.73	- 1 19.6	1.410	2.307	14.7	18.3
9 8	0 39.49	- 0 52.1	2.896	3.840	6.0	20.2	9 8	0 44.29	- 2 38.5	1.366	2.321	10.4	18.1
9 18	0 33.74	- 2 0.3	2.854	3.840	3.3	20.0	9 18	0 36.69	- 4 5.0	1.345	2.334	5.8	17.8
9 28	0 27.37	- 3 9.7	2.842	3.841	1.5	19.9	9 28	0 27.90	- 5 29.7	1.350	2.347	3.3	17.7
10 8	0 20.91	- 4 15.6	2.861	3.840	3.4	20.0	10 8	0 19.13	- 6 42.8	1.381	2.359	6.5	18.0
10 18	0 14.91	- 5 13.9	2.909	3.840	6.1	20.2	10 18	0 11.53	- 7 37.0	1.438	2.372	10.8	18.2
10 28	0 9.89	- 6 1.0	2.985	3.839	8.6	20.4	10 28	0 6.02	- 8 7.9	1.518	2.385	14.6	18.5
11 7	0 6.21	- 6 35.1	3.085	3.837	10.8	20.5	11 7	0 3.10	- 8 15.0	1.616	2.397	17.8	18.8
349772	2009 <i>BW</i> ₈		9 30.1 237°98'	5°0/24.4	18		326662	2002 <i>TT</i> ₃₀₄		9 30.1 35°16'	5°2/26.9	17	
8 29	0 47.56	- 9 2.4	2.034	2.928	11.1	21.2	8 29	0 52.76	- 7 8.1	1.167	2.075	16.3	19.9
9 8	0 42.42	-10 23.0	1.969	2.918	8.1	21.0	9 8	0 46.78	- 7 44.5	1.127	2.085	11.8	19.7
9 18	0 35.58	-11 44.4	1.930	2.908	5.6	20.8	9 18	0 38.19	- 8 20.5	1.109	2.095	7.3	19.5
9 28	0 27.70	-12 58.9	1.918	2.897	5.2	20.8	9 28	0 28.16	- 8 47.5	1.114	2.106	5.2	19.4
10 8	0 19.64	-13 59.3	1.934	2.886	7.4	20.9	10 8	0 18.21	- 8 57.8	1.143	2.118	8.1	19.6
10 18	0 12.26	-14 40.5	1.976	2.874	10.4	21.0	10 18	0 9.74	- 8 47.4	1.196	2.130	12.5	19.9
10 28	0 6.36	-14 59.8	2.042	2.863	13.3	21.2	10 28	0 3.82	- 8 15.3	1.270	2.143	16.5	20.2
11 7	0 2.47	-14 57.1	2.128	2.851	15.8	21.4	11 7	0 0.97	- 7 23.6	1.362	2.156	19.9	20.4
133279	2003 <i>SF</i> ₁₇		9 30.1 327°23'	1°2/29.0	18		130865	2000 <i>UJ</i> ₁₀₇		9 30.1 21°65'	6°5/25.6	18	
8 29	0 45.66	+ 1 14.3	1.739	2.629	12.8	19.5	8 29	0 47.52	- 6 42.6	0.981	1.904	17.3	19.0
9 8	0 41.40	+ 0 48.5	1.656	2.606	9.2	19.2	9 8	0 43.36	- 8 3.0	0.946	1.910	12.4	18.7
9 18	0 35.17	+ 0 13.7	1.596	2.584	5.1	18.9	9 18	0 36.39	- 9 25.0	0.930	1.918	8.0	18.5
9 28	0 27.65	- 0 25.5	1.562	2.563	1.3	18.6	9 28	0 27.86	-10 35.5	0.936	1.926	6.6	18.5
10 8	0 19.78	- 1 3.0	1.555	2.542	4.4	18.8	10 8	0 19.35	-11 23.0	0.965	1.936	9.9	18.7
10 18	0 12.57	- 1 33.0	1.574	2.522	8.8	19.0	10 18	0 12.34	-11 40.7	1.014	1.946	14.4	19.0
10 28	0 6.96	- 1 50.3	1.617	2.503	12.8	19.2	10 28	0 7.98	-11 27.4	1.083	1.958	18.6	19.3
11 7	0 3.61	- 1 51.9	1.681	2.485	16.3	19.4	11 7	0 6.78	-10 45.9	1.168	1.971	22.1	19.6
209855	2005 <i>JQ</i> ₂₇		9 30.1 138°17'	5°2/23.6	18		252770	2002 <i>ED</i> ₉₁		9 30.1 218°20'	0°8/29.1	18	
8 29	0 45.96	- 8 51.4	2.										

EPHEMERIDES

9 30.1

9 30.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
407194	2009 <i>UW</i> ₁₁₈		9 30.1 63°18'	2°0'	2.7	18	80457	2000 <i>AH</i> ₉		9 30.1 241°78'	2°2'	1.9	18
8 29	0 44.04	+13 38.8	2.135	2.978	12.7	20.9	8 29	0 51.63	+10 16.6	1.776	2.629	14.4	19.8
9 8	0 39.75	+12 42.9	2.071	2.989	9.6	20.7	9 8	0 45.73	+10 6.7	1.690	2.616	10.9	19.5
9 18	0 34.01	+11 29.6	2.031	3.000	6.1	20.5	9 18	0 37.66	+9 40.5	1.628	2.603	6.8	19.2
9 28	0 27.45	+10 2.9	2.017	3.012	2.8	20.3	9 28	0 28.16	+9 0.0	1.592	2.589	2.9	19.0
10 8	0 20.84	+8 29.2	2.032	3.024	2.9	20.3	10 8	0 18.27	+8 10.3	1.583	2.574	3.6	19.0
10 18	0 14.92	+6 55.7	2.077	3.035	6.2	20.6	10 18	0 9.12	+7 17.7	1.602	2.559	7.9	19.2
10 28	0 10.37	+5 29.5	2.148	3.047	9.5	20.8	10 28	0 1.73	+6 29.4	1.647	2.544	12.0	19.4
11 7	0 7.61	+4 16.0	2.244	3.059	12.4	21.0	11 7	23 56.79	+5 51.5	1.715	2.528	15.6	19.6
392932	2012 <i>VC</i> ₁₀₈		9 30.1 4°99'	0°8'	29.3	18	434294	2004 <i>CT</i> ₂₁		9 30.1 239°75'	0°3'	30.4	16
8 29	0 47.38	+3 45.3	1.691	2.574	13.5	21.0	8 29	0 49.86	+6 33.6	1.674	2.545	14.2	22.6
9 8	0 42.50	+2 55.6	1.627	2.574	9.7	20.7	9 8	0 44.46	+5 54.8	1.596	2.535	10.4	22.3
9 18	0 35.71	+1 53.8	1.586	2.574	5.3	20.5	9 18	0 36.93	+5 0.7	1.542	2.525	6.0	22.0
9 28	0 27.76	+0 45.7	1.572	2.574	1.0	20.2	9 28	0 28.03	+3 55.8	1.513	2.514	1.2	21.7
10 8	0 19.66	-0 21.0	1.585	2.574	4.2	20.4	10 8	0 18.82	+2 47.2	1.512	2.503	3.8	21.8
10 18	0 12.42	-1 19.2	1.625	2.574	8.6	20.7	10 18	0 10.41	+1 42.9	1.539	2.492	8.5	22.1
10 28	0 6.89	-2 3.1	1.690	2.574	12.5	20.9	10 28	0 3.81	+0 50.0	1.590	2.480	12.8	22.3
11 7	0 3.65	-2 29.1	1.776	2.574	15.8	21.2	11 7	23 59.67	+0 13.4	1.663	2.467	16.4	22.5
18626	Michaelcarr		9 30.1 309°89'	1°8'	29.7	17	263800	2008 <i>RQ</i> ₁₆		9 30.1 16°82'	0°8'	1.7	18
8 29	1 9.25	-4 37.5	0.952	1.846	20.4	17.5	8 29	0 39.67	+8 51.8	4.249	5.092	6.8	21.2
9 8	0 59.99	-3 25.9	0.885	1.836	15.1	17.2	9 8	0 36.10	+8 30.1	4.171	5.093	5.1	21.1
9 18	0 46.36	-2 8.9	0.839	1.826	8.7	16.8	9 18	0 31.81	+8 1.9	4.119	5.093	3.1	20.9
9 28	0 29.70	-0 44.4	0.816	1.817	2.2	16.4	9 28	0 27.10	+7 28.9	4.096	5.094	1.2	20.8
10 8	0 12.32	+0 47.5	0.818	1.808	6.5	16.6	10 8	0 22.33	+6 53.2	4.103	5.094	1.6	20.8
10 18	23 56.74	+2 24.7	0.845	1.799	13.4	17.0	10 18	0 17.85	+6 17.4	4.141	5.095	3.6	21.0
10 28	23 45.00	+4 5.3	0.895	1.791	19.4	17.3	10 28	0 14.00	+5 43.8	4.207	5.095	5.5	21.1
11 7	23 38.05	+5 48.6	0.961	1.784	24.3	17.6	11 7	0 11.04	+5 14.8	4.300	5.096	7.2	21.2
506131	2016 <i>CL</i> ₂₄₇		9 30.1 306°27'	16°6'	7.9	17	337158	1999 <i>UP</i> ₇		9 30.1 179°19'	6°8'	24.6	18
8 29	0 59.75	+29 33.8	1.107	1.895	25.2	20.7	8 29	1 1.02	-19 12.3	2.233	3.094	11.5	20.7
9 8	0 53.59	+32 14.0	1.036	1.884	22.5	20.4	9 8	0 51.77	-19 35.3	2.176	3.096	9.1	20.6
9 18	0 43.13	+34 24.3	0.982	1.873	19.7	20.2	9 18	0 40.70	-19 47.9	2.146	3.097	7.2	20.4
9 28	0 29.22	+35 50.8	0.945	1.862	17.5	20.0	9 28	0 28.66	-19 44.4	2.145	3.097	6.9	20.4
10 8	0 13.78	+36 24.5	0.927	1.852	16.6	20.0	10 8	0 16.66	-19 21.3	2.173	3.097	8.4	20.5
10 18	23 59.35	+36 5.6	0.929	1.842	17.5	20.0	10 18	0 5.70	-18 38.0	2.230	3.097	10.7	20.7
10 28	23 48.37	+35 5.8	0.949	1.833	19.8	20.1	10 28	23 56.60	-17 35.9	2.312	3.095	13.1	20.8
11 7	23 42.29	+33 43.6	0.986	1.824	22.7	20.3	11 7	23 49.83	-16 18.5	2.416	3.094	15.2	21.0
63234	2001 <i>BB</i> ₂₀		9 30.1 151°21'	2°2'	4.7	18	446554	2014 <i>NG</i> ₄₅		9 30.1 202°71'	1°7'	27.8	18
8 29	0 40.94	+16 23.3	4.747	5.546	6.9	19.7	8 29	0 43.87	+1 26.1	2.298	3.179	10.5	21.2
9 8	0 36.94	+16 22.9	4.663	5.548	5.4	19.6	9 8	0 39.59	+0 2.8	2.231	3.179	7.4	21.0
9 18	0 32.25	+16 14.5	4.605	5.551	3.9	19.5	9 18	0 33.95	-1 29.0	2.190	3.178	4.0	20.8
9 28	0 27.16	+15 58.9	4.576	5.553	2.5	19.4	9 28	0 27.49	-3 3.4	2.178	3.177	1.7	20.6
10 8	0 21.99	+15 37.4	4.576	5.555	2.3	19.4	10 8	0 20.92	-4 33.4	2.195	3.175	4.2	20.8
10 18	0 17.09	+15 12.0	4.606	5.557	3.4	19.5	10 18	0 14.94	-5 52.8	2.241	3.174	7.5	21.0
10 28	0 12.78	+14 44.9	4.666	5.559	4.9	19.6	10 28	0 10.17	-6 56.8	2.314	3.173	10.6	21.2
11 7	0 9.33	+14 18.4	4.752	5.561	6.4	19.7	11 7	0 7.08	-7 42.6	2.409	3.171	13.1	21.4
8905	Bankakuko		9 30.1 7°45'	5°7'	26.5	18	257594	1999 <i>RA</i> ₃₁		9 30.1 331°65'	12°1'	30.9	18
8 29	0 45.17	-7 3.1	0.979	1.906	17.0	16.5	8 29	1 4.96	+13 35.1	0.994	1.853	22.5	18.0
9 8	0 41.72	-7 43.5	0.941	1.907	12.2	16.2	9 8	0 58.03	+17 0.4	0.905	1.821	18.8	17.6
9 18	0 35.52	-8 24.1	0.922	1.911	7.7	16.0	9 18	0 46.19	+20 27.6	0.836	1.789	14.9	17.3
9 28	0 27.75	-8 54.8	0.924	1.917	5.8	15.9	9 28	0 29.92	+23 42.0	0.790	1.760	12.2	17.0
10 8	0 19.94	-9 6.6	0.948	1.925	8.9	16.1	10 8	0 11.01	+26 26.4	0.768	1.732	13.1	17.0
10 18	0 13.56	-8 54.7	0.993	1.934	13.5	16.4	10 18	23 52.26	+28 29.0	0.769	1.706	17.0	17.1
10 28	0 9.72	-8 17.9	1.057	1.946	17.8	16.7	10 28	23 36.79	+29 51.1	0.790	1.682	21.9	17.3
11 7	0 8.96	-7 18.6	1.139	1.960	21.4	17.0	11 7	23 26.71	+30 44.9	0.827	1.661	26.4	17.5
282316	2002 <i>TG</i> ₁₃₆		9 30.1 44°86'	5°5'	4.9	18	172824	2004 <i>XA</i>		9 30.1 230°16'	19°1'	20.3	17
8 29	0 50.10	+17 48.4	1.602	2.433	16.7	19.9	8 29	0 55.14	+45 45.9	1.347	2.008	26.9	19.5
9 8	0 44.59	+18 11.8	1.545	2.446	13.3	19.8	9 8	0 50.00	+47 30.0	1.278	2.005	25.2	19.3
9 18	0 36.93	+18 12.5	1.508	2.459	9.6	19.6	9 18	0 40.88	+48 31.3	1.219	2.001	23.3	19.1
9 28	0 28.00	+17 50.8	1.495	2.473	6.4	19.4	9 28	0 28.81	+48 38.2	1.172	1.998	21.4	19.0
10 8	0 18.94	+17 10.7	1.507	2.488	5.7	19.4	10 8	0 15.79	+47 44.2	1.141	1.994	19.9	18.9
10 18	0 10.91	+16 18.6	1.546	2.502	8.1	19.6	10 18	0 4.18	+45 51.0	1.126	1.990	19.1	18.8
10 28	0 4.87	+15 23.0	1.609	2.517	11.5	19.8	10 28	23 56.05	+43 10.6	1.130	1.986	19.4	18.8
11 7	0 1.39	+14 31.9	1.695	2.533	14.7	20.1	11 7	23 52.47	+40 2.3	1.152	1.981	20.7	18.9
159156	2004 <i>XK</i> ₁₆₆		9 30.1 144°08'	1°1'	28.9	18	167480	2003 <i>YZ</i> ₅₄		9 30.1 307°87'	1°7'	1.6	18
8 29	0 46.26	+1 12.9	2.370	3.246	10.4	20.8	8 29	0 46.64	+9 29.3	1.607	2.476	14.8	20.4
9 8	0 41.24	+0 38.1	2.304	3.248	7.4	20.6	9 8	0 42.34	+9 8.2	1.520	2.455	11.1	20.2
9 18	0 34.83	-0 3.0	2.264	3.250	4.0	20.4	9 18	0 35.84	+8 29.0	1.454	2.433	6.9	19.9
9 28	0 27.63	-0 46.5	2.252	3.252	1.1	20.2	9 28	0 27.87	+7 34.7	1.414	2.412	2.5	19.5
10 8	0 20.33	-1 27.7	2.269	3.254	3.5	20.4	10 8	0 19.45	+6 31.3	1.399	2.392	3.7	19.6
10 18	0 13.63	-2 2.3	2.314	3.256	6.8	20.6	10 18	0 11.72	+5 26.5	1.411	2.371	8.4	19.8
10 28	0 8.19	-2 26.8	2.386	3.258	9.8	20.8	10 28	0 5.76	+4 28.8	1.448	2.351	12.9	20.0
11 7	0 4.44	-2 39.0	2.481	3.259	12.4	21.0	11 7	0 2.31	+3 44.8	1.506	2.332	16.8	20.2
10201	Korado		9 30.1 66°86'	0°3'	30.4	18	39723	1996 <i>VJ</i> ₈		9 30.1 317°70'	1°5'	1.2	18
8 29	0 50.89	+7 47.8	1.148										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
427944	2005 WZ ₁₀₉		9 30.1 296°08	2°2/ 3.2 16			322520	2011 YD ₈		9 30.1 271°01	2°8/ 5.9 18		
8 29	0 42.91	+13 16.6	2.979	3.810	9.8	21.7	8 29	0 40.32	+19 30.9	4.400	5.184	7.6	20.8
9 8	0 38.79	+12 58.5	2.879	3.788	7.5	21.5	9 8	0 36.60	+19 24.6	4.311	5.181	6.2	20.7
9 18	0 33.48	+12 28.2	2.803	3.766	5.0	21.3	9 18	0 32.13	+19 8.4	4.246	5.178	4.6	20.6
9 28	0 27.42	+11 47.4	2.754	3.745	2.7	21.2	9 28	0 27.21	+18 43.0	4.208	5.175	3.2	20.5
10 8	0 21.16	+10 59.1	2.735	3.723	2.6	21.1	10 8	0 22.20	+18 9.9	4.200	5.173	2.8	20.5
10 18	0 15.26	+10 6.8	2.745	3.702	5.0	21.3	10 18	0 17.47	+17 31.5	4.221	5.170	3.7	20.5
10 28	0 10.29	+9 15.2	2.783	3.680	7.7	21.4	10 28	0 13.39	+16 50.5	4.271	5.167	5.2	20.7
11 7	0 6.68	+8 28.4	2.847	3.658	10.1	21.5	11 7	0 10.22	+16 9.7	4.348	5.165	6.8	20.8
139019	2001 DK ₆₁		9 30.1 300°03	4°3/ 3.2 18			136446	2005 EO ₁₁₅		9 30.1 145°64	1°6/28.2 18		
8 29	0 51.03	+13 26.2	1.371	2.229	17.5	19.6	8 29	0 47.98	+0 14.1	2.299	3.175	10.7	20.4
9 8	0 45.80	+13 42.5	1.296	2.219	13.7	19.4	9 8	0 42.47	-0 40.5	2.241	3.185	7.5	20.2
9 18	0 37.91	+13 37.0	1.241	2.210	9.2	19.1	9 18	0 35.54	-1 41.3	2.208	3.195	4.1	20.0
9 28	0 28.24	+13 10.3	1.209	2.200	5.2	18.9	9 28	0 27.81	-2 43.2	2.204	3.203	1.6	19.9
10 8	0 18.10	+12 26.7	1.202	2.191	5.1	18.8	10 8	0 20.03	-3 40.5	2.230	3.212	4.0	20.0
10 18	0 8.92	+11 33.6	1.220	2.182	9.2	19.0	10 18	0 12.94	-4 28.6	2.284	3.219	7.3	20.3
10 28	0 1.97	+10 40.8	1.262	2.173	13.8	19.3	10 28	0 7.18	-5 3.7	2.365	3.226	10.3	20.5
11 7	23 58.06	+9 56.7	1.324	2.165	17.9	19.5	11 7	0 3.19	-5 23.9	2.469	3.233	12.8	20.7
178167	2006 UH ₄₆		9 30.1 11°13	0°6/29.5 18			474287	2001 WD ₂₆		9 30.1 341°24	3°9/27.5 18		
8 29	0 46.22	+3 44.1	1.693	2.578	13.4	20.6	8 29	0 46.48	-3 3.3	1.120	2.035	16.3	20.5
9 8	0 41.67	+3 3.0	1.632	2.579	9.6	20.4	9 8	0 42.72	-3 44.5	1.059	2.021	11.7	20.2
9 18	0 35.26	+2 10.3	1.594	2.581	5.3	20.1	9 18	0 36.23	-4 33.3	1.018	2.008	6.8	19.9
9 28	0 27.74	+1 11.7	1.581	2.583	0.9	19.8	9 28	0 27.98	-5 20.7	1.000	1.997	3.9	19.7
10 8	0 20.10	+0 14.0	1.596	2.585	4.0	20.0	10 8	0 19.37	-5 56.9	1.004	1.987	7.4	19.8
10 18	0 13.29	-0 36.0	1.638	2.588	8.3	20.3	10 18	0 11.88	-6 14.3	1.032	1.978	12.5	20.1
10 28	0 8.16	-1 12.9	1.704	2.591	12.2	20.6	10 28	0 6.79	-6 8.1	1.079	1.971	17.3	20.4
11 7	0 5.26	-1 33.3	1.791	2.595	15.4	20.8	11 7	0 4.82	-5 37.7	1.144	1.965	21.3	20.6
482367	2011 YL ₁₄		9 30.1 188°00	4°6/ 5.5 18			265037	2003 OT ₃₀		9 30.1 328°04	6°6/ 5.3 17		
8 29	0 48.13	+19 41.1	2.498	3.294	12.4	21.3	8 29	0 49.86	+19 20.0	1.836	2.650	15.6	19.7
9 8	0 42.69	+19 51.4	2.416	3.294	10.1	21.2	9 8	0 44.63	+20 15.7	1.745	2.632	12.8	19.5
9 18	0 35.73	+19 44.9	2.357	3.293	7.5	21.0	9 18	0 37.17	+20 52.9	1.676	2.614	9.8	19.2
9 28	0 27.83	+19 21.8	2.323	3.293	5.3	20.9	9 28	0 28.16	+21 9.2	1.630	2.597	7.3	19.1
10 8	0 19.74	+18 44.4	2.318	3.291	4.6	20.8	10 8	0 18.60	+21 5.0	1.610	2.581	6.7	19.0
10 18	0 12.21	+17 56.8	2.341	3.290	6.2	20.9	10 18	0 9.64	+20 43.4	1.616	2.565	8.6	19.1
10 28	0 5.96	+17 4.5	2.391	3.289	8.7	21.1	10 28	0 2.38	+20 11.0	1.648	2.549	11.7	19.2
11 7	0 1.50	+16 13.3	2.467	3.287	11.2	21.2	11 7	23 57.60	+19 35.3	1.701	2.535	14.8	19.4
442812	2013 AQ ₄₃		9 30.1 293°58	8°6/20.7 18			124069	2001 FY ₁₇₆		9 30.1 268°60	5°6/22.7 18		
8 29	0 47.93	-17 22.6	1.740	2.637	12.5	21.0	8 29	0 45.17	-12 52.9	2.301	3.194	10.0	19.6
9 8	0 43.11	-19 1.9	1.676	2.614	10.1	20.8	9 8	0 40.62	-14 18.5	2.239	3.183	7.6	19.4
9 18	0 36.19	-20 35.3	1.635	2.591	8.7	20.6	9 18	0 34.59	-15 41.8	2.203	3.171	5.9	19.3
9 28	0 27.93	-21 52.5	1.620	2.568	9.1	20.6	9 28	0 27.66	-16 55.8	2.195	3.159	5.9	19.3
10 8	0 19.36	-22 44.6	1.630	2.545	11.3	20.7	10 8	0 20.58	-17 54.1	2.215	3.147	7.8	19.4
10 18	0 11.56	-23 6.8	1.662	2.522	14.1	20.8	10 18	0 14.08	-18 32.6	2.260	3.135	10.3	19.5
10 28	0 5.51	-22 57.7	1.715	2.499	17.0	21.0	10 28	0 8.85	-18 49.2	2.328	3.123	12.7	19.7
11 7	0 1.87	-22 19.9	1.785	2.476	19.4	21.1	11 7	0 5.39	-18 44.3	2.416	3.111	14.8	19.8
389525	2010 JU ₁		9 30.1 146°22	6°4/22.9 18			155518	1999 RS ₂₁₇		9 30.1 6°26	2°4/ 2.2 18		
8 29	0 50.66	-16 11.0	2.249	3.131	10.6	21.9	8 29	0 48.71	+10 1.4	1.791	2.649	14.0	20.2
9 8	0 44.38	-17 18.9	2.208	3.141	8.2	21.8	9 8	0 43.48	+10 11.4	1.722	2.650	10.6	20.0
9 18	0 36.58	-18 19.9	2.193	3.151	6.6	21.7	9 18	0 36.32	+10 7.0	1.676	2.650	6.7	19.7
9 28	0 27.97	-19 7.5	2.205	3.160	6.6	21.7	9 28	0 27.98	+9 50.1	1.656	2.652	3.1	19.5
10 8	0 19.37	-19 36.9	2.245	3.168	8.2	21.8	10 8	0 19.44	+9 24.5	1.663	2.654	3.5	19.6
10 18	0 11.58	-19 45.4	2.311	3.176	10.5	22.0	10 18	0 11.71	+8 55.3	1.697	2.656	7.3	19.8
10 28	0 5.30	-19 32.9	2.400	3.183	12.7	22.2	10 28	0 5.66	+8 28.5	1.757	2.659	11.0	20.0
11 7	0 0.95	-19 1.3	2.509	3.190	14.6	22.3	11 7	0 1.90	+8 8.9	1.838	2.662	14.3	20.3
255023	2005 TT ₅₅		9 30.1 45°55	1°5/28.6 18			523257	2017 AD ₂₃		9 30.1 293°39	2°3/27.7 17		
8 29	0 46.62	+1 6.1	1.887	2.772	12.2	20.4	8 29	0 46.66	-2 33.5	2.203	3.088	10.7	21.5
9 8	0 41.77	+0 20.7	1.829	2.777	8.6	20.2	9 8	0 41.74	-3 10.7	2.125	3.074	7.6	21.3
9 18	0 35.24	-0 32.7	1.795	2.783	4.7	20.0	9 18	0 35.25	-3 52.5	2.073	3.060	4.3	21.1
9 28	0 27.75	-1 28.5	1.789	2.789	1.5	19.8	9 28	0 27.79	-4 34.0	2.048	3.045	2.3	20.9
10 8	0 20.18	-2 20.5	1.810	2.795	4.2	20.0	10 8	0 20.12	-5 10.1	2.052	3.031	4.6	21.1
10 18	0 13.40	-3 3.1	1.858	2.801	8.1	20.2	10 18	0 13.03	-5 36.4	2.084	3.017	8.0	21.3
10 28	0 8.17	-3 31.8	1.932	2.808	11.6	20.5	10 28	0 7.26	-5 49.6	2.141	3.003	11.2	21.4
11 7	0 4.96	-3 44.6	2.027	2.814	14.5	20.7	11 7	0 3.33	-5 47.9	2.220	2.989	13.9	21.6
96318	1997 CN ₁		9 30.1 284°53	1°9/28.5 18			97228	1999 XW ₅₆		9 30.1 313°97	6°1/23.7 18		
8 29	0 49.65	-0 18.1	1.715	2.602	13.1	19.2	8 29	0 47.91	-13 55.2	2.042	2.935	11.1	19.0
9 8	0 44.33	-0 53.1	1.634	2.584	9.4	19.0	9 8	0 42.67	-14 51.9	1.985	2.928	8.5	18.8
9 18	0 36.90	-1 36.4	1.577	2.565	5.3	18.7	9 18	0 35.76	-15 44.0	1.952	2.921	6.5	18.7
9 28	0 28.08	-2 22.4	1.546	2.546	2.0	18.4	9 28	0 27.87	-16 24.6	1.947	2.914	6.3	18.7
10 8	0 18.89	-3 4.4	1.542	2.527	5.0	18.6	10 8	0 19.87	-16 48.2	1.967	2.907	8.1	18.8
10 18	0 10.42	-3 36.2	1.565	2.508	9.4	18.8	10 18	0 12.61	-16 51.5	2.014	2.901	10.8	18.9
10 28	0 3.69	-3 53.1	1.613	2.488	13.5	19.0	10 28	0 6.87	-16 33.7	2.083	2.895	13.4	19.1
11 7	23 59.37	-3 52.5	1.681	2.469	16.9	19.2	11 7	0 3.14	-15 56.1	2.172	2.889	15.7	19.2
347048	2010 ET ₁₂₄		9 30.1 129°17	1°5/ 1.8 18			410934	2009 SA ₂₇₀		9 30.1 43°30	1°2/29.0 18		
8 29	0 48.34	+10 22.9	1.954	2.807	13.2	21.2	8 29	0 49.46	+0 12.8	1.839	2.722	12.6	20.9
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
325487	2009 <i>RP</i> ₁₂	9 30.1 50°24' 0.6"/29.7 16					494686	2004 <i>CD</i> ₅₀	9 30.1 208°28' 14.2"/14.9 17				
8 29	0 51.47	+ 3 57.5	1.166	2.060	17.4	20.5	8 29	0 48.96	-18 40.3	1.005	1.923	17.4	20.5
9 8	0 45.76	+ 3 22.6	1.132	2.083	12.4	20.3	9 8	0 44.78	-22 52.5	0.978	1.922	14.8	20.4
9 18	0 37.60	+ 2 33.9	1.119	2.107	6.8	20.1	9 18	0 37.47	-26 49.2	0.974	1.920	14.3	20.4
9 28	0 28.18	+ 1 38.7	1.129	2.131	1.1	19.8	9 28	0 28.23	-30 4.7	0.994	1.918	16.2	20.5
10 8	0 18.93	+ 0 46.2	1.165	2.155	4.8	20.1	10 8	0 18.77	-32 22.1	1.034	1.915	19.2	20.7
10 18	0 11.17	+ 0 4.3	1.225	2.180	10.0	20.5	10 18	0 10.79	-33 36.2	1.091	1.912	22.5	20.9
10 28	0 5.87	- 0 21.3	1.307	2.205	14.4	20.8	10 28	0 5.65	-33 51.6	1.162	1.909	25.4	21.1
11 7	0 3.48	- 0 28.2	1.409	2.230	18.0	21.1	11 7	0 4.01	-33 18.4	1.243	1.906	27.7	21.3
463417	2013 <i>HO</i> ₈₉	9 30.1 47°28' 1.5"/ 1.1 17					313327	2002 <i>ET</i> ₁₆₂	9 30.1 97°75' 2.1"/ 1.6 17				
8 29	0 50.94	+ 8 17.3	1.044	1.935	19.2	21.2	8 29	0 55.29	+ 8 31.7	1.414	2.281	16.6	20.8
9 8	0 45.81	+ 7 55.2	1.000	1.947	14.2	21.0	9 8	0 48.48	+ 8 38.1	1.360	2.293	12.4	20.6
9 18	0 37.84	+ 7 11.3	0.976	1.960	8.4	20.7	9 18	0 39.22	+ 8 28.1	1.326	2.305	7.5	20.4
9 28	0 28.25	+ 6 11.7	0.973	1.973	2.5	20.4	9 28	0 28.52	+ 8 4.5	1.318	2.316	2.8	20.1
10 8	0 18.64	+ 5 6.2	0.994	1.987	4.5	20.6	10 8	0 17.74	+ 7 32.8	1.336	2.328	4.0	20.2
10 18	0 10.53	+ 4 5.6	1.038	2.001	10.2	20.9	10 18	0 8.19	+ 6 59.8	1.381	2.339	8.7	20.5
10 28	0 5.13	+ 3 19.0	1.105	2.015	15.3	21.3	10 28	0 0.96	+ 6 32.3	1.450	2.350	13.1	20.8
11 7	0 2.98	+ 2 51.9	1.189	2.030	19.4	21.6	11 7	23 56.64	+ 6 15.6	1.541	2.361	16.7	21.1
54890	2001 <i>OS</i> ₆₅	9 30.1 23°28' 1.8"/28.7 18					353747	2011 <i>YK</i> ₅₇	9 30.1 309°89' 1.7"/26.6 18				
8 29	0 47.90	+ 1 36.3	1.193	2.096	16.4	18.6	8 29	0 39.80	- 5 19.5	4.340	5.222	5.9	20.6
9 8	0 43.39	+ 0 49.9	1.145	2.102	11.7	18.3	9 8	0 36.20	- 5 52.6	4.273	5.219	4.2	20.5
9 18	0 36.41	- 0 8.6	1.118	2.108	6.4	18.1	9 18	0 31.91	- 6 26.5	4.233	5.217	2.5	20.4
9 28	0 28.00	- 1 11.1	1.115	2.116	1.9	17.8	9 28	0 27.22	- 6 58.8	4.222	5.214	1.8	20.3
10 8	0 19.51	- 2 8.1	1.136	2.124	5.6	18.1	10 8	0 22.47	- 7 27.2	4.242	5.211	3.0	20.4
10 18	0 12.26	- 2 51.1	1.182	2.133	10.7	18.4	10 18	0 18.00	- 7 49.6	4.291	5.209	4.7	20.6
10 28	0 7.32	- 3 14.3	1.249	2.143	15.2	18.7	10 28	0 14.15	- 8 4.4	4.367	5.206	6.4	20.7
11 7	0 5.24	- 3 15.9	1.335	2.153	19.0	19.0	11 7	0 11.17	- 8 10.6	4.468	5.204	7.9	20.8
202956	1999 <i>RR</i> ₉₁	9 30.1 350°94' 2.1"/28.5 18					472663	2015 <i>DB</i> ₂₂₃	9 30.1 204°23' 1.9"/ 1.8 18				
8 29	0 42.44	+ 1 42.1	1.125	2.038	16.4	18.9	8 29	0 50.77	+10 16.2	1.765	2.620	14.4	21.8
9 8	0 39.73	+ 0 49.7	1.066	2.027	11.7	18.6	9 8	0 45.03	+ 9 53.1	1.690	2.616	10.8	21.6
9 18	0 34.50	- 0 17.5	1.027	2.018	6.5	18.3	9 18	0 37.25	+ 9 13.1	1.637	2.613	6.7	21.4
9 28	0 27.69	- 1 30.8	1.010	2.011	2.1	18.0	9 28	0 28.19	+ 8 19.2	1.611	2.609	2.6	21.1
10 8	0 20.59	- 2 39.2	1.017	2.005	6.0	18.2	10 8	0 18.88	+ 7 17.4	1.613	2.604	3.5	21.1
10 18	0 14.55	- 3 32.6	1.047	2.001	11.4	18.5	10 18	0 10.38	+ 6 14.6	1.642	2.599	7.7	21.4
10 28	0 10.73	- 4 3.7	1.098	1.999	16.2	18.8	10 28	0 3.65	+ 5 18.3	1.697	2.593	11.7	21.6
11 7	0 9.81	- 4 9.5	1.166	1.998	20.3	19.0	11 7	23 59.31	+ 4 34.2	1.775	2.587	15.2	21.9
59999	1999 <i>TP</i> ₃	9 30.1 340°10' 1.3"/29.1 18					402197	2004 <i>TJ</i> ₂₂₈	9 30.1 238°57' 0.1"/30.2 18				
8 29	0 49.68	- 0 10.4	1.900	2.782	12.3	17.6	8 29	0 47.53	+ 4 38.5	2.296	3.162	11.1	21.2
9 8	0 44.06	- 0 19.0	1.831	2.777	8.8	17.3	9 8	0 42.28	+ 4 19.4	2.222	3.159	8.0	21.0
9 18	0 36.60	- 0 33.2	1.786	2.773	4.9	17.1	9 18	0 35.53	+ 3 51.6	2.172	3.156	4.5	20.8
9 28	0 28.04	- 0 49.1	1.768	2.769	1.3	16.8	9 28	0 27.87	+ 3 18.1	2.151	3.152	0.8	20.5
10 8	0 19.30	- 1 2.3	1.778	2.765	4.0	17.0	10 8	0 20.06	+ 2 43.3	2.158	3.149	2.9	20.7
10 18	0 11.33	- 1 8.8	1.816	2.762	8.0	17.3	10 18	0 12.85	+ 2 11.3	2.194	3.145	6.5	20.9
10 28	0 4.96	- 1 5.2	1.879	2.759	11.6	17.5	10 28	0 6.94	+ 1 46.5	2.257	3.141	9.8	21.1
11 7	0 0.75	- 0 49.7	1.964	2.756	14.7	17.7	11 7	0 2.83	+ 1 31.7	2.344	3.137	12.6	21.3
344025	2012 <i>HK</i> ₄₁	9 30.1 166°96' 1.3"/ 1.3 17					181825	1998 <i>SR</i> ₃₉	9 30.1 50°41' 0.4"/30.6 18				
8 29	0 50.25	+ 9 31.5	1.626	2.489	15.0	21.4	8 29	0 46.43	+ 8 58.1	1.756	2.623	13.9	19.0
9 8	0 44.69	+ 8 50.0	1.559	2.492	11.1	21.1	9 8	0 41.52	+ 7 41.3	1.722	2.659	10.0	18.8
9 18	0 37.04	+ 7 50.4	1.515	2.495	6.6	20.9	9 18	0 35.02	+ 6 10.1	1.712	2.694	5.7	18.7
9 28	0 28.12	+ 6 37.2	1.497	2.497	2.1	20.6	9 28	0 27.75	+ 4 31.3	1.729	2.730	1.3	18.4
10 8	0 19.04	+ 5 18.1	1.507	2.499	3.6	20.7	10 8	0 20.64	+ 2 53.4	1.774	2.765	3.2	18.7
10 18	0 10.88	+ 4 1.5	1.544	2.500	8.2	21.0	10 18	0 14.50	+ 1 24.4	1.848	2.801	7.3	19.0
10 28	0 4.62	+ 2 55.5	1.606	2.501	12.4	21.3	10 28	0 10.01	+ 0 10.4	1.947	2.837	10.8	19.3
11 7	0 0.85	+ 2 5.7	1.690	2.501	15.9	21.5	11 7	0 7.56	- 0 44.9	2.069	2.872	13.7	19.6
289861	2005 <i>MQ</i> ₁₁	9 30.1 328°14' 4.4"/21.2 16					36135	1999 <i>RO</i> ₁₆₃	9 30.1 69°11' 1.7"/ 1.7 18				
8 29	0 40.76	-18 43.0	3.947	4.826	6.5	19.8	8 29	0 50.14	+10 1.4	1.571	2.434	15.4	18.6
9 8	0 36.96	-19 33.3	3.896	4.822	5.2	19.7	9 8	0 44.45	+ 9 30.7	1.526	2.458	11.4	18.4
9 18	0 32.35	-20 18.8	3.872	4.818	4.5	19.6	9 18	0 36.79	+ 8 42.8	1.503	2.481	6.9	18.2
9 28	0 27.28	-20 56.0	3.876	4.814	4.7	19.7	9 28	0 28.08	+ 7 42.4	1.506	2.504	2.5	18.0
10 8	0 22.16	-21 22.4	3.908	4.810	5.7	19.7	10 8	0 19.44	+ 6 36.5	1.535	2.527	3.5	18.1
10 18	0 17.38	-21 36.2	3.966	4.807	7.0	19.8	10 18	0 11.91	+ 5 33.0	1.592	2.550	7.8	18.4
10 28	0 13.33	-21 36.5	4.049	4.803	8.4	19.9	10 28	0 6.32	+ 4 39.0	1.674	2.573	11.7	18.7
11 7	0 10.31	-21 23.6	4.152	4.800	9.6	20.0	11 7	0 3.16	+ 3 59.1	1.778	2.596	15.0	19.0
257464	1993 <i>FC</i> ₂₆	9 30.1 181°05' 0.8"/30.9 17					480687	2015 <i>PB</i> ₄₉	9 30.1 276°99' 3.0"/27.2 16				
8 29	0 51.31	+ 7 30.4	1.899	2.759	13.3	21.3	8 29	0 48.24	- 3 28.5	1.888	2.778	11.9	21.2
9 8	0 45.23	+ 7 2.4	1.828	2.760	9.8	21.1	9 8	0 43.02	- 4 16.0	1.824	2.775	8.5	21.0
9 18	0 37.27	+ 6 20.8	1.781	2.761	5.7	20.8	9 18	0 36.03	- 5 7.7	1.784	2.771	4.9	20.8
9 28	0 28.18	+ 5 29.4	1.761	2.761	1.5	20.5	9 28	0 27.97	- 5 57.6	1.772	2.767	3.0	20.7
10 8	0 18.90	+ 4 34.0	1.769	2.760	3.3	20.7	10 8	0 19.76	- 6 39.5	1.787	2.764	5.5	20.8
10 18	0 10.43	+ 3 40.7	1.806	2.759	7.5	20.9	10 18	0 12.32	- 7 8.4	1.829	2.760	9.1	21.0
10 28	0 3.63	+ 2 55.7	1.869	2.757	11.3	21.2	10 28	0 6.47	- 7 20.7	1.896	2.756	12.5	21.2
11 7	23 59.06	+ 2 23.3	1.955	2.755	14.5	21.4	11 7	0 2.73	- 7 15.5	1.984	2.753	15.4	21.4
23783	Alyssachan	9 30.1 143°51' 1.3"/ 1.4 18					275508	1995 <i>UR</i> ₈₁	9 30.1 4°31' 1.5"/30.9 18				
8 29	0 49.28	+ 9 56.1	1.618	2.481	15.0	18.2	8 29	0 46.29	+ 5 32.7	0.877	1.790	19.8	19.2
9 8	0 43.99	+ 9 10.8	1.554	2.486	11.1	17.9	9 8	0 42.96	+ 5 55.0	0.830	1.788	14.7	18.9

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
406972	2009 <i>QZ</i> ₄₄		9 30.1 334°80	2°9/ 2.8 17			469710	2005 <i>JM</i> ₄₅		9 30.1 127°09	12°1/16.9 16		
8 29	0 48.56	+11 55.0	2.033	2.878	13.1	20.7	8 29	0 56.51	-31 45.1	1.905	2.752	13.8	21.9
9 8	0 43.26	+12 5.6	1.956	2.874	10.1	20.5	9 8	0 48.84	-33 33.0	1.896	2.771	12.5	21.8
9 18	0 36.19	+12 1.8	1.902	2.870	6.6	20.3	9 18	0 39.17	-34 57.8	1.911	2.790	12.1	21.9
9 28	0 28.01	+11 45.1	1.874	2.866	3.5	20.1	9 28	0 28.51	-35 51.1	1.949	2.808	12.7	21.9
10 8	0 19.59	+11 18.5	1.874	2.862	3.6	20.1	10 8	0 18.06	-36 8.9	2.010	2.825	13.9	22.1
10 18	0 11.85	+10 46.7	1.901	2.859	6.8	20.3	10 18	0 8.92	-35 52.0	2.091	2.841	15.5	22.2
10 28	0 5.60	+10 15.1	1.955	2.856	10.2	20.5	10 28	0 1.91	-35 4.2	2.190	2.856	16.9	22.4
11 7	0 1.42	+9 49.0	2.033	2.853	13.2	20.7	11 7	23 57.48	-33 51.7	2.303	2.871	18.2	22.5
89077	2001 <i>TU</i> ₁₅₉		9 30.1 304°44	4°8/24.6 18			12761	Pauwels		9 30.1 154°02	0°4/30.8 18		
8 29	0 44.40	- 6 6.5	1.814	2.715	11.8	19.3	8 29	0 44.21	+ 8 42.9	2.404	3.261	11.0	18.8
9 8	0 40.40	- 7 48.2	1.748	2.703	8.5	19.1	9 8	0 39.84	+ 7 36.0	2.332	3.263	8.0	18.6
9 18	0 34.62	- 9 34.7	1.707	2.690	5.6	18.9	9 18	0 34.13	+ 6 16.1	2.286	3.266	4.6	18.4
9 28	0 27.74	-11 16.9	1.693	2.678	5.0	18.8	9 28	0 27.65	+ 4 47.6	2.268	3.268	1.1	18.1
10 8	0 20.63	-12 45.6	1.706	2.665	7.5	18.9	10 8	0 21.08	+ 3 16.6	2.280	3.271	2.7	18.2
10 18	0 14.21	-13 53.6	1.745	2.653	10.9	19.1	10 18	0 15.08	+ 1 49.4	2.321	3.273	6.2	18.5
10 28	0 9.33	-14 36.6	1.808	2.642	14.2	19.3	10 28	0 10.27	+ 0 32.0	2.391	3.275	9.3	18.7
11 7	0 6.53	-14 53.9	1.889	2.630	17.0	19.5	11 7	0 7.09	- 0 31.5	2.484	3.276	12.0	18.9
429212	2009 <i>WC</i> ₂₂₆		9 30.1 80°13	3°1/27.7 16			450755	2007 <i>JF</i> ₃₈		9 30.1 264°99	3°3/ 4.5 18		
8 29	0 52.33	- 2 41.3	1.486	2.380	14.4	21.2	8 29	0 44.42	+17 32.7	2.363	3.181	12.4	21.2
9 8	0 46.08	- 3 27.2	1.445	2.396	10.2	21.0	9 8	0 40.14	+16 53.0	2.273	3.171	9.8	21.0
9 18	0 37.74	- 4 17.7	1.426	2.413	5.8	20.7	9 18	0 34.38	+15 54.3	2.206	3.160	6.8	20.8
9 28	0 28.27	- 5 5.7	1.433	2.430	3.1	20.6	9 28	0 27.71	+14 38.4	2.165	3.150	4.1	20.6
10 8	0 18.87	- 5 43.9	1.467	2.446	5.9	20.8	10 8	0 20.84	+13 10.2	2.153	3.140	3.5	20.6
10 18	0 10.66	- 6 6.9	1.527	2.463	10.1	21.1	10 18	0 14.52	+11 35.8	2.171	3.129	6.0	20.7
10 28	0 4.56	- 6 11.8	1.610	2.479	13.8	21.4	10 28	0 9.44	+10 2.6	2.216	3.119	9.1	20.9
11 7	0 1.02	- 5 58.3	1.713	2.495	16.9	21.7	11 7	0 6.10	+ 8 37.4	2.287	3.108	11.9	21.1
351185	2004 <i>CE</i> ₁		9 30.1 195°44	11°0/15.4 18			60672	2000 <i>GE</i> ₁₀		9 30.1 279°50	0°8/29.4 18		
8 29	0 51.92	-33 2.8	2.263	3.103	12.1	20.8	8 29	0 48.08	+ 2 58.7	1.854	2.733	12.7	19.9
9 8	0 45.54	-34 31.3	2.235	3.102	11.2	20.7	9 8	0 43.05	+ 2 23.8	1.776	2.721	9.1	19.6
9 18	0 37.37	-35 40.9	2.231	3.100	11.0	20.7	9 18	0 36.15	+ 1 38.4	1.722	2.708	5.1	19.4
9 28	0 28.20	-36 24.4	2.249	3.097	11.6	20.7	9 28	0 28.04	+ 0 47.4	1.695	2.696	1.0	19.1
10 8	0 19.04	-36 37.7	2.291	3.094	12.8	20.8	10 8	0 19.67	- 0 3.3	1.695	2.683	3.9	19.3
10 18	0 10.80	-36 20.2	2.352	3.091	14.2	20.9	10 18	0 11.98	- 0 47.4	1.723	2.671	8.2	19.5
10 28	0 4.29	-35 34.2	2.432	3.088	15.7	21.0	10 28	0 5.88	- 1 19.7	1.776	2.658	12.1	19.7
11 7	23 59.99	-34 24.4	2.527	3.084	16.9	21.2	11 7	0 1.97	- 1 36.7	1.851	2.646	15.3	19.9
72749	2001 <i>FX</i> ₁₂₆		9 30.1 105°59	4°0/26.5 18			209658	2005 <i>CF</i> ₂₇		9 30.1 315°33	8°1/21.8 18		
8 29	0 52.76	-10 11.1	2.331	3.211	10.4	18.8	8 29	0 45.63	-13 5.0	1.486	2.395	13.4	19.9
9 8	0 45.87	-10 26.2	2.274	3.216	7.6	18.7	9 8	0 41.66	-14 58.1	1.428	2.379	10.3	19.7
9 18	0 37.46	-10 38.4	2.243	3.221	5.0	18.5	9 18	0 35.50	-16 49.1	1.393	2.363	8.3	19.6
9 28	0 28.22	-10 43.5	2.241	3.225	4.0	18.5	9 28	0 27.93	-18 26.0	1.383	2.347	8.6	19.5
10 8	0 18.97	-10 37.9	2.268	3.230	5.7	18.6	10 8	0 20.09	-19 38.1	1.397	2.332	11.2	19.7
10 18	0 10.49	-10 19.7	2.323	3.235	8.4	18.8	10 18	0 13.12	-20 18.7	1.434	2.318	14.5	19.8
10 28	0 3.49	- 9 48.2	2.405	3.239	11.1	18.9	10 28	0 8.06	-20 25.7	1.491	2.304	17.7	20.0
11 7	23 58.39	- 9 4.2	2.509	3.244	13.4	19.1	11 7	0 5.55	-20 1.4	1.564	2.290	20.5	20.2
183782	2004 <i>BG</i> ₂₃		9 30.1 258°79	2°1/28.3 18			481569	2007 <i>TK</i> ₁₃		9 30.1 351°70	7°8/27.1 18		
8 29	0 49.04	+ 1 16.0	1.546	2.436	14.1	20.7	8 29	0 53.10	-14 7.4	0.999	1.915	17.7	18.7
9 8	0 44.03	+ 0 12.3	1.474	2.425	10.1	20.4	9 8	0 47.81	-13 53.6	0.943	1.900	13.5	18.4
9 18	0 36.80	- 1 3.5	1.425	2.413	5.6	20.1	9 18	0 39.25	-13 26.6	0.906	1.887	9.6	18.2
9 28	0 28.14	- 2 24.2	1.401	2.401	2.1	19.9	9 28	0 28.61	-12 37.9	0.890	1.876	7.9	18.1
10 8	0 19.18	- 3 40.6	1.405	2.389	5.4	20.1	10 8	0 17.68	-11 22.8	0.896	1.868	10.3	18.2
10 18	0 11.06	- 4 44.2	1.435	2.377	10.1	20.3	10 18	0 8.25	- 9 42.1	0.924	1.862	14.7	18.4
10 28	0 4.84	- 5 28.4	1.488	2.364	14.4	20.5	10 28	0 1.78	- 7 39.9	0.972	1.859	19.2	18.7
11 7	0 1.19	- 5 50.3	1.562	2.352	18.0	20.8	11 7	23 58.98	- 5 22.9	1.038	1.858	23.1	18.9
149824	2005 <i>ND</i> ₃₀		9 30.1 340°02	5°6/25.9 18			54219	2000 <i>HC</i> ₉₉		9 30.1 41°20	0°8/30.8 18		
8 29	0 42.60	- 4 28.9	0.999	1.925	16.7	18.6	8 29	0 48.96	+ 6 25.3	1.707	2.579	13.9	19.0
9 8	0 40.17	- 5 46.1	0.939	1.907	12.0	18.3	9 8	0 43.65	+ 6 11.1	1.648	2.587	10.2	18.8
9 18	0 34.93	- 7 12.6	0.899	1.890	7.4	18.0	9 18	0 36.42	+ 5 44.3	1.612	2.594	5.9	18.6
9 28	0 27.83	- 8 35.7	0.881	1.874	5.8	17.8	9 28	0 28.08	+ 5 8.5	1.601	2.602	1.5	18.3
10 8	0 20.31	- 9 41.9	0.884	1.861	9.4	18.0	10 8	0 19.63	+ 4 29.3	1.618	2.610	3.4	18.5
10 18	0 13.92	-10 20.5	0.908	1.849	14.6	18.2	10 18	0 12.08	+ 3 52.6	1.662	2.618	7.7	18.7
10 28	0 9.99	-10 26.0	0.950	1.838	19.4	18.5	10 28	0 6.30	+ 3 24.0	1.731	2.627	11.6	19.0
11 7	0 9.29	- 9 58.6	1.008	1.830	23.5	18.7	11 7	0 2.81	+ 3 7.2	1.822	2.635	14.8	19.2
108025	2001 <i>FK</i> ₁₄₉		9 30.1 243°08	2°9/27.0 18			480501	2015 <i>LO</i> ₃₆		9 30.1 58°45	2°4/ 2.5 17		
8 29	0 47.72	- 2 34.6	1.953	2.842	11.7	20.1	8 29	0 47.81	+12 39.3	1.528	2.387	16.0	20.9
9 8	0 42.66	- 3 38.8	1.882	2.833	8.3	19.9	9 8	0 42.91	+12 0.2	1.478	2.405	12.0	20.7
9 18	0 35.85	- 4 49.2	1.837	2.823	4.8	19.7	9 18	0 36.00	+11 0.1	1.450	2.424	7.6	20.5
9 28	0 27.96	- 5 59.1	1.818	2.813	3.0	19.5	9 28	0 27.99	+ 9 44.0	1.447	2.443	3.3	20.3
10 8	0 19.87	- 7 1.6	1.828	2.803	5.5	19.7	10 8	0 19.99	+ 8 19.7	1.470	2.462	3.6	20.3
10 18	0 12.46	- 7 50.6	1.865	2.793	9.1	19.9	10 18	0 13.04	+ 6 56.2	1.520	2.481	7.8	20.6
10 28	0 6.57	- 8 21.8	1.927	2.783	12.5	20.1	10 28	0 8.02	+ 5 42.3	1.595	2.500	11.8	20.9
11 7	0 2.73	- 8 33.7	2.010	2.772	15.4	20.3	11 7	0 5.42	+ 4 44.0	1.692	2.519	15.2	21.2
326153	2012 <i>BE</i> ₆₇		9 30.1 281°99	3°8/ 8.3 18			26707	Navrazhnykh		9 30.1 67°87	2°3/28.3 18		
8 29	0 41.07	+25 12.8											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
222461	2001 <i>RR</i> ₄₇		9 30.1 100°23	2°1/30.9	14	C	259586	2003 <i>UM</i> ₂₂₀		9 30.2 198°07	3°6/	3.4	18
8 29	1 8.97	+ 3 39.4	1.076	1.950	20.1	19.9	8 29	0 49.57	+14 46.1	1.501	2.351	16.7	20.4
9 8	0 59.09	+ 4 53.3	1.022	1.960	14.9	19.6	9 8	0 44.49	+14 23.1	1.431	2.350	12.9	20.2
9 18	0 45.53	+ 5 57.8	0.988	1.970	8.9	19.3	9 18	0 37.10	+13 36.1	1.382	2.349	8.6	19.9
9 28	0 29.73	+ 6 51.7	0.980	1.980	2.8	19.0	9 28	0 28.27	+12 27.6	1.356	2.348	4.6	19.7
10 8	0 13.75	+ 7 35.8	0.998	1.989	5.2	19.2	10 8	0 19.18	+11 4.4	1.357	2.347	4.3	19.7
10 18	23 59.67	+ 8 12.8	1.042	1.998	11.1	19.6	10 18	0 11.05	+ 9 35.9	1.384	2.346	8.3	19.9
10 28	23 49.10	+ 8 47.7	1.109	2.007	16.4	19.9	10 28	0 4.95	+ 8 12.4	1.436	2.344	12.6	20.2
11 7	23 42.72	+ 9 25.3	1.196	2.016	20.7	20.2	11 7	0 1.54	+ 7 2.4	1.510	2.343	16.4	20.4
410095	2007 <i>EX</i> ₆₅		9 30.1 140°74	0°5/29.6	18		22084	2000 <i>AX</i> ₁₆₈		9 30.2 81°57	6°2/23.9	18	
8 29	0 51.23	+ 1 25.8	2.475	3.340	10.4	21.2	8 29	0 48.85	-11 0.1	1.714	2.612	12.5	18.0
9 8	0 44.77	+ 1 22.8	2.408	3.346	7.4	21.1	9 8	0 43.44	-12 28.6	1.679	2.628	9.3	17.8
9 18	0 36.88	+ 1 14.6	2.368	3.352	4.1	20.9	9 18	0 36.24	-13 53.4	1.669	2.644	6.7	17.7
9 28	0 28.17	+ 1 3.9	2.356	3.357	0.8	20.6	9 28	0 28.08	-15 5.5	1.686	2.659	6.4	17.7
10 8	0 19.37	+ 0 53.8	2.375	3.363	3.0	20.8	10 8	0 19.97	-15 57.9	1.728	2.674	8.6	17.9
10 18	0 11.23	+ 0 47.4	2.423	3.368	6.3	21.0	10 18	0 12.86	-16 26.3	1.796	2.690	11.5	18.1
10 28	0 4.40	+ 0 47.5	2.499	3.373	9.3	21.2	10 28	0 7.53	-16 29.9	1.886	2.705	14.3	18.3
11 7	23 59.33	+ 0 55.9	2.599	3.377	11.9	21.4	11 7	0 4.42	-16 10.6	1.995	2.720	16.7	18.6
155419	1996 <i>TG</i> ₃₄		9 30.1 45°79	2°1/28.8	18		118816	2000 <i>SA</i> ₁₀₉		9 30.2 137°12	1°1/29.2	18	
8 29	0 53.03	- 0 56.4	1.290	2.187	15.9	19.4	8 29	0 52.19	+ 1 13.3	1.870	2.746	12.7	18.6
9 8	0 46.79	- 1 13.9	1.253	2.206	11.3	19.2	9 8	0 45.81	+ 0 47.5	1.811	2.755	9.1	18.4
9 18	0 38.21	- 1 38.1	1.237	2.225	6.2	19.0	9 18	0 37.60	+ 0 14.2	1.777	2.763	5.0	18.2
9 28	0 28.39	- 2 2.6	1.245	2.245	2.1	18.8	9 28	0 28.34	- 0 21.9	1.769	2.770	1.2	17.9
10 8	0 18.71	- 2 20.9	1.279	2.266	5.3	19.0	10 8	0 19.00	- 0 55.4	1.791	2.778	4.0	18.2
10 18	0 10.41	- 2 28.0	1.338	2.287	10.0	19.4	10 18	0 10.56	- 1 21.4	1.840	2.785	8.0	18.4
10 28	0 4.46	- 2 20.5	1.421	2.308	14.2	19.7	10 28	0 3.83	- 1 36.0	1.915	2.791	11.6	18.7
11 7	0 1.33	- 1 57.7	1.523	2.329	17.6	20.0	11 7	23 59.34	- 1 37.0	2.012	2.797	14.7	18.9
446686	2015 <i>OG</i> ₁₆		9 30.1 41°66	3°9/26.6	18		387388	2013 <i>AQ</i> ₁₃₀		9 30.2 1°77	4°2/21.5	18	
8 29	0 47.53	- 4 30.5	1.582	2.482	13.3	20.4	8 29	0 40.49	-17 56.1	4.075	4.956	6.3	20.2
9 8	0 42.63	- 5 33.4	1.538	2.493	9.4	20.2	9 8	0 36.78	-18 46.3	4.028	4.956	5.0	20.1
9 18	0 35.83	- 6 39.4	1.518	2.505	5.6	20.1	9 18	0 32.29	-19 32.1	4.007	4.956	4.2	20.1
9 28	0 27.98	- 7 40.6	1.524	2.517	3.9	20.0	9 28	0 27.38	-20 10.2	4.014	4.956	4.4	20.1
10 8	0 20.14	- 8 29.6	1.557	2.530	6.5	20.2	10 8	0 22.41	-20 38.0	4.049	4.956	5.4	20.2
10 18	0 13.30	- 9 0.8	1.615	2.543	10.2	20.4	10 18	0 17.79	-20 53.9	4.111	4.956	6.7	20.3
10 28	0 8.28	- 9 11.5	1.696	2.556	13.7	20.7	10 28	0 13.86	-20 57.0	4.198	4.957	8.1	20.4
11 7	0 5.56	- 9 1.6	1.796	2.570	16.6	20.9	11 7	0 10.90	-20 47.4	4.305	4.957	9.3	20.5
511094	2013 <i>TK</i> ₁₃₉		9 30.1 331°50	3°4/27.9	18		393533	2002 <i>TJ</i> ₃₀₉		9 30.2 38°92	3°2/26.9	18	
8 29	0 47.22	- 1 51.6	1.094	2.007	16.7	20.7	8 29	0 47.06	- 3 3.5	1.845	2.738	12.1	21.3
9 8	0 43.44	- 2 31.0	1.028	1.990	12.0	20.4	9 8	0 42.21	- 4 9.9	1.786	2.738	8.6	21.1
9 18	0 36.79	- 3 20.2	0.982	1.973	6.9	20.0	9 18	0 35.61	- 5 21.5	1.752	2.738	5.0	20.9
9 28	0 28.22	- 4 10.6	0.958	1.957	3.4	19.8	9 28	0 27.99	- 6 31.3	1.744	2.738	3.2	20.8
10 8	0 19.18	- 4 52.0	0.957	1.942	7.1	20.0	10 8	0 20.24	- 7 32.0	1.764	2.739	5.7	21.0
10 18	0 11.21	- 5 15.6	0.979	1.928	12.6	20.2	10 18	0 13.28	- 8 17.9	1.811	2.739	9.3	21.2
10 28	0 5.72	- 5 15.7	1.021	1.916	17.7	20.5	10 28	0 7.90	- 8 45.0	1.882	2.739	12.7	21.4
11 7	0 3.50	- 4 51.0	1.079	1.905	22.0	20.7	11 7	0 4.61	- 8 52.2	1.974	2.739	15.6	21.6
18959	2000 <i>QG</i> ₁₂₉		9 30.1 290°78	1°1/	1.7	18	13346	Danielmiller		9 30.2 72°70	0°7/30.7	18	
8 29	0 43.40	+ 9 48.8	2.590	3.441	10.5	19.0	8 29	0 51.36	+ 7 22.4	1.396	2.272	16.2	18.2
9 8	0 39.26	+ 9 11.0	2.508	3.434	7.8	18.8	9 8	0 45.54	+ 6 45.5	1.352	2.293	11.8	18.0
9 18	0 33.84	+ 8 21.2	2.451	3.427	4.7	18.6	9 18	0 37.52	+ 5 52.3	1.330	2.313	6.8	17.7
9 28	0 27.65	+ 7 22.3	2.422	3.421	1.7	18.4	9 28	0 28.31	+ 4 48.6	1.333	2.334	1.6	17.5
10 8	0 21.32	+ 6 18.5	2.422	3.414	2.4	18.5	10 8	0 19.18	+ 3 42.7	1.362	2.354	3.9	17.7
10 18	0 15.47	+ 5 14.9	2.452	3.408	5.6	18.7	10 18	0 11.27	+ 2 43.0	1.418	2.375	8.7	18.0
10 28	0 10.71	+ 4 16.6	2.509	3.401	8.6	18.8	10 28	0 5.54	+ 1 56.3	1.498	2.395	13.0	18.3
11 7	0 7.46	+ 3 27.7	2.590	3.395	11.2	19.0	11 7	0 2.46	+ 1 26.8	1.599	2.415	16.4	18.6
460213	2014 <i>QN</i> ₁₇₂		9 30.1 319°34	3°8/	3.1	17	50185	2000 <i>AD</i> ₁₇₀		9 30.2 128°14	10°9/18.1	18	
8 29	0 49.60	+12 37.3	1.898	2.741	14.0	21.0	8 29	0 54.78	-28 9.2	1.940	2.800	13.0	18.6
9 8	0 44.38	+13 9.0	1.801	2.716	10.9	20.7	9 8	0 47.60	-29 55.1	1.926	2.819	11.5	18.6
9 18	0 37.06	+13 26.5	1.726	2.691	7.5	20.5	9 18	0 38.52	-31 21.6	1.936	2.836	10.9	18.6
9 28	0 28.28	+13 29.7	1.677	2.666	4.4	20.2	9 28	0 28.48	-32 20.2	1.970	2.853	11.5	18.7
10 8	0 18.96	+13 20.3	1.655	2.642	4.4	20.2	10 8	0 18.60	-32 46.4	2.028	2.869	12.8	18.8
10 18	0 10.17	+13 2.2	1.660	2.618	7.6	20.3	10 18	0 9.89	-32 40.0	2.107	2.884	14.5	18.9
10 28	0 2.95	+12 40.9	1.691	2.594	11.3	20.5	10 28	0 3.16	-32 3.8	2.206	2.899	16.2	19.1
11 7	23 58.04	+12 22.5	1.745	2.572	14.8	20.7	11 7	23 58.85	-31 3.3	2.320	2.912	17.6	19.3
218438	2004 <i>RE</i> ₁₉₁		9 30.2 10°17	4°7/	4.1	18	509475	2007 <i>RT</i> ₃₂₀		9 30.2 64°88	3°7/27.5	18	
8 29	0 48.86	+15 11.1	1.694	2.535	15.5	19.0	8 29	0 54.51	- 6 6.1	1.614	2.504	13.6	20.4
9 8	0 43.77	+15 42.2	1.628	2.538	12.2	18.8	9 8	0 47.50	- 6 27.2	1.574	2.523	9.7	20.2
9 18	0 36.61	+15 54.7	1.582	2.541	8.6	18.6	9 18	0 38.50	- 6 48.4	1.558	2.543	5.8	20.1
9 28	0 28.17	+15 48.5	1.561	2.545	5.5	18.4	9 28	0 28.49	- 7 4.1	1.569	2.563	3.7	20.0
10 8	0 19.49	+15 26.7	1.566	2.550	5.0	18.4	10 8	0 18.61	- 7 9.1	1.607	2.583	6.1	20.2
10 18	0 11.67	+14 54.4	1.597	2.555	7.8	18.6	10 18	0 9.93	- 7 0.4	1.672	2.603	9.8	20.4
10 28	0 5.66	+14 18.6	1.653	2.561	11.2	18.8	10 28	0 3.29	- 6 36.7	1.761	2.622	13.2	20.7
11 7	0 2.07	+13 46.0	1.732	2.568	14.5	19.1	11 7	23 59.15	- 5 58.6	1.870	2.642	16.1	20.9
41201	1999 <i>WF</i> ₄		9 30.2 353°75	2°5/	3.1	18	316148	2009 <i>SK</i> ₃₅₂		9 30.2 300°06	0°5/29.1	15	
8 29	0 44.85												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
477507	2010 <i>CQ</i> ₁₂₉		9 30.2 184°03	5°7/23.6	18		71733	2000 <i>JQ</i> ₄₇		9 30.2 280°80	6°4/ 8.7	18	
8 29	0 48.91	-11 40.6	2.083	2.973	11.0	21.4	8 29	0 45.87	+27 14.1	2.535	3.286	13.4	19.0
9 8	0 43.39	-13 6.9	2.030	2.974	8.2	21.3	9 8	0 41.32	+27 15.4	2.430	3.265	11.5	18.8
9 18	0 36.22	-14 30.9	2.003	2.974	6.1	21.2	9 18	0 35.17	+26 55.1	2.345	3.244	9.3	18.6
9 28	0 28.11	-15 44.7	2.004	2.973	5.9	21.1	9 28	0 27.97	+26 12.2	2.284	3.223	7.4	18.5
10 8	0 19.89	-16 41.7	2.032	2.972	7.9	21.3	10 8	0 20.45	+25 8.3	2.249	3.202	6.4	18.4
10 18	0 12.42	-17 17.7	2.087	2.970	10.6	21.4	10 18	0 13.41	+23 47.4	2.242	3.181	7.2	18.4
10 28	0 6.46	-17 30.7	2.165	2.968	13.2	21.6	10 28	0 7.61	+22 16.3	2.262	3.159	9.2	18.5
11 7	0 2.48	-17 21.9	2.262	2.966	15.5	21.8	11 7	0 3.63	+20 42.7	2.308	3.137	11.6	18.6
100062	1992 <i>EH</i> ₉		9 30.2 223°60	3°0/26.8	18		404101	2012 <i>FW</i> ₅₇		9 30.2 64°19	1°7/ 2.0	18	
8 29	0 48.55	- 3 57.5	2.175	3.060	10.8	20.8	8 29	0 48.03	+ 9 30.2	2.286	3.135	11.7	20.8
9 8	0 43.14	- 4 56.9	2.103	3.051	7.7	20.6	9 8	0 42.69	+ 9 27.3	2.214	3.138	8.8	20.6
9 18	0 36.11	- 6 0.6	2.057	3.042	4.6	20.4	9 18	0 35.84	+ 9 12.8	2.166	3.140	5.5	20.4
9 28	0 28.10	- 7 2.5	2.039	3.032	3.1	20.3	9 28	0 28.07	+ 8 48.7	2.146	3.143	2.3	20.2
10 8	0 19.90	- 7 56.7	2.050	3.022	5.3	20.4	10 8	0 20.17	+ 8 18.6	2.154	3.145	2.8	20.2
10 18	0 12.33	- 8 38.0	2.088	3.011	8.6	20.6	10 18	0 12.89	+ 7 46.6	2.191	3.148	6.1	20.5
10 28	0 6.15	- 9 2.8	2.153	3.000	11.7	20.8	10 28	0 6.94	+ 7 17.5	2.255	3.150	9.3	20.7
11 7	0 1.87	- 9 10.1	2.238	2.988	14.4	20.9	11 7	0 2.81	+ 6 55.1	2.343	3.153	12.1	20.9
400490	2008 <i>HJ</i> ₆₉		9 30.2 61°98	6°5/22.7	18		79628	1998 <i>RJ</i> ₆₉		9 30.2 12°62	0°0/30.1	18	
8 29	0 46.61	-14 16.8	1.983	2.879	11.2	20.2	8 29	0 48.41	+ 4 21.8	1.062	1.965	18.0	18.6
9 8	0 41.68	-15 43.6	1.952	2.895	8.6	20.0	9 8	0 44.11	+ 4 10.9	1.013	1.968	13.1	18.4
9 18	0 35.21	-17 4.1	1.945	2.910	6.8	20.0	9 18	0 37.04	+ 3 44.3	0.983	1.972	7.4	18.1
9 28	0 27.92	-18 10.7	1.965	2.926	6.8	20.0	9 28	0 28.31	+ 3 7.8	0.976	1.977	1.4	17.7
10 8	0 20.66	-18 57.5	2.012	2.942	8.6	20.2	10 8	0 19.43	+ 2 29.7	0.992	1.984	4.7	18.0
10 18	0 14.25	-19 21.2	2.083	2.957	11.1	20.3	10 18	0 11.88	+ 1 58.5	1.031	1.992	10.5	18.3
10 28	0 9.36	-19 21.5	2.177	2.973	13.4	20.5	10 28	0 6.89	+ 1 41.1	1.091	2.001	15.5	18.6
11 7	0 6.41	-19 0.1	2.290	2.989	15.4	20.7	11 7	0 5.05	+ 1 41.3	1.169	2.012	19.6	18.9
395759	2012 <i>VL</i> ₃₅		9 30.2 271°42	2°9/27.5	18		176081	2000 <i>XW</i> ₂₇		9 30.2 322°88	5°0/ 3.3	18	
8 29	0 49.44	- 2 47.7	1.809	2.699	12.4	21.4	8 29	0 51.01	+13 7.0	1.201	2.069	18.9	19.4
9 8	0 44.12	- 3 36.0	1.732	2.683	8.9	21.1	9 8	0 46.22	+13 42.5	1.127	2.055	14.8	19.2
9 18	0 36.83	- 4 30.3	1.680	2.666	5.2	20.9	9 18	0 38.45	+13 56.1	1.073	2.043	10.2	18.9
9 28	0 28.26	- 5 24.4	1.654	2.650	2.9	20.7	9 28	0 28.62	+13 46.8	1.040	2.031	5.9	18.6
10 8	0 19.39	- 6 11.3	1.655	2.633	5.6	20.8	10 8	0 18.17	+13 18.2	1.030	2.019	5.8	18.6
10 18	0 11.24	- 6 45.1	1.684	2.617	9.6	21.0	10 18	0 8.72	+12 37.4	1.045	2.008	10.1	18.8
10 28	0 4.73	- 7 1.5	1.737	2.600	13.3	21.2	10 28	0 1.77	+11 54.3	1.082	1.998	15.0	19.0
11 7	0 0.50	- 6 59.1	1.810	2.583	16.5	21.4	11 7	23 58.19	+11 18.6	1.137	1.989	19.4	19.3
305065	2007 <i>UF</i> ₈₆		9 30.2 215°44	1°7/ 2.3	18		377284	2004 <i>EJ</i> ₆₇		9 30.2 114°80	1°4/28.9	16	
8 29	0 47.46	+11 30.7	2.391	3.231	11.6	21.3	8 29	0 51.02	+ 2 11.4	1.655	2.537	13.8	21.4
9 8	0 42.29	+10 57.8	2.306	3.224	8.7	21.2	9 8	0 45.12	+ 1 18.4	1.604	2.550	9.8	21.2
9 18	0 35.63	+10 10.6	2.245	3.216	5.5	20.9	9 18	0 37.27	+ 0 15.6	1.576	2.563	5.4	21.0
9 28	0 28.03	+ 9 11.8	2.211	3.207	2.4	20.7	9 28	0 28.33	- 0 50.7	1.575	2.576	1.5	20.7
10 8	0 20.24	+ 8 5.9	2.208	3.198	2.8	20.7	10 8	0 19.38	- 1 52.8	1.602	2.588	4.5	21.0
10 18	0 13.00	+ 6 58.3	2.233	3.189	6.0	20.9	10 18	0 11.43	- 2 44.0	1.656	2.600	8.8	21.3
10 28	0 7.01	+ 5 55.1	2.287	3.179	9.3	21.1	10 28	0 5.36	- 3 19.4	1.735	2.612	12.6	21.5
11 7	0 2.78	+ 5 1.2	2.364	3.168	12.1	21.3	11 7	0 1.65	- 3 36.7	1.835	2.623	15.7	21.8
274802	2008 <i>WS</i> ₁₀₁		9 30.2 41°94	7°5/24.5	18		46180	2001 <i>FX</i> ₁₀₁		9 30.2 248°41	3°2/ 3.0	18	
8 29	0 50.48	-12 31.0	1.332	2.239	14.8	18.6	8 29	0 49.82	+13 47.5	1.593	2.443	15.9	19.3
9 8	0 44.95	-13 41.8	1.302	2.254	11.1	18.4	9 8	0 44.69	+13 27.2	1.513	2.433	12.3	19.1
9 18	0 37.19	-14 45.7	1.295	2.270	8.1	18.3	9 18	0 37.28	+12 44.8	1.454	2.423	8.1	18.8
9 28	0 28.29	-15 32.8	1.312	2.287	7.7	18.3	9 28	0 28.38	+11 42.3	1.420	2.413	4.1	18.5
10 8	0 19.52	-15 56.0	1.353	2.304	10.0	18.5	10 8	0 19.11	+10 25.7	1.412	2.402	4.1	18.5
10 18	0 12.08	-15 52.2	1.417	2.322	13.2	18.8	10 18	0 10.65	+ 9 3.7	1.431	2.391	8.2	18.7
10 28	0 6.86	-15 22.2	1.502	2.340	16.4	19.0	10 28	0 4.12	+ 7 45.9	1.475	2.380	12.5	19.0
11 7	0 4.32	-14 29.3	1.605	2.358	19.1	19.3	11 7	0 0.19	+ 6 40.4	1.541	2.369	16.4	19.2
305902	2009 <i>FS</i> ₃₇		9 30.2 187°18	2°3/27.8	18		21558	Alisonliu		9 30.2 102°28	4°8/ 4.9	18	
8 29	0 47.56	- 1 12.0	1.984	2.870	11.7	21.0	8 29	0 52.68	+17 51.3	1.971	2.784	14.7	17.3
9 8	0 42.49	- 2 6.2	1.921	2.870	8.3	20.8	9 8	0 46.22	+18 10.6	1.909	2.800	11.7	17.2
9 18	0 35.76	- 3 6.7	1.883	2.870	4.6	20.6	9 18	0 37.89	+18 10.7	1.869	2.815	8.4	17.0
9 28	0 28.05	- 4 7.6	1.872	2.870	2.3	20.4	9 28	0 28.47	+17 51.9	1.854	2.831	5.6	16.9
10 8	0 20.22	- 5 2.4	1.889	2.869	4.8	20.6	10 8	0 18.93	+17 17.4	1.867	2.846	5.0	16.8
10 18	0 13.11	- 5 45.8	1.934	2.869	8.4	20.8	10 18	0 10.27	+16 32.3	1.908	2.861	7.2	17.0
10 28	0 7.49	- 6 13.7	2.004	2.868	11.8	21.0	10 28	0 3.35	+15 43.6	1.976	2.875	10.2	17.2
11 7	0 3.87	- 6 24.4	2.096	2.867	14.6	21.2	11 7	23 58.68	+14 57.8	2.067	2.889	13.0	17.4
35930	1999 <i>JD</i> ₁₁₀		9 30.2 242°42	2°2/ 2.0	18		509116	2005 <i>WY</i> ₉₁		9 30.2 290°35	0°9/29.5	18	
8 29	0 51.24	+10 53.9	1.565	2.424	15.7	19.8	8 29	0 49.54	+ 3 3.4	1.523	2.408	14.5	21.7
9 8	0 45.74	+10 32.0	1.485	2.413	11.9	19.5	9 8	0 44.55	+ 2 30.0	1.444	2.392	10.6	21.5
9 18	0 37.88	+ 9 50.2	1.426	2.402	7.5	19.2	9 18	0 37.24	+ 1 44.0	1.388	2.376	5.9	21.2
9 28	0 28.47	+ 8 51.5	1.393	2.390	3.0	18.9	9 28	0 28.39	+ 0 50.6	1.358	2.359	1.2	20.8
10 8	0 18.66	+ 7 42.2	1.386	2.378	3.8	18.9	10 8	0 19.13	- 0 2.7	1.354	2.343	4.5	21.0
10 18	0 9.67	+ 6 30.6	1.406	2.365	8.5	19.2	10 18	0 10.68	- 0 48.5	1.375	2.327	9.5	21.3
10 28	0 2.66	+ 5 25.8	1.451	2.352	13.0	19.4	10 28	0 4.14	- 1 20.0	1.421	2.310	14.0	21.5
11 7	23 58.33	+ 4 34.9	1.517	2.338	17.0	19.6	11 7	0 0.26	- 1 33.5	1.487	2.294	17.9	21.7
232595	2003 <i>UP</i> ₉		9 30.2 48°14	0°9/29.6	18		405237	2003 <i>SL</i> ₁₃₀		9 30.2 357°32	7°6/ 5.7	14 C	
8 29	0 54.82	+ 0 33.1											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
477019	2008 YN ₁₆₁	9 30.2 254°41'		7°6'/21.7 18			318582	2005 GT ₁₇₀	9 30.2 83°30'		5°7'/25.7 17		
8 29	0 49.03	-16 33.2	1.910	2.802	11.8	21.7	8 29	0 53.68	-8 16.3	1.417	2.315	14.6	20.1
9 8	0 43.73	-18 2.9	1.853	2.790	9.3	21.5	9 8	0 47.10	-9 28.3	1.386	2.338	10.6	19.9
9 18	0 36.56	-19 26.5	1.822	2.779	7.8	21.4	9 18	0 38.37	-10 38.3	1.379	2.360	6.9	19.8
9 28	0 28.25	-20 35.1	1.816	2.767	8.0	21.4	9 28	0 28.57	-11 36.9	1.397	2.382	5.8	19.8
10 8	0 19.75	-21 21.5	1.836	2.755	10.0	21.5	10 8	0 18.95	-12 16.5	1.442	2.404	8.3	20.0
10 18	0 12.03	-21 41.7	1.881	2.743	12.6	21.6	10 18	0 10.68	-12 32.9	1.511	2.426	11.8	20.2
10 28	0 5.96	-21 34.6	1.947	2.731	15.2	21.8	10 28	0 4.63	-12 25.3	1.603	2.447	15.2	20.5
11 7	0 2.08	-21 2.7	2.030	2.718	17.5	21.9	11 7	0 1.24	-11 55.8	1.713	2.468	18.0	20.8
478840	2012 VO ₄₄	9 30.2 333°83'		1°4'/1.3 18			282543	2004 ST ₆₀	9 30.2 313°69'		7°0'/23.0 18		
8 29	0 47.04	+ 8 0.0	1.404	2.285	15.9	20.7	8 29	0 45.11	- 9 6.5	1.432	2.344	13.6	19.4
9 8	0 42.85	+ 7 45.4	1.332	2.273	11.8	20.4	9 8	0 41.40	-11 5.4	1.371	2.327	10.2	19.2
9 18	0 36.30	+ 7 13.4	1.280	2.263	7.1	20.1	9 18	0 35.47	-13 7.6	1.332	2.311	7.4	19.0
9 28	0 28.23	+ 6 27.5	1.253	2.252	2.3	19.8	9 28	0 28.10	-15 0.7	1.319	2.296	7.4	18.9
10 8	0 19.79	+ 5 34.4	1.250	2.243	3.9	19.9	10 8	0 20.42	-16 32.5	1.331	2.281	10.2	19.1
10 18	0 12.23	+ 4 42.1	1.273	2.235	8.9	20.2	10 18	0 13.60	-17 34.5	1.367	2.266	14.0	19.3
10 28	0 6.69	+ 3 58.8	1.320	2.227	13.6	20.4	10 28	0 8.70	-18 2.9	1.423	2.252	17.6	19.4
11 7	0 3.85	+ 3 30.3	1.386	2.220	17.6	20.7	11 7	0 6.38	-17 58.8	1.495	2.239	20.6	19.6
295046	2008 EZ ₁₀₁	9 30.2 188°54'		1°9'/28.4 17			227078	2005 LZ ₁₈	9 30.2 324°16'		2°0'/4.2 16		
8 29	0 52.03	- 0 0.4	1.856	2.735	12.7	22.1	8 29	0 39.84	+15 21.3	4.042	4.854	7.8	20.5
9 8	0 45.83	- 0 48.6	1.789	2.734	9.0	21.9	9 8	0 36.39	+14 55.3	3.955	4.851	6.0	20.4
9 18	0 37.72	- 1 44.6	1.747	2.733	5.0	21.6	9 18	0 32.16	+14 19.5	3.893	4.848	4.1	20.3
9 28	0 28.46	- 2 42.4	1.732	2.731	2.0	21.4	9 28	0 27.47	+13 35.5	3.859	4.844	2.4	20.1
10 8	0 19.04	- 3 35.5	1.746	2.729	4.7	21.6	10 8	0 22.70	+12 45.6	3.855	4.841	2.2	20.1
10 18	0 10.43	- 4 17.7	1.788	2.726	8.7	21.8	10 18	0 18.23	+11 52.6	3.881	4.838	3.7	20.2
10 28	0 3.54	- 4 44.8	1.855	2.722	12.4	22.1	10 28	0 14.43	+10 59.7	3.937	4.835	5.6	20.3
11 7	23 58.91	- 4 54.7	1.944	2.717	15.5	22.3	11 7	0 11.59	+10 10.0	4.019	4.831	7.4	20.5
322776	2001 JQ ₁	9 30.2 208°69'		5°5'/22.6 18			441309	2008 AO ₅₉	9 30.2 301°72'		3°9'/3.7 18		
8 29	0 49.92	-18 59.3	3.096	3.966	8.4	21.8	8 29	0 48.27	+14 44.4	1.832	2.671	14.6	21.0
9 8	0 43.71	-19 43.3	3.037	3.959	6.7	21.7	9 8	0 43.39	+14 48.9	1.748	2.659	11.4	20.7
9 18	0 36.29	-20 20.8	3.005	3.951	5.6	21.6	9 18	0 36.50	+14 34.7	1.686	2.648	7.9	20.5
9 28	0 28.19	-20 47.3	3.001	3.943	5.7	21.6	9 28	0 28.29	+14 2.8	1.648	2.636	4.6	20.3
10 8	0 20.02	-20 59.4	3.025	3.934	6.9	21.7	10 8	0 19.74	+13 16.8	1.638	2.625	4.3	20.3
10 18	0 12.38	-20 55.4	3.077	3.925	8.6	21.8	10 18	0 11.86	+12 22.6	1.654	2.614	7.4	20.4
10 28	0 5.84	-20 34.9	3.154	3.916	10.4	21.9	10 28	0 5.63	+11 27.5	1.697	2.603	11.1	20.6
11 7	0 0.80	-19 59.1	3.252	3.906	12.0	22.0	11 7	0 1.69	+10 38.7	1.762	2.592	14.5	20.8
432738	2011 DV ₃₃	9 30.2 53°76'		0°6'/30.6 16			116434	2003 YK ₁₅₄	9 30.2 338°80'		8°6'/23.7 18		
8 29	0 51.31	+ 6 9.1	1.329	2.212	16.5	20.6	8 29	0 51.23	-16 40.3	1.449	2.349	14.3	18.5
9 8	0 45.64	+ 5 48.0	1.285	2.229	11.9	20.4	9 8	0 45.72	-17 33.0	1.396	2.339	11.3	18.3
9 18	0 37.68	+ 5 11.8	1.262	2.247	6.9	20.2	9 18	0 37.83	-18 16.1	1.364	2.329	9.0	18.1
9 28	0 28.44	+ 4 25.7	1.264	2.265	1.5	19.9	9 28	0 28.52	-18 40.4	1.357	2.321	8.8	18.1
10 8	0 19.24	+ 3 37.4	1.292	2.284	4.0	20.1	10 8	0 19.05	-18 38.8	1.373	2.313	10.9	18.2
10 18	0 11.31	+ 2 54.3	1.345	2.302	9.0	20.5	10 18	0 10.69	-18 8.7	1.412	2.305	14.1	18.4
10 28	0 5.61	+ 2 23.0	1.421	2.321	13.3	20.8	10 28	0 4.49	-17 11.0	1.473	2.299	17.2	18.6
11 7	0 2.66	+ 2 7.2	1.519	2.340	16.9	21.1	11 7	0 1.06	-15 49.9	1.551	2.294	20.0	18.8
410859	2009 RJ ₅₀	9 30.2 124°26'		1°1'/29.1 18			522957	2016 PM ₁₁₄	9 30.2 343°66'		3°8'/2.8 18		
8 29	0 49.37	+ 0 6.8	2.326	3.200	10.6	20.7	8 29	0 54.83	+11 28.0	1.595	2.444	15.9	21.1
9 8	0 43.59	- 0 6.9	2.259	3.202	7.6	20.5	9 8	0 48.28	+12 5.9	1.523	2.443	12.2	20.9
9 18	0 36.33	- 0 25.5	2.218	3.204	4.2	20.3	9 18	0 39.32	+12 28.0	1.474	2.442	8.1	20.6
9 28	0 28.21	- 0 45.7	2.205	3.206	1.1	20.1	9 28	0 28.81	+12 34.3	1.449	2.441	4.4	20.4
10 8	0 19.98	- 1 3.6	2.221	3.207	3.4	20.3	10 8	0 17.96	+12 27.3	1.452	2.440	4.6	20.4
10 18	0 12.40	- 1 15.8	2.266	3.209	6.8	20.5	10 18	0 8.04	+12 11.8	1.482	2.439	8.3	20.7
10 28	0 6.16	- 1 19.3	2.338	3.211	9.9	20.7	10 28	0 0.18	+11 54.1	1.536	2.439	12.3	20.9
11 7	0 1.71	- 1 12.5	2.433	3.213	12.6	20.9	11 7	23 55.09	+11 40.5	1.613	2.438	15.9	21.1
492349	2014 HE ₁₃	9 30.2 298°15'		5°8'/25.6 18			398499	2011 UK ₁₈₇	9 30.2 338°97'		5°4'/5.1 16		
8 29	0 52.75	-11 34.0	1.700	2.593	12.9	20.7	8 29	0 45.25	+18 11.7	1.538	2.377	16.9	20.6
9 8	0 46.57	-12 11.3	1.634	2.580	9.7	20.5	9 8	0 41.51	+18 13.3	1.460	2.367	13.6	20.4
9 18	0 38.24	-12 44.9	1.591	2.567	6.8	20.3	9 18	0 35.55	+17 49.7	1.402	2.357	9.8	20.1
9 28	0 28.58	-13 7.7	1.575	2.555	6.0	20.2	9 28	0 28.14	+17 1.1	1.366	2.348	6.4	19.9
10 8	0 18.68	-13 13.5	1.584	2.542	8.1	20.3	10 8	0 20.38	+15 52.1	1.356	2.340	5.6	19.9
10 18	0 9.69	-12 58.9	1.620	2.530	11.5	20.5	10 18	0 13.42	+14 30.6	1.370	2.333	8.3	20.0
10 28	0 2.59	-12 22.9	1.679	2.518	14.9	20.7	10 28	0 8.33	+13 7.0	1.410	2.326	12.2	20.2
11 7	23 58.00	-11 27.4	1.757	2.506	17.8	20.8	11 7	0 5.81	+11 50.8	1.471	2.320	15.9	20.4
398013	2009 CL ₃₉	9 30.2 215°98'		4°0'/25.2 18			223898	2004 VX ₂₇	9 30.2 311°01'		1°9'/2.1 18		
8 29	0 48.03	- 7 42.2	2.392	3.278	9.9	22.5	8 29	0 47.02	+ 9 58.5	2.038	2.893	12.7	19.9
9 8	0 42.68	- 8 54.1	2.324	3.270	7.2	22.3	9 8	0 42.27	+ 9 51.8	1.953	2.879	9.6	19.7
9 18	0 35.85	-10 7.3	2.282	3.261	4.7	22.2	9 18	0 35.79	+ 9 31.3	1.892	2.866	6.0	19.4
9 28	0 28.13	-11 15.7	2.268	3.251	4.1	22.1	9 28	0 28.18	+ 8 59.1	1.857	2.854	2.6	19.2
10 8	0 20.25	-12 13.3	2.284	3.241	6.1	22.2	10 8	0 20.28	+ 8 19.4	1.850	2.841	3.1	19.2
10 18	0 12.95	-12 55.8	2.327	3.230	8.8	22.4	10 18	0 12.98	+ 7 37.2	1.871	2.829	6.8	19.4
10 28	0 6.91	-13 20.2	2.396	3.218	11.5	22.5	10 28	0 7.11	+ 6 58.3	1.917	2.817	10.4	19.6
11 7	0 2.61	-13 26.1	2.486	3.206	13.8	22.7	11 7	0 3.24	+ 6 27.6	1.987	2.805	13.6	19.8
118889	2000 UJ ₃₈	9 30.2 239°58'		0°0'/30.1 18			456073	2006 BZ ₁₇	9 30.2 279°76'		4°9'/24.3 18		
8 29	0 47.43	+ 4 56.3	2.281	3.147	11.1	19.8	8 29	0 46.41	-10 18.7	2.233	3.125	10.3	20.9
9 8	0 42.32												

EPHEMERIDES

9 30.2

9 30.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
260748	2005 <i>MO</i> ₁₂		9 30.2 90°04	4.2/ 3.7	18		285257	1998 <i>HD</i> ₁₅		9 30.2 123°39	2.2/28.3	17	
8 29	0 52.21	+14 53.1	1.515	2.359	16.9	20.3	8 29	0 53.80	- 0 42.7	1.663	2.545	13.7	21.5
9 8	0 46.33	+14 57.2	1.456	2.370	13.1	20.1	9 8	0 47.11	- 1 28.8	1.614	2.561	9.7	21.3
9 18	0 38.15	+14 39.3	1.417	2.380	8.9	19.8	9 18	0 38.43	- 2 21.5	1.589	2.576	5.4	21.1
9 28	0 28.60	+14 1.0	1.402	2.391	5.1	19.7	9 28	0 28.65	- 3 14.3	1.591	2.590	2.2	20.9
10 8	0 18.91	+13 7.5	1.414	2.401	4.7	19.7	10 8	0 18.90	- 4 0.3	1.621	2.603	5.1	21.2
10 18	0 10.30	+12 6.6	1.452	2.412	8.2	19.9	10 18	0 10.21	- 4 33.8	1.678	2.617	9.2	21.4
10 28	0 3.79	+11 7.1	1.515	2.422	12.1	20.2	10 28	0 3.48	- 4 51.2	1.761	2.629	12.9	21.7
11 7	23 59.99	+10 16.5	1.599	2.432	15.7	20.4	11 7	23 59.20	- 4 51.2	1.864	2.641	15.9	21.9
225745	2001 <i>SY</i> ₄₁		9 30.2 328°50	2.0/29.2	18		121844	2000 <i>CQ</i> ₉		9 30.2 280°42	1.8/ 2.3	18	
8 29	0 52.63	- 1 49.6	1.165	2.069	16.7	19.0	8 29	0 45.95	+10 53.4	2.280	3.127	11.8	19.9
9 8	0 47.46	- 1 37.7	1.090	2.046	12.2	18.7	9 8	0 41.34	+10 31.6	2.194	3.116	8.9	19.7
9 18	0 39.23	- 1 30.7	1.036	2.025	7.0	18.3	9 18	0 35.20	+ 9 55.9	2.133	3.106	5.6	19.5
9 28	0 28.86	- 1 23.5	1.004	2.005	2.1	18.0	9 28	0 28.10	+ 9 8.7	2.099	3.095	2.4	19.2
10 8	0 17.83	- 1 10.4	0.997	1.985	5.8	18.1	10 8	0 20.76	+ 8 14.4	2.093	3.084	2.8	19.2
10 18	0 7.82	- 0 46.8	1.013	1.967	11.6	18.4	10 18	0 13.98	+ 7 18.2	2.115	3.073	6.2	19.4
10 28	0 0.32	- 0 9.1	1.050	1.951	16.9	18.7	10 28	0 8.45	+ 6 25.7	2.165	3.062	9.5	19.6
11 7	23 56.27	+ 0 44.0	1.106	1.935	21.4	18.9	11 7	0 4.72	+ 5 41.8	2.239	3.051	12.5	19.8
292969	2006 <i>VL</i> ₁₃₅		9 30.2 353°71	1.1/ 1.0	18		53477	2000 <i>AA</i> ₅₄		9 30.2 317°93	2.4/ 5.1	18	
8 29	0 47.84	+ 7 26.3	1.170	2.061	17.6	20.4	8 29	0 41.05	+17 21.4	4.372	5.168	7.5	19.2
9 8	0 43.70	+ 7 7.4	1.109	2.057	13.0	20.2	9 8	0 37.23	+17 18.6	4.285	5.166	5.9	19.1
9 18	0 36.89	+ 6 28.9	1.069	2.053	7.7	19.9	9 18	0 32.65	+17 6.7	4.223	5.165	4.3	19.0
9 28	0 28.40	+ 5 35.7	1.051	2.051	2.1	19.5	9 28	0 27.62	+16 46.5	4.188	5.163	2.9	18.9
10 8	0 19.60	+ 4 36.3	1.057	2.050	4.3	19.7	10 8	0 22.50	+16 19.5	4.183	5.161	2.5	18.8
10 18	0 11.95	+ 3 40.3	1.086	2.049	9.9	20.0	10 18	0 17.66	+15 47.9	4.208	5.160	3.6	18.9
10 28	0 6.66	+ 2 56.7	1.138	2.049	14.9	20.3	10 28	0 13.45	+15 14.3	4.262	5.158	5.2	19.0
11 7	0 4.42	+ 2 31.4	1.209	2.050	19.2	20.5	11 7	0 10.17	+14 41.5	4.342	5.157	6.8	19.2
117181	2004 <i>RP</i> ₇₈		9 30.2 298°71	5.3/25.9	18		443389	2014 <i>HU</i> ₁₇		9 30.2 73°99	0.6/30.8	18	
8 29	0 54.64	-13 0.4	2.068	2.949	11.5	19.5	8 29	0 47.46	+ 7 21.2	1.843	2.711	13.3	21.6
9 8	0 47.66	-13 16.7	1.993	2.932	8.7	19.3	9 8	0 42.54	+ 6 42.1	1.782	2.719	9.7	21.4
9 18	0 38.78	-13 27.8	1.944	2.916	6.1	19.1	9 18	0 35.89	+ 5 49.3	1.745	2.727	5.6	21.1
9 28	0 28.73	-13 28.1	1.922	2.899	5.4	19.1	9 28	0 28.22	+ 4 47.4	1.734	2.734	1.4	20.9
10 8	0 18.46	-13 13.5	1.928	2.883	7.2	19.2	10 8	0 20.46	+ 3 42.8	1.750	2.742	3.2	21.0
10 18	0 8.95	-12 41.7	1.962	2.867	10.1	19.3	10 18	0 13.50	+ 2 42.2	1.795	2.750	7.3	21.3
10 28	0 1.09	-11 52.6	2.021	2.850	13.1	19.5	10 28	0 8.14	+ 1 51.6	1.865	2.757	11.1	21.5
11 7	23 55.46	-10 47.9	2.102	2.834	15.7	19.6	11 7	0 4.88	+ 1 15.2	1.958	2.765	14.2	21.8
509774	2008 <i>UV</i> ₁₀₆		9 30.2 326°16	5.9/25.9	18		364032	2005 <i>WY</i> ₁₆		9 30.2 305°07	6.1/24.1	18	
8 29	0 53.91	-11 7.4	1.542	2.437	13.9	20.6	8 29	0 48.70	-13 13.2	1.966	2.860	11.4	20.2
9 8	0 47.50	-11 40.7	1.484	2.432	10.3	20.3	9 8	0 43.45	-14 9.1	1.904	2.848	8.7	20.0
9 18	0 38.80	-12 9.9	1.449	2.427	7.1	20.2	9 18	0 36.43	-15 1.1	1.866	2.836	6.5	19.8
9 28	0 28.73	-12 27.7	1.440	2.423	6.0	20.1	9 28	0 28.33	-15 42.1	1.854	2.825	6.3	19.8
10 8	0 18.51	-12 27.8	1.457	2.419	8.3	20.2	10 8	0 20.06	-16 6.2	1.869	2.813	8.2	19.9
10 18	0 9.37	-12 7.0	1.499	2.415	11.9	20.4	10 18	0 12.53	-16 9.7	1.909	2.802	11.0	20.0
10 28	0 2.34	-11 25.1	1.564	2.411	15.4	20.6	10 28	0 6.56	-15 51.5	1.973	2.791	13.8	20.2
11 7	23 58.00	-10 24.2	1.648	2.408	18.4	20.8	11 7	0 2.69	-15 12.8	2.056	2.780	16.3	20.4
156060	2001 <i>SY</i> ₅₇		9 30.2 274°23	0.0/30.0	18		272476	2005 <i>UF</i> ₈₇		9 30.2 141°28	1.2/29.1	18	
8 29	0 48.35	+ 6 11.4	1.649	2.525	14.2	20.3	8 29	0 50.15	+ 2 19.6	1.621	2.504	13.9	20.9
9 8	0 43.59	+ 5 24.3	1.566	2.508	10.4	20.0	9 8	0 44.70	+ 1 35.0	1.560	2.507	10.0	20.7
9 18	0 36.68	+ 4 21.1	1.506	2.491	5.9	19.7	9 18	0 37.20	+ 0 39.8	1.523	2.510	5.5	20.5
9 28	0 28.37	+ 3 6.8	1.472	2.474	1.1	19.4	9 28	0 28.48	- 0 20.1	1.511	2.512	1.4	20.2
10 8	0 19.67	+ 1 49.0	1.466	2.456	3.9	19.5	10 8	0 19.61	- 1 17.1	1.527	2.515	4.5	20.4
10 18	0 11.69	+ 0 36.2	1.486	2.439	8.8	19.8	10 18	0 11.67	- 2 4.5	1.570	2.517	8.9	20.7
10 28	0 5.47	- 0 23.8	1.531	2.421	13.1	20.0	10 28	0 5.60	- 2 36.7	1.637	2.519	12.9	20.9
11 7	0 1.69	- 1 5.6	1.597	2.403	16.9	20.2	11 7	0 1.94	- 2 51.2	1.725	2.521	16.3	21.2
134073	2004 <i>XL</i> ₆₆		9 30.2 217°62	0.4/29.7	18		183741	2003 <i>YW</i> ₁₁₉		9 30.2 243°20	2.1/28.4	18	
8 29	0 46.33	+ 3 17.1	2.657	3.523	9.7	20.7	8 29	0 51.54	+ 0 1.3	1.679	2.564	13.5	21.1
9 8	0 41.35	+ 2 46.7	2.580	3.518	7.0	20.5	9 8	0 45.81	- 0 45.1	1.604	2.552	9.7	20.8
9 18	0 35.09	+ 2 9.0	2.528	3.513	3.9	20.3	9 18	0 37.92	- 1 40.7	1.552	2.539	5.4	20.5
9 28	0 28.05	+ 1 27.4	2.505	3.507	0.7	20.0	9 28	0 28.63	- 2 39.2	1.527	2.526	2.1	20.3
10 8	0 20.87	+ 0 45.9	2.512	3.501	2.8	20.2	10 8	0 19.02	- 3 33.2	1.529	2.513	5.1	20.4
10 18	0 14.19	+ 0 8.5	2.549	3.495	6.0	20.4	10 18	0 10.20	- 4 15.9	1.558	2.499	9.6	20.7
10 28	0 8.61	- 0 21.2	2.612	3.488	8.9	20.6	10 28	0 3.20	- 4 42.1	1.612	2.484	13.6	20.9
11 7	0 4.56	- 0 40.6	2.700	3.482	11.4	20.8	11 7	23 58.69	- 4 49.3	1.686	2.470	17.1	21.1
407508	2010 <i>VJ</i> ₁₀₃		9 30.2 172°87	4.8/24.3	18		443421	2014 <i>HJ</i> ₈₁		9 30.2 15°10	2.0/28.4	16	
8 29	0 48.26	-12 55.5	2.546	3.431	9.5	21.1	8 29	0 46.25	+ 0 56.6	1.559	2.454	13.8	20.7
9 8	0 42.70	-13 46.5	2.493	3.432	7.1	21.0	9 8	0 41.93	+ 0 1.1	1.504	2.456	9.8	20.5
9 18	0 35.82	-14 33.8	2.465	3.434	5.3	20.9	9 18	0 35.64	- 1 4.1	1.471	2.460	5.4	20.2
9 28	0 28.18	-15 12.3	2.466	3.435	5.0	20.9	9 28	0 28.19	- 2 12.0	1.464	2.463	2.0	20.0
10 8	0 20.48	-15 37.7	2.495	3.436	6.6	21.0	10 8	0 20.63	- 3 14.5	1.483	2.468	5.0	20.2
10 18	0 13.42	-15 47.2	2.551	3.437	8.8	21.1	10 18	0 13.97	- 4 4.4	1.528	2.473	9.3	20.5
10 28	0 7.59	-15 39.9	2.631	3.437	11.1	21.3	10 28	0 9.11	- 4 36.7	1.597	2.478	13.2	20.8
11 7	0 3.43	-15 16.3	2.733	3.437	13.1	21.4	11 7	0 6.56	- 4 49.1	1.686	2.484	16.5	21.0
216462	Polyphontes		9 30.2 318°87	2.4/ 4.9	18		353190	2009 <i>ST</i>		9 30.2 308°93	0.4/30.6	16	
8 29	0 40.59	+16 48.8	4.039										

EPHEMERIDES

9 30.2

9 30.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
257669	1999	VV ₇₅	9 30.2 196°85	1°6/ 1.9 17			248486	2005	UY ₂₆₁	9 30.2 57°75	1°0/29.2 18		
8 29	0 50.82	+10 49.8	2.106	2.950	12.8	22.0	8 29	0 46.99	+ 2 20.6	2.020	2.899	11.8	21.1
9 8	0 44.91	+10 12.4	2.026	2.946	9.6	21.8	9 8	0 42.12	+ 1 39.4	1.957	2.902	8.4	20.9
9 18	0 37.25	+ 9 19.3	1.969	2.942	5.9	21.6	9 18	0 35.64	+ 0 49.7	1.919	2.905	4.6	20.6
9 28	0 28.50	+ 8 13.7	1.940	2.937	2.3	21.3	9 28	0 28.22	- 0 3.8	1.907	2.908	1.1	20.4
10 8	0 19.54	+ 7 1.0	1.940	2.932	3.0	21.4	10 8	0 20.69	- 0 55.2	1.924	2.912	3.7	20.6
10 18	0 11.25	+ 5 47.9	1.970	2.925	6.8	21.6	10 18	0 13.87	- 1 39.2	1.969	2.915	7.5	20.8
10 28	0 4.47	+ 4 41.0	2.027	2.917	10.4	21.8	10 28	0 8.50	- 2 11.2	2.040	2.918	10.9	21.1
11 7	23 59.73	+ 3 45.8	2.108	2.909	13.5	22.0	11 7	0 5.06	- 2 28.8	2.133	2.922	13.8	21.3
361459	2007	CO ₃₃	9 30.2 154°74	3°5/ 4.1 18			293483	2007	FK ₂₄	9 30.2 53°20	0°1/30.1 18		
8 29	0 48.81	+15 26.7	2.331	3.153	12.4	21.3	8 29	0 44.73	+ 6 10.1	2.138	3.007	11.6	20.6
9 8	0 43.34	+15 30.9	2.255	3.155	9.7	21.1	9 8	0 40.43	+ 5 12.6	2.073	3.012	8.4	20.4
9 18	0 36.31	+15 19.8	2.202	3.158	6.8	20.9	9 18	0 34.67	+ 4 3.3	2.032	3.016	4.7	20.1
9 28	0 28.32	+14 54.3	2.176	3.160	4.1	20.8	9 28	0 28.05	+ 2 47.0	2.019	3.020	0.8	19.9
10 8	0 20.17	+14 17.6	2.178	3.162	3.8	20.7	10 8	0 21.33	+ 1 30.1	2.035	3.025	3.1	20.1
10 18	0 12.62	+13 34.0	2.209	3.164	6.1	20.9	10 18	0 15.25	+ 0 18.9	2.079	3.029	6.8	20.3
10 28	0 6.43	+12 48.9	2.267	3.166	9.0	21.1	10 28	0 10.50	- 0 41.0	2.149	3.034	10.2	20.5
11 7	0 2.09	+12 7.8	2.349	3.168	11.8	21.3	11 7	0 7.52	- 1 26.1	2.243	3.038	13.0	20.7
273633	2007	DW ₄₅	9 30.2 235°76	0°7/29.6 18			12974	Halitherses	9 30.2 349°19	0°3/29.7 18	R		
8 29	0 49.29	+ 4 30.2	1.834	2.708	13.0	21.9	8 29	0 41.44	+ 2 28.2	4.056	4.920	6.7	18.3
9 8	0 44.05	+ 3 35.6	1.755	2.697	9.4	21.7	9 8	0 37.52	+ 2 10.7	3.981	4.919	4.8	18.2
9 18	0 36.86	+ 2 27.8	1.700	2.685	5.3	21.4	9 18	0 32.84	+ 1 49.2	3.934	4.918	2.7	18.0
9 28	0 28.44	+ 1 12.2	1.672	2.673	1.0	21.1	9 28	0 27.71	+ 1 25.6	3.916	4.917	0.5	17.8
10 8	0 19.74	- 0 3.9	1.672	2.661	4.0	21.3	10 8	0 22.51	+ 1 2.3	3.928	4.916	1.9	18.0
10 18	0 11.74	- 1 13.0	1.700	2.648	8.3	21.5	10 18	0 17.61	+ 0 41.4	3.970	4.915	4.1	18.1
10 28	0 5.36	- 2 8.4	1.754	2.634	12.3	21.8	10 28	0 13.38	+ 0 24.9	4.040	4.915	6.1	18.3
11 7	0 1.21	- 2 46.1	1.829	2.620	15.7	22.0	11 7	0 10.10	+ 0 14.5	4.136	4.914	7.8	18.4
490883	2011	BU ₃₉	9 30.2 245°60	1°5/ 1.9 17			294194	2007	TO ₄₁₈	9 30.2 36°17	1°8/ 1.9 18		
8 29	0 49.03	+ 9 8.6	2.789	3.629	10.1	21.5	8 29	0 48.24	+ 9 44.9	1.623	2.489	14.9	20.9
9 8	0 43.34	+ 9 8.3	2.695	3.614	7.6	21.3	9 8	0 43.36	+ 9 25.0	1.562	2.495	11.1	20.6
9 18	0 36.27	+ 8 58.5	2.626	3.598	4.7	21.1	9 18	0 36.47	+ 8 48.2	1.523	2.501	6.8	20.4
9 28	0 28.33	+ 8 40.6	2.586	3.583	2.0	20.9	9 28	0 28.39	+ 7 58.2	1.509	2.507	2.6	20.2
10 8	0 20.14	+ 8 17.4	2.576	3.567	2.5	20.9	10 8	0 20.17	+ 7 1.2	1.521	2.513	3.4	20.2
10 18	0 12.37	+ 7 52.1	2.597	3.551	5.4	21.1	10 18	0 12.86	+ 6 4.4	1.561	2.520	7.7	20.5
10 28	0 5.68	+ 7 28.4	2.645	3.534	8.3	21.2	10 28	0 7.36	+ 5 15.0	1.625	2.528	11.8	20.8
11 7	0 0.56	+ 7 9.8	2.719	3.517	10.9	21.4	11 7	0 4.23	+ 4 38.2	1.711	2.535	15.2	21.0
387444	2013	WU ₆₀	9 30.2 247°93	1°7/28.7 18			225193	2008	JC ₁₂	9 30.2 7°90	0°0/30.1 18		
8 29	0 50.55	+ 0 52.5	1.702	2.586	13.4	21.8	8 29	0 46.49	+ 6 3.8	1.169	2.065	17.2	20.4
9 8	0 45.06	+ 0 7.4	1.627	2.575	9.6	21.5	9 8	0 42.66	+ 5 24.0	1.114	2.066	12.5	20.2
9 18	0 37.48	- 0 47.3	1.576	2.564	5.4	21.3	9 18	0 36.29	+ 4 25.7	1.080	2.067	7.1	19.9
9 28	0 28.56	- 1 45.8	1.552	2.552	1.8	21.0	9 28	0 28.38	+ 3 15.5	1.068	2.069	1.3	19.5
10 8	0 19.34	- 2 40.9	1.555	2.540	4.8	21.2	10 8	0 20.27	+ 2 3.4	1.081	2.073	4.5	19.7
10 18	0 10.92	- 3 25.7	1.585	2.528	9.2	21.4	10 18	0 13.32	+ 0 59.7	1.117	2.077	10.1	20.1
10 28	0 4.26	- 3 55.0	1.640	2.516	13.3	21.6	10 28	0 8.66	+ 0 12.8	1.176	2.082	14.9	20.4
11 7	0 0.01	- 4 6.0	1.715	2.503	16.7	21.9	11 7	0 6.90	- 0 12.6	1.253	2.089	19.0	20.7
342191	2008	SX ₂₀₃	9 30.2 47°38	6°7/26.0 17			353309	2010	JC ₇₉	9 30.2 8°73	4°2/26.5 18		
8 29	0 55.42	-12 9.3	1.341	2.240	15.2	20.7	8 29	0 47.23	- 4 46.4	1.503	2.406	13.6	19.9
9 8	0 48.50	-12 43.0	1.309	2.258	11.3	20.6	9 8	0 42.71	- 5 49.6	1.451	2.407	9.8	19.7
9 18	0 39.25	-13 10.0	1.298	2.275	7.8	20.4	9 18	0 36.13	- 6 56.7	1.422	2.409	5.9	19.4
9 28	0 28.84	-13 22.2	1.313	2.294	6.7	20.4	9 28	0 28.34	- 7 59.4	1.418	2.411	4.3	19.3
10 8	0 18.64	-13 14.2	1.352	2.313	9.0	20.6	10 8	0 20.43	- 8 49.4	1.440	2.413	7.0	19.5
10 18	0 9.90	-12 44.3	1.416	2.332	12.4	20.8	10 18	0 13.49	- 9 20.6	1.487	2.416	10.9	19.8
10 28	0 3.56	-11 53.4	1.502	2.351	15.8	21.1	10 28	0 8.43	- 9 29.8	1.556	2.420	14.5	20.0
11 7	0 0.06	-10 45.1	1.607	2.371	18.6	21.4	11 7	0 5.80	- 9 16.9	1.645	2.424	17.6	20.2
55033	2001	QT ₄₈	9 30.2 70°49	1°0/ 1.2 18			46795	1998	JW ₄	9 30.2 98°35	0°7/29.7 17		
8 29	0 48.38	+ 7 40.7	1.916	2.780	13.0	19.5	8 29	0 55.38	+ 3 3.9	1.565	2.440	14.8	19.6
9 8	0 43.24	+ 7 18.5	1.847	2.781	9.6	19.3	9 8	0 48.29	+ 2 35.7	1.522	2.464	10.6	19.4
9 18	0 36.32	+ 6 43.3	1.801	2.781	5.7	19.1	9 18	0 39.13	+ 1 57.3	1.501	2.486	5.9	19.2
9 28	0 28.34	+ 5 58.4	1.782	2.782	1.7	18.8	9 28	0 28.87	+ 1 14.2	1.507	2.508	1.1	18.9
10 8	0 20.19	+ 5 9.2	1.790	2.782	3.1	18.9	10 8	0 18.71	+ 0 33.0	1.541	2.530	4.1	19.2
10 18	0 12.77	+ 4 21.5	1.827	2.783	7.1	19.2	10 18	0 9.76	- 0 0.4	1.602	2.551	8.6	19.5
10 28	0 6.92	+ 3 41.0	1.889	2.783	10.8	19.4	10 28	0 2.91	- 0 21.3	1.688	2.571	12.5	19.8
11 7	0 3.17	+ 3 12.1	1.974	2.784	14.0	19.6	11 7	23 58.65	- 0 27.4	1.796	2.591	15.8	20.1
216518	2000	YZ ₄₈	9 30.2 76°98	6°8/ 8.3 18			250941	2005	XP ₉₂	9 30.2 217°30	6°1/22.7 18		
8 29	0 48.53	+25 54.7	2.250	3.014	14.6	19.7	8 29	0 51.47	-19 17.1	2.726	3.597	9.4	20.8
9 8	0 43.34	+26 18.2	2.172	3.017	12.3	19.5	9 8	0 45.01	-20 1.1	2.667	3.589	7.5	20.6
9 18	0 36.40	+26 19.8	2.114	3.020	9.9	19.4	9 18	0 37.16	-20 37.5	2.634	3.581	6.3	20.6
9 28	0 28.36	+25 58.5	2.080	3.022	7.8	19.2	9 28	0 28.52	-21 1.3	2.629	3.572	6.3	20.6
10 8	0 20.10	+25 16.1	2.072	3.025	6.8	19.2	10 8	0 19.80	-21 8.7	2.652	3.563	7.7	20.6
10 18	0 12.50	+24 16.9	2.090	3.028	7.7	19.3	10 18	0 11.70	-20 57.9	2.702	3.554	9.6	20.7
10 28	0 6.38	+23 7.7	2.135	3.031	9.7	19.4	10 28	0 4.88	-20 28.8	2.776	3.544	11.5	20.9
11 7	0 2.29	+21 56.1	2.205	3.034	12.0	19.6	11 7	23 59.76	-19 43.0	2.871	3.534	13.3	21.0
41717	2000	UX ₇₈	9 30.2 261°94	0°9/29.4 18			307136	2002	CJ ₁₇₂	9 30.2 188°74	3°2/27.1 18		
8 29	0 50.48	+ 2 19.5											

EPHEMERIDES

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9 30.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
403503	2009 <i>VN</i> ₅₉		9 30.2 291.°70	3.°2/ 3.3 17			221020	2005 <i>PS</i> ₂₀		9 30.2 350.°46	2.°3/ 1.8 18		
8 29	0 50.43	+13 0.6	2.292	3.123	12.3	20.9	8 29	0 47.87	+ 8 25.5	1.108	2.000	18.3	19.2
9 8	0 44.72	+13 23.3	2.196	3.103	9.6	20.7	9 8	0 43.95	+ 8 35.1	1.046	1.992	13.8	18.9
9 18	0 37.25	+13 33.2	2.123	3.084	6.6	20.5	9 18	0 37.21	+ 8 25.2	1.002	1.985	8.5	18.6
9 28	0 28.58	+13 30.6	2.077	3.064	3.8	20.3	9 28	0 28.62	+ 7 58.3	0.981	1.980	3.3	18.3
10 8	0 19.53	+13 17.3	2.059	3.045	3.7	20.2	10 8	0 19.62	+ 7 21.0	0.982	1.976	4.5	18.3
10 18	0 10.95	+12 56.7	2.070	3.025	6.5	20.4	10 18	0 11.76	+ 6 41.9	1.007	1.973	10.0	18.6
10 28	0 3.70	+12 33.7	2.109	3.006	9.7	20.5	10 28	0 6.38	+ 6 9.9	1.053	1.971	15.1	18.9
11 7	23 58.39	+12 13.1	2.171	2.987	12.7	20.7	11 7	0 4.22	+ 5 52.0	1.118	1.971	19.5	19.2
237816	2002 <i>CE</i> ₁₂₄		9 30.2 172.°53	0.°4/30.6 18			428675	2008 <i>HL</i> ₁₁		9 30.2 141.°56	4.°2/26.4 17		
8 29	0 49.05	+ 7 2.3	1.916	2.781	13.0	21.2	8 29	0 49.98	- 4 19.3	1.573	2.469	13.6	21.4
9 8	0 43.71	+ 6 19.7	1.847	2.783	9.5	21.0	9 8	0 44.62	- 5 36.7	1.520	2.473	9.7	21.2
9 18	0 36.61	+ 5 23.7	1.803	2.784	5.5	20.7	9 18	0 37.20	- 6 58.7	1.491	2.477	5.8	21.0
9 28	0 28.44	+ 4 18.7	1.785	2.786	1.2	20.5	9 28	0 28.58	- 8 16.6	1.488	2.480	4.3	20.9
10 8	0 20.12	+ 3 11.0	1.795	2.787	3.2	20.6	10 8	0 19.85	- 9 21.5	1.512	2.484	7.0	21.1
10 18	0 12.56	+ 2 7.3	1.834	2.787	7.4	20.9	10 18	0 12.10	-10 6.9	1.562	2.487	10.8	21.3
10 28	0 6.58	+ 1 13.8	1.900	2.787	11.1	21.1	10 28	0 6.26	-10 29.2	1.635	2.489	14.4	21.6
11 7	0 2.70	+ 0 34.8	1.987	2.787	14.3	21.3	11 7	0 2.86	-10 28.2	1.727	2.492	17.5	21.8
436388	2010 <i>VP</i> ₄₈		9 30.2 285.°37	3.°7/22.6 18			447428	2006 <i>DH</i>		9 30.2 186.°30	3.°6/25.3 18		
8 29	0 41.33	-16 30.4	4.296	5.176	6.0	20.8	8 29	0 45.38	- 7 18.6	2.605	3.493	9.2	21.9
9 8	0 37.44	-17 10.0	4.236	5.167	4.7	20.7	9 8	0 40.71	- 8 28.5	2.545	3.492	6.6	21.7
9 18	0 32.80	-17 45.9	4.202	5.158	3.8	20.6	9 18	0 34.78	- 9 39.3	2.512	3.492	4.3	21.6
9 28	0 27.73	-18 15.5	4.197	5.149	3.9	20.6	9 28	0 28.13	-10 45.6	2.507	3.491	3.7	21.6
10 8	0 22.59	-18 36.1	4.221	5.139	4.8	20.7	10 8	0 21.38	-11 42.2	2.532	3.490	5.5	21.7
10 18	0 17.75	-18 46.2	4.272	5.130	6.2	20.8	10 18	0 15.16	-12 25.2	2.584	3.489	8.0	21.8
10 28	0 13.57	-18 44.9	4.348	5.121	7.6	20.9	10 28	0 10.06	-12 51.9	2.662	3.487	10.4	22.0
11 7	0 10.32	-18 32.1	4.446	5.112	8.8	21.0	11 7	0 6.48	-13 1.8	2.762	3.485	12.5	22.2
148231	2000 <i>DG</i> ₁₀₈		9 30.2 183.°01	1.°7/28.6 18			149560	2003 <i>QZ</i> ₉₁		9 30.2 38.°70	0.°8/18.1 06 C		
8 29	0 51.45	+ 0 42.5	1.882	2.760	12.6	20.9	8 29	0 29.71	-25 57.1	31.906	32.760	1.0	23.3
9 8	0 45.46	- 0 4.7	1.816	2.761	9.0	20.7	9 8	0 28.82	-26 6.6	31.884	32.775	0.8	23.3
9 18	0 37.60	- 1 0.0	1.775	2.761	5.0	20.5	9 18	0 27.86	-26 15.0	31.888	32.789	0.8	23.3
9 28	0 28.63	- 1 57.8	1.761	2.761	1.7	20.2	9 28	0 26.84	-26 22.2	31.919	32.804	0.8	23.3
10 8	0 19.51	- 2 51.6	1.776	2.760	4.5	20.4	10 8	0 25.82	-26 27.8	31.977	32.818	1.0	23.4
10 18	0 11.19	- 3 35.5	1.818	2.758	8.5	20.7	10 18	0 24.83	-26 31.7	32.059	32.833	1.1	23.4
10 28	0 4.54	- 4 4.9	1.887	2.756	12.1	20.9	10 28	0 23.91	-26 33.8	32.165	32.848	1.3	23.4
11 7	0 0.09	- 4 17.7	1.976	2.753	15.2	21.1	11 7	0 23.11	-26 33.9	32.292	32.862	1.4	23.4
2808	Belgrano		9 30.2 307.°45	4.°0/ 4.2 18			458320	2010 <i>VG</i> ₉₆		9 30.2 88.°59	5.°1/24.6 18		
8 29	0 48.55	+15 38.5	2.067	2.894	13.6	16.0	8 29	0 48.56	-12 10.5	2.229	3.118	10.4	20.9
9 8	0 43.43	+15 50.7	1.984	2.887	10.7	15.8	9 8	0 43.07	-13 3.2	2.183	3.126	7.8	20.7
9 18	0 36.52	+15 46.1	1.924	2.880	7.6	15.6	9 18	0 36.12	-13 52.2	2.163	3.135	5.6	20.6
9 28	0 28.45	+15 25.2	1.889	2.873	4.7	15.4	9 28	0 28.37	-14 31.6	2.170	3.143	5.3	20.6
10 8	0 20.09	+14 50.8	1.882	2.866	4.3	15.3	10 8	0 20.61	-14 56.7	2.205	3.151	7.0	20.7
10 18	0 12.36	+14 7.7	1.902	2.859	6.8	15.5	10 18	0 13.59	-15 4.6	2.266	3.159	9.5	20.9
10 28	0 6.10	+13 22.1	1.949	2.853	10.1	15.7	10 28	0 7.98	-14 54.4	2.351	3.168	11.9	21.1
11 7	0 1.92	+12 40.1	2.020	2.846	13.1	15.9	11 7	0 4.20	-14 27.0	2.457	3.176	14.0	21.3
138669	2000 <i>RJ</i> ₁₀₄		9 30.2 331.°38	6.°5/ 5.7 17			397702	2008 <i>CF</i> ₁₈₉		9 30.2 83.°12	4.°7/24.4 18		
8 29	0 52.06	+20 9.6	1.921	2.724	15.4	18.9	8 29	0 48.26	-10 11.2	2.299	3.187	10.2	20.7
9 8	0 46.20	+21 1.5	1.839	2.718	12.6	18.7	9 8	0 42.69	-11 31.6	2.273	3.217	7.4	20.6
9 18	0 38.20	+21 34.2	1.779	2.713	9.7	18.6	9 18	0 35.82	-12 48.7	2.273	3.247	5.2	20.5
9 28	0 28.77	+21 45.6	1.744	2.708	7.2	18.4	9 28	0 28.31	-13 56.4	2.302	3.277	4.9	20.5
10 8	0 18.94	+21 36.7	1.735	2.703	6.6	18.4	10 8	0 20.89	-14 49.3	2.360	3.306	6.6	20.7
10 18	0 9.78	+21 11.0	1.752	2.698	8.3	18.4	10 18	0 14.26	-15 24.3	2.444	3.335	9.0	20.9
10 28	0 2.34	+20 35.0	1.795	2.694	11.1	18.6	10 28	0 9.00	-15 40.0	2.554	3.363	11.3	21.1
11 7	23 57.31	+19 56.3	1.861	2.690	14.0	18.8	11 7	0 5.47	-15 37.4	2.683	3.391	13.2	21.3
478636	2012 <i>TW</i> ₁₉₁		9 30.2 337.°04	4.°1/ 3.0 18			70007	1998 <i>XX</i> ₄₀		9 30.2 320.°41	6.°3/ 7.2 18		
8 29	0 49.82	+12 2.9	1.341	2.207	17.4	20.7	8 29	0 47.84	+23 19.1	2.198	2.981	14.3	18.4
9 8	0 45.12	+12 31.0	1.268	2.196	13.5	20.4	9 8	0 42.94	+23 45.3	2.112	2.974	11.9	18.2
9 18	0 37.80	+12 39.8	1.214	2.186	9.0	20.1	9 18	0 36.27	+23 51.3	2.047	2.967	9.4	18.0
9 28	0 28.72	+12 29.4	1.184	2.176	4.9	19.9	9 28	0 28.44	+23 35.7	2.006	2.960	7.2	17.9
10 8	0 19.15	+12 3.5	1.178	2.168	4.9	19.9	10 8	0 20.30	+23 0.3	1.991	2.953	6.3	17.8
10 18	0 10.52	+11 28.6	1.197	2.160	9.1	20.1	10 18	0 12.74	+22 9.2	2.003	2.947	7.5	17.9
10 28	0 4.09	+10 53.2	1.239	2.153	13.7	20.3	10 28	0 6.62	+21 8.9	2.041	2.940	9.9	18.0
11 7	0 0.65	+10 25.1	1.301	2.148	17.7	20.6	11 7	0 2.54	+20 6.7	2.103	2.935	12.4	18.2
157041	2003 <i>SC</i> ₃₇		9 30.2 352.°02	3.°3/ 4.7 18			319461	2006 <i>OP</i> ₂		9 30.2 66.°18	6.°0/ 4.7 17		
8 29	0 43.62	+18 37.0	2.063	2.883	13.9	19.4	8 29	0 58.38	+17 15.4	1.253	2.091	20.0	20.4
9 8	0 39.80	+17 32.6	1.982	2.882	10.9	19.2	9 8	0 50.90	+17 46.4	1.216	2.122	15.7	20.2
9 18	0 34.40	+16 4.6	1.924	2.880	7.5	19.0	9 18	0 40.76	+17 49.9	1.198	2.154	11.1	20.0
9 28	0 28.04	+14 16.5	1.892	2.879	4.3	18.8	9 28	0 29.23	+17 26.6	1.204	2.186	7.1	19.9
10 8	0 21.55	+12 15.0	1.889	2.878	3.6	18.7	10 8	0 17.87	+16 41.9	1.234	2.217	6.3	20.0
10 18	0 15.71	+10 8.9	1.916	2.877	6.4	18.9	10 18	0 8.15	+15 45.1	1.290	2.248	9.3	20.2
10 28	0 11.27	+ 8 7.6	1.970	2.876	9.8	19.1	10 28	0 1.14	+14 46.6	1.370	2.279	13.1	20.5
11 7	0 8.72	+ 6 19.2	2.049	2.876	12.9	19.3	11 7	23 57.32	+13 55.6	1.471	2.309	16.5	20.8
44449	1998 <i>UK</i> ₂₄		9 30.2 49.°70	6.°9/ 6.4 18			263208						

EPHEMERIDES

9 30.2

9 30.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
258727	2002 <i>GP</i> ₁₀₁		9 30.2 108°87	0°9/ 1.4 18			246262	2007 <i>TJ</i> ₁₇		9 30.3 16°11	0°6/29.9 17		
8 29	0 45.50	+ 9 27.2	2.316	3.169	11.4	20.5	8 29	0 47.14	+ 2 24.9	0.758	1.683	20.7	19.7
9 8	0 40.91	+ 8 38.0	2.250	3.178	8.4	20.4	9 8	0 43.80	+ 2 25.7	0.725	1.690	14.9	19.4
9 18	0 34.93	+ 7 35.7	2.209	3.186	5.0	20.2	9 18	0 37.17	+ 2 11.0	0.708	1.700	8.4	19.1
9 28	0 28.17	+ 6 24.3	2.195	3.194	1.6	19.9	9 28	0 28.64	+ 1 48.1	0.710	1.712	1.5	18.7
10 8	0 21.32	+ 5 9.3	2.211	3.203	2.6	20.0	10 8	0 20.10	+ 1 26.3	0.733	1.726	5.6	19.1
10 18	0 15.10	+ 3 56.6	2.256	3.211	6.1	20.3	10 18	0 13.31	+ 1 14.3	0.775	1.742	12.0	19.5
10 28	0 10.14	+ 2 51.8	2.328	3.218	9.2	20.5	10 28	0 9.58	+ 1 18.4	0.837	1.760	17.4	19.9
11 7	0 6.87	+ 1 59.1	2.424	3.226	12.0	20.7	11 7	0 9.42	+ 1 41.0	0.914	1.779	21.8	20.2
89878	2002 <i>CL</i> ₂₀₇		9 30.2 352°16	0°4/29.5 16			268371	2005 <i>TF</i> ₁₄₉		9 30.3 77°48	2°0/28.5 17		
8 29	0 40.85	+ 2 14.4	4.005	4.871	6.7	20.2	8 29	0 49.33	+ 1 44.2	1.471	2.361	14.7	20.7
9 8	0 37.14	+ 1 49.1	3.932	4.870	4.8	20.0	9 8	0 44.20	+ 0 35.5	1.423	2.374	10.4	20.5
9 18	0 32.67	+ 1 19.7	3.885	4.870	2.6	19.9	9 18	0 36.98	- 0 44.0	1.398	2.386	5.7	20.3
9 28	0 27.75	+ 0 48.4	3.868	4.869	0.5	19.7	9 28	0 28.59	- 2 6.2	1.399	2.399	2.0	20.1
10 8	0 22.76	+ 0 17.6	3.881	4.869	2.0	19.8	10 8	0 20.18	- 3 21.8	1.426	2.411	5.2	20.3
10 18	0 18.07	- 0 10.3	3.924	4.868	4.2	20.0	10 18	0 12.83	- 4 22.9	1.480	2.423	9.7	20.6
10 28	0 14.05	- 0 33.1	3.995	4.868	6.2	20.1	10 28	0 7.46	- 5 4.2	1.557	2.436	13.7	20.9
11 7	0 10.98	- 0 49.1	4.091	4.867	7.9	20.3	11 7	0 4.57	- 5 23.6	1.654	2.448	17.0	21.1
112087	2002 <i>JY</i> ₂₇		9 30.2 24°13	6°2/26.5 18			379640	2011 <i>DP</i> ₃₉		9 30.3 230°66	1°0/ 1.2 18		
8 29	0 52.41	- 8 21.5	1.078	1.991	16.9	18.4	8 29	0 50.60	+ 8 8.2	1.736	2.599	14.2	21.7
9 8	0 46.95	- 9 6.6	1.039	1.997	12.3	18.1	9 8	0 45.14	+ 7 38.2	1.658	2.591	10.5	21.4
9 18	0 38.70	- 9 50.1	1.019	2.004	8.0	17.9	9 18	0 37.60	+ 6 52.5	1.603	2.583	6.3	21.2
9 28	0 28.87	- 10 21.9	1.023	2.012	6.3	17.9	9 28	0 28.74	+ 5 54.9	1.575	2.575	1.8	20.9
10 8	0 19.06	- 10 33.6	1.049	2.021	9.1	18.0	10 8	0 19.57	+ 4 51.6	1.574	2.566	3.4	21.0
10 18	0 10.77	- 10 20.8	1.098	2.031	13.5	18.3	10 18	0 11.18	+ 3 50.0	1.601	2.557	8.0	21.2
10 28	0 5.13	- 9 43.2	1.167	2.041	17.6	18.6	10 28	0 4.54	+ 2 57.2	1.653	2.547	12.1	21.5
11 7	0 2.68	- 8 43.6	1.254	2.052	21.1	18.9	11 7	0 0.28	+ 2 18.4	1.727	2.537	15.7	21.7
316952	2001 <i>DS</i> ₆₀		9 30.2 233°55	3°8/ 4.5 18			263624	2008 <i>GV</i> ₄₁		9 30.3 102°60	0°3/30.6 18		
8 29	0 48.47	+ 16 38.3	2.435	3.248	12.2	20.6	8 29	0 45.50	+ 7 37.1	2.150	3.014	11.8	20.6
9 8	0 43.16	+ 16 45.2	2.349	3.243	9.7	20.4	9 8	0 41.02	+ 6 40.4	2.084	3.018	8.6	20.4
9 18	0 36.29	+ 16 36.6	2.287	3.237	6.9	20.3	9 18	0 35.07	+ 5 30.7	2.042	3.023	5.0	20.2
9 28	0 28.45	+ 16 13.2	2.250	3.231	4.4	20.1	9 28	0 28.24	+ 4 12.8	2.027	3.028	1.1	19.9
10 8	0 20.37	+ 15 37.6	2.243	3.224	4.0	20.1	10 8	0 21.32	+ 2 53.0	2.042	3.033	2.9	20.1
10 18	0 12.82	+ 14 53.9	2.264	3.218	6.1	20.2	10 18	0 15.04	+ 1 37.5	2.085	3.037	6.7	20.3
10 28	0 6.55	+ 14 7.4	2.312	3.211	8.9	20.4	10 28	0 10.10	+ 0 32.5	2.155	3.042	10.0	20.5
11 7	0 2.06	+ 13 23.5	2.385	3.205	11.6	20.5	11 7	0 6.95	- 0 18.2	2.248	3.046	12.9	20.7
461218	2015 <i>VN</i> ₁₃₅		9 30.2 291°21	6°0/23.5 18			509228	2006 <i>ST</i> ₃₉₈		9 30.3 328°20	1°7/ 1.5 18		
8 29	0 48.64	- 14 29.4	2.199	3.087	10.6	20.9	8 29	0 45.13	+ 9 30.6	1.132	2.023	18.1	21.2
9 8	0 43.39	- 15 26.9	2.127	3.066	8.2	20.7	9 8	0 42.05	+ 9 1.0	1.060	2.006	13.6	20.9
9 18	0 36.46	- 16 20.5	2.079	3.045	6.4	20.6	9 18	0 36.22	+ 8 6.6	1.006	1.989	8.3	20.6
9 28	0 28.48	- 17 3.3	2.059	3.023	6.3	20.6	9 28	0 28.52	+ 6 51.7	0.974	1.974	2.8	20.2
10 8	0 20.27	- 17 29.9	2.066	3.002	8.0	20.6	10 8	0 20.29	+ 5 25.5	0.966	1.959	4.4	20.3
10 18	0 12.67	- 17 36.5	2.099	2.981	10.6	20.8	10 18	0 13.03	+ 4 0.3	0.980	1.946	10.3	20.6
10 28	0 6.46	- 17 21.7	2.155	2.959	13.3	20.9	10 28	0 8.10	+ 2 48.0	1.017	1.933	15.7	20.8
11 7	0 2.18	- 16 46.8	2.231	2.938	15.6	21.0	11 7	0 6.34	+ 1 57.2	1.071	1.922	20.4	21.1
63729	2001 <i>QG</i> ₂₃₈		9 30.2 32°72	1°2/29.3 17			431723	2008 <i>ET</i> ₁₆₇		9 30.3 230°57	2°7/ 2.8 18		
8 29	0 47.50	+ 3 47.5	1.045	1.951	18.0	17.9	8 29	0 51.25	+ 12 54.6	1.821	2.664	14.5	22.1
9 8	0 43.33	+ 2 53.0	1.011	1.969	12.8	17.6	9 8	0 45.63	+ 12 31.8	1.735	2.652	11.2	21.9
9 18	0 36.60	+ 1 43.2	0.998	1.988	7.0	17.4	9 18	0 37.90	+ 11 49.6	1.671	2.640	7.3	21.7
9 28	0 28.49	+ 0 27.6	1.006	2.008	1.5	17.1	9 28	0 28.81	+ 10 50.4	1.633	2.627	3.5	21.4
10 8	0 20.48	- 0 42.7	1.039	2.029	5.3	17.5	10 8	0 19.34	+ 9 39.5	1.623	2.614	3.6	21.4
10 18	0 13.90	- 1 38.0	1.095	2.051	10.7	17.8	10 18	0 10.58	+ 8 24.1	1.641	2.600	7.6	21.6
10 28	0 9.78	- 2 12.0	1.172	2.074	15.3	18.2	10 28	0 3.53	+ 7 12.8	1.686	2.585	11.6	21.8
11 7	0 8.56	- 2 22.7	1.267	2.098	19.1	18.5	11 7	23 58.85	+ 6 12.4	1.753	2.570	15.2	22.0
478748	2012 <i>UT</i> ₈₈		9 30.2 319°55	0°0/30.1 18			512136	2015 <i>PP</i> ₄₉		9 30.3 137°71	4°1/25.7 18		
8 29	0 48.17	+ 5 6.9	1.525	2.408	14.7	21.1	8 29	0 50.52	- 8 50.5	2.281	3.165	10.4	21.9
9 8	0 43.58	+ 4 38.3	1.453	2.398	10.7	20.9	9 8	0 44.44	- 9 43.9	2.233	3.177	7.6	21.7
9 18	0 36.78	+ 3 55.7	1.402	2.388	6.1	20.6	9 18	0 36.91	- 10 36.1	2.210	3.188	5.0	21.6
9 28	0 28.57	+ 3 3.7	1.377	2.378	1.1	20.2	9 28	0 28.58	- 11 21.4	2.216	3.199	4.2	21.5
10 8	0 20.04	+ 2 9.4	1.378	2.369	4.0	20.4	10 8	0 20.24	- 11 55.0	2.251	3.209	6.0	21.7
10 18	0 12.34	+ 1 20.2	1.405	2.360	8.9	20.7	10 18	0 12.65	- 12 13.6	2.313	3.219	8.7	21.9
10 28	0 6.52	+ 0 43.1	1.456	2.352	13.3	20.9	10 28	0 6.47	- 12 15.4	2.401	3.228	11.3	22.0
11 7	0 3.24	+ 0 22.4	1.527	2.344	17.0	21.2	11 7	0 2.14	- 12 0.9	2.510	3.236	13.6	22.2
134767	2000 <i>CS</i> ₁₁₃		9 30.2 300°94	2°1/25.8 18			287920	2003 <i>TP</i> ₅₈		9 30.3 337°51	2°5/ 2.7 18		
8 29	0 40.09	- 7 21.7	4.336	5.219	5.9	19.8	8 29	0 45.84	+ 11 37.3	1.887	2.742	13.6	20.2
9 8	0 36.57	- 8 0.4	4.271	5.216	4.2	19.7	9 8	0 41.59	+ 11 27.8	1.809	2.733	10.4	19.9
9 18	0 32.34	- 8 39.3	4.233	5.213	2.7	19.6	9 18	0 35.55	+ 11 2.1	1.752	2.724	6.7	19.7
9 28	0 27.71	- 9 15.7	4.224	5.210	2.2	19.6	9 28	0 28.36	+ 10 22.4	1.721	2.716	3.2	19.5
10 8	0 23.03	- 9 47.1	4.246	5.207	3.3	19.6	10 8	0 20.91	+ 9 33.2	1.717	2.708	3.4	19.5
10 18	0 18.62	- 10 11.5	4.296	5.204	5.0	19.8	10 18	0 14.12	+ 8 40.5	1.740	2.701	7.0	19.7
10 28	0 14.82	- 10 27.3	4.374	5.201	6.6	19.9	10 28	0 8.83	+ 7 50.9	1.789	2.695	10.7	19.9
11 7	0 11.89	- 10 33.7	4.475	5.199	8.0	20.0	11 7	0 5.64	+ 7 10.2	1.861	2.689	14.0	20.1
352346	2007 <i>VX</i> ₁₀₀		9 30.3 12°54	2°5/28.4 18			215513	2002 <i>UP</i> ₁₉		9 30.3 276°89	7°2/23.0 18		

EPHEMERIDES

9 30.3

9 30.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
243079	2007 <i>JN</i> ₃₅		9 30.3 166°44'	2°6'/27.4 18			12654	4118 <i>T</i> ₋₃		9 30.3 15°70'	1°0'/29.2 18		
8 29	0 48.56	- 4 37.2	2.450	3.331	9.9	20.5	8 29	0 44.14	+ 4 18.3	1.884	2.766	12.4	17.9
9 8	0 43.04	- 5 8.7	2.387	3.333	7.1	20.3	9 8	0 40.23	+ 3 7.3	1.822	2.768	8.8	17.7
9 18	0 36.15	- 5 42.0	2.350	3.334	4.2	20.1	9 18	0 34.70	+ 1 44.2	1.784	2.771	4.9	17.5
9 28	0 28.46	- 6 12.9	2.341	3.335	2.6	20.0	9 28	0 28.21	+ 0 15.4	1.773	2.774	1.1	17.2
10 8	0 20.68	- 6 37.2	2.361	3.336	4.5	20.2	10 8	0 21.60	- 1 11.5	1.790	2.777	3.9	17.4
10 18	0 13.51	- 6 51.7	2.410	3.337	7.4	20.4	10 18	0 15.70	- 2 28.9	1.835	2.781	7.9	17.7
10 28	0 7.60	- 6 54.1	2.485	3.338	10.2	20.5	10 28	0 11.26	- 3 31.0	1.905	2.786	11.4	17.9
11 7	0 3.37	- 6 43.4	2.583	3.338	12.5	20.7	11 7	0 8.76	- 4 14.2	1.997	2.790	14.4	18.1
190442	1999 <i>XE</i> ₂₂₅		9 30.3 274°41'	0°0'/30.4 18			319074	2005 <i>WD</i> ₈₁		9 30.3 340°58'	5°8'/24.6 18		
8 29	0 40.47	+ 4 33.6	4.448	5.305	6.3	20.4	8 29	0 48.74	- 12 13.3	1.887	2.781	11.7	20.3
9 8	0 36.86	+ 4 11.7	4.361	5.294	4.5	20.2	9 8	0 43.55	- 13 6.9	1.831	2.777	8.8	20.1
9 18	0 32.53	+ 3 45.1	4.302	5.283	2.6	20.1	9 18	0 36.58	- 13 56.9	1.800	2.773	6.4	20.0
9 28	0 27.78	+ 3 15.6	4.271	5.272	0.5	19.9	9 28	0 28.56	- 14 36.2	1.795	2.770	6.0	20.0
10 8	0 22.95	+ 2 45.3	4.271	5.261	1.6	20.0	10 8	0 20.43	- 14 59.0	1.817	2.766	8.0	20.1
10 18	0 18.36	+ 2 16.4	4.302	5.250	3.7	20.1	10 18	0 13.11	- 15 1.7	1.864	2.763	10.8	20.2
10 28	0 14.35	+ 1 51.1	4.361	5.239	5.6	20.2	10 28	0 7.40	- 14 43.2	1.934	2.761	13.7	20.4
11 7	0 11.20	+ 1 31.1	4.446	5.228	7.2	20.4	11 7	0 3.81	- 14 4.9	2.024	2.758	16.2	20.6
58636	1997 <i>WQ</i> ₁₃		9 30.3 355°64'	3°0'/28.4 18			406725	2008 <i>GE</i> ₄₇		9 30.3 107°23'	5°5'/23.9 18		
8 29	0 51.22	- 4 6.1	1.327	2.229	15.2	18.2	8 29	0 49.68	- 14 43.5	2.402	3.285	10.0	21.6
9 8	0 45.93	- 4 8.6	1.268	2.224	10.9	17.9	9 8	0 43.77	- 15 39.1	2.365	3.302	7.6	21.5
9 18	0 38.15	- 4 13.5	1.231	2.219	6.3	17.7	9 18	0 36.50	- 16 28.9	2.354	3.317	5.9	21.4
9 28	0 28.86	- 4 15.4	1.218	2.216	3.1	17.5	9 28	0 28.53	- 17 7.5	2.371	3.333	5.7	21.4
10 8	0 19.34	- 4 8.7	1.230	2.214	6.0	17.6	10 8	0 20.60	- 17 30.6	2.415	3.348	7.2	21.6
10 18	0 10.93	- 3 49.4	1.267	2.214	10.6	17.9	10 18	0 13.42	- 17 36.0	2.486	3.363	9.4	21.7
10 28	0 4.75	- 3 15.2	1.326	2.214	15.0	18.2	10 28	0 7.60	- 17 23.2	2.581	3.378	11.6	21.9
11 7	0 1.43	- 2 26.0	1.405	2.216	18.6	18.4	11 7	0 3.55	- 16 53.7	2.697	3.392	13.4	22.1
523279	2017 <i>BG</i> ₁₆		9 30.3 208°07'	0°5'/30.9 18			296760	2009 <i>UP</i> ₃₅		9 30.3 19°22'	3°2'/27.1 18		
8 29	0 46.36	+ 6 58.0	2.680	3.534	10.0	22.5	8 29	0 47.55	- 5 3.9	2.031	2.922	11.2	20.1
9 8	0 41.45	+ 6 26.6	2.600	3.530	7.3	22.3	9 8	0 42.54	- 5 42.2	1.975	2.925	8.0	19.9
9 18	0 35.26	+ 5 45.7	2.546	3.525	4.3	22.1	9 18	0 35.95	- 6 22.4	1.943	2.928	4.8	19.7
9 28	0 28.30	+ 4 58.0	2.520	3.520	1.1	21.9	9 28	0 28.44	- 6 59.3	1.939	2.932	3.2	19.6
10 8	0 21.19	+ 4 7.7	2.523	3.515	2.4	22.0	10 8	0 20.86	- 7 27.6	1.962	2.936	5.3	19.7
10 18	0 14.57	+ 3 19.0	2.557	3.509	5.6	22.2	10 18	0 14.02	- 7 43.3	2.012	2.940	8.5	19.9
10 28	0 9.03	+ 2 36.3	2.618	3.503	8.6	22.4	10 28	0 8.62	- 7 44.1	2.088	2.945	11.6	20.2
11 7	0 5.02	+ 2 2.9	2.704	3.496	11.1	22.6	11 7	0 5.16	- 7 29.4	2.184	2.950	14.2	20.4
315936	2008 <i>TD</i> ₂₉		9 30.3 315°70'	0°5'/ 1.3 18			245934	2006 <i>RT</i> ₅₁		9 30.3 338°84'	0°4'/29.9 18		
8 29	0 41.70	+ 6 42.9	4.153	5.001	6.9	20.1	8 29	0 47.39	+ 4 7.7	1.734	2.615	13.3	20.7
9 8	0 37.76	+ 6 32.3	4.071	4.997	5.0	20.0	9 8	0 42.75	+ 3 33.2	1.666	2.611	9.6	20.4
9 18	0 33.05	+ 6 16.1	4.016	4.993	3.0	19.8	9 18	0 36.22	+ 2 47.0	1.621	2.607	5.4	20.2
9 28	0 27.88	+ 5 56.0	3.990	4.989	0.9	19.6	9 28	0 28.51	+ 1 54.0	1.602	2.603	1.0	19.9
10 8	0 22.63	+ 5 33.8	3.994	4.985	1.6	19.7	10 8	0 20.60	+ 1 0.8	1.610	2.600	3.8	20.1
10 18	0 17.66	+ 5 11.9	4.028	4.982	3.7	19.9	10 18	0 13.47	+ 0 13.7	1.645	2.597	8.1	20.3
10 28	0 13.34	+ 4 52.4	4.092	4.978	5.7	20.0	10 28	0 7.98	+ 0 21.5	1.704	2.594	12.1	20.6
11 7	0 9.95	+ 4 37.2	4.181	4.974	7.5	20.1	11 7	0 4.73	+ 0 41.3	1.786	2.592	15.4	20.8
211785	2004 <i>CZ</i> ₂₂		9 30.3 265°32'	1°2'/29.1 18			284230	2006 <i>DB</i> ₆₆		9 30.3 324°32'	0°3'/30.2 15		
8 29	0 48.79	+ 1 44.0	1.878	2.758	12.5	21.2	8 29	1 13.29	- 3 34.4	0.899	1.790	21.6	19.5
9 8	0 43.61	+ 1 7.7	1.810	2.755	8.9	21.0	9 8	1 3.49	- 1 51.8	0.833	1.781	16.1	19.1
9 18	0 36.64	+ 0 22.6	1.766	2.753	5.0	20.8	9 18	0 48.92	- 0 1.7	0.787	1.773	9.4	18.7
9 28	0 28.57	+ 0 26.2	1.749	2.750	1.3	20.5	9 28	0 30.99	+ 1 54.7	0.765	1.766	1.8	18.3
10 8	0 20.31	- 1 12.7	1.760	2.747	4.0	20.7	10 8	0 12.19	+ 3 53.7	0.768	1.759	6.1	18.5
10 18	0 12.81	- 1 51.3	1.798	2.744	8.1	20.9	10 18	23 55.32	+ 5 50.1	0.796	1.753	13.5	18.9
10 28	0 6.88	- 2 17.4	1.862	2.741	11.7	21.2	10 28	23 42.61	+ 7 41.7	0.846	1.748	19.8	19.2
11 7	0 3.08	- 2 28.4	1.947	2.738	14.8	21.4	11 7	23 35.07	+ 9 29.2	0.914	1.743	24.9	19.6
523288	2017 <i>BE</i> ₄₀		9 30.3 216°78'	5°9'/21.5 18			249046	2007 <i>TV</i> ₈₂		9 30.3 85°63'	2°4'/ 1.9 17		
8 29	0 46.43	- 17 7.5	2.738	3.620	9.0	22.1	8 29	0 56.65	+ 9 32.4	1.312	2.178	17.7	20.6
9 8	0 41.49	- 18 25.9	2.683	3.613	7.1	22.0	9 8	0 49.68	+ 9 35.3	1.266	2.197	13.2	20.4
9 18	0 35.28	- 19 39.0	2.654	3.606	6.0	21.9	9 18	0 40.17	+ 9 19.6	1.240	2.217	8.1	20.2
9 28	0 28.30	- 20 41.0	2.654	3.598	6.2	21.9	9 28	0 29.24	+ 8 48.4	1.238	2.236	3.3	19.9
10 8	0 21.21	- 21 27.1	2.681	3.591	7.6	22.0	10 8	0 18.33	+ 8 8.1	1.263	2.255	4.1	20.0
10 18	0 14.64	- 21 54.3	2.734	3.582	9.6	22.1	10 18	0 8.81	+ 7 26.5	1.314	2.273	8.9	20.4
10 28	0 9.19	- 22 1.5	2.811	3.574	11.5	22.2	10 28	0 1.77	+ 6 51.2	1.389	2.292	13.3	20.7
11 7	0 5.29	- 21 49.7	2.907	3.565	13.2	22.3	11 7	23 57.77	+ 6 27.8	1.484	2.310	17.0	21.0
323003	2002 <i>PK</i> ₆₇		9 30.3 62°76'	2°2'/28.5 17			437814	2015 <i>DA</i> ₉₉		9 30.3 159°58'	0°2'/30.5 17		
8 29	0 51.85	+ 1 32.4	1.220	2.117	16.6	20.8	8 29	0 51.30	+ 6 8.4	1.813	2.679	13.5	21.6
9 8	0 46.12	+ 0 24.9	1.189	2.142	11.7	20.6	9 8	0 45.44	+ 5 30.8	1.748	2.685	9.8	21.4
9 18	0 38.05	- 0 53.1	1.178	2.167	6.4	20.4	9 18	0 37.68	+ 4 40.2	1.707	2.689	5.6	21.2
9 28	0 28.80	- 2 12.1	1.193	2.193	2.2	20.2	9 28	0 28.79	+ 3 41.3	1.693	2.694	1.1	20.9
10 8	0 19.73	- 3 21.8	1.233	2.219	5.7	20.5	10 8	0 19.76	+ 2 40.4	1.707	2.698	3.4	21.0
10 18	0 12.09	- 4 14.4	1.298	2.244	10.5	20.9	10 18	0 11.58	+ 1 44.3	1.749	2.701	7.8	21.3
10 28	0 6.80	- 4 45.1	1.386	2.270	14.7	21.2	10 28	0 5.11	+ 0 59.0	1.817	2.704	11.6	21.6
11 7	0 4.31	- 4 53.1	1.492	2.295	18.1	21.5	11 7	0 0.92	+ 0 28.2	1.907	2.706	14.8	21.8
484421	2007 <i>YG</i> ₇₁		9 30.3 260°19'	6°6'/23.3 18			342117	2008 <i>SP</i> ₉₉		9 30.3 238°91'	3°1'/27.5 18		
8 29													

EPHEMERIDES

9 30.3

9 30.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
303138	2004 <i>CX</i> ₁₃₀		9 30.3 201°03	1°0/29.1	18		127338	2002 <i>JE</i> ₁₁₈		9 30.3 326°97	10°2/17.0	18	
8 29	0 46.97	+ 3 21.7	2.191	3.063	11.3	21.2	8 29	0 49.52	-29 9.9	2.175	3.035	11.8	19.3
9 8	0 42.11	+ 2 21.9	2.119	3.061	8.0	21.0	9 8	0 44.02	-30 35.6	2.144	3.034	10.6	19.2
9 18	0 35.73	+ 1 12.2	2.072	3.058	4.4	20.8	9 18	0 36.82	-31 44.9	2.137	3.033	10.3	19.2
9 28	0 28.43	- 0 2.3	2.054	3.055	1.1	20.5	9 28	0 28.66	-32 30.3	2.153	3.032	10.8	19.3
10 8	0 20.98	- 1 15.3	2.065	3.052	3.6	20.7	10 8	0 20.47	-32 47.5	2.192	3.031	12.1	19.3
10 18	0 14.14	- 2 20.8	2.105	3.048	7.3	21.0	10 18	0 13.15	-32 35.3	2.253	3.030	13.7	19.5
10 28	0 8.63	- 3 13.7	2.171	3.044	10.6	21.2	10 28	0 7.43	-31 55.5	2.333	3.029	15.3	19.6
11 7	0 4.94	- 3 50.8	2.259	3.039	13.4	21.4	11 7	0 3.81	-30 52.0	2.429	3.028	16.7	19.7
172363	2002 <i>XK</i> ₆₀		9 30.3 321°60	1°8/ 2.1	18		320208	2007 <i>HK</i> ₂₅		9 30.3 219°08	0°1/30.2	18	
8 29	0 47.35	+10 18.9	1.797	2.656	13.9	19.8	8 29	0 46.95	+ 4 39.5	2.673	3.534	9.9	22.5
9 8	0 42.73	+ 9 55.5	1.722	2.651	10.5	19.6	9 8	0 41.91	+ 4 7.7	2.592	3.527	7.1	22.3
9 18	0 36.23	+ 9 15.6	1.671	2.647	6.5	19.3	9 18	0 35.58	+ 3 27.8	2.536	3.519	4.0	22.1
9 28	0 28.55	+ 8 22.3	1.644	2.642	2.6	19.1	9 28	0 28.45	+ 2 42.7	2.510	3.511	0.7	21.9
10 8	0 20.62	+ 7 21.2	1.645	2.638	3.3	19.1	10 8	0 21.15	+ 1 56.6	2.513	3.503	2.6	22.0
10 18	0 13.43	+ 6 19.3	1.674	2.633	7.3	19.4	10 18	0 14.34	+ 1 13.7	2.545	3.494	5.9	22.2
10 28	0 7.86	+ 5 23.6	1.728	2.629	11.2	19.6	10 28	0 8.61	+ 0 37.9	2.606	3.485	8.8	22.4
11 7	0 4.48	+ 4 39.8	1.804	2.626	14.6	19.8	11 7	0 4.42	+ 0 12.2	2.690	3.475	11.4	22.6
179	<i>Klytaemnestra</i>		9 30.3 11°06	4°1/ 4.5	18	R	329869	2004 <i>XF</i> ₁₆₀		9 30.3 287°11	5°2/24.4	18	
8 29	0 46.20	+16 37.6	1.812	2.646	14.9	12.4	8 29	0 48.10	-11 57.3	2.265	3.154	10.3	21.1
9 8	0 41.90	+16 27.8	1.741	2.648	11.7	12.2	9 8	0 42.99	-12 51.8	2.192	3.135	7.7	20.9
9 18	0 35.74	+15 57.1	1.692	2.650	8.2	12.0	9 18	0 36.29	-13 44.3	2.144	3.116	5.7	20.8
9 28	0 28.45	+15 7.1	1.667	2.652	5.0	11.8	9 28	0 28.59	-14 28.5	2.124	3.097	5.3	20.7
10 8	0 20.96	+14 2.6	1.669	2.655	4.4	11.8	10 8	0 20.68	-14 58.9	2.131	3.078	7.1	20.8
10 18	0 14.24	+12 50.5	1.698	2.659	7.1	11.9	10 18	0 13.34	-15 12.0	2.165	3.059	9.8	20.9
10 28	0 9.14	+11 39.0	1.752	2.662	10.6	12.2	10 28	0 7.33	-15 5.7	2.223	3.040	12.5	21.1
11 7	0 6.21	+10 35.2	1.830	2.666	13.8	12.4	11 7	0 3.16	-14 40.5	2.301	3.021	14.8	21.2
519818	2013 <i>HQ</i> ₁₅₇		9 30.3 129°70	4°0/25.2	18		424470	2008 <i>CD</i> ₁₆₈		9 30.3 132°47	4°4/26.2	17	
8 29	0 46.07	- 7 38.7	2.353	3.243	9.9	21.8	8 29	0 52.55	- 6 20.7	1.745	2.635	12.8	21.8
9 8	0 41.32	- 8 51.8	2.300	3.248	7.2	21.6	9 8	0 46.28	- 7 31.2	1.699	2.647	9.2	21.6
9 18	0 35.21	-10 5.3	2.274	3.254	4.7	21.5	9 18	0 38.12	- 8 42.9	1.677	2.660	5.8	21.4
9 28	0 28.34	-11 13.2	2.276	3.259	4.1	21.4	9 28	0 28.92	- 9 48.1	1.683	2.671	4.5	21.4
10 8	0 21.39	-12 9.7	2.307	3.265	6.0	21.6	10 8	0 19.71	-10 39.5	1.717	2.682	6.9	21.5
10 18	0 15.07	-12 50.8	2.365	3.270	8.6	21.7	10 18	0 11.50	-11 12.0	1.777	2.693	10.3	21.8
10 28	0 10.00	-13 14.0	2.448	3.274	11.2	21.9	10 28	0 5.12	-11 23.4	1.861	2.703	13.5	22.0
11 7	0 6.59	-13 19.1	2.552	3.279	13.4	22.1	11 7	0 1.05	-11 14.1	1.965	2.712	16.2	22.2
296763	2009 <i>UB</i> ₅₁		9 30.3 310°44	1°5/27.7	16		47784	2000 <i>EY</i> ₁₉		9 30.3 235°26	2°8/26.4	18	
8 29	0 42.25	- 3 47.8	4.051	4.927	6.4	19.8	8 29	0 44.53	- 3 27.2	2.536	3.421	9.5	18.8
9 8	0 38.17	- 4 7.9	3.976	4.920	4.6	19.7	9 8	0 40.22	- 4 42.4	2.467	3.416	6.7	18.6
9 18	0 33.31	- 4 29.3	3.927	4.912	2.6	19.5	9 18	0 34.63	- 6 1.8	2.425	3.410	4.0	18.5
9 28	0 27.98	- 4 49.9	3.909	4.904	1.5	19.4	9 28	0 28.27	- 7 20.0	2.412	3.404	2.8	18.4
10 8	0 22.57	- 5 7.2	3.920	4.897	2.8	19.5	10 8	0 21.78	- 8 31.1	2.428	3.398	4.8	18.5
10 18	0 17.47	- 5 19.4	3.961	4.890	4.7	19.6	10 18	0 15.79	- 9 30.3	2.473	3.392	7.6	18.7
10 28	0 13.03	- 5 24.7	4.030	4.882	6.6	19.8	10 28	0 10.89	-10 13.9	2.544	3.385	10.3	18.8
11 7	0 9.56	- 5 22.2	4.124	4.875	8.3	19.9	11 7	0 7.54	-10 40.5	2.636	3.379	12.6	19.0
80714	2000 <i>CR</i> ₂₀		9 30.3 114°07	1°0/ 1.2	18	R	62676	2000 <i>TQ</i> ₁₃		9 30.3 177°28	1°3/29.0	18	
8 29	0 52.27	+ 8 18.2	1.720	2.580	14.4	20.2	8 29	0 50.33	- 0 4.0	2.281	3.154	10.9	19.7
9 8	0 46.13	+ 7 47.1	1.665	2.596	10.6	20.0	9 8	0 44.45	- 0 23.7	2.213	3.155	7.7	19.5
9 18	0 38.05	+ 7 1.2	1.633	2.612	6.3	19.8	9 18	0 37.04	- 0 48.6	2.170	3.156	4.3	19.3
9 28	0 28.88	+ 6 4.7	1.627	2.627	1.8	19.6	9 28	0 28.73	- 1 14.9	2.156	3.156	1.3	19.0
10 8	0 19.67	+ 5 4.3	1.650	2.642	3.3	19.7	10 8	0 20.29	- 1 38.5	2.171	3.156	3.6	19.2
10 18	0 11.46	+ 4 6.8	1.701	2.656	7.6	20.0	10 18	0 12.50	- 1 55.7	2.214	3.156	7.0	19.4
10 28	0 5.08	+ 3 18.6	1.777	2.670	11.5	20.3	10 28	0 6.08	- 2 3.2	2.285	3.156	10.2	19.6
11 7	0 1.07	+ 2 44.1	1.876	2.683	14.7	20.5	11 7	0 1.49	- 1 59.5	2.378	3.155	12.9	19.8
60297	1999 <i>XD</i> ₁₅₇		9 30.3 347°28	3°0/27.9	18		315956	2008 <i>UJ</i> ₉		9 30.3 308°40	0°0/30.2	18	
8 29	0 48.22	- 0 26.2	1.231	2.136	15.9	18.9	8 29	0 41.64	+ 3 35.0	4.312	5.171	6.5	20.7
9 8	0 43.92	- 1 26.6	1.174	2.132	11.4	18.6	9 8	0 37.71	+ 3 21.0	4.235	5.169	4.6	20.6
9 18	0 37.11	- 2 38.0	1.138	2.128	6.4	18.3	9 18	0 33.05	+ 3 2.8	4.185	5.167	2.6	20.5
9 28	0 28.74	- 3 51.4	1.126	2.125	3.0	18.1	9 28	0 27.97	+ 2 42.2	4.164	5.166	0.5	20.3
10 8	0 20.13	- 4 56.1	1.139	2.122	6.5	18.3	10 8	0 22.81	+ 2 21.2	4.174	5.164	1.7	20.4
10 18	0 12.62	- 5 43.5	1.175	2.121	11.4	18.6	10 18	0 17.94	+ 2 1.8	4.214	5.162	3.8	20.5
10 28	0 7.34	- 6 7.8	1.233	2.119	16.0	18.9	10 28	0 13.68	+ 1 46.1	4.283	5.161	5.7	20.7
11 7	0 4.95	- 6 7.2	1.310	2.119	19.8	19.1	11 7	0 10.33	+ 1 35.6	4.377	5.159	7.3	20.8
298117	2002 <i>RB</i> ₂₀₂		9 30.3 67°91	1°7/ 1.6	18		42473	1981 <i>ED</i> ₂₆		9 30.3 141°06	0°0/30.2	17	
8 29	0 54.78	+ 7 19.9	1.727	2.586	14.4	19.9	8 29	0 50.98	+ 6 25.1	1.588	2.461	14.8	19.5
9 8	0 48.01	+ 7 40.0	1.667	2.597	10.7	19.7	9 8	0 45.41	+ 5 29.6	1.528	2.469	10.7	19.3
9 18	0 39.17	+ 7 48.0	1.631	2.608	6.5	19.4	9 18	0 37.75	+ 4 18.7	1.492	2.476	6.1	19.0
9 28	0 29.11	+ 7 45.8	1.621	2.619	2.4	19.2	9 28	0 28.87	+ 2 58.4	1.481	2.483	1.1	18.7
10 8	0 18.94	+ 7 37.0	1.639	2.631	3.4	19.3	10 8	0 19.87	+ 1 37.3	1.498	2.489	3.9	18.9
10 18	0 9.75	+ 7 26.1	1.685	2.642	7.6	19.6	10 18	0 11.85	+ 0 23.7	1.543	2.495	8.6	19.2
10 28	0 2.47	+ 7 17.8	1.757	2.653	11.4	19.8	10 28	0 5.75	- 0 35.1	1.612	2.500	12.7	19.5
11 7	23 57.67	+ 7 16.4	1.851	2.665	14.6	20.1	11 7	0 2.11	- 1 15.1	1.703	2.505	16.2	19.7
265588	2005 <i>QF</i> ₁₆₀		9 30.3 49°37	9°5/22.1	17		288337	2004 <i>BG</i> ₈₈		9 30.3 176°31	3°0/ 3.9	18	
8 29	0 48.97	-13 47.3											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
256527	2007 EA ₂₁₅		9 30.3 193°58	2°3/27.5	18		280692	2005 EU ₃₃₀		9 30.3 152°90	5°9/23.5	18	
8 29	0 47.13	- 3 1.2	2.545	3.425	9.6	21.3	8 29	0 49.33	-13 2.6	2.134	3.023	10.8	20.7
9 8	0 42.05	- 3 46.7	2.478	3.424	6.8	21.2	9 8	0 43.79	-14 23.2	2.088	3.029	8.2	20.6
9 18	0 35.65	- 4 35.6	2.437	3.422	3.9	21.0	9 18	0 36.67	-15 39.8	2.068	3.035	6.2	20.5
9 28	0 28.47	- 5 23.6	2.424	3.420	2.3	20.9	9 28	0 28.67	-16 45.0	2.075	3.040	6.1	20.5
10 8	0 21.18	- 6 5.9	2.441	3.418	4.2	21.0	10 8	0 20.61	-17 33.0	2.110	3.045	7.9	20.6
10 18	0 14.43	- 6 38.6	2.487	3.415	7.1	21.2	10 18	0 13.32	-18 0.0	2.171	3.050	10.5	20.8
10 28	0 8.85	- 6 58.9	2.559	3.412	9.9	21.3	10 28	0 7.49	-18 4.9	2.255	3.054	12.9	20.9
11 7	0 4.86	- 7 5.4	2.654	3.409	12.2	21.5	11 7	0 3.61	-17 49.0	2.359	3.058	15.0	21.1
426993	2014 DX ₁₂₃		9 30.3 245°49	1°4/27.3	18		33544	Jerold		9 30.3 39°86	8°0/25.4	18	
8 29	0 39.60	- 2 29.2	4.427	5.304	5.9	21.2	8 29	0 55.89	-15 7.9	1.305	2.204	15.6	17.0
9 8	0 36.26	- 3 17.5	4.355	5.300	4.2	21.1	9 8	0 49.04	-15 45.6	1.272	2.218	11.9	16.9
9 18	0 32.24	- 4 8.2	4.311	5.296	2.4	21.0	9 18	0 39.77	-16 12.9	1.261	2.232	8.9	16.7
9 28	0 27.82	- 4 58.6	4.297	5.292	1.4	20.9	9 28	0 29.25	-16 21.3	1.274	2.247	8.2	16.8
10 8	0 23.33	- 5 46.0	4.314	5.289	2.6	21.0	10 8	0 18.92	-16 5.3	1.311	2.262	10.2	16.9
10 18	0 19.11	- 6 28.0	4.360	5.285	4.4	21.1	10 18	0 10.09	-15 23.9	1.372	2.278	13.5	17.2
10 28	0 15.46	- 7 2.6	4.435	5.281	6.2	21.2	10 28	0 3.73	-14 19.5	1.454	2.294	16.7	17.4
11 7	0 12.66	- 7 28.2	4.534	5.277	7.7	21.3	11 7	0 0.30	-12 56.4	1.555	2.311	19.4	17.7
124111	2001 HQ ₅₃		9 30.3 172°11	2°3/27.1	18		261344	2005 UT ₂₆₅		9 30.3 40°89	1°5/28.7	18	
8 29	0 46.35	- 3 48.0	2.768	3.648	8.9	20.5	8 29	0 47.50	+ 0 31.4	2.036	2.918	11.6	20.7
9 8	0 41.38	- 4 36.0	2.705	3.651	6.3	20.4	9 8	0 42.58	- 0 9.3	1.973	2.920	8.2	20.5
9 18	0 35.23	- 5 26.6	2.668	3.653	3.7	20.2	9 18	0 36.05	- 0 57.0	1.935	2.922	4.6	20.3
9 28	0 28.39	- 6 15.6	2.660	3.654	2.4	20.1	9 28	0 28.58	- 1 46.7	1.924	2.924	1.6	20.1
10 8	0 21.46	- 6 58.6	2.682	3.655	4.1	20.2	10 8	0 20.99	- 2 32.8	1.941	2.926	4.0	20.2
10 18	0 15.05	- 7 32.2	2.733	3.656	6.8	20.4	10 18	0 14.11	- 3 10.1	1.986	2.928	7.7	20.5
10 28	0 9.70	- 7 53.6	2.810	3.657	9.3	20.6	10 28	0 8.65	- 3 34.8	2.057	2.931	11.0	20.7
11 7	0 5.81	- 8 1.8	2.911	3.657	11.5	20.7	11 7	0 5.12	- 3 44.7	2.149	2.933	13.9	20.9
121074	1999 FA ₂		9 30.3 307°68	0°4/30.8	16		511443	2014 JN ₂₇		9 30.3 170°73	2°4/27.3	18	
8 29	0 44.38	+ 5 49.4	2.801	3.661	9.5	20.0	8 29	0 47.01	- 0 58.4	2.229	3.111	10.7	21.7
9 8	0 40.10	+ 5 29.8	2.709	3.642	6.9	19.8	9 8	0 42.11	- 2 17.7	2.166	3.114	7.6	21.5
9 18	0 34.58	+ 5 2.0	2.642	3.623	4.0	19.6	9 18	0 35.75	- 3 43.5	2.130	3.116	4.3	21.3
9 28	0 28.28	+ 4 28.3	2.603	3.604	1.0	19.3	9 28	0 28.52	- 5 9.5	2.122	3.118	2.4	21.2
10 8	0 21.78	+ 3 52.2	2.594	3.585	2.4	19.4	10 8	0 21.19	- 6 28.9	2.143	3.119	4.7	21.3
10 18	0 15.66	+ 3 17.4	2.613	3.566	5.5	19.6	10 18	0 14.49	- 7 35.9	2.193	3.120	8.0	21.5
10 28	0 10.51	+ 2 47.6	2.661	3.548	8.4	19.8	10 28	0 9.11	- 8 26.2	2.269	3.121	11.0	21.7
11 7	0 6.79	+ 2 25.9	2.732	3.529	10.9	19.9	11 7	0 5.49	- 8 58.1	2.367	3.121	13.6	21.9
294421	2007 VQ ₂₂₁		9 30.3 343°77	3°0/ 3.2	18		176770	2002 RJ ₁₉₉		9 30.3 47°40	1°1/ 1.1	17	
8 29	0 48.29	+13 5.9	1.747	2.596	14.8	20.5	8 29	0 52.59	+ 7 20.0	1.106	1.994	18.6	19.8
9 8	0 43.49	+12 56.1	1.674	2.594	11.3	20.3	9 8	0 46.94	+ 7 1.4	1.071	2.017	13.6	19.6
9 18	0 36.71	+12 27.7	1.623	2.592	7.5	20.1	9 18	0 38.70	+ 6 24.2	1.056	2.041	7.9	19.3
9 28	0 28.69	+11 42.7	1.597	2.590	3.9	19.8	9 28	0 29.07	+ 5 34.4	1.065	2.065	2.2	19.1
10 8	0 20.44	+10 46.3	1.598	2.589	3.8	19.8	10 8	0 19.60	+ 4 41.0	1.097	2.090	4.2	19.3
10 18	0 12.96	+ 9 45.1	1.626	2.587	7.4	20.1	10 18	0 11.66	+ 3 52.9	1.154	2.115	9.6	19.7
10 28	0 7.18	+ 8 46.9	1.680	2.586	11.2	20.3	10 28	0 6.29	+ 3 17.7	1.233	2.141	14.3	20.0
11 7	0 3.71	+ 7 58.1	1.756	2.585	14.6	20.5	11 7	0 3.98	+ 2 59.5	1.332	2.167	18.1	20.3
308400	2005 SG ₆₀		9 30.3 4°05	1°2/29.5	18		328682	2009 SE ₃₃₆		9 30.3 286°92	0°4/29.9	18	
8 29	0 47.24	+ 2 5.0	1.048	1.958	17.6	19.9	8 29	0 49.69	+ 2 16.2	2.215	3.085	11.2	20.7
9 8	0 43.49	+ 1 42.5	0.998	1.957	12.7	19.6	9 8	0 44.15	+ 2 7.0	2.136	3.075	8.1	20.5
9 18	0 36.97	+ 1 6.6	0.966	1.957	7.1	19.3	9 18	0 36.97	+ 1 50.9	2.081	3.066	4.6	20.2
9 28	0 28.75	+ 0 24.4	0.957	1.958	1.5	19.0	9 28	0 28.78	+ 1 31.0	2.055	3.056	0.9	19.9
10 8	0 20.32	- 0 15.0	0.970	1.961	5.4	19.2	10 8	0 20.36	+ 1 11.2	2.057	3.046	3.2	20.1
10 18	0 13.16	- 0 43.2	1.007	1.966	11.0	19.6	10 18	0 12.53	+ 0 55.4	2.088	3.037	6.9	20.3
10 28	0 8.49	- 0 54.0	1.064	1.972	16.0	19.9	10 28	0 6.05	+ 0 47.2	2.146	3.027	10.3	20.5
11 7	0 6.95	- 0 44.5	1.139	1.979	20.2	20.2	11 7	0 1.47	+ 0 49.1	2.226	3.018	13.2	20.7
385813	2006 DX ₁₆₁		9 30.3 230°65	5°1/24.2	18		209256	2003 WQ ₁₅₇		9 30.3 322°54	9°7/18.4	18	
8 29	0 47.58	- 6 58.5	1.905	2.800	11.6	21.9	8 29	0 46.50	-19 4.0	1.669	2.567	12.8	19.1
9 8	0 42.81	- 8 50.8	1.841	2.792	8.5	21.7	9 8	0 42.26	-21 26.7	1.629	2.563	10.6	19.0
9 18	0 36.26	-10 47.1	1.803	2.783	5.7	21.6	9 18	0 36.03	-23 39.7	1.615	2.559	9.7	18.9
9 28	0 28.61	-12 37.8	1.794	2.774	5.3	21.5	9 28	0 28.60	-25 30.9	1.625	2.556	10.5	19.0
10 8	0 20.74	-14 13.7	1.812	2.764	7.7	21.6	10 8	0 21.00	-26 51.2	1.660	2.552	12.6	19.1
10 18	0 13.55	-15 27.8	1.856	2.754	11.0	21.8	10 18	0 14.28	-27 36.2	1.717	2.549	15.1	19.2
10 28	0 7.90	-16 16.1	1.925	2.744	14.0	22.0	10 28	0 9.33	-27 45.8	1.793	2.546	17.5	19.4
11 7	0 4.33	-16 38.3	2.012	2.733	16.7	22.2	11 7	0 6.72	-27 23.8	1.884	2.543	19.5	19.6
228429	2001 PV ₅₃		9 30.3 29°52	4°2/27.8	17		279559	2011 CV ₇₄		9 30.3 248°29	0°5/30.7	18	
8 29	0 50.43	- 3 37.0	0.957	1.875	18.1	19.7	8 29	0 52.60	+ 6 0.9	1.728	2.595	14.1	21.5
9 8	0 45.57	- 4 16.0	0.930	1.893	12.8	19.5	9 8	0 46.73	+ 5 42.2	1.645	2.581	10.4	21.2
9 18	0 37.94	- 4 59.3	0.923	1.913	7.4	19.3	9 18	0 38.66	+ 5 10.3	1.585	2.567	6.1	20.9
9 28	0 28.89	- 5 37.2	0.938	1.935	4.2	19.2	9 28	0 29.13	+ 4 28.6	1.551	2.552	1.4	20.6
10 8	0 20.05	- 6 0.5	0.975	1.958	7.4	19.4	10 8	0 19.19	+ 3 42.8	1.545	2.537	3.6	20.7
10 18	0 12.87	- 6 4.0	1.034	1.982	12.3	19.8	10 18	0 9.99	+ 2 59.4	1.567	2.521	8.3	21.0
10 28	0 8.40	- 5 45.6	1.114	2.007	16.7	20.1	10 28	0 2.56	+ 2 24.6	1.614	2.505	12.6	21.2
11 7	0 7.04	- 5 6.7	1.211	2.033	20.3	20.5	11 7	23 57.62	+ 2 3.1	1.683	2.488	16.2	21.4
361354	2006 UX ₂₁₁		9 30.3 299°36	0°8/30.9	18		154636	2003 YB ₄		9 30.3 294°15	0°3/30.0	17	
8 29	0 48.93	+ 6 26.4	1.878	2.745	13.1	21.1	8 29	0 48.33	+ 6 14.0	1.384			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
312807	2010 <i>XM</i> ₈₇		9 30.3 301°51	1°9/ 4.0 18			69213	4616 <i>T</i> ₋₂		9 30.3 356°17	1°3/28.8 18		
8 29	0 41.37	+14 13.9	4.284	5.098	7.3	20.5	8 29	0 45.54	+ 2 28.4	2.110	2.989	11.4	19.4
9 8	0 37.59	+14 6.7	4.197	5.095	5.7	20.4	9 8	0 41.17	+ 1 24.0	2.044	2.989	8.1	19.2
9 18	0 33.04	+13 51.3	4.136	5.092	3.9	20.3	9 18	0 35.29	+ 0 10.2	2.002	2.989	4.4	19.0
9 28	0 28.04	+13 28.7	4.103	5.088	2.3	20.2	9 28	0 28.51	- 1 7.3	1.989	2.989	1.3	18.8
10 8	0 22.94	+13 0.7	4.100	5.085	2.1	20.1	10 8	0 21.59	- 2 22.0	2.004	2.989	3.9	18.9
10 18	0 18.12	+12 29.5	4.127	5.082	3.5	20.2	10 18	0 15.31	- 3 27.8	2.047	2.989	7.5	19.2
10 28	0 13.93	+11 57.7	4.182	5.079	5.3	20.4	10 28	0 10.37	- 4 19.5	2.116	2.989	10.8	19.4
11 7	0 10.66	+11 27.9	4.265	5.076	7.0	20.5	11 7	0 7.23	- 4 54.3	2.208	2.989	13.6	19.6
68123	2001 <i>AU</i> ₁₂		9 30.3 293°74	1°8/28.7 18			150423	2000 <i>GN</i> ₁₇		9 30.3 225°10	0°8/29.6 18		
8 29	0 47.66	+ 1 44.1	1.639	2.527	13.6	19.4	8 29	0 50.76	+ 3 37.7	1.764	2.639	13.4	20.8
9 8	0 43.20	+ 0 47.2	1.562	2.511	9.7	19.1	9 8	0 45.27	+ 2 53.3	1.690	2.632	9.7	20.6
9 18	0 36.66	- 0 21.7	1.508	2.496	5.4	18.8	9 18	0 37.77	+ 1 57.1	1.639	2.625	5.4	20.3
9 28	0 28.76	- 1 36.1	1.480	2.480	1.8	18.5	9 28	0 29.00	+ 0 54.2	1.615	2.617	1.1	20.0
10 8	0 20.52	- 2 47.8	1.479	2.464	4.9	18.7	10 8	0 19.96	- 0 8.3	1.620	2.608	4.0	20.2
10 18	0 13.01	- 3 48.7	1.504	2.449	9.4	19.0	10 18	0 11.69	- 1 3.4	1.651	2.599	8.5	20.4
10 28	0 7.23	- 4 32.4	1.553	2.434	13.6	19.2	10 28	0 5.13	- 1 45.2	1.708	2.590	12.5	20.7
11 7	0 3.82	- 4 55.6	1.623	2.418	17.2	19.4	11 7	0 0.89	- 2 10.1	1.787	2.581	15.9	20.9
383306	2006 <i>GU</i> ₄₉		9 30.3 99°06	7°7/22.5 16			37731	1996 <i>TY</i> ₆₄		9 30.3 285°92	0°1/30.5 18		
8 29	0 52.15	-17 48.0	1.917	2.802	12.0	20.6	8 29	0 49.39	+ 5 38.7	1.649	2.525	14.2	19.7
9 8	0 45.82	-19 9.7	1.892	2.823	9.5	20.5	9 8	0 44.49	+ 5 8.9	1.568	2.510	10.4	19.4
9 18	0 37.81	-20 21.4	1.891	2.844	7.9	20.4	9 18	0 37.43	+ 4 25.1	1.510	2.494	6.0	19.2
9 28	0 28.93	-21 15.1	1.916	2.864	8.0	20.5	9 28	0 28.95	+ 3 31.3	1.478	2.479	1.2	18.8
10 8	0 20.17	-21 45.7	1.968	2.883	9.6	20.6	10 8	0 20.09	+ 2 34.3	1.473	2.464	3.7	18.9
10 18	0 12.43	-21 51.0	2.044	2.903	11.9	20.8	10 18	0 11.96	+ 1 41.3	1.494	2.449	8.5	19.2
10 28	0 6.43	-21 32.0	2.142	2.921	14.2	21.0	10 28	0 5.59	+ 0 59.2	1.540	2.434	12.9	19.4
11 7	0 2.61	-20 51.6	2.259	2.940	16.1	21.2	11 7	0 1.67	+ 0 32.7	1.607	2.419	16.6	19.6
409728	2006 <i>CZ</i> ₁₈		9 30.3 234°82	6°8/20.9 18			295579	2008 <i>SG</i> ₁₁₀		9 30.3 317°33	2°7/28.3 18		
8 29	0 46.51	-18 24.7	2.443	3.328	9.8	20.3	8 29	0 53.09	- 2 47.7	1.615	2.503	13.7	20.2
9 8	0 41.74	-19 49.6	2.394	3.323	7.9	20.2	9 8	0 47.00	- 3 10.9	1.553	2.502	9.8	20.0
9 18	0 35.55	-21 7.7	2.370	3.317	6.8	20.1	9 18	0 38.75	- 3 38.6	1.513	2.500	5.6	19.7
9 28	0 28.53	-22 12.3	2.373	3.312	7.2	20.1	9 28	0 29.18	- 4 5.1	1.501	2.499	2.7	19.6
10 8	0 21.39	-22 58.1	2.403	3.307	8.7	20.2	10 8	0 19.43	- 4 24.4	1.515	2.497	5.4	19.7
10 18	0 14.85	-23 22.1	2.458	3.301	10.7	20.3	10 18	0 10.64	- 4 31.8	1.556	2.496	9.6	20.0
10 28	0 9.57	-23 23.4	2.535	3.295	12.7	20.5	10 28	0 3.77	- 4 24.3	1.621	2.495	13.5	20.2
11 7	0 5.99	-23 3.6	2.631	3.289	14.5	20.6	11 7	23 59.45	- 4 0.9	1.706	2.493	16.8	20.4
126577	2002 <i>CR</i> ₁₁₄		9 30.3 203°41	7°0/22.6 18			20819	2000 <i>TX</i> ₅₅		9 30.3 293°09	5°9/23.9 18		
8 29	0 48.43	-12 46.5	1.768	2.666	12.2	19.4	8 29	0 47.87	-12 28.2	2.020	2.914	11.1	18.3
9 8	0 43.50	-14 33.4	1.719	2.665	9.3	19.2	9 8	0 42.94	-13 37.6	1.962	2.907	8.4	18.2
9 18	0 36.68	-16 17.2	1.695	2.663	7.3	19.1	9 18	0 36.33	-14 44.1	1.928	2.899	6.3	18.0
9 28	0 28.75	-17 47.7	1.698	2.662	7.4	19.1	9 28	0 28.71	-15 40.3	1.922	2.892	6.1	18.0
10 8	0 20.68	-18 56.6	1.726	2.660	9.5	19.2	10 8	0 20.94	-16 19.9	1.942	2.884	8.0	18.1
10 18	0 13.45	-19 38.8	1.780	2.658	12.4	19.4	10 18	0 13.88	-16 39.0	1.987	2.877	10.7	18.3
10 28	0 7.92	-19 52.6	1.855	2.655	15.2	19.6	10 28	0 8.30	-16 35.9	2.056	2.870	13.5	18.4
11 7	0 4.61	-19 40.0	1.947	2.653	17.6	19.8	11 7	0 4.72	-16 11.7	2.144	2.863	15.8	18.6
193371	2000 <i>UM</i> ₈₈		9 30.3 102°75	4°2/26.6 18			157459	2004 <i>XX</i> ₂₀		9 30.3 300°19	6°1/23.8 18		
8 29	0 53.38	- 7 1.1	1.802	2.690	12.6	19.2	8 29	0 49.03	-14 36.3	2.124	3.013	10.9	19.6
9 8	0 46.79	- 7 50.3	1.761	2.708	9.0	19.0	9 8	0 43.72	-15 30.3	2.062	3.002	8.4	19.4
9 18	0 38.39	- 8 39.3	1.745	2.726	5.6	18.8	9 18	0 36.76	-16 19.3	2.025	2.991	6.5	19.3
9 28	0 29.05	- 9 21.6	1.755	2.744	4.2	18.8	9 28	0 28.80	-16 56.9	2.015	2.980	6.3	19.3
10 8	0 19.78	- 9 51.2	1.794	2.761	6.4	19.0	10 8	0 20.68	-17 17.6	2.031	2.969	8.1	19.4
10 18	0 11.53	-10 4.3	1.859	2.778	9.7	19.2	10 18	0 13.25	-17 18.3	2.073	2.958	10.6	19.5
10 28	0 5.09	- 9 59.5	1.949	2.795	12.8	19.4	10 28	0 7.27	-16 58.1	2.139	2.947	13.2	19.7
11 7	0 0.91	- 9 37.3	2.059	2.811	15.4	19.7	11 7	0 3.27	-16 18.3	2.224	2.937	15.5	19.8
476932	2008 <i>WD</i> ₁₂₆		9 30.3 324°44	0°9/29.5 18			511924	2015 <i>HK</i> ₁₄₁		9 30.3 60°71	1°0/29.5 18		
8 29	0 48.93	+ 2 37.1	1.533	2.421	14.4	21.2	8 29	0 49.49	+ 3 27.1	1.506	2.392	14.7	21.4
9 8	0 44.17	+ 2 7.1	1.463	2.412	10.4	20.9	9 8	0 44.41	+ 2 39.7	1.454	2.401	10.5	21.2
9 18	0 37.23	+ 1 25.8	1.416	2.403	5.8	20.6	9 18	0 37.25	+ 1 40.1	1.424	2.411	5.8	20.9
9 28	0 28.89	+ 0 38.5	1.394	2.395	1.2	20.3	9 28	0 28.89	+ 0 34.9	1.419	2.420	1.2	20.7
10 8	0 20.25	- 0 7.7	1.398	2.388	4.4	20.5	10 8	0 20.45	- 0 27.8	1.441	2.430	4.4	20.9
10 18	0 12.47	- 0 46.1	1.428	2.380	9.1	20.8	10 18	0 13.02	- 1 20.6	1.490	2.440	9.0	21.2
10 28	0 6.56	- 1 10.7	1.482	2.373	13.4	21.0	10 28	0 7.52	- 1 57.7	1.562	2.450	13.1	21.5
11 7	0 3.18	- 1 18.3	1.557	2.367	17.1	21.2	11 7	0 4.49	- 2 16.3	1.655	2.461	16.5	21.7
514947	2008 <i>XU</i> ₄₂		9 30.3 335°72	5°1/26.2 18			425143	2009 <i>SO</i> ₂₇₉		9 30.3 7°06	3°3/28.3 18		
8 29	0 49.24	- 7 8.5	1.427	2.331	14.2	20.4	8 29	0 52.90	- 3 25.2	1.188	2.092	16.4	19.9
9 8	0 44.47	- 8 2.0	1.367	2.323	10.3	20.2	9 8	0 47.37	- 3 41.6	1.136	2.092	11.8	19.6
9 18	0 37.41	- 8 57.3	1.330	2.315	6.6	19.9	9 18	0 39.13	- 4 2.5	1.105	2.093	6.8	19.3
9 28	0 28.92	- 9 45.7	1.317	2.307	5.2	19.8	9 28	0 29.26	- 4 20.8	1.097	2.095	3.3	19.1
10 8	0 20.19	-10 19.1	1.330	2.300	7.9	20.0	10 8	0 19.22	- 4 29.4	1.113	2.098	6.5	19.3
10 18	0 12.43	-10 31.7	1.367	2.294	11.8	20.2	10 18	0 10.48	- 4 23.3	1.154	2.101	11.4	19.6
10 28	0 6.70	-10 20.8	1.425	2.288	15.7	20.4	10 28	0 4.21	- 3 59.5	1.216	2.105	15.9	19.9
11 7	0 3.63	- 9 47.3	1.503	2.283	19.0	20.6	11 7	0 1.04	- 3 18.1	1.297	2.110	19.7	20.2
435092	2007 <i>CF</i> ₃₈		9 30.3 200°09	0°2/30.1 15			521491	2015 <i>OR</i> ₉₄		9 30.3 119°25	1°1/ 1.5 18		
8 29	0 50.94	+ 5											

EPHEMERIDES

9 30.3

9 30.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
387935	2005 <i>CG</i> ₇₁		9 30.3 188°46	5°2/24.4	18		168265	2006 <i>QH</i> ₃₇		9 30.3 172°04	3°2/27.1	18	
8 29	0 48.32	- 9 21.7	2.013	2.906	11.2	21.2	8 29	0 49.70	- 4 31.4	2.013	2.899	11.5	20.4
9 8	0 43.23	-10 48.9	1.958	2.906	8.2	21.0	9 8	0 44.20	- 5 21.8	1.953	2.901	8.2	20.2
9 18	0 36.48	-12 15.9	1.929	2.905	5.8	20.9	9 18	0 37.03	- 6 15.2	1.917	2.902	4.9	20.0
9 28	0 28.74	-13 34.8	1.927	2.904	5.4	20.9	9 28	0 28.88	- 7 5.7	1.910	2.903	3.3	19.9
10 8	0 20.89	-14 38.5	1.953	2.902	7.5	21.0	10 8	0 20.61	- 7 47.3	1.930	2.904	5.5	20.1
10 18	0 13.76	-15 22.1	2.005	2.901	10.4	21.2	10 18	0 13.09	- 8 15.5	1.978	2.904	8.8	20.3
10 28	0 8.11	-15 43.0	2.080	2.899	13.2	21.4	10 28	0 7.07	- 8 27.3	2.051	2.904	12.0	20.5
11 7	0 4.46	-15 41.7	2.176	2.897	15.6	21.6	11 7	0 3.07	- 8 21.9	2.145	2.904	14.7	20.7
517862	2015 <i>RT</i> ₂₄₀		9 30.3 317°31	7°5/22.1	18		98835	2001 <i>AS</i> ₁₅		9 30.3 276°04	4°9/ 4.9	18	
8 29	0 48.41	-17 56.9	2.002	2.891	11.4	20.5	8 29	0 49.70	+17 43.2	1.819	2.643	15.3	19.7
9 8	0 43.37	-19 5.8	1.948	2.882	9.2	20.4	9 8	0 44.68	+17 49.4	1.731	2.629	12.3	19.4
9 18	0 36.58	-20 6.9	1.918	2.873	7.7	20.3	9 18	0 37.56	+17 34.4	1.663	2.615	8.9	19.2
9 28	0 28.77	-20 52.6	1.914	2.864	7.9	20.3	9 28	0 29.02	+16 58.0	1.620	2.601	5.8	19.0
10 8	0 20.81	-21 17.2	1.936	2.855	9.6	20.3	10 8	0 20.06	+16 3.7	1.604	2.587	5.1	18.9
10 18	0 13.61	-21 17.5	1.982	2.846	12.0	20.5	10 18	0 11.75	+14 57.5	1.614	2.572	7.7	19.0
10 28	0 7.97	-21 53.3	2.050	2.838	14.4	20.6	10 28	0 5.13	+13 47.8	1.651	2.558	11.3	19.2
11 7	0 4.38	-20 6.9	2.136	2.830	16.5	20.8	11 7	0 0.88	+12 42.7	1.710	2.544	14.8	19.4
221631	2006 <i>YV</i> ₄₇		9 30.3 297°25	0°0/30.2	18		35990	1999 <i>NG</i> ₁₀		9 30.3 156°06	5°3/ 5.4	18	
8 29	0 48.88	+ 5 58.7	1.409	2.293	15.6	20.7	8 29	0 52.90	+19 16.7	2.011	2.815	14.8	18.8
9 8	0 44.47	+ 5 21.3	1.328	2.273	11.5	20.4	9 8	0 46.69	+19 35.8	1.937	2.820	11.9	18.6
9 18	0 37.58	+ 4 26.4	1.269	2.254	6.7	20.1	9 18	0 38.55	+19 35.0	1.884	2.825	8.8	18.4
9 28	0 29.01	+ 3 18.9	1.234	2.235	1.3	19.7	9 28	0 29.19	+19 14.0	1.857	2.829	6.1	18.3
10 8	0 19.93	+ 2 7.0	1.224	2.216	4.3	19.8	10 8	0 19.59	+18 35.7	1.857	2.833	5.4	18.2
10 18	0 11.65	+ 1 0.1	1.240	2.197	9.7	20.1	10 18	0 10.75	+17 45.0	1.885	2.836	7.3	18.4
10 28	0 5.38	+ 0 7.0	1.280	2.179	14.6	20.3	10 28	0 3.58	+16 49.0	1.940	2.840	10.3	18.6
11 7	0 1.90	- 0 26.5	1.339	2.160	18.8	20.6	11 7	23 58.67	+15 55.0	2.018	2.842	13.2	18.8
223844	2004 <i>TH</i> ₁₇₃		9 30.3 343°68	4°5/ 4.8	18		102532	1999 <i>UU</i> ₄		9 30.3 326°77	1°2/ 1.3	18	
8 29	0 48.71	+16 57.5	2.024	2.846	14.0	19.7	8 29	0 46.75	+ 7 56.2	1.396	2.277	15.9	19.2
9 8	0 43.69	+17 16.0	1.945	2.842	11.2	19.5	9 8	0 42.91	+ 7 36.2	1.318	2.260	11.9	18.9
9 18	0 36.85	+17 16.6	1.889	2.839	8.1	19.3	9 18	0 36.69	+ 6 58.1	1.261	2.244	7.2	18.6
9 28	0 28.84	+16 59.6	1.857	2.836	5.3	19.1	9 28	0 28.86	+ 6 5.4	1.228	2.228	2.2	18.2
10 8	0 20.57	+16 27.6	1.852	2.833	4.7	19.1	10 8	0 20.58	+ 5 5.3	1.219	2.213	3.9	18.3
10 18	0 12.94	+15 45.4	1.875	2.831	7.0	19.2	10 18	0 13.11	+ 4 6.2	1.236	2.198	9.0	18.6
10 28	0 6.83	+14 59.4	1.924	2.829	10.1	19.4	10 28	0 7.61	+ 3 16.9	1.276	2.185	13.8	18.8
11 7	0 2.82	+14 15.9	1.996	2.827	13.0	19.6	11 7	0 4.84	+ 2 43.7	1.337	2.172	18.0	19.0
251697	1996 <i>AV</i> ₁₈		9 30.3 295°14	0°8/ 1.1	17		393138	2013 <i>BG</i> ₅₀		9 30.3 152°94	3°6/26.7	18	
8 29	0 46.86	+ 7 28.4	2.056	2.919	12.3	21.4	8 29	0 49.09	- 5 22.4	1.963	2.852	11.6	20.8
9 8	0 42.29	+ 7 0.9	1.972	2.906	9.1	21.2	9 8	0 43.80	- 6 17.7	1.905	2.854	8.3	20.7
9 18	0 36.03	+ 6 20.6	1.913	2.893	5.4	21.0	9 18	0 36.81	- 7 15.3	1.872	2.856	5.1	20.5
9 28	0 28.69	+ 5 30.7	1.879	2.880	1.5	20.7	9 28	0 28.84	- 8 9.0	1.866	2.857	3.7	20.4
10 8	0 21.07	+ 4 36.4	1.875	2.867	3.0	20.8	10 8	0 20.76	- 8 52.6	1.888	2.858	5.9	20.5
10 18	0 14.04	+ 3 43.4	1.898	2.853	6.9	21.0	10 18	0 13.44	- 9 21.4	1.937	2.860	9.2	20.7
10 28	0 8.39	+ 2 57.6	1.947	2.841	10.6	21.2	10 28	0 7.65	- 9 32.6	2.011	2.861	12.3	20.9
11 7	0 4.69	+ 2 23.4	2.019	2.828	13.8	21.4	11 7	0 3.89	- 9 25.7	2.105	2.862	15.0	21.1
337903	2001 <i>XV</i> ₇₆		9 30.3 274°24	1°1/ 1.4	18		158123	2001 <i>DB</i> ₄₄		9 30.3 133°01	2°9/ 4.2	18	
8 29	0 48.96	+ 8 51.3	1.665	2.531	14.5	21.1	8 29	0 49.11	+15 24.8	2.944	3.752	10.4	20.9
9 8	0 44.18	+ 8 17.1	1.583	2.517	10.8	20.9	9 8	0 43.37	+15 24.5	2.873	3.766	8.1	20.7
9 18	0 37.27	+ 7 25.2	1.522	2.502	6.6	20.6	9 18	0 36.42	+15 11.8	2.827	3.780	5.6	20.6
9 28	0 28.94	+ 6 19.5	1.488	2.487	2.0	20.3	9 28	0 28.77	+14 47.8	2.810	3.792	3.4	20.5
10 8	0 20.23	+ 5 6.7	1.480	2.473	3.5	20.4	10 8	0 21.04	+14 15.1	2.821	3.805	3.1	20.5
10 18	0 12.25	+ 3 54.9	1.500	2.457	8.2	20.6	10 18	0 13.83	+13 37.1	2.863	3.817	5.0	20.6
10 28	0 6.01	+ 2 52.2	1.544	2.442	12.5	20.8	10 28	0 7.71	+12 58.0	2.934	3.828	7.4	20.8
11 7	0 2.20	+ 2 4.8	1.610	2.427	16.3	21.0	11 7	0 3.09	+12 21.7	3.030	3.839	9.6	21.0
459999	2014 <i>OJ</i> ₇₉		9 30.3 15°78	2°9/ 2.9	17		77515	2001 <i>HL</i> ₅₀		9 30.3 148°33	5°5/23.9	18	
8 29	0 49.92	+11 24.1	1.873	2.722	13.9	20.8	8 29	0 50.10	-12 42.0	2.251	3.137	10.5	19.4
9 8	0 44.56	+11 38.7	1.804	2.724	10.6	20.6	9 8	0 44.30	-13 55.9	2.206	3.146	7.9	19.3
9 18	0 37.33	+11 38.4	1.758	2.727	7.0	20.4	9 18	0 37.01	-15 6.0	2.187	3.155	5.9	19.2
9 28	0 28.94	+11 24.8	1.738	2.731	3.6	20.2	9 28	0 28.88	-16 5.5	2.196	3.163	5.7	19.2
10 8	0 20.34	+11 1.3	1.745	2.735	3.6	20.2	10 8	0 20.73	-16 49.1	2.233	3.171	7.4	19.3
10 18	0 12.52	+10 32.7	1.780	2.739	7.0	20.5	10 18	0 13.31	-17 13.4	2.296	3.178	9.9	19.5
10 28	0 6.32	+10 4.7	1.840	2.744	10.6	20.7	10 28	0 7.32	-17 17.2	2.384	3.184	12.3	19.6
11 7	0 2.33	+ 9 42.5	1.923	2.749	13.7	20.9	11 7	0 3.19	-17 1.7	2.491	3.190	14.3	19.8
244598	2002 <i>XJ</i> ₈₉		9 30.3 298°59	12°0/14.3	18		355579	2008 <i>CV</i> ₉₈		9 30.3 2°21	0°4/30.7	18	
8 29	0 48.50	-28 38.8	1.807	2.678	13.3	19.6	8 29	0 48.17	+ 5 52.7	1.750	2.624	13.6	20.9
9 8	0 43.83	-30 45.1	1.764	2.660	12.2	19.5	9 8	0 43.37	+ 5 29.5	1.683	2.623	9.9	20.7
9 18	0 37.03	-32 34.6	1.744	2.642	12.0	19.4	9 18	0 36.68	+ 4 53.7	1.640	2.623	5.7	20.4
9 28	0 28.89	-33 56.4	1.747	2.624	13.0	19.5	9 28	0 28.85	+ 4 9.6	1.622	2.623	1.3	20.1
10 8	0 20.49	-34 43.2	1.772	2.606	14.7	19.5	10 8	0 20.82	+ 3 22.8	1.632	2.624	3.4	20.3
10 18	0 12.94	-34 52.4	1.816	2.589	16.7	19.7	10 18	0 13.58	+ 2 39.5	1.669	2.625	7.7	20.6
10 28	0 7.24	-34 25.4	1.877	2.571	18.6	19.8	10 28	0 8.00	+ 2 5.6	1.730	2.626	11.6	20.8
11 7	0 3.99	-33 26.9	1.952	2.554	20.3	19.9	11 7	0 4.64	+ 1 44.8	1.814	2.627	14.9	21.0
284074	2005 <i>ED</i> ₂₅₄		9 30.3 17°58	9°3/ 5.7	18		683	Lanzia		9 30.3 193°60	7°0/10.2	18	
8 29	0 55.12	+18 33.5	1.125										

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9 30.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
285128	1995 <i>SP</i> ₅₁		9 30.3 357°83	0°0/30.2	18		45038	1999 <i>XE</i> ₆		9 30.4 20°67	6°2/26.5	18	
8 29	0 50.29	+ 4 29.2	1.599	2.478	14.4	21.1	8 29	0 52.22	- 8 17.7	1.096	2.008	16.8	17.9
9 8	0 45.05	+ 4 8.4	1.534	2.477	10.4	20.9	9 8	0 46.95	- 9 3.9	1.055	2.013	12.2	17.7
9 18	0 37.70	+ 3 35.6	1.492	2.476	6.0	20.6	9 18	0 38.93	- 9 48.9	1.035	2.020	7.9	17.5
9 28	0 29.06	+ 2 55.2	1.475	2.476	1.1	20.3	9 28	0 29.33	-10 22.4	1.037	2.027	6.2	17.4
10 8	0 20.20	+ 2 13.5	1.485	2.476	3.8	20.5	10 8	0 19.71	-10 35.9	1.063	2.035	9.0	17.6
10 18	0 12.24	+ 1 36.7	1.521	2.476	8.4	20.8	10 18	0 11.54	-10 25.1	1.111	2.043	13.4	17.9
10 28	0 6.13	+ 1 10.7	1.583	2.477	12.6	21.0	10 28	0 5.96	- 9 49.4	1.179	2.053	17.5	18.1
11 7	0 2.48	+ 0 59.1	1.665	2.477	16.1	21.2	11 7	0 3.53	- 8 51.5	1.265	2.064	20.9	18.4
330296	2006 <i>TQ</i> ₄₄		9 30.3 6°21	1°1/29.7	18		258760	2002 <i>HW</i> ₁₅		9 30.4 111°01	0°9/29.3	18	
8 29	0 48.38	+ 2 25.2	1.014	1.924	18.1	20.1	8 29	0 47.52	+ 2 10.7	2.404	3.275	10.4	21.0
9 8	0 44.44	+ 2 5.0	0.965	1.923	13.1	19.8	9 8	0 42.40	+ 1 30.6	2.346	3.287	7.4	20.9
9 18	0 37.64	+ 1 30.7	0.934	1.924	7.3	19.5	9 18	0 35.95	+ 0 43.7	2.313	3.298	4.1	20.7
9 28	0 29.07	+ 0 49.4	0.925	1.927	1.5	19.2	9 28	0 28.74	- 0 5.9	2.309	3.310	1.0	20.5
10 8	0 20.28	+ 0 10.4	0.939	1.930	5.3	19.4	10 8	0 21.49	- 0 53.4	2.334	3.321	3.2	20.7
10 18	0 12.82	- 0 18.0	0.975	1.935	11.1	19.8	10 18	0 14.86	- 1 34.5	2.388	3.332	6.5	20.9
10 28	0 7.95	- 0 29.0	1.032	1.942	16.2	20.1	10 28	0 9.47	- 2 5.6	2.469	3.343	9.4	21.1
11 7	0 6.31	- 0 19.8	1.107	1.950	20.5	20.4	11 7	0 5.74	- 2 24.3	2.574	3.354	11.9	21.3
123649	2000 <i>YT</i> ₆₆		9 30.3 321°26	0°6/30.9	18		275457	2011 <i>CQ</i> ₇₅		9 30.4 247°67	0°7/30.9	18	
8 29	0 49.63	+ 6 21.5	1.576	2.452	14.7	19.8	8 29	0 51.06	+ 7 7.5	1.661	2.529	14.5	21.0
9 8	0 44.67	+ 6 1.6	1.506	2.446	10.8	19.5	9 8	0 45.70	+ 6 38.9	1.583	2.519	10.7	20.8
9 18	0 37.55	+ 5 27.4	1.457	2.440	6.3	19.2	9 18	0 38.16	+ 5 55.0	1.528	2.509	6.3	20.5
9 28	0 29.05	+ 4 42.9	1.434	2.435	1.6	18.9	9 28	0 29.21	+ 4 59.7	1.498	2.499	1.6	20.2
10 8	0 20.27	+ 3 54.5	1.438	2.430	3.6	19.1	10 8	0 19.91	+ 3 59.7	1.496	2.488	3.6	20.3
10 18	0 12.33	+ 3 9.0	1.468	2.425	8.4	19.3	10 18	0 11.39	+ 3 2.1	1.521	2.477	8.3	20.6
10 28	0 6.25	+ 2 33.1	1.522	2.421	12.7	19.6	10 28	0 4.68	+ 2 14.3	1.571	2.466	12.6	20.8
11 7	0 2.67	+ 2 11.4	1.597	2.416	16.3	19.8	11 7	0 0.45	+ 1 41.4	1.643	2.454	16.3	21.0
282367	2003 <i>OD</i> ₁₁		9 30.3 28°79	9°8/18.0	18		385345	2002 <i>NW</i> ₇₂		9 30.4 134°20	4°8/ 6.2	18	
8 29	0 43.14	- 8 43.0	1.140	2.063	15.4	18.9	8 29	0 51.16	+21 3.4	2.330	3.117	13.5	21.7
9 8	0 40.29	-13 32.0	1.119	2.079	11.5	18.7	9 8	0 45.17	+20 59.2	2.260	3.131	10.9	21.5
9 18	0 35.09	-18 15.3	1.126	2.095	9.8	18.7	9 18	0 37.59	+20 35.5	2.212	3.145	8.1	21.4
9 28	0 28.56	-22 26.5	1.161	2.113	11.4	18.8	9 28	0 29.08	+19 53.1	2.191	3.159	5.6	21.3
10 8	0 21.99	-25 46.3	1.222	2.132	14.6	19.1	10 8	0 20.47	+18 55.3	2.198	3.172	4.8	21.2
10 18	0 16.60	-28 6.8	1.305	2.152	18.0	19.4	10 18	0 12.57	+17 47.3	2.233	3.184	6.4	21.3
10 28	0 13.36	-29 29.7	1.407	2.173	20.8	19.7	10 28	0 6.13	+16 36.0	2.296	3.195	9.0	21.5
11 7	0 12.77	-30 3.2	1.521	2.195	22.9	19.9	11 7	0 1.61	+15 27.8	2.385	3.206	11.5	21.7
310595	2001 <i>VQ</i> ₁₀₁		9 30.3 349°76	1°7/ 1.6	18		284943	2010 <i>EZ</i> ₃₃		9 30.4 210°11	0°2/30.2	18	
8 29	0 44.65	+ 7 20.9	1.206	2.101	17.0	19.5	8 29	0 49.84	+ 4 54.4	2.009	2.876	12.4	21.4
9 8	0 41.61	+ 7 27.2	1.138	2.086	12.7	19.2	9 8	0 44.44	+ 4 16.5	1.934	2.872	9.0	21.2
9 18	0 36.05	+ 7 16.4	1.090	2.074	7.8	18.9	9 18	0 37.28	+ 3 27.4	1.884	2.867	5.1	21.0
9 28	0 28.80	+ 6 51.4	1.063	2.063	2.7	18.6	9 28	0 29.04	+ 2 31.4	1.861	2.862	0.9	20.7
10 8	0 21.12	+ 6 18.3	1.060	2.054	4.1	18.7	10 8	0 20.59	+ 1 34.3	1.866	2.856	3.3	20.9
10 18	0 14.38	+ 5 44.6	1.081	2.047	9.4	18.9	10 18	0 12.82	+ 0 42.0	1.900	2.850	7.4	21.1
10 28	0 9.81	+ 5 18.6	1.123	2.042	14.3	19.2	10 28	0 6.54	- 0 0.0	1.961	2.844	11.0	21.3
11 7	0 8.14	+ 5 6.2	1.185	2.039	18.6	19.5	11 7	0 2.30	- 0 28.1	2.043	2.837	14.1	21.5
399603	2003 <i>WZ</i> ₅₉		9 30.3 256°24	10°7/20.6	18		312023	2007 <i>RT</i> ₇₅		9 30.4 332°45	0°5/29.3	18	
8 29	0 56.99	-27 27.5	1.878	2.738	13.4	20.5	8 29	0 40.33	+ 1 35.5	4.375	5.242	6.2	20.9
9 8	0 49.64	-28 25.7	1.835	2.733	11.7	20.4	9 8	0 36.87	+ 1 6.2	4.301	5.241	4.4	20.8
9 18	0 40.17	-29 6.2	1.814	2.728	10.8	20.4	9 18	0 32.71	+ 0 33.3	4.255	5.239	2.4	20.6
9 28	0 29.54	-29 21.0	1.818	2.723	11.1	20.4	9 28	0 28.15	- 0 1.2	4.238	5.238	0.6	20.4
10 8	0 18.91	-29 5.4	1.846	2.718	12.5	20.4	10 8	0 23.52	- 0 34.8	4.251	5.237	1.9	20.6
10 18	0 9.41	-28 18.8	1.897	2.713	14.5	20.6	10 18	0 19.17	- 1 5.3	4.294	5.237	3.9	20.7
10 28	0 1.96	-27 4.3	1.968	2.708	16.5	20.7	10 28	0 15.40	- 1 30.7	4.366	5.236	5.8	20.9
11 7	23 57.07	-25 27.2	2.057	2.703	18.3	20.9	11 7	0 12.49	- 1 49.4	4.463	5.235	7.4	21.0
188796	2005 <i>VS</i> ₁₁₇		9 30.3 144°25	1°2/29.0	18		265174	2003 <i>XF</i> ₂₉		9 30.4 233°89	2°5/ 2.6	17	
8 29	0 48.25	+ 1 2.1	2.302	3.176	10.7	20.9	8 29	0 51.23	+11 50.9	1.583	2.438	15.7	21.8
9 8	0 43.02	+ 0 27.4	2.237	3.180	7.6	20.7	9 8	0 45.92	+11 31.0	1.507	2.432	12.0	21.5
9 18	0 36.34	- 0 13.6	2.198	3.184	4.2	20.5	9 18	0 38.34	+10 50.9	1.453	2.425	7.7	21.3
9 28	0 28.82	- 0 56.8	2.187	3.188	1.2	20.3	9 28	0 29.28	+ 9 53.5	1.423	2.419	3.4	21.0
10 8	0 21.19	- 1 37.6	2.205	3.191	3.5	20.5	10 8	0 19.87	+ 8 44.8	1.420	2.412	3.8	21.0
10 18	0 14.19	- 2 11.4	2.252	3.194	6.9	20.7	10 18	0 11.31	+ 7 33.1	1.444	2.404	8.2	21.3
10 28	0 8.49	- 2 34.7	2.325	3.197	10.0	20.9	10 28	0 4.67	+ 6 27.2	1.493	2.397	12.5	21.5
11 7	0 4.54	- 2 45.4	2.421	3.200	12.6	21.1	11 7	0 0.63	+ 5 34.3	1.564	2.389	16.3	21.7
391822	2008 <i>SD</i> ₄₉		9 30.3 332°70	0°0/30.3	16		448718	2011 <i>AL</i> ₇₂		9 30.4 196°08	6°0/21.8	18	
8 29	0 40.11	+ 5 23.2	3.982	4.840	7.0	21.3	8 29	0 46.47	-16 46.2	2.593	3.477	9.3	21.2
9 8	0 36.77	+ 4 45.4	3.903	4.836	5.0	21.2	9 8	0 41.68	-18 5.2	2.544	3.476	7.4	21.1
9 18	0 32.66	+ 4 1.8	3.851	4.833	2.9	21.0	9 18	0 35.58	-19 18.6	2.521	3.475	6.1	21.0
9 28	0 28.11	+ 3 14.5	3.828	4.829	0.6	20.8	9 28	0 28.72	-20 20.4	2.526	3.473	6.3	21.0
10 8	0 23.47	+ 2 26.4	3.835	4.825	1.8	21.0	10 8	0 21.76	-21 5.6	2.558	3.471	7.8	21.1
10 18	0 19.13	+ 1 40.4	3.872	4.822	4.0	21.1	10 18	0 15.37	-21 31.3	2.615	3.469	9.8	21.2
10 28	0 15.43	+ 0 59.1	3.938	4.818	6.1	21.3	10 28	0 10.16	-21 36.5	2.696	3.466	11.8	21.4
11 7	0 12.67	+ 0 24.9	4.030	4.815	7.9	21.4	11 7	0 6.53	-21 22.2	2.797	3.464	13.5	21.5
319436	2006 <i>JZ</i> ₅₀		9 30.4 331°74	0°8/30.9	18		521788	2015 <i>SM</i> ₂₈		9 30.4 37°20	5°9/24.9	18	
8 29	0 44.95	+											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
479033	2013 <i>AC</i> ₂₃		9 30.4 282°74	3°9/26.4	18		370546	2003 <i>TO</i> ₁₇		9 30.4 347°46	4°5/ 3.1	18	
8 29	0 48.28	- 5 2.6	1.840	2.733	12.1	21.2	8 29	0 49.11	+11 36.8	1.033	1.918	19.9	20.3
9 8	0 43.49	- 6 7.4	1.769	2.720	8.7	21.0	9 8	0 45.29	+12 9.7	0.970	1.908	15.5	20.0
9 18	0 36.83	- 7 16.7	1.722	2.707	5.4	20.8	9 18	0 38.38	+12 19.4	0.924	1.900	10.3	19.7
9 28	0 28.99	- 8 23.1	1.702	2.693	4.0	20.7	9 28	0 29.37	+12 6.1	0.899	1.894	5.5	19.4
10 8	0 20.89	- 9 19.2	1.710	2.680	6.4	20.8	10 8	0 19.82	+11 34.7	0.897	1.888	5.5	19.4
10 18	0 13.49	- 9 59.1	1.743	2.666	10.0	21.0	10 18	0 11.43	+10 53.4	0.916	1.884	10.3	19.6
10 28	0 7.65	-10 18.9	1.801	2.653	13.4	21.2	10 28	0 5.71	+10 13.2	0.957	1.881	15.6	19.9
11 7	0 3.97	-10 17.7	1.879	2.640	16.4	21.4	11 7	0 3.51	+ 9 43.3	1.015	1.880	20.1	20.2
125056	2001 <i>TF</i> ₂₂₈		9 30.4 79°11	5°0/ 5.3	17		405798	2006 <i>BQ</i> ₂₂		9 30.4 223°95	1°2/ 1.8	18	
8 29	0 51.24	+18 57.9	1.559	2.384	17.4	20.1	8 29	0 47.74	+ 8 50.6	2.489	3.337	10.9	21.4
9 8	0 45.72	+18 40.6	1.506	2.405	13.7	19.9	9 8	0 42.69	+ 8 33.5	2.408	3.332	8.1	21.2
9 18	0 38.07	+17 57.3	1.473	2.426	9.7	19.7	9 18	0 36.23	+ 8 5.4	2.352	3.327	5.0	21.0
9 28	0 29.21	+16 50.2	1.465	2.446	6.1	19.5	9 28	0 28.90	+ 7 28.7	2.324	3.322	1.8	20.8
10 8	0 20.33	+15 26.0	1.482	2.467	5.1	19.5	10 8	0 21.38	+ 6 47.2	2.325	3.317	2.5	20.8
10 18	0 12.56	+13 53.9	1.526	2.487	7.8	19.8	10 18	0 14.38	+ 6 5.1	2.355	3.311	5.8	21.0
10 28	0 6.81	+12 24.0	1.596	2.507	11.4	20.0	10 28	0 8.56	+ 5 27.0	2.413	3.305	8.9	21.2
11 7	0 3.61	+11 5.0	1.689	2.526	14.8	20.3	11 7	0 4.40	+ 4 56.8	2.495	3.300	11.6	21.4
221044	2005 <i>QT</i> ₈₈		9 30.4 71°91	0°8/29.8	18		49792	1999 <i>XO</i> ₃₁		9 30.4 217°17	5°3/24.1	18	
8 29	0 52.89	+ 3 25.0	1.393	2.277	15.7	20.1	8 29	0 49.21	-11 16.1	2.211	3.099	10.5	19.2
9 8	0 46.94	+ 2 49.7	1.349	2.295	11.3	19.9	9 8	0 43.87	-12 33.6	2.149	3.092	7.9	19.1
9 18	0 38.76	+ 2 2.5	1.327	2.313	6.3	19.6	9 18	0 36.94	-13 49.7	2.113	3.085	5.8	18.9
9 28	0 29.35	+ 1 9.8	1.330	2.331	1.2	19.3	9 28	0 29.04	-14 57.3	2.105	3.077	5.5	18.9
10 8	0 19.97	+ 0 19.3	1.360	2.349	4.4	19.6	10 8	0 20.97	-15 50.0	2.125	3.068	7.4	19.0
10 18	0 11.80	- 0 21.9	1.415	2.367	9.2	19.9	10 18	0 13.54	-16 23.6	2.171	3.059	10.1	19.2
10 28	0 5.81	- 0 48.4	1.495	2.385	13.4	20.2	10 28	0 7.49	-16 36.0	2.241	3.050	12.7	19.3
11 7	0 2.49	- 0 57.6	1.594	2.403	16.8	20.5	11 7	0 3.33	-16 27.6	2.332	3.040	15.0	19.5
55100	2001 <i>QM</i> ₁₃₇		9 30.4 47°60	2°2/ 1.8	18		199398	2006 <i>BO</i> ₂₆₆		9 30.4 238°02	4°1/26.8	18	
8 29	0 57.79	+ 7 14.2	1.599	2.458	15.4	17.5	8 29	0 53.10	- 7 18.4	1.937	2.822	11.9	20.1
9 8	0 50.32	+ 7 55.5	1.549	2.478	11.4	17.3	9 8	0 46.86	- 7 56.6	1.868	2.813	8.7	19.9
9 18	0 40.64	+ 8 24.6	1.522	2.498	7.0	17.1	9 18	0 38.72	- 8 35.5	1.822	2.804	5.5	19.7
9 28	0 29.73	+ 8 42.5	1.522	2.519	2.9	16.9	9 28	0 29.39	- 9 9.0	1.805	2.794	4.1	19.6
10 8	0 18.80	+ 8 51.8	1.549	2.540	3.7	17.0	10 8	0 19.84	- 9 31.4	1.815	2.784	6.3	19.7
10 18	0 9.03	+ 8 56.6	1.604	2.561	7.8	17.3	10 18	0 11.06	- 9 38.6	1.853	2.773	9.7	19.9
10 28	0 1.41	+ 9 1.5	1.685	2.583	11.7	17.6	10 28	0 3.91	- 9 28.4	1.915	2.762	13.0	20.1
11 7	23 56.46	+ 9 10.7	1.788	2.605	14.9	17.9	11 7	23 58.98	- 9 1.0	1.999	2.751	15.8	20.3
211523	2003 <i>QX</i> ₆₀		9 30.4 27°76	2°5/29.0	18 R		420572	2012 <i>HD</i> ₁₇		9 30.4 176°50	1°9/28.5	18	
8 29	0 52.97	- 1 16.2	0.936	1.849	18.9	18.4	8 29	0 50.34	+ 2 10.5	1.662	2.544	13.7	21.3
9 8	0 47.72	- 1 27.1	0.901	1.861	13.5	18.1	9 8	0 45.04	+ 0 54.3	1.599	2.546	9.8	21.1
9 18	0 39.45	- 1 46.0	0.884	1.874	7.6	17.8	9 18	0 37.72	- 0 33.8	1.560	2.547	5.4	20.8
9 28	0 29.50	- 2 5.2	0.889	1.889	2.6	17.6	9 28	0 29.20	- 2 6.1	1.548	2.548	1.9	20.6
10 8	0 19.61	- 2 16.7	0.916	1.905	6.3	17.9	10 8	0 20.50	- 3 33.6	1.564	2.549	5.0	20.8
10 18	0 11.41	- 2 14.5	0.966	1.922	11.8	18.3	10 18	0 12.68	- 4 48.0	1.608	2.548	9.3	21.1
10 28	0 6.09	- 1 55.1	1.036	1.940	16.7	18.6	10 28	0 6.65	- 5 43.2	1.676	2.548	13.2	21.3
11 7	0 4.17	- 1 18.3	1.123	1.959	20.7	18.9	11 7	0 2.98	- 6 16.3	1.764	2.547	16.5	21.5
440834	2006 <i>RJ</i> ₁₂₂		9 30.4 11°08	2°6/ 2.5	18		345750	2007 <i>EF</i> ₂₈		9 30.4 310°34	2°1/28.3	18	
8 29	0 51.20	+10 18.3	1.731	2.587	14.6	20.9	8 29	0 46.41	+ 3 38.8	1.493	2.383	14.5	20.5
9 8	0 45.68	+10 29.4	1.662	2.587	11.1	20.7	9 8	0 42.42	+ 1 57.0	1.428	2.379	10.3	20.2
9 18	0 38.11	+10 25.4	1.616	2.589	7.1	20.4	9 18	0 36.33	- 0 1.5	1.387	2.375	5.7	19.9
9 28	0 29.26	+10 8.0	1.595	2.590	3.3	20.2	9 28	0 28.94	- 2 6.9	1.372	2.372	2.1	19.7
10 8	0 20.18	+ 9 41.3	1.601	2.592	3.6	20.2	10 8	0 21.32	- 4 7.6	1.384	2.368	5.5	19.9
10 18	0 11.91	+ 9 10.5	1.634	2.594	7.4	20.5	10 18	0 14.57	- 5 52.3	1.423	2.365	10.1	20.2
10 28	0 5.42	+ 8 41.8	1.692	2.596	11.3	20.7	10 28	0 9.65	- 7 13.0	1.485	2.362	14.4	20.4
11 7	0 1.31	+ 8 20.5	1.773	2.598	14.7	20.9	11 7	0 7.16	- 8 6.1	1.568	2.359	17.9	20.7
97369	2000 <i>AF</i> ₅₅		9 30.4 222°57	0°8/29.4	18		206563	2003 <i>UO</i> ₂₆₅		9 30.4 288°14	5°4/ 5.6	18	
8 29	0 46.74	+ 2 19.1	2.612	3.481	9.8	19.9	8 29	0 49.29	+19 20.0	1.813	2.629	15.7	19.8
9 8	0 41.89	+ 1 41.1	2.535	3.475	7.0	19.7	9 8	0 44.44	+19 29.1	1.729	2.620	12.7	19.6
9 18	0 35.74	+ 0 56.2	2.484	3.468	3.9	19.5	9 18	0 37.50	+19 15.7	1.666	2.611	9.4	19.4
9 28	0 28.79	+ 0 7.9	2.461	3.462	0.9	19.3	9 28	0 29.19	+18 39.8	1.626	2.601	6.4	19.2
10 8	0 21.69	- 0 39.4	2.468	3.455	3.0	19.5	10 8	0 20.50	+17 44.4	1.613	2.592	5.6	19.2
10 18	0 15.07	- 1 21.3	2.504	3.447	6.2	19.7	10 18	0 12.51	+16 35.7	1.626	2.583	7.8	19.3
10 28	0 9.56	- 1 54.3	2.567	3.440	9.1	19.8	10 28	0 6.22	+15 22.2	1.665	2.574	11.1	19.5
11 7	0 5.59	- 2 15.6	2.654	3.432	11.7	20.0	11 7	0 2.29	+14 12.4	1.727	2.565	14.5	19.6
223939	2004 <i>XG</i> ₁₈		9 30.4 329°62	1°8/28.6	18		352256	2007 <i>TS</i> ₁₈₆		9 30.4 352°32	4°6/26.9	18	
8 29	0 46.69	- 0 0.5	1.913	2.799	12.0	20.1	8 29	0 49.48	- 6 11.9	1.367	2.273	14.6	20.2
9 8	0 42.27	- 0 39.9	1.841	2.790	8.6	19.8	9 8	0 44.77	- 6 52.6	1.311	2.267	10.6	19.9
9 18	0 36.11	- 1 26.6	1.793	2.781	4.8	19.6	9 18	0 37.71	- 7 35.2	1.277	2.263	6.5	19.7
9 28	0 28.88	- 2 15.6	1.772	2.772	1.8	19.4	9 28	0 29.22	- 8 11.9	1.267	2.259	4.7	19.6
10 8	0 21.42	- 3 0.7	1.779	2.764	4.4	19.5	10 8	0 20.53	- 8 34.9	1.281	2.256	7.3	19.7
10 18	0 14.63	- 3 36.6	1.812	2.756	8.2	19.8	10 18	0 12.86	- 8 39.1	1.320	2.255	11.5	20.0
10 28	0 9.31	- 3 58.7	1.871	2.748	11.8	20.0	10 28	0 7.29	- 8 21.8	1.381	2.254	15.5	20.2
11 7	0 6.00	- 4 4.9	1.951	2.741	14.9	20.2	11 7	0 4.41	- 7 43.8	1.461	2.254	18.8	20.5
478960	2012 <i>XD</i> ₇₁		9 30.4 355°12	2°0/28.8	17		470774	2008 <					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
282788	2006 <i>KX</i> ₁₀₂		9 30.4 246°65	5°4/24.8	18		317837	2003 <i>SS</i> ₃₆₃		9 30.4 217°70	0°9/ 1.6	18	
8 29	0 48.40	- 8 15.1	1.754	2.652	12.3	20.2	8 29	0 45.86	+ 9 4.2	2.470	3.322	10.9	21.6
9 8	0 43.58	- 9 43.1	1.698	2.649	9.0	20.0	9 8	0 41.36	+ 8 23.9	2.392	3.318	8.1	21.4
9 18	0 36.89	-11 12.4	1.667	2.646	6.1	19.8	9 18	0 35.50	+ 7 31.3	2.338	3.315	4.9	21.2
9 28	0 29.06	-12 33.9	1.662	2.643	5.6	19.8	9 28	0 28.82	+ 6 29.8	2.312	3.311	1.6	20.9
10 8	0 21.07	-13 39.5	1.684	2.640	7.9	19.9	10 8	0 21.98	+ 5 24.2	2.316	3.308	2.5	21.0
10 18	0 13.90	-14 23.2	1.731	2.637	11.2	20.1	10 18	0 15.66	+ 4 19.6	2.348	3.304	5.8	21.2
10 28	0 8.38	-14 42.3	1.802	2.634	14.3	20.3	10 28	0 10.50	+ 3 21.3	2.409	3.300	8.9	21.4
11 7	0 5.08	-14 37.2	1.891	2.631	17.0	20.5	11 7	0 6.94	+ 2 33.4	2.493	3.296	11.6	21.6
424499	2008 <i>DA</i> ₅₂		9 30.4 215°41	0°7/ 1.1	17		373920	2003 <i>UU</i> ₁₉₄		9 30.4 343°58	3°6/ 3.3	15	
8 29	0 51.12	+ 8 11.5	1.795	2.656	13.9	22.0	8 29	0 45.42	+14 5.1	1.118	1.994	19.3	20.7
9 8	0 45.62	+ 7 28.7	1.717	2.649	10.3	21.7	9 8	0 42.39	+13 38.2	1.052	1.986	15.0	20.4
9 18	0 38.11	+ 6 29.7	1.662	2.642	6.1	21.5	9 18	0 36.65	+12 41.0	1.004	1.979	9.9	20.1
9 28	0 29.32	+ 5 18.9	1.634	2.634	1.6	21.2	9 28	0 29.10	+11 16.7	0.977	1.972	4.9	19.8
10 8	0 20.23	+ 4 3.1	1.634	2.626	3.3	21.3	10 8	0 21.14	+ 9 34.8	0.974	1.967	4.6	19.8
10 18	0 11.90	+ 2 50.1	1.662	2.617	7.8	21.5	10 18	0 14.24	+ 7 48.4	0.994	1.963	9.6	20.1
10 28	0 5.25	+ 1 47.2	1.716	2.607	11.9	21.8	10 28	0 9.72	+ 6 11.4	1.037	1.959	14.9	20.4
11 7	0 0.91	+ 0 59.7	1.793	2.597	15.4	22.0	11 7	0 8.30	+ 4 54.6	1.098	1.957	19.4	20.6
514910	2008 <i>ST</i> ₂₈₁		9 30.4 302°61	0°8/29.7	18		432609	2010 <i>UP</i> ₁₁		9 30.4 323°77	2°7/28.6	18	
8 29	0 48.51	+ 3 44.7	1.552	2.437	14.4	21.5	8 29	0 48.74	- 0 14.0	1.078	1.988	17.2	20.9
9 8	0 44.08	+ 3 5.5	1.470	2.417	10.5	21.2	9 8	0 44.99	- 0 50.6	1.008	1.968	12.5	20.5
9 18	0 37.40	+ 2 12.4	1.410	2.397	5.9	20.9	9 18	0 38.25	- 1 39.7	0.958	1.948	7.1	20.2
9 28	0 29.21	+ 1 10.8	1.376	2.377	1.2	20.5	9 28	0 29.43	- 2 33.2	0.930	1.930	2.8	19.9
10 8	0 20.56	+ 0 8.3	1.367	2.357	4.3	20.7	10 8	0 20.01	- 3 20.8	0.925	1.912	6.6	20.0
10 18	0 12.63	- 0 47.2	1.385	2.338	9.3	21.0	10 18	0 11.61	- 3 52.9	0.942	1.895	12.4	20.3
10 28	0 6.51	- 1 28.4	1.427	2.319	13.8	21.2	10 28	0 5.69	- 4 2.4	0.979	1.880	17.8	20.6
11 7	0 2.93	- 1 50.9	1.489	2.300	17.7	21.4	11 7	0 3.15	- 3 46.9	1.033	1.866	22.3	20.8
407502	2010 <i>VD</i> ₉₀		9 30.4 260°08	1°6/ 2.2	18		178060	2006 <i>SN</i> ₃₆		9 30.4 47°55	5°6/26.9	18	
8 29	0 47.22	+10 18.5	2.316	3.163	11.7	21.3	8 29	0 56.27	- 8 30.8	1.258	2.158	16.0	19.5
9 8	0 42.46	+ 9 56.3	2.231	3.154	8.8	21.1	9 8	0 49.69	- 9 3.9	1.213	2.165	11.7	19.3
9 18	0 36.18	+ 9 20.8	2.171	3.144	5.5	20.9	9 18	0 40.49	- 9 35.0	1.190	2.173	7.5	19.1
9 28	0 28.94	+ 8 34.6	2.137	3.134	2.3	20.7	9 28	0 29.80	- 9 55.8	1.191	2.180	5.6	19.0
10 8	0 21.46	+ 7 41.8	2.133	3.124	2.7	20.7	10 8	0 19.10	- 9 59.4	1.217	2.188	8.2	19.2
10 18	0 14.52	+ 6 47.6	2.157	3.114	6.1	20.9	10 18	0 9.79	- 9 42.1	1.267	2.197	12.3	19.5
10 28	0 8.83	+ 5 57.5	2.208	3.104	9.4	21.1	10 28	0 2.99	- 9 3.4	1.339	2.205	16.3	19.7
11 7	0 4.90	+ 5 16.1	2.283	3.094	12.3	21.3	11 7	23 59.24	- 8 5.8	1.430	2.214	19.6	20.0
452991	2007 <i>GE</i> ₅₁		9 30.4 88°11	2°4/ 3.5	18		206706	2004 <i>BD</i> ₃₄		9 30.4 39°87	7°6/22.3	18	
8 29	0 46.16	+14 7.1	2.366	3.197	12.0	21.3	8 29	0 48.03	-14 43.9	1.742	2.641	12.4	19.9
9 8	0 41.57	+13 36.7	2.297	3.207	9.2	21.1	9 8	0 43.30	-16 23.2	1.701	2.644	9.6	19.7
9 18	0 35.60	+12 51.0	2.253	3.216	6.1	21.0	9 18	0 36.72	-17 56.5	1.684	2.647	7.8	19.6
9 28	0 28.82	+11 52.6	2.235	3.226	3.2	20.8	9 28	0 29.06	-19 14.2	1.693	2.651	7.9	19.6
10 8	0 21.94	+10 46.0	2.246	3.236	2.9	20.8	10 8	0 21.33	-20 8.7	1.727	2.654	9.9	19.8
10 18	0 15.68	+ 9 36.7	2.286	3.245	5.7	21.0	10 18	0 14.48	-20 35.9	1.785	2.658	12.6	19.9
10 28	0 10.67	+ 8 30.6	2.354	3.255	8.7	21.2	10 28	0 9.33	-20 35.2	1.864	2.662	15.3	20.1
11 7	0 7.34	+ 7 32.8	2.446	3.264	11.4	21.4	11 7	0 6.39	-20 8.9	1.961	2.666	17.5	20.3
399042	2013 <i>JL</i> ₅		9 30.4 58°88	7°2/22.9	18		503895	2001 <i>UY</i> ₁₇₁		9 30.4 6°26	0°0/30.3	18	
8 29	0 49.56	-16 51.6	1.966	2.856	11.6	20.2	8 29	0 41.61	+ 7 36.0	0.810	1.728	20.5	19.9
9 8	0 44.13	-17 59.9	1.931	2.867	9.1	20.0	9 8	0 40.00	+ 6 39.5	0.765	1.727	15.0	19.6
9 18	0 37.06	-19 0.0	1.920	2.878	7.4	19.9	9 18	0 35.37	+ 5 15.2	0.738	1.728	8.7	19.3
9 28	0 29.09	-19 44.6	1.935	2.889	7.4	20.0	9 28	0 28.84	+ 3 32.9	0.729	1.731	1.7	18.9
10 8	0 21.15	-20 8.4	1.976	2.900	9.1	20.1	10 8	0 22.07	+ 1 48.4	0.742	1.736	5.2	19.2
10 18	0 14.08	-20 9.2	2.042	2.912	11.4	20.3	10 18	0 16.69	+ 0 17.3	0.775	1.743	11.8	19.6
10 28	0 8.62	-19 47.0	2.130	2.923	13.8	20.5	10 28	0 14.01	- 0 48.0	0.827	1.751	17.4	19.9
11 7	0 5.20	-19 4.4	2.237	2.935	15.8	20.6	11 7	0 14.64	- 1 22.1	0.896	1.762	22.1	20.3
363001	2013 <i>CS</i> ₁₇₉		9 30.4 275°61	0°4/30.0	18		350408	2012 <i>VS</i> ₃₈		9 30.4 251°61	1°7/28.8	18	R
8 29	0 49.78	+ 3 29.2	1.919	2.792	12.6	21.0	8 29	0 51.26	- 0 8.6	1.876	2.756	12.5	20.8
9 8	0 44.52	+ 3 5.6	1.845	2.786	9.1	20.8	9 8	0 45.64	- 0 40.3	1.801	2.747	9.0	20.6
9 18	0 37.43	+ 2 32.4	1.794	2.779	5.2	20.5	9 18	0 38.11	- 1 19.1	1.751	2.737	5.1	20.3
9 28	0 29.20	+ 1 53.4	1.770	2.772	1.0	20.2	9 28	0 29.36	- 2 0.1	1.728	2.727	1.8	20.1
10 8	0 20.72	+ 1 14.1	1.775	2.765	3.5	20.4	10 8	0 20.35	- 2 37.4	1.732	2.717	4.4	20.3
10 18	0 12.94	+ 0 39.7	1.807	2.758	7.6	20.6	10 18	0 12.05	- 3 5.7	1.764	2.707	8.5	20.5
10 28	0 6.70	+ 0 15.1	1.865	2.751	11.4	20.9	10 28	0 5.36	- 3 20.8	1.822	2.697	12.2	20.7
11 7	0 2.57	+ 0 3.6	1.945	2.744	14.6	21.1	11 7	0 0.88	- 3 20.6	1.901	2.686	15.4	20.9
188947	2007 <i>DR</i> ₈₆		9 30.4 44°40	3°4/26.4	18		511368	2014 <i>FJ</i> ₄₉		9 30.4 199°54	2°4/28.0	18	
8 29	0 46.16	- 4 0.9	1.990	2.882	11.3	20.3	8 29	0 53.27	- 3 36.2	2.270	3.144	10.9	22.1
9 8	0 41.74	- 5 15.7	1.935	2.887	8.1	20.1	9 8	0 46.74	- 4 3.7	2.198	3.141	7.8	21.9
9 18	0 35.75	- 6 34.4	1.906	2.891	4.8	19.9	9 18	0 38.59	- 4 34.1	2.153	3.137	4.5	21.7
9 28	0 28.85	- 7 50.0	1.904	2.896	3.5	19.8	9 28	0 29.45	- 5 2.9	2.136	3.132	2.4	21.6
10 8	0 21.86	- 8 55.7	1.930	2.901	5.8	20.0	10 8	0 20.14	- 5 25.7	2.149	3.127	4.5	21.7
10 18	0 15.57	- 9 46.0	1.983	2.905	9.0	20.2	10 18	0 11.49	- 5 38.7	2.190	3.121	7.8	21.9
10 28	0 10.70	-10 17.3	2.060	2.910	12.1	20.4	10 28	0 4.26	- 5 39.4	2.259	3.115	10.9	22.1
11 7	0 7.72	-10 28.8	2.159	2.916	14.6	20.6	11 7	23 58.97	- 5 26.8	2.349	3.108	13.6	22.3
306350	2011 <i>SQ</i> ₁₇₅		9 30.4 344°43	0°9/29.5	18		294281	2007 <i>UG</i>					

EPHEMERIDES

9 30.4

9 30.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
80328	1999 <i>XK</i> ₉₀		9 30.4 354°83	5°6/ 4.5 18			311663	2006 <i>SK</i> ₂₇		9 30.4 354°31	3°7/ 3.1 18		
8 29	0 48.43	+15 54.2	1.162	2.025	19.7	18.3	8 29	0 50.20	+11 40.9	1.482	2.343	16.3	19.9
9 8	0 44.56	+16 14.9	1.098	2.020	15.6	18.1	9 8	0 45.35	+12 8.6	1.412	2.338	12.6	19.6
9 18	0 37.88	+16 8.2	1.052	2.017	11.0	17.8	9 18	0 38.14	+12 18.7	1.364	2.334	8.4	19.4
9 28	0 29.35	+15 34.0	1.027	2.015	6.8	17.6	9 28	0 29.41	+12 12.0	1.339	2.331	4.5	19.2
10 8	0 20.40	+14 37.6	1.025	2.013	6.0	17.5	10 8	0 20.32	+11 51.9	1.339	2.329	4.4	19.2
10 18	0 12.55	+13 28.3	1.047	2.013	9.7	17.8	10 18	0 12.12	+11 24.1	1.366	2.328	8.3	19.4
10 28	0 7.13	+12 18.0	1.090	2.013	14.3	18.0	10 28	0 5.92	+10 55.8	1.416	2.328	12.5	19.6
11 7	0 4.91	+11 17.5	1.153	2.015	18.5	18.3	11 7	0 2.41	+10 33.8	1.487	2.329	16.2	19.9
508826	2001 <i>SK</i> ₁₇₂		9 30.4 18°67	0°0/30.2 18			64926	2001 <i>YF</i> ₁₀₇		9 30.4 192°27	0°1/30.3 18		
8 29	0 49.74	+ 4 1.6	1.078	1.979	18.0	20.5	8 29	0 47.66	+ 5 2.8	2.339	3.203	11.0	20.1
9 8	0 45.30	+ 3 52.0	1.033	1.986	13.0	20.2	9 8	0 42.70	+ 4 25.2	2.266	3.202	7.9	19.9
9 18	0 38.14	+ 3 27.6	1.006	1.994	7.4	20.0	9 18	0 36.30	+ 3 38.1	2.218	3.201	4.5	19.7
9 28	0 29.37	+ 2 54.2	1.002	2.004	1.4	19.6	9 28	0 29.03	+ 2 45.0	2.199	3.200	0.9	19.4
10 8	0 20.49	+ 2 19.8	1.022	2.014	4.6	19.9	10 8	0 21.60	+ 1 51.1	2.208	3.198	2.9	19.5
10 18	0 12.94	+ 1 52.4	1.065	2.026	10.2	20.2	10 18	0 14.75	+ 1 1.2	2.246	3.196	6.4	19.8
10 28	0 7.90	+ 1 38.4	1.129	2.039	15.1	20.5	10 28	0 9.14	+ 0 19.9	2.311	3.194	9.6	20.0
11 7	0 5.95	+ 1 41.3	1.212	2.053	19.1	20.9	11 7	0 5.26	- 0 9.4	2.400	3.192	12.4	20.2
32874	1993 <i>FJ</i> ₄₈		9 30.4 136°17	0°0/30.4 18			241256	2007 <i>TS</i> ₂₈₈		9 30.4 345°18	7°6/23.6 18		
8 29	0 47.98	+ 5 32.7	2.128	2.994	11.8	19.4	8 29	0 50.40	-14 30.3	1.589	2.488	13.3	19.9
9 8	0 43.02	+ 4 57.9	2.060	2.997	8.6	19.2	9 8	0 45.20	-15 42.4	1.540	2.485	10.3	19.7
9 18	0 36.50	+ 4 12.4	2.017	3.000	4.9	19.0	9 18	0 37.90	-16 48.4	1.515	2.482	8.0	19.5
9 28	0 29.04	+ 3 20.3	2.001	3.002	1.0	18.7	9 28	0 29.35	-17 38.8	1.514	2.480	7.9	19.5
10 8	0 21.44	+ 2 26.9	2.013	3.004	3.0	18.9	10 8	0 20.67	-18 6.5	1.538	2.477	10.0	19.6
10 18	0 14.51	+ 1 37.5	2.054	3.007	6.8	19.2	10 18	0 12.98	-18 7.6	1.585	2.476	13.0	19.8
10 28	0 8.94	+ 0 57.1	2.122	3.009	10.2	19.4	10 28	0 7.20	-17 41.8	1.655	2.474	15.9	20.0
11 7	0 5.25	+ 0 29.1	2.212	3.011	13.1	19.6	11 7	0 3.89	-16 52.0	1.742	2.473	18.5	20.2
278344	2007 <i>JV</i> ₁		9 30.4 67°69	3°8/27.6 16			307031	2001 <i>XL</i> ₁₅₉		9 30.4 295°65	5°4/24.7 18		
8 29	0 55.03	- 5 15.2	1.496	2.388	14.4	20.7	8 29	0 48.25	- 9 56.5	1.912	2.807	11.6	20.2
9 8	0 48.28	- 5 52.1	1.462	2.412	10.3	20.5	9 8	0 43.51	-11 5.4	1.841	2.789	8.6	19.9
9 18	0 39.46	- 6 30.2	1.450	2.435	6.1	20.3	9 18	0 36.93	-12 14.4	1.794	2.770	6.1	19.8
9 28	0 29.59	- 7 2.7	1.465	2.459	3.8	20.2	9 28	0 29.18	-13 15.9	1.773	2.752	5.6	19.7
10 8	0 19.88	- 7 23.4	1.506	2.483	6.3	20.5	10 8	0 21.15	-14 2.7	1.780	2.734	7.7	19.8
10 18	0 11.43	- 7 28.3	1.574	2.506	10.2	20.7	10 18	0 13.77	-14 29.6	1.812	2.716	10.9	19.9
10 28	0 5.10	- 7 15.8	1.665	2.529	13.7	21.0	10 28	0 7.91	-14 34.0	1.868	2.698	14.0	20.1
11 7	0 1.35	- 6 46.5	1.776	2.553	16.6	21.3	11 7	0 4.16	-14 16.2	1.942	2.680	16.7	20.3
300474	2007 <i>TW</i> ₁₁₄		9 30.4 353°28	1°5/ 1.9 18			252817	2002 <i>GT</i> ₄₆		9 30.4 175°28	0°6/29.8 17		
8 29	0 45.05	+11 19.8	1.557	2.424	15.3	20.3	8 29	0 53.90	+ 3 42.1	1.760	2.630	13.7	22.0
9 8	0 41.43	+10 20.5	1.487	2.421	11.5	20.1	9 8	0 47.58	+ 3 3.7	1.694	2.633	9.9	21.8
9 18	0 35.80	+ 8 59.2	1.440	2.419	7.0	19.8	9 18	0 39.21	+ 2 14.1	1.651	2.635	5.6	21.5
9 28	0 28.92	+ 7 21.4	1.418	2.417	2.5	19.5	9 28	0 29.62	+ 1 18.5	1.636	2.637	1.1	21.2
10 8	0 21.82	+ 5 35.8	1.422	2.415	3.4	19.6	10 8	0 19.84	+ 0 23.4	1.649	2.638	3.9	21.5
10 18	0 15.54	+ 3 52.9	1.453	2.415	8.0	19.9	10 18	0 10.94	- 0 24.7	1.690	2.638	8.3	21.7
10 28	0 11.00	+ 2 22.3	1.509	2.414	12.3	20.1	10 28	0 3.84	- 1 0.2	1.756	2.637	12.3	22.0
11 7	0 8.81	+ 1 10.9	1.587	2.414	16.0	20.4	11 7	23 59.13	- 1 19.9	1.845	2.636	15.6	22.2
360902	2005 <i>SX</i> ₁₇₇		9 30.4 166°36	2°1/ 3.0 18			28616	2000 <i>FD</i> ₁₁		9 30.4 55°51	6°4/26.1 18		
8 29	0 46.49	+13 21.2	2.218	3.055	12.4	21.1	8 29	0 57.58	-13 6.5	1.555	2.444	14.1	17.1
9 8	0 41.95	+12 38.8	2.142	3.057	9.5	20.9	9 8	0 49.93	-13 37.1	1.531	2.473	10.5	17.0
9 18	0 35.90	+11 39.7	2.090	3.058	6.1	20.7	9 18	0 40.30	-14 0.1	1.530	2.503	7.4	16.9
9 28	0 28.93	+10 27.1	2.065	3.059	2.9	20.5	9 28	0 29.77	-14 9.0	1.556	2.533	6.4	16.9
10 8	0 21.82	+ 9 6.3	2.069	3.060	2.9	20.5	10 8	0 19.57	-13 59.4	1.608	2.563	8.3	17.1
10 18	0 15.32	+ 7 43.8	2.101	3.061	6.1	20.7	10 18	0 10.75	-13 30.1	1.685	2.593	11.3	17.3
10 28	0 10.13	+ 6 26.4	2.162	3.061	9.4	20.9	10 28	0 4.13	-12 42.5	1.787	2.623	14.2	17.6
11 7	0 6.74	+ 5 19.7	2.246	3.062	12.3	21.1	11 7	0 0.08	-11 39.5	1.908	2.653	16.7	17.8
72348	2001 <i>BU</i> ₆₉		9 30.4 177°84	0°0/30.5 18			468782	2012 <i>AV</i> ₂₁		9 30.4 296°67	3°1/23.6 18		
8 29	0 49.44	+ 4 18.2	2.671	3.528	10.0	19.8	8 29	0 40.30	-11 30.6	4.216	5.101	6.0	21.1
9 8	0 43.81	+ 4 4.5	2.597	3.529	7.2	19.6	9 8	0 36.96	-12 32.9	4.153	5.094	4.5	21.0
9 18	0 36.85	+ 3 43.6	2.549	3.530	4.1	19.4	9 18	0 32.88	-13 34.1	4.119	5.088	3.3	20.9
9 28	0 29.12	+ 3 18.2	2.530	3.531	0.8	19.2	9 28	0 28.36	-14 30.8	4.113	5.081	3.2	20.9
10 8	0 21.25	+ 2 51.7	2.540	3.531	2.5	19.3	10 8	0 23.75	-15 20.1	4.137	5.075	4.3	21.0
10 18	0 13.91	+ 2 27.5	2.581	3.531	5.7	19.6	10 18	0 19.42	-15 59.5	4.190	5.068	5.9	21.1
10 28	0 7.70	+ 2 8.9	2.649	3.530	8.6	19.7	10 28	0 15.71	-16 27.4	4.268	5.062	7.4	21.2
11 7	0 3.08	+ 1 58.6	2.742	3.530	11.1	19.9	11 7	0 12.89	-16 43.3	4.369	5.055	8.7	21.3
71630	2000 <i>EN</i> ₇₅		9 30.4 258°04	1°9/ 3.1 18			90121	2002 <i>XO</i> ₇₂		9 30.4 30°99	7°7/25.6 18		
8 29	0 45.34	+13 42.6	2.694	3.522	10.8	19.5	8 29	0 53.04	-11 41.1	1.114	2.026	16.7	18.2
9 8	0 40.99	+12 53.5	2.595	3.505	8.2	19.3	9 8	0 47.48	-12 35.9	1.082	2.037	12.4	18.0
9 18	0 35.33	+11 48.9	2.522	3.487	5.4	19.1	9 18	0 39.26	-13 24.2	1.070	2.049	8.8	17.8
9 28	0 28.83	+10 31.5	2.476	3.469	2.6	18.8	9 28	0 29.61	-13 55.5	1.081	2.062	7.8	17.8
10 8	0 22.11	+ 9 5.8	2.460	3.451	2.5	18.8	10 8	0 20.07	-14 2.1	1.115	2.076	10.2	18.0
10 18	0 15.82	+ 7 37.4	2.475	3.433	5.4	19.0	10 18	0 12.05	-13 41.2	1.171	2.091	14.0	18.2
10 28	0 10.58	+ 6 12.5	2.518	3.414	8.4	19.2	10 28	0 6.61	-12 53.8	1.248	2.107	17.7	18.5
11 7	0 6.84	+ 4 56.3	2.588	3.395	11.1	19.3	11 7	0 4.23	-11 44.3	1.341	2.123	20.8	18.8
437218	2012 <i>WJ</i> ₂₃		9 30.4 22°05	13°5/23.5 18			214740	2006 <i>TT</i> ₄₃		9 30.4 100°16	2°2/ 2.9 18		
8 29	0 58.05	-											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
158227	2001 <i>SO</i> ₂₂₀		9 30.4 297°68	1°9/28.8	18		113903	2002 <i>TO</i> ₂₇₆		9 30.4 113°56	2°7/3.6	18	
8 29	0 48.18	+ 2 12.9	1.470	2.361	14.6	20.1	8 29	0 47.86	+14 56.1	2.000	2.834	13.7	20.0
9 8	0 43.93	+ 1 11.4	1.393	2.344	10.6	19.8	9 8	0 43.06	+14 16.1	1.931	2.842	10.6	19.8
9 18	0 37.39	- 0 4.4	1.338	2.326	5.9	19.5	9 18	0 36.59	+13 16.9	1.886	2.850	7.0	19.6
9 28	0 29.31	- 1 27.4	1.309	2.309	1.9	19.2	9 28	0 29.14	+12 1.7	1.866	2.858	3.6	19.4
10 8	0 20.80	- 2 47.9	1.305	2.292	5.3	19.4	10 8	0 21.56	+10 36.5	1.875	2.866	3.3	19.4
10 18	0 13.08	- 3 56.6	1.328	2.275	10.2	19.7	10 18	0 14.72	+ 9 8.6	1.913	2.873	6.5	19.6
10 28	0 7.25	- 4 45.9	1.373	2.258	14.7	19.9	10 28	0 9.38	+ 7 45.6	1.977	2.880	10.0	19.8
11 7	0 4.03	- 5 12.0	1.438	2.242	18.6	20.1	11 7	0 6.04	+ 6 34.0	2.066	2.888	13.0	20.0
349630	2008 <i>UH</i> ₁₆₃		9 30.4 50°62	5°7/6.5	16		123959	2001 <i>FH</i> ₁₂		9 30.4 185°75	0°9/29.1	18	
8 29	0 47.38	+22 2.2	1.488	2.307	18.3	21.1	8 29	0 45.51	+ 3 13.6	2.714	3.582	9.5	19.9
9 8	0 43.17	+21 28.3	1.429	2.320	14.8	20.9	9 8	0 41.01	+ 2 9.0	2.642	3.581	6.8	19.7
9 18	0 36.79	+20 23.1	1.389	2.334	10.9	20.7	9 18	0 35.30	+ 0 56.4	2.596	3.581	3.7	19.5
9 28	0 29.15	+18 49.3	1.372	2.349	7.2	20.6	9 28	0 28.88	- 0 20.0	2.579	3.580	1.0	19.3
10 8	0 21.42	+16 54.3	1.381	2.363	5.8	20.5	10 8	0 22.35	- 1 34.8	2.593	3.579	3.1	19.4
10 18	0 14.72	+14 49.3	1.416	2.378	8.1	20.7	10 18	0 16.29	- 2 43.1	2.636	3.577	6.1	19.6
10 28	0 10.02	+12 47.0	1.476	2.393	11.7	21.0	10 28	0 11.27	- 3 40.6	2.707	3.575	8.9	19.8
11 7	0 7.84	+10 57.9	1.560	2.408	15.2	21.2	11 7	0 7.70	- 4 24.5	2.802	3.573	11.3	20.0
298659	2004 <i>CL</i> ₂₃		9 30.4 337°95	0°3/30.2	18		285926	2001 <i>QS</i> ₂₂₂		9 30.4 20°69	2°5/27.9	17	
8 29	0 48.64	+ 3 45.1	1.460	2.348	14.9	20.6	8 29	0 43.26	+ 2 43.1	1.327	2.229	15.1	19.9
9 8	0 44.22	+ 3 28.0	1.390	2.338	10.9	20.3	9 8	0 40.23	+ 0 58.4	1.281	2.238	10.7	19.7
9 18	0 37.51	+ 2 58.6	1.341	2.328	6.2	20.1	9 18	0 35.14	- 1 0.4	1.259	2.249	5.8	19.4
9 28	0 29.33	+ 2 21.5	1.317	2.319	1.2	19.7	9 28	0 28.86	- 3 2.1	1.261	2.260	2.5	19.2
10 8	0 20.81	+ 1 43.3	1.319	2.310	4.1	19.9	10 8	0 22.50	- 4 54.5	1.289	2.273	5.9	19.5
10 18	0 13.15	+ 1 10.7	1.346	2.303	9.0	20.2	10 18	0 17.14	- 6 27.0	1.343	2.287	10.4	19.8
10 28	0 7.41	+ 0 49.9	1.397	2.296	13.5	20.4	10 28	0 13.65	- 7 33.0	1.419	2.301	14.5	20.1
11 7	0 4.28	+ 0 44.6	1.467	2.290	17.3	20.6	11 7	0 12.54	- 8 10.5	1.514	2.317	17.9	20.4
301191	2008 <i>YR</i> ₁₆₁		9 30.4 108°18	1°5/28.9	18		204450	2004 <i>XJ</i> ₁₃₇		9 30.4 335°92	0°4/30.2	18	
8 29	0 49.55	+ 1 17.7	1.786	2.668	12.9	21.0	8 29	0 48.51	+ 2 32.9	1.176	2.078	16.8	18.9
9 8	0 44.40	+ 0 31.9	1.724	2.670	9.2	20.8	9 8	0 44.69	+ 2 33.2	1.103	2.057	12.3	18.6
9 18	0 37.39	- 0 22.6	1.686	2.673	5.1	20.6	9 18	0 38.08	+ 2 21.5	1.049	2.037	7.1	18.3
9 28	0 29.29	- 1 20.2	1.675	2.675	1.6	20.4	9 28	0 29.52	+ 2 2.4	1.017	2.019	1.4	17.8
10 8	0 21.04	- 2 14.2	1.692	2.678	4.3	20.6	10 8	0 20.37	+ 1 42.5	1.009	2.002	4.7	18.0
10 18	0 13.59	- 2 58.4	1.735	2.680	8.4	20.8	10 18	0 12.13	+ 1 28.7	1.025	1.986	10.6	18.3
10 28	0 7.80	- 3 28.1	1.804	2.682	12.1	21.1	10 28	0 6.20	+ 1 27.6	1.062	1.972	15.8	18.6
11 7	0 4.20	- 3 40.9	1.894	2.685	15.2	21.3	11 7	0 3.44	+ 1 43.0	1.117	1.960	20.3	18.8
193447	2000 <i>WS</i> ₁₄₀		9 30.4 243°99	2°9/27.5	18		50177	2000 <i>AT</i> ₁₆₃		9 30.4 323°36	4°5/4.1	18	
8 29	0 51.23	- 3 22.5	2.047	2.929	11.5	20.8	8 29	0 48.53	+15 35.8	1.338	2.193	18.1	18.9
9 8	0 45.56	- 4 11.0	1.968	2.914	8.3	20.6	9 8	0 44.43	+15 29.6	1.264	2.184	14.2	18.6
9 18	0 38.08	- 5 4.4	1.914	2.898	4.9	20.3	9 18	0 37.79	+14 57.1	1.210	2.175	9.8	18.3
9 28	0 29.44	- 5 56.9	1.888	2.883	2.9	20.2	9 28	0 29.44	+13 59.4	1.178	2.167	5.6	18.1
10 8	0 20.52	- 6 42.5	1.890	2.866	5.2	20.3	10 8	0 20.66	+12 42.6	1.170	2.160	5.0	18.0
10 18	0 12.22	- 7 15.8	1.920	2.849	8.8	20.5	10 18	0 12.80	+11 16.4	1.187	2.152	8.9	18.2
10 28	0 5.39	- 7 33.1	1.976	2.832	12.2	20.7	10 28	0 7.09	+ 9 52.3	1.228	2.146	13.5	18.5
11 7	0 0.62	- 7 33.1	2.053	2.814	15.2	20.8	11 7	0 4.28	+ 8 40.6	1.290	2.140	17.6	18.7
410877	2009 <i>SB</i> ₃₇		9 30.4 280°09	0°1/30.3	17		252797	2002 <i>FY</i> ₁₄		9 30.4 222°49	1°8/28.6	18	
8 29	0 50.28	+ 3 19.1	2.337	3.201	11.0	21.3	8 29	0 51.06	- 1 54.1	2.391	3.265	10.4	20.6
9 8	0 44.72	+ 3 12.0	2.248	3.184	8.0	21.0	9 8	0 45.16	- 2 14.5	2.317	3.259	7.5	20.4
9 18	0 37.56	+ 2 57.5	2.184	3.167	4.6	20.8	9 18	0 37.74	- 2 38.7	2.268	3.253	4.2	20.2
9 28	0 29.34	+ 2 38.4	2.148	3.149	0.9	20.5	9 28	0 29.39	- 3 2.9	2.248	3.246	1.8	20.0
10 8	0 20.83	+ 2 18.3	2.141	3.132	2.9	20.6	10 8	0 20.87	- 3 23.0	2.257	3.240	3.8	20.2
10 18	0 12.82	+ 2 0.9	2.164	3.114	6.6	20.8	10 18	0 12.94	- 3 35.7	2.295	3.233	7.1	20.4
10 28	0 6.08	+ 1 50.0	2.213	3.096	10.0	21.0	10 28	0 6.29	- 3 38.2	2.361	3.226	10.2	20.6
11 7	0 1.15	+ 1 48.3	2.286	3.079	12.9	21.2	11 7	0 1.43	- 3 28.9	2.449	3.218	12.8	20.7
241974	2002 <i>HT</i> ₂		9 30.4 252°68	4°3/26.7	18		3484	Neugebauer		9 30.4 50°17	10°0/21.3	18	R
8 29	0 53.98	- 7 43.1	1.914	2.799	12.1	20.9	8 29	0 49.88	-18 1.5	1.385	2.287	14.6	16.3
9 8	0 47.66	- 8 22.3	1.838	2.783	8.9	20.6	9 8	0 44.86	-19 57.2	1.366	2.305	11.8	16.2
9 18	0 39.32	- 9 2.1	1.787	2.767	5.7	20.4	9 18	0 37.67	-21 39.2	1.369	2.324	10.1	16.2
9 28	0 29.69	- 9 36.2	1.763	2.751	4.3	20.3	9 28	0 29.36	-22 55.8	1.396	2.342	10.4	16.2
10 8	0 19.76	- 9 58.7	1.767	2.734	6.5	20.4	10 8	0 21.16	-23 39.6	1.446	2.362	12.5	16.4
10 18	0 10.56	-10 5.2	1.798	2.717	10.0	20.6	10 18	0 14.22	-23 48.4	1.518	2.381	15.1	16.6
10 28	0 3.01	- 9 53.5	1.854	2.700	13.4	20.8	10 28	0 9.40	-23 24.3	1.610	2.401	17.6	16.9
11 7	23 57.74	- 9 23.6	1.931	2.682	16.3	20.9	11 7	0 7.15	-22 32.6	1.717	2.420	19.7	17.1
158798	2003 <i>SR</i> ₁₆₈		9 30.4 357°22	4°4/25.4	18		326036	2010 <i>XW</i> ₄₈		9 30.4 207°45	4°4/24.7	18	
8 29	0 45.92	- 7 25.6	2.006	2.902	11.1	19.4	8 29	0 46.96	-10 20.3	2.517	3.404	9.5	20.7
9 8	0 41.64	- 8 37.6	1.950	2.901	8.0	19.2	9 8	0 42.14	-11 23.9	2.458	3.402	7.0	20.5
9 18	0 35.78	- 9 50.7	1.919	2.900	5.3	19.1	9 18	0 35.98	-12 26.2	2.425	3.399	4.9	20.4
9 28	0 28.98	-10 57.9	1.915	2.900	4.5	19.0	9 28	0 29.04	-13 21.7	2.420	3.396	4.5	20.4
10 8	0 22.05	-11 52.7	1.938	2.899	6.6	19.1	10 8	0 21.99	-14 5.3	2.444	3.393	6.2	20.5
10 18	0 15.80	-12 30.1	1.988	2.899	9.6	19.3	10 18	0 15.50	-14 33.6	2.495	3.390	8.6	20.6
10 28	0 10.96	-12 47.5	2.061	2.899	12.5	19.5	10 28	0 10.17	-14 44.5	2.571	3.387	11.0	20.8
11 7	0 8.00	-12 44.6	2.154	2.900	15.0	19.7	11 7	0 6.45	-14 38.1	2.668	3.384	13.1	20.9
284969	2010 <i>FG</i> ₈₅		9 30.4 121°96	6°0/23.8	18		485298	2011 <i>AS</i> ₄₃		9 30.4 261°62	7°6/19.1	18	
8 29	0 49.19												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
130832	2000 <i>UG</i> ₄₄		9 30.4 331°40	1°1/29.7	18		106616	2000 <i>WJ</i> ₁₂₂		9 30.4 221°71	0°3/30.2	18	
8 29	0 49.33	+ 1 45.4	1.281	2.179	15.9	18.7	8 29	0 53.24	+ 4 25.2	1.677	2.549	14.2	20.7
9 8	0 45.06	+ 1 30.2	1.209	2.162	11.6	18.4	9 8	0 47.34	+ 3 52.2	1.602	2.542	10.3	20.4
9 18	0 38.18	+ 1 3.6	1.158	2.146	6.6	18.1	9 18	0 39.25	+ 3 6.5	1.550	2.534	5.9	20.1
9 28	0 29.55	+ 0 31.1	1.130	2.131	1.5	17.7	9 28	0 29.75	+ 2 12.9	1.524	2.525	1.1	19.8
10 8	0 20.43	- 0 0.2	1.127	2.117	4.9	17.9	10 8	0 19.93	+ 1 18.0	1.526	2.517	3.9	20.0
10 18	0 12.23	- 0 23.0	1.148	2.104	10.3	18.2	10 18	0 10.91	+ 0 29.0	1.556	2.507	8.6	20.2
10 28	0 6.20	- 0 31.2	1.191	2.092	15.2	18.4	10 28	0 3.74	- 0 8.0	1.610	2.497	12.8	20.5
11 7	0 3.12	- 0 21.6	1.253	2.082	19.4	18.7	11 7	23 59.06	- 0 29.1	1.686	2.487	16.4	20.7
192218	2007 <i>PX</i> ₄₅		9 30.4 111°76	0°2/30.1	18		223397	2003 <i>SE</i> ₁₁₈		9 30.4 251°51	0°8/1.6	18	
8 29	0 40.56	+ 3 44.3	4.547	5.406	6.1	20.1	8 29	0 45.34	+ 9 25.7	2.544	3.393	10.7	20.1
9 8	0 37.09	+ 3 16.0	4.476	5.410	4.4	20.0	9 8	0 41.06	+ 8 37.4	2.458	3.383	7.9	19.9
9 18	0 32.96	+ 2 43.6	4.432	5.414	2.5	19.9	9 18	0 35.43	+ 7 36.3	2.397	3.373	4.8	19.6
9 28	0 28.45	+ 2 8.9	4.417	5.419	0.5	19.7	9 28	0 28.98	+ 6 25.8	2.364	3.363	1.5	19.4
10 8	0 23.88	+ 1 34.1	4.433	5.423	1.6	19.8	10 8	0 22.34	+ 5 10.7	2.361	3.353	2.4	19.5
10 18	0 19.58	+ 1 1.4	4.479	5.427	3.6	20.0	10 18	0 16.17	+ 3 56.6	2.387	3.342	5.7	19.7
10 28	0 15.84	+ 0 32.9	4.554	5.431	5.4	20.1	10 28	0 11.10	+ 2 49.0	2.441	3.332	8.9	19.9
11 7	0 12.93	+ 0 10.3	4.655	5.435	7.0	20.2	11 7	0 7.59	+ 1 52.3	2.520	3.321	11.6	20.0
11829	Tuvikene		9 30.4 235°44	1°4/1.6	18 R		69685	1998 <i>HD</i> ₂₂		9 30.4 91°75	1°2/29.6	18	
8 29	0 53.33	+ 8 23.6	1.660	2.521	14.8	18.5	8 29	0 56.61	+ 0 10.8	1.756	2.630	13.5	19.5
9 8	0 47.49	+ 8 7.9	1.580	2.511	11.1	18.3	9 8	0 49.36	+ 0 4.7	1.707	2.648	9.7	19.3
9 18	0 39.38	+ 7 36.3	1.522	2.500	6.8	18.0	9 18	0 40.17	- 0 7.4	1.681	2.666	5.4	19.1
9 28	0 29.77	+ 6 52.0	1.491	2.490	2.3	17.7	9 28	0 29.90	- 0 21.4	1.683	2.684	1.4	18.9
10 8	0 19.76	+ 6 0.6	1.486	2.478	3.5	17.8	10 8	0 19.65	- 0 32.7	1.713	2.701	4.0	19.1
10 18	0 10.53	+ 5 9.0	1.509	2.467	8.2	18.0	10 18	0 10.46	- 0 37.4	1.772	2.718	8.1	19.4
10 28	0 3.17	+ 4 24.5	1.558	2.455	12.5	18.3	10 28	0 3.18	- 0 32.3	1.856	2.735	11.8	19.6
11 7	23 58.36	+ 3 52.7	1.628	2.442	16.3	18.5	11 7	23 58.31	- 0 16.1	1.962	2.751	14.8	19.9
371883	2008 <i>CC</i> ₅₄		9 30.4 259°62	2°2/28.4	18		477412	2009 <i>VO</i> ₉₇		9 30.4 276°36	2°6/2.7	18	
8 29	0 49.69	+ 2 1.2	1.508	2.397	14.5	21.4	8 29	0 50.86	+ 11 37.8	1.659	2.512	15.2	21.6
9 8	0 44.97	+ 0 45.2	1.434	2.384	10.4	21.1	9 8	0 45.83	+ 11 26.0	1.570	2.494	11.7	21.4
9 18	0 37.98	- 0 45.2	1.384	2.371	5.8	20.8	9 18	0 38.52	+ 10 55.3	1.503	2.475	7.6	21.1
9 28	0 29.49	- 2 21.9	1.359	2.358	2.2	20.6	9 28	0 29.64	+ 10 7.5	1.460	2.456	3.5	20.8
10 8	0 20.64	- 3 54.7	1.361	2.345	5.5	20.8	10 8	0 20.25	+ 9 7.7	1.444	2.436	3.7	20.8
10 18	0 12.61	- 5 13.9	1.389	2.331	10.3	21.0	10 18	0 11.53	+ 8 3.2	1.456	2.416	8.1	21.0
10 28	0 6.47	- 6 11.9	1.441	2.318	14.7	21.2	10 28	0 4.59	+ 7 2.5	1.492	2.397	12.5	21.2
11 7	0 2.92	- 6 45.3	1.512	2.304	18.4	21.5	11 7	0 0.20	+ 6 12.9	1.550	2.377	16.4	21.4
467484	2006 <i>SJ</i> ₃₂₁		9 30.4 56°65	2°8/28.4	17		66502	1999 <i>RV</i> ₇₅		9 30.4 318°81	0°1/30.3	18	
8 29	0 53.08	- 0 15.3	1.164	2.065	17.0	20.5	8 29	0 44.62	+ 8 33.4	1.506	2.385	15.1	18.4
9 8	0 47.36	- 1 11.5	1.132	2.087	12.0	20.3	9 8	0 41.30	+ 7 6.2	1.430	2.372	11.1	18.1
9 18	0 39.16	- 2 16.4	1.121	2.110	6.7	20.1	9 18	0 35.89	+ 5 16.3	1.375	2.360	6.4	17.8
9 28	0 29.67	- 3 20.4	1.134	2.133	2.8	19.9	9 28	0 29.11	+ 3 10.8	1.346	2.348	1.2	17.5
10 8	0 20.35	- 4 14.1	1.172	2.156	6.1	20.2	10 8	0 22.01	+ 1 1.1	1.345	2.336	4.1	17.7
10 18	0 12.48	- 4 50.3	1.234	2.180	10.9	20.5	10 18	0 15.67	- 1 0.8	1.369	2.324	9.1	17.9
10 28	0 7.06	- 5 5.0	1.318	2.204	15.2	20.9	10 28	0 11.10	- 2 44.1	1.419	2.314	13.7	18.2
11 7	0 4.55	- 4 57.9	1.421	2.227	18.6	21.2	11 7	0 8.93	- 4 2.0	1.489	2.303	17.5	18.4
296831	2009 <i>WW</i> ₄₇		9 30.4 262°41	3°0/4.2	18		79084	5650 <i>T</i> ₋₃		9 30.5 143°67	5°8/25.1	18	
8 29	0 46.60	+ 15 25.6	2.396	3.220	12.1	20.4	8 29	0 53.96	- 10 29.3	1.793	2.682	12.6	19.6
9 8	0 42.05	+ 15 9.0	2.312	3.215	9.4	20.2	9 8	0 47.50	- 11 43.0	1.748	2.692	9.3	19.4
9 18	0 36.02	+ 14 36.3	2.252	3.210	6.5	20.0	9 18	0 39.14	- 12 54.2	1.728	2.702	6.5	19.2
9 28	0 29.09	+ 13 49.4	2.218	3.204	3.8	19.8	9 28	0 29.73	- 13 54.6	1.735	2.712	5.9	19.2
10 8	0 21.94	+ 12 52.0	2.212	3.199	3.3	19.8	10 8	0 20.28	- 14 37.3	1.769	2.720	8.0	19.4
10 18	0 15.33	+ 11 48.9	2.235	3.194	5.8	19.9	10 18	0 11.82	- 14 58.4	1.829	2.729	11.0	19.6
10 28	0 9.93	+ 10 46.2	2.285	3.188	8.8	20.1	10 28	0 5.17	- 14 56.5	1.913	2.736	14.0	19.8
11 7	0 6.25	+ 9 49.4	2.361	3.183	11.6	20.3	11 7	0 0.84	- 14 33.3	2.016	2.743	16.5	20.0
233352	2006 <i>DJ</i> ₇₁		9 30.4 92°37	2°0/2.2	18		250637	2005 <i>JL</i> ₄₇		9 30.5 293°03	14°9/19.9	18	
8 29	0 53.29	+ 9 26.9	1.737	2.591	14.6	20.5	8 29	1 5.66	- 31 8.9	1.406	2.259	17.4	19.5
9 8	0 47.16	+ 9 28.5	1.676	2.602	10.9	20.3	9 8	0 57.11	- 32 14.7	1.345	2.233	15.7	19.3
9 18	0 39.02	+ 9 15.4	1.638	2.612	6.8	20.1	9 18	0 45.14	- 32 55.6	1.303	2.207	14.9	19.2
9 28	0 29.68	+ 8 50.1	1.625	2.622	2.8	19.8	9 28	0 30.98	- 32 58.0	1.284	2.181	15.3	19.2
10 8	0 20.20	+ 8 17.1	1.641	2.632	3.4	19.9	10 8	0 16.44	- 32 13.6	1.285	2.155	17.0	19.2
10 18	0 11.64	+ 7 42.2	1.684	2.642	7.4	20.2	10 18	0 3.40	- 30 41.8	1.308	2.128	19.5	19.3
10 28	0 4.91	+ 7 11.2	1.753	2.652	11.2	20.4	10 28	23 53.37	- 28 29.1	1.349	2.102	22.2	19.4
11 7	0 0.57	+ 6 49.2	1.844	2.662	14.5	20.7	11 7	23 47.11	- 25 45.7	1.406	2.076	24.7	19.6
485256	2010 <i>VC</i> ₁₇₇		9 30.4 288°14	3°7/26.8	18		113134	2002 <i>RD</i> ₈₇		9 30.5 39°88	0°3/30.7	18	
8 29	0 50.03	- 6 54.0	2.093	2.980	11.1	21.2	8 29	0 50.61	+ 5 26.0	1.522	2.400	15.0	19.5
9 8	0 44.65	- 7 31.3	2.020	2.967	8.1	21.0	9 8	0 45.38	+ 5 9.7	1.470	2.412	10.9	19.3
9 18	0 37.56	- 8 9.7	1.971	2.953	5.1	20.7	9 18	0 38.05	+ 4 40.6	1.440	2.424	6.3	19.1
9 28	0 29.40	- 8 43.7	1.950	2.939	3.8	20.6	9 28	0 29.52	+ 4 3.2	1.436	2.437	1.4	18.8
10 8	0 21.00	- 9 8.0	1.956	2.926	5.8	20.7	10 8	0 20.91	+ 3 23.6	1.458	2.450	3.6	19.0
10 18	0 13.24	- 9 18.6	1.990	2.912	9.0	20.9	10 18	0 13.31	+ 2 48.4	1.506	2.463	8.2	19.3
10 28	0 6.90	- 9 13.0	2.049	2.899	12.1	21.1	10 28	0 7.65	+ 2 23.0	1.579	2.477	12.3	19.6
11 7	0 2.55	- 8 51.0	2.129	2.885	14.9	21.3	11 7	0 4.45	+ 2 11.2	1.672	2.492	15.7	19.9
188926	2007 <i>CF</i> ₁		9 30.4 349°98	2°1/28.9	18		472591	2015 <i>DT</i> ₁₃₀		9 30.5 90°39	8°9/21.5	18	
8 29	0 4												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
390656	2002 <i>QN</i> ₁₁₇		9 30.5 328°11	1.2/ 1.6	18		478666	2012 <i>TP</i> ₂₅₈		9 30.5 13°51	13°4/26.9	18	
8 29	0 47.67	+ 9 11.6	1.689	2.555	14.4	20.8	8 29	1 14.38	-29 11.7	1.213	2.069	19.5	19.8
9 8	0 43.28	+ 8 36.2	1.617	2.550	10.7	20.6	9 8	1 2.84	-28 57.1	1.171	2.073	16.6	19.6
9 18	0 36.92	+ 7 43.6	1.567	2.546	6.5	20.3	9 18	0 47.94	-28 11.0	1.150	2.079	14.2	19.5
9 28	0 29.32	+ 6 38.1	1.543	2.542	2.1	20.0	9 28	0 31.46	-26 44.4	1.151	2.085	13.4	19.5
10 8	0 21.46	+ 5 26.3	1.545	2.538	3.3	20.1	10 8	0 15.57	-24 36.3	1.178	2.093	14.6	19.6
10 18	0 14.37	+ 4 16.1	1.575	2.534	7.7	20.4	10 18	0 2.12	-21 54.3	1.229	2.102	17.1	19.8
10 28	0 8.96	+ 3 15.1	1.630	2.531	11.8	20.6	10 28	23 52.31	-18 50.1	1.303	2.113	20.0	20.0
11 7	0 5.84	+ 2 28.9	1.707	2.528	15.3	20.8	11 7	23 46.51	-15 35.6	1.396	2.124	22.5	20.2
445388	2010 <i>RF</i> ₁₄₃		9 30.5 314°51	2°3/ 2.5	17		334279	2001 <i>UQ</i> ₁₁₆		9 30.5 352°88	2°2/28.9	18	
8 29	0 48.32	+10 25.2	1.745	2.604	14.3	21.5	8 29	0 45.78	+ 1 15.6	1.076	1.987	17.1	19.7
9 8	0 43.92	+10 22.8	1.652	2.580	10.9	21.2	9 8	0 42.68	+ 0 32.6	1.019	1.980	12.3	19.4
9 18	0 37.42	+10 4.3	1.581	2.555	7.0	21.0	9 18	0 36.88	- 0 24.2	0.982	1.973	6.9	19.1
9 28	0 29.45	+ 9 31.3	1.536	2.532	3.2	20.7	9 28	0 29.37	- 1 26.4	0.968	1.968	2.2	18.8
10 8	0 20.98	+ 8 48.1	1.516	2.508	3.5	20.6	10 8	0 21.53	- 2 23.3	0.976	1.965	5.9	19.0
10 18	0 13.09	+ 8 0.7	1.524	2.485	7.7	20.8	10 18	0 14.81	- 3 5.5	1.007	1.963	11.4	19.3
10 28	0 6.81	+ 7 16.3	1.556	2.463	11.9	21.0	10 28	0 10.44	- 3 26.0	1.058	1.962	16.4	19.6
11 7	0 2.88	+ 6 41.2	1.611	2.441	15.7	21.2	11 7	0 9.12	- 3 22.3	1.127	1.964	20.6	19.8
479067	2013 <i>AV</i> ₈₂		9 30.5 313°05	2°8/ 2.6	18		261252	2005 <i>UW</i> ₈₁		9 30.5 313°59	0°6/ 1.1	18	
8 29	0 49.05	+11 0.7	1.520	2.384	15.8	21.2	8 29	0 48.02	+ 6 59.2	1.978	2.843	12.6	21.6
9 8	0 44.73	+11 2.0	1.430	2.360	12.2	20.9	9 8	0 43.30	+ 6 34.2	1.903	2.838	9.3	21.4
9 18	0 38.01	+10 44.6	1.362	2.336	7.9	20.6	9 18	0 36.86	+ 5 56.8	1.852	2.833	5.5	21.1
9 28	0 29.59	+10 10.0	1.317	2.312	3.7	20.3	9 28	0 29.34	+ 5 10.5	1.827	2.827	1.5	20.9
10 8	0 20.56	+ 9 22.8	1.297	2.289	4.0	20.2	10 8	0 21.59	+ 4 20.4	1.830	2.823	3.0	21.0
10 18	0 12.19	+ 8 30.0	1.304	2.267	8.5	20.4	10 18	0 14.50	+ 3 32.3	1.861	2.818	7.0	21.2
10 28	0 5.69	+ 7 40.0	1.334	2.245	13.2	20.7	10 28	0 8.86	+ 2 51.9	1.918	2.813	10.7	21.4
11 7	0 1.87	+ 7 0.5	1.385	2.224	17.3	20.9	11 7	0 5.22	+ 2 23.3	1.998	2.809	13.8	21.6
476926	2008 <i>WF</i> ₁₁₃		9 30.5 324°64	2°7/ 2.7	16		94998	2001 <i>YL</i> ₁₃₈		9 30.5 113°24	7°4/ 8.4	18	
8 29	0 47.20	+11 21.7	1.384	2.255	16.7	21.5	8 29	0 51.92	+25 46.5	1.852	2.626	16.9	19.3
9 8	0 43.47	+11 11.6	1.304	2.237	12.8	21.2	9 8	0 46.33	+26 1.8	1.783	2.637	14.2	19.2
9 18	0 37.30	+10 39.9	1.243	2.219	8.3	20.9	9 18	0 38.66	+25 50.5	1.733	2.647	11.2	19.0
9 28	0 29.44	+ 9 49.0	1.206	2.203	3.8	20.6	9 28	0 29.70	+25 11.7	1.707	2.657	8.6	18.9
10 8	0 21.08	+ 8 44.9	1.194	2.187	4.0	20.6	10 8	0 20.54	+24 8.2	1.705	2.666	7.4	18.8
10 18	0 13.49	+ 7 36.5	1.207	2.171	8.8	20.8	10 18	0 12.25	+22 46.5	1.731	2.676	8.4	18.9
10 28	0 7.90	+ 6 33.5	1.242	2.157	13.6	21.0	10 28	0 5.80	+21 15.8	1.782	2.685	10.9	19.1
11 7	0 5.10	+ 5 44.1	1.299	2.144	17.8	21.3	11 7	0 1.78	+19 46.0	1.857	2.693	13.6	19.3
80305	1999 <i>XX</i> ₇₀		9 30.5 254°25	0°6/29.9	18		390791	2004 <i>BM</i> ₁₄₇		9 30.5 134°69	9°2/19.7	18	
8 29	0 51.23	+ 4 24.4	1.660	2.536	14.1	20.0	8 29	0 50.02	-22 7.5	1.960	2.841	12.0	20.6
9 8	0 45.99	+ 3 39.8	1.579	2.521	10.3	19.8	9 8	0 44.69	-23 47.6	1.925	2.845	10.1	20.4
9 18	0 38.56	+ 2 41.2	1.522	2.507	5.8	19.5	9 18	0 37.59	-25 15.3	1.915	2.848	9.2	20.4
9 28	0 29.68	+ 1 33.8	1.490	2.491	1.1	19.1	9 28	0 29.47	-26 22.2	1.931	2.852	9.7	20.4
10 8	0 20.40	+ 0 25.4	1.486	2.476	4.1	19.3	10 8	0 21.30	-27 2.2	1.971	2.855	11.3	20.5
10 18	0 11.85	- 0 36.4	1.509	2.460	8.9	19.5	10 18	0 13.99	-27 12.9	2.034	2.858	13.3	20.7
10 28	0 5.08	- 1 24.5	1.557	2.443	13.2	19.8	10 28	0 8.33	-26 55.2	2.117	2.862	15.4	20.9
11 7	0 0.77	- 1 54.5	1.625	2.426	16.9	20.0	11 7	0 4.82	-26 12.6	2.217	2.864	17.1	21.0
11124	Mikulášek		9 30.5 27°34	3°6/27.9	18		174363	Donyork		9 30.5 87°95	5°0/25.9	18	
8 29	0 47.76	- 0 26.1	0.949	1.867	18.2	16.7	8 29	0 52.28	- 9 38.6	1.840	2.730	12.2	20.3
9 8	0 44.04	- 1 37.3	0.915	1.878	12.9	16.4	9 8	0 46.27	-10 26.7	1.794	2.740	9.0	20.2
9 18	0 37.52	- 2 59.3	0.900	1.891	7.3	16.2	9 18	0 38.45	-11 12.6	1.772	2.750	6.0	20.0
9 28	0 29.44	- 4 20.3	0.907	1.905	3.6	16.0	9 28	0 29.64	-11 49.7	1.777	2.759	5.1	20.0
10 8	0 21.36	- 5 27.5	0.936	1.921	7.3	16.3	10 8	0 20.81	-12 12.2	1.809	2.769	7.1	20.1
10 18	0 14.77	- 6 11.7	0.987	1.937	12.5	16.7	10 18	0 12.91	-12 16.8	1.867	2.779	10.1	20.3
10 28	0 10.76	- 6 28.4	1.059	1.955	17.2	17.0	10 28	0 6.72	-12 2.4	1.950	2.788	13.1	20.5
11 7	0 9.83	- 6 17.7	1.147	1.973	21.0	17.3	11 7	0 2.74	-11 29.9	2.052	2.798	15.7	20.8
2299	Hanko		9 30.5 13°70	1°3/29.4	18		63193	2000 <i>YY</i> ₁₁₈		9 30.5 247°57	2°4/25.3	18	
8 29	0 40.93	+ 4 42.7	0.912	1.831	18.6	15.3	8 29	0 41.38	- 9 22.8	4.481	5.362	5.8	20.0
9 8	0 39.20	+ 3 36.3	0.876	1.840	13.3	15.0	9 8	0 37.73	-10 0.5	4.414	5.356	4.2	19.8
9 18	0 34.83	+ 2 10.3	0.859	1.851	7.4	14.7	9 18	0 33.39	-10 37.5	4.374	5.350	2.8	19.7
9 28	0 28.92	+ 0 36.1	0.863	1.864	1.6	14.4	9 28	0 28.63	-11 11.3	4.364	5.344	2.5	19.7
10 8	0 22.93	- 0 52.6	0.888	1.880	5.5	14.8	10 8	0 23.81	-11 39.5	4.383	5.337	3.5	19.8
10 18	0 18.24	- 2 3.6	0.936	1.897	11.2	15.1	10 18	0 19.24	-12 0.2	4.431	5.331	5.1	19.9
10 28	0 15.91	- 2 48.9	1.003	1.917	16.1	15.5	10 28	0 15.27	-12 12.0	4.506	5.324	6.6	20.0
11 7	0 16.43	- 3 6.0	1.088	1.939	20.2	15.8	11 7	0 12.16	-12 14.3	4.605	5.318	8.0	20.1
346257	2008 <i>ES</i> ₆₅		9 30.5 276°66	2°1/28.4	17		512086	2015 <i>NV</i> ₂₅		9 30.5 69°40	4°1/ 4.4	18	
8 29	0 46.57	+ 9 23.2	1.085	1.977	18.6	19.7	8 29	0 51.81	+16 12.4	1.651	2.485	16.2	20.5
9 8	0 43.31	+ 6 28.3	1.017	1.969	13.4	19.4	9 8	0 46.14	+16 6.0	1.600	2.507	12.6	20.4
9 18	0 37.29	+ 2 54.7	0.972	1.961	7.4	19.0	9 18	0 38.46	+15 37.9	1.570	2.529	8.7	20.2
9 28	0 29.45	- 1 1.3	0.952	1.953	2.1	18.7	9 28	0 29.65	+14 50.2	1.565	2.551	5.1	20.0
10 8	0 21.21	- 4 55.4	0.959	1.944	7.0	19.0	10 8	0 20.82	+13 48.7	1.587	2.573	4.5	20.0
10 18	0 14.08	- 8 23.1	0.992	1.936	13.2	19.3	10 18	0 13.02	+12 40.7	1.635	2.596	7.4	20.3
10 28	0 9.34	-11 7.4	1.049	1.928	18.7	19.6	10 28	0 7.13	+11 34.7	1.709	2.617	10.9	20.5
11 7	0 7.74	-13 2.0	1.122	1.920	23.1	19.9	11 7	0 3.65	+10 37.6	1.807	2.639	14.1	20.8
361480	2007 <i>DY</i> ₈₂		9 30.5 113°83	7°9/18.2	18		286575	2002 <i>CF</i> ₂₁₁		9 30.5 238°26	2°4/ 5.1	18	
8 29	0 48.95	-26 11.8	2.785	3									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
121288	1999 <i>RT</i> ₁₇₁		9 30.5 43°15'	4.3/26.2	18		93282	2000 <i>SK</i> ₁₈₇		9 30.5 280°36'	1.2/29.3	18	
8 29	0 46.42	- 1 46.8	1.357	2.262	14.7	19.0	8 29	0 49.25	+ 2 51.8	1.662	2.545	13.7	19.8
9 8	0 42.47	- 3 44.2	1.319	2.277	10.3	18.7	9 8	0 44.53	+ 2 1.7	1.586	2.532	9.9	19.6
9 18	0 36.44	- 5 49.1	1.304	2.292	6.1	18.6	9 18	0 37.73	+ 0 59.3	1.532	2.519	5.6	19.3
9 28	0 29.25	- 7 49.4	1.315	2.308	4.4	18.5	9 28	0 29.58	- 0 9.8	1.505	2.506	1.4	19.0
10 8	0 22.05	- 9 33.3	1.352	2.325	7.4	18.7	10 8	0 21.09	- 1 17.6	1.505	2.493	4.4	19.2
10 18	0 15.92	-10 52.0	1.414	2.342	11.5	19.0	10 18	0 13.32	- 2 16.5	1.531	2.479	9.0	19.4
10 28	0 11.73	-11 41.3	1.498	2.359	15.2	19.3	10 28	0 7.27	- 3 0.1	1.582	2.466	13.2	19.6
11 7	0 9.97	-12 1.4	1.601	2.377	18.2	19.5	11 7	0 3.60	- 3 24.7	1.653	2.453	16.7	19.8
136055	2002 <i>XR</i> ₃₆		9 30.5 333°31'	5°6/26.9	18		515312	2012 <i>WP</i> ₅		9 30.5 355°00'	0°2/30.7	18	
8 29	0 55.09	-10 46.6	1.523	2.416	14.1	18.5	8 29	0 49.30	+ 5 50.4	1.514	2.394	15.0	21.4
9 8	0 48.85	-11 1.1	1.457	2.404	10.5	18.3	9 8	0 44.63	+ 5 23.9	1.449	2.392	11.0	21.2
9 18	0 40.20	-11 11.3	1.414	2.392	7.1	18.1	9 18	0 37.79	+ 4 42.9	1.406	2.390	6.4	20.9
9 28	0 30.04	-11 10.4	1.395	2.381	5.6	18.0	9 28	0 29.59	+ 3 52.2	1.388	2.389	1.4	20.6
10 8	0 19.60	-10 52.9	1.404	2.371	7.8	18.1	10 8	0 21.14	+ 2 58.8	1.396	2.389	3.7	20.8
10 18	0 10.16	-10 16.1	1.437	2.361	11.6	18.3	10 18	0 13.59	+ 2 10.1	1.431	2.388	8.5	21.1
10 28	0 2.81	- 9 19.9	1.494	2.353	15.3	18.5	10 28	0 7.92	+ 1 32.6	1.489	2.389	12.8	21.3
11 7	23 58.22	- 8 6.4	1.570	2.345	18.5	18.7	11 7	0 4.76	+ 1 10.9	1.568	2.389	16.5	21.6
401721	2013 <i>HH</i> ₁₃₃		9 30.5 65°42'	2°3/ 3.2	18		428573	2008 <i>DE</i> ₂₀		9 30.5 243°96'	0°5/30.9	17	
8 29	0 46.80	+13 7.7	2.123	2.964	12.8	21.1	8 29	0 54.24	+ 5 50.1	1.652	2.519	14.6	21.8
9 8	0 42.31	+12 35.7	2.050	2.966	9.8	21.0	9 8	0 48.23	+ 5 34.6	1.571	2.507	10.8	21.6
9 18	0 36.25	+11 47.1	2.001	2.969	6.4	20.8	9 18	0 39.91	+ 5 5.8	1.513	2.494	6.3	21.3
9 28	0 29.24	+10 44.8	1.978	2.971	3.1	20.6	9 28	0 30.04	+ 4 27.1	1.480	2.481	1.5	20.9
10 8	0 22.07	+ 9 34.0	1.983	2.974	3.0	20.6	10 8	0 19.74	+ 3 44.3	1.475	2.467	3.6	21.0
10 18	0 15.54	+ 8 20.9	2.016	2.976	6.2	20.8	10 18	0 10.20	+ 3 3.9	1.498	2.453	8.5	21.3
10 28	0 10.38	+ 7 12.3	2.077	2.979	9.6	21.0	10 28	0 2.53	+ 2 32.3	1.546	2.438	12.9	21.5
11 7	0 7.07	+ 6 13.6	2.161	2.982	12.6	21.2	11 7	23 57.46	+ 2 14.2	1.615	2.423	16.7	21.8
101444	1998 <i>VS</i> ₄₃		9 30.5 270°94'	3°7/27.3	18		254931	2005 <i>SH</i> ₁₃₆		9 30.5 51°38'	0°9/29.6	18	
8 29	0 50.67	- 3 19.6	1.556	2.450	13.8	19.1	8 29	0 49.20	+ 2 30.0	1.860	2.739	12.7	20.4
9 8	0 45.55	- 4 21.4	1.494	2.446	9.9	18.9	9 8	0 44.12	+ 1 57.8	1.803	2.747	9.1	20.2
9 18	0 38.27	- 5 29.3	1.455	2.442	5.9	18.6	9 18	0 37.30	+ 1 16.9	1.770	2.756	5.1	20.0
9 28	0 29.66	- 6 35.4	1.443	2.437	3.7	18.5	9 28	0 29.48	+ 0 31.9	1.763	2.764	1.1	19.7
10 8	0 20.82	- 7 31.1	1.456	2.433	6.4	18.6	10 8	0 21.56	- 0 11.3	1.784	2.773	3.7	19.9
10 18	0 12.87	- 8 9.8	1.496	2.428	10.5	18.9	10 18	0 14.44	- 0 47.3	1.833	2.782	7.7	20.2
10 28	0 6.81	- 8 27.3	1.558	2.424	14.4	19.1	10 28	0 8.90	- 1 11.7	1.907	2.791	11.2	20.4
11 7	0 3.25	- 8 22.8	1.640	2.420	17.7	19.3	11 7	0 5.43	- 1 22.1	2.003	2.801	14.2	20.7
516966	2012 <i>DO</i> ₁₀₁		9 30.5 239°89'	0°6/29.9	18		64114	2001 <i>TE</i> ₁₂		9 30.5 260°18'	0°7/ 1.1	18	
8 29	0 50.26	+ 2 1.3	2.314	3.182	10.9	21.5	8 29	0 50.55	+ 7 22.9	1.707	2.573	14.2	20.1
9 8	0 44.67	+ 1 48.9	2.241	3.179	7.9	21.3	9 8	0 45.47	+ 6 51.1	1.626	2.561	10.5	19.9
9 18	0 37.55	+ 1 30.0	2.193	3.177	4.4	21.1	9 18	0 38.29	+ 6 3.8	1.568	2.549	6.2	19.6
9 28	0 29.50	+ 1 7.9	2.173	3.174	0.9	20.8	9 28	0 29.72	+ 5 4.9	1.536	2.537	1.6	19.3
10 8	0 21.28	+ 0 46.2	2.182	3.171	3.1	21.0	10 8	0 20.78	+ 4 0.9	1.532	2.524	3.4	19.4
10 18	0 13.65	+ 0 28.9	2.220	3.168	6.6	21.2	10 18	0 12.56	+ 2 59.3	1.554	2.511	8.1	19.6
10 28	0 7.33	+ 0 19.2	2.285	3.165	9.8	21.4	10 28	0 6.07	+ 2 7.3	1.602	2.498	12.4	19.8
11 7	0 2.81	+ 0 19.5	2.374	3.162	12.6	21.6	11 7	0 1.96	+ 1 30.2	1.672	2.484	16.0	20.1
358930	2008 <i>HW</i> ₃₆		9 30.5 100°43'	5°9/23.8	18		519382	2011 <i>QL</i> ₁₀₀		9 30.5 325°82'	3°4/28.3	18	
8 29	0 50.26	-15 5.1	2.298	3.182	10.4	20.7	8 29	0 53.57	- 4 56.7	1.506	2.400	14.2	20.2
9 8	0 44.53	-16 3.9	2.261	3.196	8.0	20.6	9 8	0 47.86	- 5 5.5	1.434	2.384	10.4	19.9
9 18	0 37.37	-16 56.7	2.248	3.210	6.2	20.5	9 18	0 39.74	- 5 16.3	1.383	2.369	6.2	19.7
9 28	0 29.44	-17 37.5	2.264	3.224	6.0	20.5	9 28	0 30.02	- 5 23.2	1.358	2.355	3.4	19.5
10 8	0 21.54	-18 1.8	2.306	3.238	7.6	20.6	10 8	0 19.92	- 5 20.8	1.359	2.341	6.0	19.6
10 18	0 14.39	-18 7.3	2.375	3.251	9.8	20.8	10 18	0 10.70	- 5 4.9	1.386	2.328	10.4	19.8
10 28	0 8.65	-17 53.5	2.467	3.264	12.0	21.0	10 28	0 3.49	- 4 33.2	1.437	2.315	14.6	20.0
11 7	0 4.71	-17 22.1	2.580	3.277	13.9	21.1	11 7	23 59.02	- 3 45.5	1.507	2.304	18.2	20.2
81708	2000 <i>JZ</i> ₂₂		9 30.5 127°98'	4°5/ 5.4	18		23311	2001 <i>AM</i> ₂₉		9 30.5 83°03'	9°4/22.1	18	
8 29	0 50.39	+18 33.9	2.111	2.919	14.0	19.7	8 29	0 53.76	-20 41.5	1.680	2.565	13.5	17.5
9 8	0 44.96	+18 35.9	2.038	2.926	11.2	19.6	9 8	0 47.53	-21 57.1	1.647	2.573	11.0	17.3
9 18	0 37.80	+18 18.7	1.988	2.933	8.1	19.4	9 18	0 39.26	-22 59.6	1.636	2.581	9.5	17.3
9 28	0 29.57	+17 43.0	1.963	2.939	5.4	19.2	9 28	0 29.87	-23 40.1	1.651	2.590	9.7	17.3
10 8	0 21.16	+16 52.4	1.965	2.945	4.6	19.2	10 8	0 20.53	-23 52.8	1.689	2.598	11.4	17.4
10 18	0 13.45	+15 52.2	1.996	2.951	6.7	19.4	10 18	0 12.31	-23 36.2	1.751	2.606	13.8	17.6
10 28	0 7.25	+14 49.3	2.053	2.957	9.6	19.5	10 28	0 6.09	-22 52.0	1.834	2.614	16.1	17.8
11 7	0 3.09	+13 50.3	2.135	2.963	12.4	19.7	11 7	0 2.33	-21 44.6	1.934	2.623	18.2	18.0
479827	2014 <i>FG</i> ₆₄		9 30.5 251°44'	2°1/ 2.5	18		152807	1999 <i>TT</i> ₁₉₀		9 30.5 338°39'	4°9/ 5.4	18	
8 29	0 50.97	+10 47.9	1.913	2.762	13.7	21.5	8 29	0 49.11	+18 19.2	2.007	2.822	14.4	19.8
9 8	0 45.61	+10 37.0	1.829	2.750	10.4	21.3	9 8	0 44.23	+18 36.4	1.927	2.818	11.6	19.6
9 18	0 38.29	+10 10.4	1.767	2.739	6.6	21.0	9 18	0 37.49	+18 34.6	1.868	2.814	8.5	19.4
9 28	0 29.69	+ 9 30.4	1.731	2.727	2.9	20.8	9 28	0 29.56	+18 13.7	1.835	2.810	5.8	19.2
10 8	0 20.74	+ 8 41.3	1.724	2.715	3.3	20.8	10 8	0 21.33	+17 36.5	1.828	2.807	5.0	19.2
10 18	0 12.43	+ 7 49.2	1.744	2.703	7.1	21.0	10 18	0 13.74	+16 47.8	1.848	2.804	7.1	19.3
10 28	0 5.70	+ 7 0.6	1.791	2.691	11.0	21.2	10 28	0 7.67	+15 54.3	1.894	2.801	10.1	19.5
11 7	0 1.17	+ 6 21.3	1.860	2.678	14.4	21.4	11 7	0 3.71	+15 3.1	1.964	2.798	13.1	19.7
474335	2002 <i>GK</i> ₆₅		9 30.5 74°34'	1°5/ 2.1	16		440779	2006 <i>JV</i> ₂₄		9 30.5 65°39'	5°4/ 6.5	16	
8 29	0 49.45												

EPHEMERIDES

9 30.5

9 30.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
385824	2006 <i>GW</i> ₆		9 30.5 161°76	2°0/28.3	18		374873	2006 <i>VX</i> ₁₂₂		9 30.5 326°68	4°0/27.9	18	
8 29	0 50.17	- 0 13.8	2.109	2.987	11.4	21.8	8 29	0 52.96	- 4 18.6	1.259	2.161	15.8	21.0
9 8	0 44.67	- 1 11.7	2.048	2.992	8.1	21.6	9 8	0 47.71	- 4 50.5	1.196	2.151	11.5	20.8
9 18	0 37.58	- 2 16.4	2.011	2.997	4.6	21.4	9 18	0 39.75	- 5 27.0	1.155	2.142	6.8	20.5
9 28	0 29.56	- 3 22.0	2.003	3.001	2.0	21.2	9 28	0 30.06	- 6 0.1	1.138	2.134	4.0	20.3
10 8	0 21.42	- 4 22.5	2.023	3.005	4.4	21.4	10 8	0 20.02	- 6 21.7	1.145	2.126	7.0	20.4
10 18	0 13.98	- 5 12.4	2.072	3.008	7.9	21.6	10 18	0 11.06	- 6 25.8	1.176	2.119	11.8	20.7
10 28	0 7.97	- 5 47.5	2.147	3.011	11.1	21.8	10 28	0 4.44	- 6 9.0	1.230	2.112	16.3	21.0
11 7	0 3.88	- 6 6.1	2.245	3.013	13.8	22.0	11 7	0 0.86	- 5 31.4	1.301	2.106	20.1	21.2
483286	2015 <i>TU</i> ₃₁₁		9 30.5 41°81	9°0/19.0	18		311537	2005 <i>YQ</i> ₁₂₁		9 30.5 252°18	3°0/3.7	18	
8 29	0 48.03	-23 27.6	2.101	2.980	11.4	20.0	8 29	0 49.37	+13 47.9	2.308	3.136	12.3	20.3
9 8	0 43.21	-25 2.5	2.070	2.985	9.8	19.9	9 8	0 44.16	+13 51.3	2.227	3.133	9.6	20.1
9 18	0 36.75	-26 24.6	2.063	2.989	9.0	19.9	9 18	0 37.36	+13 40.4	2.169	3.129	6.5	20.0
9 28	0 29.39	-27 26.3	2.081	2.994	9.5	19.9	9 28	0 29.55	+13 16.2	2.138	3.126	3.7	19.8
10 8	0 21.97	-28 2.3	2.124	2.999	11.0	20.0	10 8	0 21.51	+12 42.0	2.135	3.123	3.4	19.8
10 18	0 15.35	-28 10.5	2.189	3.004	12.8	20.1	10 18	0 14.04	+12 1.8	2.161	3.119	6.0	19.9
10 28	0 10.23	-27 51.8	2.275	3.010	14.7	20.3	10 28	0 7.87	+11 21.2	2.214	3.115	9.1	20.1
11 7	0 7.08	-27 9.4	2.377	3.015	16.3	20.5	11 7	0 3.53	+10 45.0	2.292	3.112	12.0	20.3
185820	1999 <i>XW</i> ₂₅₅		9 30.5 161°17	0°3/30.8	17		264380	2000 <i>DQ</i> ₄₈		9 30.5 162°06	1°1/1.5	17	
8 29	0 52.72	+ 6 21.5	1.797	2.661	13.7	21.2	8 29	0 53.15	+ 8 14.7	1.916	2.770	13.5	22.0
9 8	0 46.79	+ 5 48.5	1.732	2.666	10.1	21.0	9 8	0 47.02	+ 7 50.6	1.848	2.775	10.0	21.8
9 18	0 39.90	+ 5 2.4	1.689	2.671	5.8	20.7	9 18	0 39.02	+ 7 12.8	1.803	2.781	6.0	21.6
9 28	0 29.84	+ 4 7.5	1.674	2.675	1.3	20.4	9 28	0 29.89	+ 6 24.8	1.786	2.785	1.9	21.3
10 8	0 20.62	+ 3 10.2	1.687	2.678	3.3	20.6	10 8	0 20.58	+ 5 32.0	1.797	2.789	3.0	21.4
10 18	0 12.23	+ 2 16.9	1.728	2.681	7.7	20.9	10 18	0 12.08	+ 4 40.4	1.837	2.792	7.1	21.7
10 28	0 5.57	+ 1 33.7	1.794	2.684	11.6	21.1	10 28	0 5.23	+ 3 56.1	1.903	2.795	10.9	21.9
11 7	0 1.21	+ 1 4.6	1.883	2.686	14.9	21.3	11 7	0 0.59	+ 3 23.5	1.993	2.797	14.1	22.1
321651	2010 <i>BY</i> ₉		9 30.5 314°79	0°8/1.9	18		519831	2013 <i>JH</i> ₆₇		9 30.5 113°99	1°2/2.1	18	
8 29	0 42.52	+ 8 8.2	4.000	4.842	7.3	20.5	8 29	0 45.58	+11 7.5	2.367	3.212	11.5	21.4
9 8	0 38.67	+ 7 56.4	3.915	4.836	5.4	20.3	9 8	0 41.30	+10 12.5	2.294	3.216	8.6	21.2
9 18	0 34.00	+ 7 38.2	3.856	4.830	3.3	20.2	9 18	0 35.65	+ 9 3.0	2.246	3.220	5.3	21.0
9 28	0 28.84	+ 7 15.2	3.826	4.824	1.2	20.0	9 28	0 29.20	+ 7 42.9	2.226	3.224	2.0	20.8
10 8	0 23.58	+ 6 49.4	3.827	4.819	1.6	20.0	10 8	0 22.62	+ 6 17.7	2.236	3.228	2.5	20.9
10 18	0 18.60	+ 6 23.2	3.857	4.813	3.7	20.2	10 18	0 16.62	+ 4 53.7	2.274	3.232	5.8	21.1
10 28	0 14.28	+ 5 59.0	3.916	4.807	5.8	20.3	10 28	0 11.82	+ 3 37.1	2.341	3.236	9.0	21.3
11 7	0 10.93	+ 5 39.1	4.001	4.801	7.7	20.5	11 7	0 8.65	+ 2 32.4	2.432	3.239	11.8	21.5
406966	2009 <i>QO</i> ₃		9 30.5 25°58	5°6/6.0	17		220163	2002 <i>TF</i> ₂₅₈		9 30.5 334°46	0°0/30.3	18	
8 29	0 49.47	+19 33.2	1.884	2.697	15.3	20.7	8 29	0 45.15	+ 5 48.1	1.068	1.972	17.9	19.9
9 8	0 44.52	+19 55.8	1.816	2.703	12.4	20.5	9 8	0 42.48	+ 5 17.0	0.997	1.952	13.2	19.6
9 18	0 37.66	+19 57.5	1.768	2.709	9.3	20.3	9 18	0 36.99	+ 4 25.1	0.945	1.934	7.7	19.3
9 28	0 29.61	+19 38.2	1.744	2.716	6.5	20.2	9 28	0 29.54	+ 3 18.1	0.915	1.917	1.6	18.8
10 8	0 21.32	+19 0.7	1.747	2.723	5.6	20.1	10 8	0 21.52	+ 2 6.1	0.908	1.901	4.8	19.0
10 18	0 13.80	+18 10.4	1.776	2.730	7.4	20.3	10 18	0 14.45	+ 1 0.6	0.923	1.887	10.9	19.3
10 28	0 7.93	+17 14.6	1.831	2.738	10.4	20.5	10 28	0 9.75	+ 0 12.3	0.958	1.874	16.5	19.6
11 7	0 4.28	+16 20.7	1.909	2.747	13.3	20.7	11 7	0 8.28	- 0 12.5	1.011	1.863	21.2	19.8
211758	2004 <i>BF</i> ₁₂		9 30.5 18°70	5°6/25.0	18		149503	2003 <i>FP</i> ₃₉		9 30.5 51°83	0°5/30.9	18	
8 29	0 47.88	- 8 19.9	1.583	2.486	13.1	19.4	8 29	0 48.66	+ 6 29.9	1.946	2.812	12.7	20.6
9 8	0 43.44	- 9 42.5	1.536	2.489	9.6	19.2	9 8	0 43.74	+ 6 3.2	1.882	2.818	9.3	20.4
9 18	0 37.03	-11 5.4	1.512	2.492	6.5	19.1	9 18	0 37.12	+ 5 24.6	1.842	2.823	5.4	20.2
9 28	0 29.47	-12 19.3	1.513	2.496	5.8	19.0	9 28	0 29.51	+ 4 38.1	1.829	2.829	1.3	20.0
10 8	0 21.80	-13 15.8	1.541	2.500	8.2	19.2	10 8	0 21.75	+ 3 48.9	1.843	2.835	3.0	20.1
10 18	0 15.04	-13 49.3	1.593	2.505	11.5	19.4	10 18	0 14.73	+ 3 2.8	1.886	2.841	7.0	20.4
10 28	0 10.07	-13 57.7	1.667	2.510	14.8	19.6	10 28	0 9.21	+ 2 25.0	1.954	2.848	10.6	20.6
11 7	0 7.40	-13 41.8	1.760	2.515	17.6	19.9	11 7	0 5.69	+ 1 59.4	2.045	2.854	13.6	20.8
134564	1999 <i>RG</i> ₁₇₉		9 30.5 357°52	3°9/28.1	18		54131	2000 <i>HM</i> ₃₁		9 30.5 317°64	2°4/28.9	18	
8 29	0 48.70	- 2 55.7	0.966	1.885	17.9	18.8	8 29	0 53.19	- 1 15.3	1.396	2.289	15.2	19.3
9 8	0 45.02	- 3 29.3	0.917	1.880	12.9	18.5	9 8	0 47.68	- 1 37.6	1.330	2.281	11.0	19.0
9 18	0 38.33	- 4 10.2	0.886	1.876	7.5	18.2	9 18	0 39.67	- 2 6.9	1.286	2.273	6.3	18.7
9 28	0 29.77	- 4 49.0	0.876	1.874	3.9	18.0	9 28	0 30.06	- 2 37.4	1.266	2.266	2.4	18.5
10 8	0 20.91	- 5 15.8	0.889	1.874	7.4	18.2	10 8	0 20.11	- 3 1.9	1.273	2.259	5.5	18.6
10 18	0 13.39	- 5 23.0	0.922	1.875	12.8	18.5	10 18	0 11.15	- 3 14.5	1.305	2.252	10.3	18.9
10 28	0 8.54	- 5 6.7	0.976	1.877	17.8	18.8	10 28	0 4.33	- 3 11.0	1.360	2.246	14.8	19.1
11 7	0 7.01	- 4 27.1	1.046	1.881	21.9	19.1	11 7	0 0.35	- 2 49.9	1.434	2.240	18.5	19.4
169091	2001 <i>KA</i> ₁₄		9 30.5 64°30	1°8/2.5	18		355486	2007 <i>WK</i> ₃₄		9 30.5 267°93	0°5/30.0	18	
8 29	0 47.59	+13 5.6	1.679	2.532	15.1	18.8	8 29	0 50.80	+ 3 2.1	1.896	2.770	12.7	21.4
9 8	0 43.07	+11 56.3	1.627	2.551	11.3	18.6	9 8	0 45.41	+ 2 39.8	1.823	2.764	9.2	21.1
9 18	0 36.74	+10 26.2	1.597	2.570	7.0	18.4	9 18	0 38.16	+ 2 8.2	1.773	2.757	5.2	20.9
9 28	0 29.40	+ 8 41.1	1.593	2.590	2.8	18.2	9 28	0 29.74	+ 1 31.3	1.750	2.751	1.0	20.6
10 8	0 22.05	+ 6 50.1	1.617	2.609	3.1	18.2	10 8	0 21.06	+ 0 54.5	1.755	2.744	3.5	20.8
10 18	0 15.61	+ 5 2.8	1.668	2.629	7.2	18.5	10 18	0 13.09	+ 0 23.0	1.787	2.738	7.7	21.0
10 28	0 10.89	+ 3 28.1	1.747	2.649	11.1	18.8	10 28	0 6.68	+ 0 1.5	1.845	2.732	11.5	21.2
11 7	0 8.34	+ 2 11.7	1.848	2.668	14.4	19.1	11 7	0 2.43	- 0 6.9	1.926	2.725	14.7	21.4
195437	2002 <i>GZ</i> ₆₇		9 30.5 325°32	1°4/29.2	18		136121	2003 <i>OA</i>		9 30			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
60495	2000 <i>DF</i> ₈₈		9 30.5	86°41'	0°4/30.2	18 R	63059	2000 <i>WA</i> ₁₁₈		9 30.5	3°05'	12°6/23.8	18
8 29	0 54.00	+ 4 12.6	1.541	2.416	15.0	18.3	8 29	0 49.86	-20 42.8	0.916	1.835	18.6	16.8
9 8	0 47.76	+ 3 39.8	1.495	2.436	10.8	18.1	9 8	0 45.90	-21 30.0	0.883	1.832	15.3	16.6
9 18	0 39.43	+ 2 55.2	1.472	2.456	6.1	17.9	9 18	0 38.78	-21 56.4	0.868	1.831	13.0	16.5
9 28	0 29.97	+ 2 4.6	1.475	2.476	1.2	17.6	9 28	0 29.88	-21 49.6	0.872	1.833	12.8	16.5
10 8	0 20.53	+ 1 14.9	1.505	2.496	3.9	17.8	10 8	0 20.99	-21 3.2	0.895	1.838	14.9	16.6
10 18	0 12.21	+ 0 32.6	1.562	2.515	8.5	18.2	10 18	0 13.76	-19 37.9	0.938	1.845	18.0	16.8
10 28	0 5.92	+ 0 3.2	1.645	2.534	12.5	18.4	10 28	0 9.41	-17 39.9	0.997	1.854	21.3	17.1
11 7	0 2.14	- 0 10.6	1.748	2.553	15.7	18.7	11 7	0 8.44	-15 18.5	1.073	1.865	24.3	17.3
311938	2007 <i>CH</i> ₃₈		9 30.5	66°52'	2°3/27.9	18	349383	2007 <i>WN</i> ₃₉		9 30.5	264°87'	2°6/27.9	18
8 29	0 47.30	- 1 3.4	2.058	2.942	11.4	20.6	8 29	0 49.16	- 1 45.9	1.876	2.763	12.2	20.8
9 8	0 42.67	- 2 2.2	1.998	2.946	8.1	20.4	9 8	0 44.23	- 2 40.3	1.807	2.756	8.7	20.6
9 18	0 36.48	- 3 7.0	1.964	2.950	4.6	20.2	9 18	0 37.50	- 3 41.2	1.763	2.749	5.0	20.3
9 28	0 29.39	- 4 12.1	1.957	2.954	2.3	20.1	9 28	0 29.63	- 4 42.4	1.745	2.742	2.6	20.2
10 8	0 22.18	- 5 11.1	1.979	2.959	4.6	20.2	10 8	0 21.55	- 5 37.1	1.756	2.736	5.1	20.3
10 18	0 15.65	- 5 58.6	2.028	2.963	8.0	20.5	10 18	0 14.17	- 6 19.3	1.793	2.729	8.9	20.5
10 28	0 10.50	- 6 30.7	2.102	2.967	11.2	20.7	10 28	0 8.33	- 6 44.9	1.855	2.722	12.4	20.8
11 7	0 7.22	- 6 45.8	2.198	2.971	13.9	20.9	11 7	0 4.60	- 6 52.0	1.939	2.715	15.4	21.0
350081	2011 <i>JR</i> ₂₉		9 30.5	253°65'	10°3/10.7	12 C	159587	2001 <i>XG</i> ₇₃		9 30.5	251°29'	0°0/30.4	18
8 29	0 49.93	+31 24.0	1.263	2.040	23.2	20.8	8 29	0 50.68	+ 5 35.3	1.807	2.677	13.4	20.6
9 8	0 45.97	+31 7.2	1.181	2.032	20.1	20.5	9 8	0 45.50	+ 4 56.6	1.726	2.664	9.8	20.4
9 18	0 39.00	+30 3.7	1.113	2.022	16.4	20.2	9 18	0 38.31	+ 4 4.3	1.667	2.651	5.7	20.1
9 28	0 29.97	+28 8.7	1.065	2.013	12.7	20.0	9 28	0 29.82	+ 3 2.9	1.636	2.637	1.1	19.7
10 8	0 20.39	+25 25.6	1.039	2.003	10.4	19.9	10 8	0 20.97	+ 1 58.9	1.632	2.623	3.5	19.9
10 18	0 11.93	+22 7.6	1.037	1.993	11.2	19.9	10 18	0 12.79	+ 0 59.4	1.656	2.609	8.0	20.1
10 28	0 6.05	+18 36.0	1.061	1.983	14.6	20.0	10 28	0 6.24	+ 0 11.0	1.705	2.594	12.1	20.4
11 7	0 3.58	+15 13.3	1.107	1.973	18.8	20.3	11 7	0 1.96	- 0 21.9	1.777	2.579	15.6	20.6
30838	1991 <i>CM</i> ₁		9 30.5	282°04'	2°1/ 2.2	18	469789	2005 <i>RH</i> ₁		9 30.5	3°31'	2°3/ 1.8	18
8 29	0 50.92	+10 5.4	1.620	2.480	15.2	18.7	8 29	0 49.27	+ 6 31.1	0.932	1.836	19.8	19.6
9 8	0 45.94	+ 9 53.1	1.536	2.465	11.5	18.4	9 8	0 45.59	+ 7 8.7	0.881	1.834	14.9	19.3
9 18	0 38.69	+ 9 23.1	1.474	2.449	7.3	18.1	9 18	0 38.77	+ 7 29.0	0.848	1.833	9.1	19.0
9 28	0 29.89	+ 8 37.8	1.436	2.434	3.0	17.8	9 28	0 29.93	+ 7 33.8	0.835	1.835	3.4	18.7
10 8	0 20.63	+ 7 42.8	1.426	2.418	3.6	17.8	10 8	0 20.73	+ 7 28.5	0.844	1.838	4.7	18.8
10 18	0 12.09	+ 6 45.1	1.442	2.403	8.1	18.1	10 18	0 12.90	+ 7 20.1	0.875	1.844	10.5	19.1
10 28	0 5.36	+ 5 52.9	1.483	2.387	12.6	18.3	10 28	0 7.86	+ 7 16.4	0.926	1.851	15.8	19.4
11 7	0 1.18	+ 5 12.7	1.545	2.372	16.4	18.5	11 7	0 6.33	+ 7 23.6	0.994	1.861	20.3	19.7
188337	2003 <i>QZ</i> ₆₆		9 30.5	48°04'	3°8/ 5.1	18	367236	2007 <i>HM</i> ₈₄		9 30.5	135°92'	3°7/26.5	18
8 29	0 47.31	+17 37.5	2.289	3.103	12.9	20.0	8 29	0 50.14	- 8 16.6	2.397	3.279	10.0	20.6
9 8	0 42.69	+17 27.2	2.211	3.104	10.2	19.8	9 8	0 44.51	- 8 52.8	2.340	3.283	7.3	20.5
9 18	0 36.52	+16 59.1	2.155	3.105	7.3	19.7	9 18	0 37.47	- 9 28.4	2.308	3.287	4.7	20.3
9 28	0 29.41	+16 14.6	2.126	3.106	4.6	19.5	9 28	0 29.61	- 9 58.5	2.305	3.291	3.7	20.2
10 8	0 22.12	+15 17.4	2.124	3.107	4.0	19.5	10 8	0 21.68	-10 18.8	2.330	3.294	5.4	20.4
10 18	0 15.40	+14 12.5	2.150	3.108	6.1	19.6	10 18	0 14.39	-10 26.4	2.383	3.297	8.1	20.5
10 28	0 10.00	+13 6.5	2.203	3.109	9.0	19.8	10 28	0 8.40	-10 19.6	2.462	3.300	10.7	20.7
11 7	0 6.39	+12 5.3	2.282	3.110	11.7	20.0	11 7	0 4.13	- 9 58.4	2.563	3.304	13.0	20.9
366111	2012 <i>DJ</i> ₂₆		9 30.5	184°88'	1°4/28.6	18	231945	2001 <i>HY</i> ₅₇		9 30.5	116°82'	4°8/25.4	18
8 29	0 45.94	+ 1 48.9	2.616	3.488	9.7	21.0	8 29	0 50.23	- 8 24.5	1.981	2.871	11.5	20.5
9 8	0 41.45	+ 0 39.0	2.546	3.488	6.9	20.9	9 8	0 44.76	- 9 39.1	1.936	2.883	8.4	20.3
9 18	0 35.72	- 0 38.5	2.502	3.488	3.8	20.7	9 18	0 37.66	-10 53.2	1.916	2.894	5.6	20.2
9 28	0 29.24	- 1 58.6	2.487	3.487	1.4	20.5	9 28	0 29.65	-11 59.5	1.924	2.906	4.9	20.2
10 8	0 22.64	- 3 15.8	2.503	3.486	3.5	20.6	10 8	0 21.60	-12 51.4	1.960	2.917	6.9	20.3
10 18	0 16.54	- 4 25.0	2.548	3.485	6.5	20.8	10 18	0 14.37	-13 24.7	2.022	2.928	9.8	20.5
10 28	0 11.51	- 5 21.8	2.620	3.483	9.3	21.0	10 28	0 8.68	-13 37.4	2.109	2.939	12.6	20.7
11 7	0 7.97	- 6 3.6	2.716	3.481	11.8	21.2	11 7	0 4.99	-13 30.0	2.215	2.949	15.0	20.9
219106	1998 <i>SN</i> ₄₆		9 30.5	55°81'	0°4/30.9	18	427674	2004 <i>CU</i> ₂₀		9 30.5	154°76'	0°1/30.4	17
8 29	0 47.46	+ 6 35.0	2.107	2.971	12.0	20.5	8 29	0 53.56	+ 4 58.5	1.809	2.675	13.6	22.1
9 8	0 42.76	+ 6 2.6	2.045	2.979	8.7	20.3	9 8	0 47.39	+ 4 25.9	1.745	2.682	9.9	21.9
9 18	0 36.53	+ 5 19.1	2.006	2.987	5.1	20.1	9 18	0 39.27	+ 3 41.7	1.706	2.688	5.6	21.7
9 28	0 29.41	+ 4 28.2	1.995	2.996	1.2	19.9	9 28	0 30.00	+ 2 50.4	1.693	2.694	1.1	21.4
10 8	0 22.18	+ 3 35.2	2.012	3.004	2.8	20.0	10 8	0 20.58	+ 1 58.2	1.709	2.700	3.5	21.6
10 18	0 15.63	+ 2 45.5	2.058	3.013	6.5	20.3	10 18	0 12.03	+ 1 11.3	1.753	2.704	7.8	21.8
10 28	0 10.44	+ 2 4.1	2.130	3.021	9.9	20.5	10 28	0 5.22	+ 0 35.1	1.823	2.708	11.6	22.1
11 7	0 7.09	+ 1 34.5	2.225	3.030	12.8	20.7	11 7	0 0.70	+ 0 13.1	1.915	2.712	14.8	22.3
457862	2009 <i>SO</i> ₁₉₄		9 30.5	255°63'	0°9/ 1.7	17	316978	2001 <i>FY</i> ₁₈₀		9 30.5	176°12'	0°5/29.9	18
8 29	0 46.71	+ 9 7.7	2.676	3.522	10.3	22.0	8 29	0 50.99	+ 1 41.6	2.810	3.670	9.5	21.1
9 8	0 42.11	+ 8 30.3	2.581	3.504	7.7	21.8	9 8	0 44.99	+ 1 31.1	2.737	3.672	6.8	20.9
9 18	0 36.16	+ 7 41.0	2.510	3.486	4.7	21.6	9 18	0 37.71	+ 1 15.5	2.691	3.673	3.8	20.7
9 28	0 29.36	+ 6 42.7	2.468	3.467	1.6	21.4	9 28	0 29.68	+ 0 57.4	2.673	3.674	0.8	20.5
10 8	0 22.31	+ 5 39.4	2.456	3.448	2.3	21.4	10 8	0 21.52	+ 0 40.0	2.686	3.675	2.7	20.7
10 18	0 15.67	+ 4 36.2	2.473	3.429	5.6	21.6	10 18	0 13.88	+ 0 26.2	2.730	3.675	5.7	20.9
10 28	0 10.07	+ 3 37.9	2.519	3.409	8.7	21.8	10 28	0 7.34	+ 0 18.6	2.801	3.675	8.5	21.0
11 7	0 5.99	+ 2 48.9	2.589	3.389	11.3	21.9	11 7	0 2.33	+ 0 19.2	2.898	3.675	10.8	21.2
22417	1995 <i>WK</i> ₁		9 30.5	283°57'	1°9/28.9	18	261961	2006 <i>PS</i> ₁₉		9 30.5	42°42'	0°4/30.2	17
8 29	0 51.13	- 0 6.6</											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
223473	2003 <i>UT</i> ₂₇₇		9 30.5 58°68	0°3/30.1	18		33419	Wellman		9 30.5 175°34	4°2/ 4.8	18	
8 29	0 45.22	+ 6 18.9	2.192	3.059	11.5	19.4	8 29	0 50.21	+17 40.0	1.775	2.600	15.6	18.9
9 8	0 41.12	+ 5 8.2	2.128	3.066	8.3	19.2	9 8	0 45.18	+17 19.4	1.700	2.601	12.3	18.7
9 18	0 35.60	+ 3 45.5	2.089	3.073	4.7	19.0	9 18	0 38.13	+16 35.7	1.647	2.602	8.7	18.5
9 28	0 29.26	+ 2 16.2	2.078	3.079	0.9	18.8	9 28	0 29.82	+15 30.5	1.618	2.602	5.3	18.3
10 8	0 22.81	+ 0 47.0	2.096	3.086	3.1	19.0	10 8	0 21.26	+14 9.2	1.616	2.603	4.5	18.2
10 18	0 16.98	+ 0 35.6	2.144	3.093	6.7	19.2	10 18	0 13.50	+12 39.8	1.642	2.603	7.3	18.4
10 28	0 12.41	+ 1 45.7	2.218	3.101	10.0	19.4	10 28	0 7.47	+11 11.5	1.694	2.602	11.0	18.6
11 7	0 9.55	+ 2 39.8	2.315	3.108	12.7	19.6	11 7	0 3.77	+ 9 52.5	1.769	2.602	14.4	18.8
340893	2007 <i>CQ</i> ₅₇		9 30.5 309°12	0°4/30.0	16		295621	2008 <i>SO</i> ₂₂₃		9 30.5 336°75	1°2/ 2.8	16	
8 29	0 46.92	+ 2 28.5	2.726	3.592	9.5	20.8	8 29	0 41.81	+10 30.3	4.235	5.067	7.1	21.1
9 8	0 42.23	+ 2 15.4	2.636	3.574	6.9	20.6	9 8	0 38.16	+10 15.9	4.153	5.066	5.3	21.0
9 18	0 36.24	+ 1 56.2	2.572	3.556	3.9	20.4	9 18	0 33.76	+ 9 54.5	4.097	5.065	3.4	20.8
9 28	0 29.41	+ 1 33.7	2.537	3.538	0.8	20.1	9 28	0 28.90	+ 9 27.5	4.069	5.063	1.6	20.7
10 8	0 22.35	+ 1 11.1	2.530	3.520	2.6	20.2	10 8	0 23.97	+ 8 56.9	4.071	5.062	1.6	20.7
10 18	0 15.70	+ 0 51.6	2.553	3.502	5.8	20.4	10 18	0 19.30	+ 8 25.0	4.104	5.061	3.5	20.8
10 28	0 10.07	+ 0 38.6	2.603	3.485	8.7	20.6	10 28	0 15.26	+ 7 54.4	4.165	5.060	5.4	21.0
11 7	0 5.91	+ 0 34.3	2.677	3.467	11.3	20.7	11 7	0 12.12	+ 7 27.3	4.253	5.059	7.1	21.1
445819	2012 <i>BF</i> ₁₃₀		9 30.5 54°12	4°9/24.6	18		118029	2295 <i>T</i> ₋₂		9 30.5 342°73	0°7/30.9	18	
8 29	0 46.68	+ 8 56.7	2.079	2.974	10.8	20.8	8 29	0 47.15	+ 5 17.1	0.940	1.849	19.2	19.4
9 8	0 42.23	+10 19.9	2.030	2.978	7.9	20.7	9 8	0 44.22	+ 5 17.4	0.877	1.834	14.3	19.0
9 18	0 36.26	+11 42.6	2.006	2.983	5.5	20.5	9 18	0 38.14	+ 4 59.3	0.833	1.821	8.5	18.7
9 28	0 29.40	+12 57.7	2.010	2.988	5.0	20.5	9 28	0 29.89	+ 4 27.1	0.808	1.809	2.1	18.3
10 8	0 22.46	+13 58.5	2.041	2.993	7.0	20.6	10 8	0 21.04	+ 3 49.2	0.805	1.799	4.8	18.4
10 18	0 16.19	+14 40.4	2.098	2.999	9.8	20.8	10 18	0 13.35	+ 3 15.3	0.823	1.791	11.2	18.7
10 28	0 11.31	+15 1.2	2.179	3.004	12.4	21.0	10 28	0 8.35	+ 2 54.6	0.861	1.784	17.0	19.0
11 7	0 8.25	+15 1.0	2.281	3.009	14.7	21.2	11 7	0 6.91	+ 2 53.2	0.915	1.780	21.9	19.3
369700	2012 <i>CC</i> ₅₁		9 30.5 182°05	0°5/30.1	17		67651	2000 <i>SG</i> ₂₃₁		9 30.5 350°48	1°9/29.4	18	
8 29	0 52.03	+ 5 5.8	1.465	2.344	15.4	21.8	8 29	0 48.94	+ 0 24.3	0.934	1.850	18.6	17.9
9 8	0 46.71	+ 4 15.2	1.402	2.345	11.2	21.6	9 8	0 45.42	+ 0 12.1	0.879	1.840	13.6	17.6
9 18	0 39.07	+ 3 9.3	1.360	2.345	6.4	21.3	9 18	0 38.75	+ 0 11.7	0.842	1.833	7.7	17.3
9 28	0 30.01	+ 1 54.3	1.344	2.345	1.2	21.0	9 28	0 29.99	+ 0 40.0	0.825	1.826	2.1	16.9
10 8	0 20.70	+ 0 39.0	1.354	2.345	4.2	21.2	10 8	0 20.81	+ 1 3.8	0.831	1.822	6.0	17.2
10 18	0 12.36	+ 0 27.7	1.391	2.344	9.2	21.5	10 18	0 12.92	+ 1 14.9	0.858	1.819	12.1	17.5
10 28	0 6.05	+ 1 18.5	1.452	2.343	13.7	21.7	10 28	0 7.78	+ 1 7.2	0.904	1.818	17.5	17.8
11 7	0 2.39	+ 1 49.3	1.534	2.342	17.4	22.0	11 7	0 6.16	+ 0 38.7	0.967	1.818	22.1	18.1
451395	2011 <i>DF</i> ₃₁		9 30.5 293°06	3°0/26.8	17		107712	2001 <i>FF</i> ₂₀		9 30.5 36°68	4°0/ 3.6	17	
8 29	0 46.22	+ 3 7.7	2.206	3.093	10.6	21.4	8 29	0 50.35	+13 51.6	1.162	2.030	19.3	18.5
9 8	0 42.02	+ 4 18.4	2.121	3.070	7.6	21.2	9 8	0 45.83	+13 45.5	1.114	2.042	14.9	18.3
9 18	0 36.24	+ 5 35.4	2.061	3.046	4.5	21.0	9 18	0 38.67	+13 13.1	1.084	2.055	9.9	18.1
9 28	0 29.43	+ 6 52.6	2.029	3.022	3.1	20.8	9 28	0 29.93	+12 17.7	1.076	2.069	5.1	17.9
10 8	0 22.32	+ 8 3.4	2.026	2.999	5.3	21.0	10 8	0 21.07	+11 7.1	1.092	2.083	4.7	17.9
10 18	0 15.69	+ 9 1.6	2.050	2.975	8.6	21.1	10 18	0 13.49	+ 9 52.0	1.132	2.098	9.0	18.2
10 28	0 10.29	+ 9 42.8	2.100	2.951	11.8	21.3	10 28	0 8.33	+ 8 43.3	1.195	2.114	13.6	18.5
11 7	0 6.68	+10 4.9	2.171	2.927	14.6	21.4	11 7	0 6.18	+ 7 49.4	1.278	2.130	17.6	18.8
137568	1999 <i>VW</i> ₁₀₆		9 30.5 32°37	3°9/ 3.9	18		474454	2003 <i>SU</i> ₄₁		9 30.5 31°27	8°1/ 3.1	18	
8 29	0 48.23	+15 15.1	1.185	2.049	19.3	19.5	8 29	1 15.69	+13 15.7	1.279	2.103	20.5	19.7
9 8	0 44.30	+14 47.8	1.131	2.058	14.9	19.3	9 8	1 4.52	+16 1.1	1.222	2.119	16.4	19.4
9 18	0 37.80	+13 51.5	1.096	2.067	10.0	19.0	9 18	0 49.61	+18 30.8	1.189	2.137	12.0	19.2
9 28	0 29.74	+12 30.1	1.084	2.077	5.2	18.8	9 28	0 32.22	+20 34.6	1.183	2.156	8.6	19.1
10 8	0 21.51	+10 53.0	1.095	2.087	4.6	18.8	10 8	0 14.36	+22 6.1	1.206	2.176	8.6	19.2
10 18	0 14.48	+ 9 12.3	1.131	2.098	8.9	19.1	10 18	23 58.18	+23 5.8	1.257	2.196	11.5	19.4
10 28	0 9.76	+ 7 40.6	1.190	2.110	13.6	19.4	10 28	23 45.37	+23 40.9	1.334	2.218	15.2	19.7
11 7	0 7.96	+ 6 26.9	1.270	2.122	17.7	19.7	11 7	23 36.78	+24 2.3	1.431	2.240	18.4	20.0
95956	2003 <i>RG</i> ₁₂		9 30.5 88°71	1°8/ 2.2	18		211493	2003 <i>NL</i> ₉		9 30.5 44°79	1°3/ 1.5	17	
8 29	0 56.43	+ 8 22.3	2.354	3.190	11.8	19.1	8 29	0 49.88	+ 9 58.6	1.016	1.905	19.8	19.8
9 8	0 49.02	+ 8 46.1	2.294	3.210	8.8	18.9	9 8	0 45.51	+ 9 5.4	0.980	1.926	14.6	19.6
9 18	0 40.04	+ 9 0.1	2.260	3.230	5.5	18.8	9 18	0 38.43	+ 7 47.6	0.963	1.947	8.7	19.4
9 28	0 30.17	+ 9 5.5	2.254	3.250	2.4	18.6	9 28	0 29.87	+ 6 13.4	0.969	1.969	2.6	19.1
10 8	0 20.25	+ 9 4.6	2.279	3.270	2.8	18.7	10 8	0 21.38	+ 4 35.8	0.997	1.991	4.2	19.3
10 18	0 11.09	+ 9 0.4	2.335	3.289	5.9	18.9	10 18	0 14.38	+ 3 7.2	1.050	2.014	9.9	19.7
10 28	0 3.41	+ 8 56.7	2.418	3.308	9.0	19.1	10 28	0 9.94	+ 1 57.8	1.125	2.038	14.8	20.0
11 7	23 57.68	+ 8 56.5	2.527	3.327	11.6	19.3	11 7	0 8.55	+ 1 12.8	1.218	2.062	18.9	20.4
8279	Cuzco		9 30.5 293°95	1°2/29.4	18		429679	2011 <i>HE</i> ₆		9 30.5 100°13	5°4/ 5.9	18	
8 29	0 49.51	+ 1 42.9	1.926	2.804	12.3	17.8	8 29	0 55.57	+19 57.1	1.921	2.720	15.5	20.6
9 8	0 44.45	+ 1 9.1	1.857	2.801	8.9	17.6	9 8	0 48.79	+20 13.5	1.864	2.744	12.5	20.5
9 18	0 37.62	+ 0 26.9	1.812	2.798	5.0	17.3	9 18	0 40.06	+20 8.5	1.829	2.767	9.2	20.3
9 28	0 29.70	+ 0 19.0	1.794	2.795	1.3	17.1	9 28	0 30.22	+19 42.3	1.819	2.790	6.3	20.2
10 8	0 21.59	+ 1 2.8	1.804	2.792	3.8	17.3	10 8	0 20.31	+18 58.3	1.836	2.812	5.5	20.2
10 18	0 14.17	+ 1 39.2	1.842	2.789	7.8	17.5	10 18	0 11.35	+18 2.4	1.882	2.833	7.3	20.4
10 28	0 8.28	+ 2 3.7	1.905	2.786	11.4	17.7	10 28	0 4.22	+17 2.3	1.954	2.854	10.2	20.6
11 7	0 4.44	+ 2 13.5	1.990	2.783	14.5	17.9	11 7	23 59.43	+16 5.2	2.049	2.875	13.0	20.8
473400	2015 <i>VN</i> ₇₁		9 30.5 39°57	10°0/19.4	18		42556	1996 <i>TA</i> ₈		9 30.5 337°97	0°1/30.7	18	
8 29	0 51.37	+27 6.8	2.044	2.910	12.2								

EPHEMERIDES

9 30.5

9 30.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
223468	2003 <i>UH</i> ₁₅₃		9 30.5 290°05	2°2/28.1	18		294960	2008 <i>DT</i> ₈₅		9 30.5 87°10	1°4/29.1	18	
8 29	0 48.27	- 2 19.3	2.275	3.156	10.6	20.4	8 29	0 48.96	+ 1 10.1	2.071	2.948	11.6	20.6
9 8	0 43.40	- 2 54.9	2.197	3.143	7.6	20.1	9 8	0 43.86	+ 0 26.7	2.015	2.959	8.3	20.5
9 18	0 37.00	- 3 35.1	2.144	3.130	4.4	19.9	9 18	0 37.21	- 0 23.9	1.984	2.969	4.6	20.3
9 28	0 29.62	- 4 15.2	2.119	3.116	2.2	19.8	9 28	0 29.68	- 1 16.6	1.980	2.980	1.4	20.0
10 8	0 22.02	- 4 50.4	2.122	3.103	4.3	19.9	10 8	0 22.07	- 2 5.8	2.005	2.991	3.8	20.2
10 18	0 14.96	- 5 16.3	2.154	3.089	7.6	20.1	10 18	0 15.18	- 2 46.5	2.058	3.002	7.4	20.5
10 28	0 9.15	- 5 29.7	2.211	3.076	10.8	20.2	10 28	0 9.72	- 3 14.8	2.137	3.012	10.6	20.7
11 7	0 5.11	- 5 28.9	2.291	3.063	13.5	20.4	11 7	0 6.13	- 3 28.6	2.238	3.023	13.4	20.9
428687	2008 <i>KC</i> ₄₁		9 30.5 80°19	5°5/25.8	17		461214	2015 <i>VE</i> ₁₃₀		9 30.5 6°89	7°9/22.8	18	
8 29	0 51.55	- 6 56.5	1.449	2.349	14.3	20.9	8 29	0 51.17	- 19 12.9	1.922	2.807	12.0	20.3
9 8	0 46.18	- 8 20.6	1.408	2.361	10.3	20.7	9 8	0 45.61	- 20 8.8	1.878	2.808	9.7	20.1
9 18	0 38.67	- 9 45.8	1.391	2.373	6.7	20.5	9 18	0 38.26	- 20 54.6	1.858	2.809	8.2	20.1
9 28	0 29.95	- 11 2.0	1.398	2.385	5.6	20.5	9 28	0 29.90	- 21 23.1	1.863	2.810	8.2	20.1
10 8	0 21.21	- 12 0.3	1.432	2.397	8.1	20.6	10 8	0 21.50	- 21 29.3	1.893	2.812	9.8	20.2
10 18	0 13.58	- 12 34.9	1.491	2.408	11.8	20.9	10 18	0 13.97	- 21 11.2	1.948	2.814	12.1	20.3
10 28	0 7.98	- 12 43.7	1.572	2.420	15.2	21.1	10 28	0 8.12	- 20 29.6	2.024	2.816	14.4	20.5
11 7	0 4.92	- 12 28.1	1.671	2.432	18.1	21.4	11 7	0 4.42	- 19 27.4	2.120	2.819	16.5	20.7
375206	2008 <i>EG</i> ₁₁₁		9 30.5 248°87	4°0/27.1	18		169536	2002 <i>EU</i> ₇₀		9 30.5 210°28	0°7/ 1.2	18	
8 29	0 52.29	- 3 55.8	1.551	2.444	13.9	21.1	8 29	0 51.57	+ 8 32.1	1.580	2.446	15.2	20.3
9 8	0 46.90	- 4 59.8	1.483	2.434	10.1	20.8	9 8	0 46.35	+ 7 42.7	1.507	2.442	11.3	20.0
9 18	0 39.23	- 6 9.8	1.439	2.425	6.1	20.6	9 18	0 38.92	+ 6 34.7	1.457	2.438	6.7	19.8
9 28	0 30.10	- 7 17.8	1.421	2.415	4.0	20.4	9 28	0 30.08	+ 5 13.3	1.433	2.433	1.8	19.4
10 8	0 20.67	- 8 14.8	1.429	2.404	6.8	20.6	10 8	0 20.93	+ 3 46.7	1.436	2.428	3.6	19.6
10 18	0 12.10	- 8 53.9	1.464	2.394	10.9	20.8	10 18	0 12.64	+ 2 23.9	1.466	2.422	8.5	19.8
10 28	0 5.45	- 9 10.7	1.521	2.383	14.9	21.0	10 28	0 6.22	+ 1 13.7	1.521	2.416	12.9	20.1
11 7	0 1.38	- 9 4.6	1.598	2.372	18.3	21.2	11 7	0 2.35	+ 0 21.7	1.597	2.410	16.6	20.3
178000	2006 <i>QT</i> ₁₁₇		9 30.5 350°65	0°5/30.1	18		379561	2011 <i>AR</i> ₆₆		9 30.6 250°87	0°5/ 1.0	16	
8 29	0 46.55	+ 4 50.2	1.508	2.395	14.6	19.7	8 29	0 52.22	+ 6 46.6	1.632	2.501	14.7	22.4
9 8	0 42.73	+ 4 4.8	1.443	2.390	10.6	19.5	9 8	0 46.85	+ 6 18.8	1.554	2.490	10.9	22.1
9 18	0 36.82	+ 3 4.9	1.399	2.386	6.0	19.2	9 18	0 39.25	+ 5 35.9	1.497	2.478	6.4	21.8
9 28	0 29.60	+ 1 56.4	1.381	2.382	1.2	18.9	9 28	0 30.17	+ 4 41.7	1.466	2.467	1.6	21.5
10 8	0 22.13	+ 0 47.4	1.388	2.379	4.0	19.1	10 8	0 20.69	+ 3 42.9	1.463	2.455	3.6	21.6
10 18	0 15.49	- 0 13.9	1.421	2.377	8.8	19.3	10 18	0 11.97	+ 2 46.8	1.486	2.443	8.4	21.9
10 28	0 10.64	- 1 0.5	1.478	2.376	13.1	19.6	10 28	0 5.08	+ 2 0.8	1.535	2.430	12.8	22.1
11 7	0 8.19	- 1 28.2	1.556	2.375	16.7	19.8	11 7	0 0.71	+ 1 30.0	1.604	2.417	16.5	22.3
20738	1999 <i>XG</i> ₁₉₁		9 30.5 2°78	1°5/27.8	18		97802	2000 <i>NJ</i> ₂₈		9 30.6 55°60	2°7/ 2.7	18	
8 29	0 43.05	- 3 57.1	4.221	5.095	6.3	18.7	8 29	0 52.28	+ 12 22.0	1.095	1.969	19.8	18.5
9 8	0 39.02	- 4 18.6	4.153	5.095	4.4	18.6	9 8	0 47.19	+ 11 49.5	1.056	1.990	14.9	18.2
9 18	0 34.25	- 4 41.3	4.112	5.096	2.6	18.5	9 18	0 39.41	+ 10 50.9	1.035	2.012	9.4	18.0
9 28	0 29.05	- 5 3.1	4.100	5.096	1.5	18.4	9 28	0 30.15	+ 9 32.1	1.037	2.034	4.0	17.8
10 8	0 23.78	- 5 21.6	4.119	5.096	2.6	18.5	10 8	0 20.94	+ 8 3.6	1.063	2.056	4.2	17.9
10 18	0 18.81	- 5 35.1	4.168	5.096	4.5	18.6	10 18	0 13.20	+ 6 37.5	1.114	2.079	9.3	18.2
10 28	0 14.48	- 5 41.8	4.244	5.096	6.3	18.8	10 28	0 8.02	+ 5 24.7	1.187	2.102	14.1	18.6
11 7	0 11.06	- 5 40.9	4.345	5.096	7.9	18.9	11 7	0 5.91	+ 4 31.8	1.280	2.125	18.1	18.9
507220	2010 <i>WJ</i> ₁₉		9 30.5 139°01	1°3/ 3.3	18		146081	2000 <i>HU</i> ₁₄		9 30.6 208°63	4°8/26.1	18	
8 29	0 41.65	+ 11 54.4	4.521	5.344	6.8	21.4	8 29	0 53.52	- 7 55.8	1.817	2.704	12.5	20.3
9 8	0 38.02	+ 11 40.3	4.440	5.346	5.2	21.3	9 8	0 47.47	- 8 55.8	1.754	2.700	9.1	20.1
9 18	0 33.68	+ 11 19.2	4.384	5.348	3.4	21.2	9 18	0 39.43	- 9 56.5	1.715	2.695	6.0	19.9
9 28	0 28.94	+ 10 52.3	4.358	5.349	1.7	21.1	9 28	0 30.18	- 10 50.6	1.704	2.689	4.9	19.8
10 8	0 24.11	+ 10 21.4	4.361	5.351	1.6	21.1	10 8	0 20.72	- 11 31.1	1.720	2.683	7.1	19.9
10 18	0 19.55	+ 9 48.8	4.395	5.352	3.3	21.2	10 18	0 12.08	- 11 53.0	1.763	2.677	10.5	20.1
10 28	0 15.57	+ 9 16.7	4.458	5.354	5.0	21.3	10 28	0 5.18	- 11 54.0	1.830	2.670	13.8	20.3
11 7	0 12.45	+ 8 47.6	4.548	5.356	6.7	21.4	11 7	0 0.58	- 11 34.5	1.916	2.663	16.6	20.5
385069	2012 <i>UF</i> ₆₇		9 30.5 112°85	2°1/28.4	18		472752	2015 <i>FK</i> ₁₀₃		9 30.6 179°01	3°8/ 4.2	16	
8 29	0 49.48	+ 0 48.7	1.822	2.705	12.7	21.1	8 29	0 51.22	+ 15 55.6	1.707	2.540	15.7	21.3
9 8	0 44.42	- 0 19.2	1.767	2.714	9.0	20.9	9 8	0 46.01	+ 15 35.8	1.633	2.541	12.3	21.1
9 18	0 37.59	- 1 35.7	1.737	2.723	5.0	20.7	9 18	0 38.69	+ 14 53.6	1.581	2.542	8.4	20.9
9 28	0 29.75	- 2 53.9	1.733	2.732	2.1	20.5	9 28	0 30.04	+ 13 51.1	1.554	2.542	4.8	20.7
10 8	0 21.81	- 4 6.2	1.758	2.741	4.7	20.7	10 8	0 21.13	+ 12 33.9	1.553	2.542	4.2	20.7
10 18	0 14.70	- 5 6.1	1.810	2.750	8.5	21.0	10 18	0 13.05	+ 11 10.0	1.580	2.542	7.5	20.9
10 28	0 9.18	- 5 48.7	1.887	2.758	12.1	21.2	10 28	0 6.77	+ 9 48.6	1.633	2.541	11.4	21.1
11 7	0 5.77	- 6 12.1	1.986	2.766	15.0	21.4	11 7	0 2.91	+ 8 37.7	1.709	2.540	14.9	21.3
242553	2005 <i>EW</i> ₉₃		9 30.5 111°18	6°6/22.9	18		90337	2003 <i>FQ</i> ₉₇		9 30.6 58°16	3°0/ 7.2	18	R
8 29	0 49.97	- 14 11.3	2.014	2.903	11.3	20.4	8 29	0 41.54	+ 21 45.0	4.257	5.025	8.1	18.8
9 8	0 44.61	- 15 44.0	1.978	2.917	8.7	20.3	9 8	0 38.02	+ 21 28.2	4.174	5.030	6.6	18.7
9 18	0 37.62	- 17 11.1	1.968	2.930	6.9	20.2	9 18	0 33.73	+ 21 0.1	4.114	5.036	5.0	18.6
9 28	0 29.74	- 18 24.3	1.984	2.943	6.9	20.2	9 28	0 28.99	+ 20 21.7	4.081	5.041	3.6	18.5
10 8	0 21.85	- 19 17.5	2.028	2.956	8.7	20.4	10 8	0 24.18	+ 19 34.7	4.077	5.047	3.1	18.5
10 18	0 14.78	- 19 47.1	2.097	2.968	11.1	20.6	10 18	0 19.66	+ 18 41.7	4.103	5.052	3.8	18.5
10 28	0 9.25	- 19 52.5	2.188	2.980	13.5	20.8	10 28	0 15.81	+ 17 46.0	4.158	5.058	5.3	18.6
11 7	0 5.70	- 19 35.5	2.298	2.992	15.5	20.9	11 7	0 12.89	+ 16 50.7	4.240	5.063	6.8	18.8
9582	1990 <i>EL</i> ₇		9 30.5 229°92	2°6/ 2.4	18		261732	2006 <i>AB</i> ₆₅		9 30.6 148°29	1°3/ 2.2		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
161938	2007 <i>FB</i> ₃₇		9 30.6 149°84	1°5/ 2.7 18			200028	2007 <i>PW</i> ₂₈		9 30.6 22°07	1°7/ 3.9 18		
8 29	0 46.26	+12 12.3	2.480	3.317	11.3	20.2	8 29	0 41.68	+13 43.1	3.945	4.764	7.8	19.4
9 8	0 41.82	+11 22.2	2.405	3.321	8.5	20.0	9 8	0 38.17	+13 23.3	3.865	4.767	6.0	19.3
9 18	0 36.05	+10 17.6	2.354	3.325	5.4	19.8	9 18	0 33.85	+12 54.5	3.811	4.770	4.0	19.2
9 28	0 29.49	+ 9 1.9	2.332	3.328	2.3	19.6	9 28	0 29.07	+12 18.2	3.784	4.773	2.2	19.0
10 8	0 22.81	+ 7 40.2	2.339	3.331	2.4	19.6	10 8	0 24.20	+11 36.7	3.788	4.776	2.0	19.0
10 18	0 16.67	+ 6 18.3	2.376	3.334	5.6	19.8	10 18	0 19.63	+10 52.7	3.821	4.779	3.7	19.2
10 28	0 11.69	+ 5 2.2	2.441	3.337	8.6	20.0	10 28	0 15.74	+10 9.3	3.883	4.783	5.6	19.3
11 7	0 8.30	+ 3 56.7	2.531	3.340	11.3	20.2	11 7	0 12.82	+ 9 29.2	3.972	4.786	7.4	19.4
299142	2005 <i>EN</i> ₂₄₇		9 30.6 231°76	0°3/30.9 18			145970	2000 <i>AA</i> ₃₄		9 30.6 295°36	2°4/28.8 18 R		
8 29	0 52.42	+ 5 5.2	1.936	2.800	12.9	20.9	8 29	0 51.86	- 0 8.7	1.401	2.294	15.1	19.7
9 8	0 46.64	+ 4 54.6	1.861	2.795	9.5	20.7	9 8	0 46.99	- 0 48.6	1.322	2.273	11.0	19.4
9 18	0 38.97	+ 4 33.7	1.810	2.791	5.5	20.5	9 18	0 39.55	- 1 39.2	1.264	2.251	6.3	19.1
9 28	0 30.12	+ 4 5.7	1.785	2.786	1.3	20.2	9 28	0 30.32	- 2 33.7	1.231	2.230	2.4	18.8
10 8	0 21.00	+ 3 35.0	1.790	2.781	3.1	20.3	10 8	0 20.54	- 3 23.8	1.223	2.209	5.7	18.9
10 18	0 12.59	+ 3 6.8	1.822	2.776	7.3	20.6	10 18	0 11.54	- 4 1.2	1.241	2.188	10.8	19.1
10 28	0 5.76	+ 2 45.8	1.881	2.771	11.1	20.8	10 28	0 4.58	- 4 19.9	1.281	2.167	15.5	19.4
11 7	0 1.09	+ 2 35.5	1.962	2.766	14.3	21.0	11 7	0 0.49	- 4 17.1	1.340	2.147	19.6	19.6
188649	2005 <i>SS</i> ₂₆		9 30.6 22°86	2°1/28.7 18			292928	2006 <i>VH</i> ₆₉		9 30.6 92°32	1°6/28.9 18		
8 29	0 47.44	+ 2 48.2	1.259	2.158	16.1	19.7	8 29	0 49.38	+ 0 19.9	2.012	2.892	11.8	20.8
9 8	0 43.59	+ 1 28.9	1.207	2.162	11.5	19.5	9 8	0 44.29	- 0 20.9	1.951	2.896	8.4	20.6
9 18	0 37.39	- 0 5.4	1.178	2.167	6.4	19.2	9 18	0 37.56	- 1 8.6	1.914	2.900	4.7	20.4
9 28	0 29.79	- 1 45.0	1.172	2.172	2.2	19.0	9 28	0 29.85	- 1 58.0	1.904	2.904	1.7	20.2
10 8	0 22.02	- 3 18.1	1.192	2.179	5.6	19.2	10 8	0 22.02	- 2 43.6	1.922	2.907	4.1	20.4
10 18	0 15.33	- 4 34.6	1.236	2.185	10.6	19.5	10 18	0 14.89	- 3 20.1	1.969	2.911	7.7	20.6
10 28	0 10.74	- 5 27.1	1.303	2.193	15.0	19.8	10 28	0 9.22	- 3 43.8	2.041	2.915	11.1	20.9
11 7	0 8.83	- 5 53.3	1.389	2.201	18.7	20.1	11 7	0 5.51	- 3 52.5	2.135	2.919	13.9	21.1
397575	2007 <i>UX</i> ₁₀₁		9 30.6 277°59	2°8/ 3.5 18			521692	2015 <i>RY</i> ₂₆₂		9 30.6 39°08	2°9/ 3.8 18		
8 29	0 48.45	+13 55.9	1.923	2.762	14.0	21.5	8 29	0 46.69	+14 51.4	1.789	2.631	14.7	21.0
9 8	0 43.92	+13 32.0	1.834	2.748	10.8	21.3	9 8	0 42.56	+14 12.6	1.725	2.640	11.3	20.8
9 18	0 37.50	+12 49.0	1.768	2.733	7.2	21.0	9 18	0 36.64	+13 13.0	1.684	2.649	7.5	20.6
9 28	0 29.84	+11 48.8	1.727	2.719	3.7	20.8	9 28	0 29.66	+11 56.1	1.667	2.659	3.9	20.4
10 8	0 21.81	+10 36.5	1.714	2.704	3.5	20.8	10 8	0 22.56	+10 28.7	1.678	2.669	3.4	20.4
10 18	0 14.39	+ 9 18.9	1.728	2.689	7.0	21.0	10 18	0 16.24	+ 8 58.7	1.716	2.679	6.8	20.6
10 28	0 8.46	+ 8 4.1	1.769	2.675	10.8	21.2	10 28	0 11.51	+ 7 34.7	1.781	2.690	10.5	20.9
11 7	0 4.67	+ 6 59.1	1.833	2.660	14.2	21.3	11 7	0 8.88	+ 6 23.4	1.869	2.701	13.8	21.1
28301	1999 <i>CW</i> ₆₇		9 30.6 204°54	2°9/ 3.9 18			258686	2002 <i>EB</i> ₁₆₃		9 30.6 241°86	1°6/27.2 18		
8 29	0 49.79	+14 37.8	2.404	3.225	12.1	18.8	8 29	0 41.70	- 4 38.3	4.434	5.310	5.9	20.7
9 8	0 44.50	+14 24.6	2.319	3.221	9.4	18.6	9 8	0 38.09	- 5 10.6	4.364	5.307	4.2	20.6
9 18	0 37.66	+13 56.1	2.258	3.217	6.4	18.4	9 18	0 33.78	- 5 44.2	4.321	5.304	2.5	20.5
9 28	0 29.85	+13 13.9	2.224	3.212	3.6	18.2	9 28	0 29.06	- 6 16.5	4.308	5.301	1.6	20.4
10 8	0 21.81	+12 21.5	2.219	3.206	3.2	18.2	10 8	0 24.27	- 6 45.3	4.325	5.298	2.8	20.5
10 18	0 14.32	+11 23.8	2.243	3.201	5.9	18.3	10 18	0 19.75	- 7 8.5	4.372	5.295	4.5	20.6
10 28	0 8.08	+10 26.6	2.295	3.194	8.9	18.5	10 28	0 15.81	- 7 24.4	4.446	5.291	6.2	20.7
11 7	0 3.62	+ 9 35.1	2.371	3.188	11.7	18.7	11 7	0 12.72	- 7 32.1	4.545	5.288	7.7	20.9
452078	2014 <i>OG</i> ₃₈₂		9 30.6 71°09	0°6/29.9 18			296887	2010 <i>AB</i> ₈₈		9 30.6 59°81	4°9/21.2 17		
8 29	0 48.55	+ 3 28.6	2.095	2.967	11.7	21.5	8 29	0 46.27	-23 53.3	4.273	5.129	6.6	20.2
9 8	0 43.56	+ 2 50.1	2.041	2.981	8.4	21.3	9 8	0 41.33	-24 22.1	4.229	5.131	5.5	20.1
9 18	0 37.06	+ 2 3.0	2.011	2.995	4.7	21.1	9 18	0 35.60	-24 43.9	4.212	5.133	5.0	20.1
9 28	0 29.71	+ 1 11.7	2.009	3.010	1.0	20.9	9 28	0 29.43	-24 55.9	4.222	5.135	5.1	20.1
10 8	0 22.31	+ 0 21.7	2.035	3.024	3.2	21.1	10 8	0 23.25	-24 56.1	4.260	5.136	5.9	20.2
10 18	0 15.62	- 0 21.9	2.089	3.039	6.9	21.3	10 18	0 17.45	-24 43.7	4.324	5.138	7.0	20.3
10 28	0 10.33	- 0 54.9	2.170	3.053	10.1	21.6	10 28	0 12.41	-24 18.4	4.412	5.140	8.1	20.3
11 7	0 6.89	- 1 14.8	2.274	3.068	12.9	21.8	11 7	0 8.42	-23 41.2	4.522	5.142	9.2	20.4
127305	2002 <i>JJ</i> ₈₇		9 30.6 67°72	1°9/ 2.8 18			172692	2004 <i>AR</i> ₅		9 30.6 347°90	10°7/ 9.7 18		
8 29	0 48.06	+11 33.8	2.139	2.984	12.6	20.0	8 29	0 43.92	+26 13.7	1.230	2.048	21.6	18.9
9 8	0 43.24	+11 9.3	2.079	2.998	9.5	19.8	9 8	0 41.66	+27 10.0	1.156	2.033	18.6	18.6
9 18	0 36.90	+10 30.2	2.041	3.012	6.0	19.6	9 18	0 36.67	+27 32.3	1.097	2.020	15.4	18.4
9 28	0 29.69	+ 9 39.7	2.031	3.026	2.7	19.4	9 28	0 29.75	+27 15.7	1.057	2.009	12.4	18.2
10 8	0 22.39	+ 8 42.5	2.049	3.040	2.8	19.5	10 8	0 22.22	+26 20.6	1.037	1.999	10.7	18.1
10 18	0 15.78	+ 7 44.3	2.095	3.055	6.1	19.7	10 18	0 15.57	+24 53.4	1.039	1.992	11.6	18.1
10 28	0 10.56	+ 6 50.8	2.168	3.069	9.3	19.9	10 28	0 11.22	+23 7.2	1.062	1.986	14.4	18.2
11 7	0 7.17	+ 6 6.7	2.265	3.083	12.2	20.2	11 7	0 10.05	+21 17.2	1.105	1.982	17.9	18.4
293174	2006 <i>YY</i> ₅₁		9 30.6 122°82	1°7/28.9 18			483881	2005 <i>YS</i> ₂₀₂		9 30.6 279°58	3°1/ 4.0 18		
8 29	0 52.38	+ 1 23.3	1.763	2.641	13.3	21.2	8 29	0 48.61	+14 36.0	2.227	3.055	12.7	21.6
9 8	0 46.55	+ 0 30.1	1.710	2.654	9.5	21.0	9 8	0 43.77	+14 31.0	2.145	3.051	9.9	21.4
9 18	0 38.86	- 0 31.8	1.680	2.666	5.3	20.8	9 18	0 37.31	+14 10.2	2.087	3.046	6.8	21.2
9 28	0 30.09	- 1 36.2	1.678	2.678	1.7	20.6	9 28	0 29.83	+13 34.9	2.054	3.042	3.9	21.0
10 8	0 21.26	- 2 35.9	1.704	2.690	4.4	20.8	10 8	0 22.10	+12 48.6	2.050	3.038	3.5	21.0
10 18	0 13.34	- 3 24.8	1.757	2.701	8.5	21.1	10 18	0 14.95	+11 56.4	2.074	3.033	6.1	21.2
10 28	0 7.16	- 3 58.2	1.836	2.711	12.1	21.3	10 28	0 9.12	+11 4.1	2.125	3.029	9.3	21.4
11 7	0 3.22	- 4 14.1	1.936	2.721	15.1	21.5	11 7	0 5.15	+10 17.3	2.200	3.025	12.2	21.5
341684	2007 <i>VP</i> ₁₀₉		9 30.6 286°18	1°4/ 1.9 18			295644	2008 <i>SH</i> ₂₇₈		9 30.6 66°37	2°0/ 4.7 18		
8 29	0 49.32												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
59555	1999 <i>JE</i> ₄₁		9 30.6	31°10'	3°8'/27.7	18 R	515088	2010 <i>TN</i> ₁₉₃		9 30.6	319°44'	0°0'/30.5	18
8 29	0 49.13	- 2 11.8	1.177	2.085	16.2	17.9	8 29	0 46.46	+ 6 52.8	2.094	2.959	12.0	21.1
9 8	0 44.78	- 3 15.7	1.140	2.099	11.5	17.7	9 8	0 42.22	+ 5 57.0	2.022	2.957	8.8	20.9
9 18	0 38.04	- 4 26.2	1.125	2.114	6.6	17.5	9 18	0 36.42	+ 4 48.3	1.974	2.956	5.1	20.7
9 28	0 29.96	- 5 33.5	1.133	2.130	3.8	17.4	9 28	0 29.67	+ 3 31.3	1.953	2.954	1.1	20.4
10 8	0 21.89	- 6 27.8	1.166	2.147	6.8	17.6	10 8	0 22.74	+ 2 12.3	1.962	2.953	3.0	20.5
10 18	0 15.09	- 7 2.0	1.222	2.165	11.4	17.9	10 18	0 16.43	+ 0 58.1	1.998	2.952	6.8	20.8
10 28	0 10.54	- 7 12.4	1.300	2.184	15.5	18.2	10 28	0 11.44	- 0 5.3	2.061	2.950	10.3	21.0
11 7	0 8.73	- 6 59.4	1.396	2.203	18.9	18.5	11 7	0 8.29	- 0 53.7	2.148	2.949	13.3	21.2
296962	2010 <i>EF</i> ₆₆		9 30.6	135°17'	4°3'/25.8	18	166554	2002 <i>RP</i> ₈₈		9 30.6	239°61'	1°3'/29.2	18
8 29	0 49.72	- 6 19.1	2.000	2.889	11.5	20.6	8 29	0 49.04	+ 2 19.3	1.882	2.761	12.5	20.0
9 8	0 44.51	- 7 42.7	1.950	2.898	8.2	20.4	9 8	0 44.23	+ 1 27.5	1.814	2.758	9.0	19.8
9 18	0 37.66	- 9 8.0	1.925	2.906	5.3	20.3	9 18	0 37.63	+ 0 25.6	1.769	2.755	5.0	19.6
9 28	0 29.89	- 10 27.6	1.929	2.915	4.4	20.2	9 28	0 29.93	- 0 40.6	1.751	2.752	1.4	19.3
10 8	0 22.03	- 11 34.4	1.961	2.922	6.5	20.4	10 8	0 22.02	- 1 44.5	1.762	2.749	4.0	19.5
10 18	0 14.93	- 12 23.2	2.019	2.930	9.5	20.6	10 18	0 14.82	- 2 39.6	1.799	2.745	8.1	19.7
10 28	0 9.33	- 12 51.1	2.102	2.937	12.4	20.8	10 28	0 9.14	- 3 20.5	1.863	2.742	11.7	20.0
11 7	0 5.69	- 12 58.1	2.206	2.944	14.9	21.0	11 7	0 5.53	- 3 44.4	1.948	2.739	14.9	20.2
199736	2006 <i>HA</i> ₁₁₂		9 30.6	277°66'	0°8'/29.7	18	2336	Xinjiang		9 30.6	258°89'	1°2'/29.2	18
8 29	0 48.03	+ 5 34.0	1.811	2.684	13.2	19.7	8 29	0 47.77	+ 1 4.0	2.527	3.399	10.0	17.2
9 8	0 43.72	+ 4 19.7	1.721	2.663	9.6	19.4	9 8	0 42.98	+ 0 26.8	2.444	3.385	7.2	17.0
9 18	0 37.47	+ 2 48.8	1.656	2.640	5.5	19.1	9 18	0 36.81	- 0 17.0	2.387	3.372	4.0	16.8
9 28	0 29.89	+ 1 7.0	1.617	2.618	1.1	18.8	9 28	0 29.76	- 1 3.5	2.358	3.358	1.2	16.6
10 8	0 21.91	- 0 36.9	1.606	2.595	4.0	19.0	10 8	0 22.48	- 1 48.3	2.358	3.344	3.3	16.7
10 18	0 14.50	- 2 13.8	1.624	2.572	8.6	19.2	10 18	0 15.68	- 2 26.9	2.387	3.330	6.6	16.9
10 28	0 8.62	- 3 35.3	1.667	2.549	12.7	19.4	10 28	0 9.98	- 2 55.7	2.443	3.316	9.6	17.1
11 7	0 4.93	- 4 36.0	1.731	2.526	16.3	19.6	11 7	0 5.88	- 3 12.1	2.523	3.301	12.2	17.2
21138	1993 <i>FS</i> ₂₄		9 30.6	161°61'	0°7'/1.2	18	85092	4253 <i>T-2</i>		9 30.6	14°54'	3°9'/27.6	18
8 29	0 52.08	+ 6 40.1	1.959	2.818	13.0	19.4	8 29	0 43.73	+ 0 8.6	0.903	1.827	18.2	17.9
9 8	0 46.34	+ 6 21.5	1.890	2.821	9.5	19.2	9 8	0 41.45	- 1 17.6	0.866	1.833	12.9	17.7
9 18	0 38.79	+ 5 51.1	1.845	2.824	5.6	18.9	9 18	0 36.38	- 2 57.2	0.848	1.840	7.3	17.4
9 28	0 30.14	+ 5 12.3	1.826	2.827	1.5	18.7	9 28	0 29.68	- 4 36.6	0.852	1.850	3.9	17.2
10 8	0 21.30	+ 4 30.0	1.837	2.829	3.0	18.8	10 8	0 22.87	- 6 1.4	0.877	1.861	7.6	17.5
10 18	0 13.21	+ 3 49.7	1.875	2.831	7.0	19.0	10 18	0 17.40	- 7 0.4	0.923	1.874	12.9	17.8
10 28	0 6.68	+ 3 16.6	1.940	2.832	10.7	19.3	10 28	0 14.41	- 7 27.9	0.988	1.889	17.7	18.2
11 7	0 2.26	+ 2 54.5	2.028	2.834	13.8	19.5	11 7	0 14.43	- 7 24.0	1.071	1.905	21.6	18.5
398733	2012 <i>XT</i> ₁₃₈		9 30.6	226°02'	5°0'/6.4	18	108455	2001 <i>KD</i> ₅₀		9 30.6	153°28'	7°0'/13.2	18
8 29	0 48.70	+ 21 15.5	1.972	2.773	15.1	20.9	8 29	0 49.24	+ 35 29.3	3.229	3.891	12.4	20.1
9 8	0 44.06	+ 20 54.2	1.889	2.769	12.3	20.7	9 8	0 43.93	+ 35 37.7	3.144	3.899	10.9	20.0
9 18	0 37.57	+ 20 8.8	1.826	2.766	9.1	20.5	9 18	0 37.29	+ 35 25.9	3.078	3.906	9.4	19.9
9 28	0 29.90	+ 19 0.2	1.789	2.762	6.2	20.3	9 28	0 29.85	+ 34 52.8	3.034	3.913	8.0	19.8
10 8	0 21.96	+ 17 32.7	1.778	2.757	5.1	20.3	10 8	0 22.27	+ 33 59.5	3.017	3.920	7.1	19.8
10 18	0 14.71	+ 15 53.7	1.795	2.753	7.0	20.4	10 18	0 15.21	+ 32 49.1	3.026	3.926	7.1	19.8
10 28	0 9.00	+ 14 12.3	1.839	2.749	10.2	20.6	10 28	0 9.28	+ 31 26.4	3.062	3.931	8.0	19.9
11 7	0 5.44	+ 12 37.2	1.908	2.744	13.3	20.8	11 7	0 4.94	+ 29 57.7	3.125	3.937	9.3	20.0
187709	Fengduan		9 30.6	189°95'	1°5'/28.9	18	335752	2007 <i>ET</i> ₅₅		9 30.6	123°65'	3°4'/26.9	16
8 29	0 49.04	+ 0 38.2	2.172	3.048	11.2	20.6	8 29	0 49.17	- 1 11.0	1.687	2.577	13.1	21.0
9 8	0 43.99	- 0 2.5	2.104	3.047	8.0	20.4	9 8	0 44.38	- 2 53.5	1.634	2.585	9.3	20.7
9 18	0 37.38	- 0 50.0	2.062	3.047	4.5	20.2	9 18	0 37.72	- 4 44.2	1.606	2.592	5.4	20.5
9 28	0 29.84	- 1 39.7	2.047	3.046	1.5	20.0	9 28	0 29.95	- 6 33.9	1.605	2.599	3.5	20.4
10 8	0 22.15	- 2 26.2	2.060	3.046	3.8	20.1	10 8	0 22.06	- 8 12.6	1.632	2.606	6.2	20.6
10 18	0 15.08	- 3 4.7	2.102	3.045	7.3	20.4	10 18	0 15.04	- 9 32.4	1.685	2.612	10.0	20.9
10 28	0 9.35	- 3 31.2	2.171	3.044	10.6	20.6	10 28	0 9.71	- 10 28.3	1.763	2.619	13.5	21.1
11 7	0 5.46	- 3 43.5	2.261	3.043	13.3	20.8	11 7	0 6.59	- 10 59.1	1.861	2.625	16.4	21.3
72405	2001 <i>CD</i> ₂₇		9 30.6	159°58'	5°9'/6.7	18	354180	2002 <i>CC</i> ₃₁₈		9 30.6	290°58'	1°4'/27.8	18
8 29	0 53.45	+ 21 52.1	2.110	2.895	14.8	19.6	8 29	0 41.73	- 2 37.7	4.140	5.015	6.3	20.9
9 8	0 47.41	+ 22 14.8	2.032	2.899	12.1	19.4	9 8	0 38.17	- 3 14.0	4.069	5.013	4.5	20.7
9 18	0 39.46	+ 22 16.8	1.977	2.903	9.3	19.2	9 18	0 33.87	- 3 52.4	4.026	5.010	2.6	20.6
9 28	0 30.29	+ 21 57.5	1.946	2.907	6.8	19.1	9 28	0 29.14	- 4 30.5	4.012	5.008	1.4	20.5
10 8	0 20.85	+ 21 18.9	1.942	2.910	5.9	19.0	10 8	0 24.32	- 5 5.6	4.028	5.005	2.6	20.6
10 18	0 12.11	+ 20 25.8	1.966	2.913	7.4	19.1	10 18	0 19.79	- 5 35.5	4.073	5.003	4.6	20.7
10 28	0 4.96	+ 19 25.1	2.016	2.916	10.0	19.3	10 28	0 15.88	- 5 58.0	4.146	5.000	6.4	20.9
11 7	24 0.00	+ 18 24.5	2.091	2.918	12.7	19.5	11 7	0 12.87	- 6 12.0	4.244	4.998	8.0	21.0
158241	Yutonagatomo		9 30.6	301°91'	5°4'/26.2	18	115622	2003 <i>UC</i> ₁₁₇		9 30.6	320°45'	1°2'/29.2	18
8 29	0 51.44	- 7 20.1	1.459	2.359	14.2	19.7	8 29	0 46.20	+ 2 11.2	2.067	2.946	11.5	19.7
9 8	0 46.46	- 8 22.0	1.394	2.346	10.4	19.4	9 8	0 42.10	+ 1 22.3	1.991	2.936	8.3	19.5
9 18	0 39.12	- 9 26.4	1.351	2.334	6.8	19.2	9 18	0 36.39	+ 0 24.2	1.940	2.926	4.6	19.3
9 28	0 30.25	- 10 24.2	1.333	2.321	5.5	19.1	9 28	0 29.69	- 0 38.2	1.916	2.917	1.3	19.0
10 8	0 21.03	- 11 6.6	1.341	2.308	8.1	19.2	10 8	0 22.76	- 1 38.8	1.920	2.907	3.8	19.2
10 18	0 12.71	- 11 27.2	1.373	2.296	12.1	19.4	10 18	0 16.41	- 2 31.8	1.952	2.899	7.5	19.4
10 28	0 6.39	- 11 22.9	1.427	2.284	16.0	19.6	10 28	0 11.37	- 3 12.1	2.010	2.890	11.0	19.6
11 7	0 2.75	- 10 54.3	1.499	2.273	19.3	19.8	11 7	0 8.18	- 3 36.8	2.089	2.881	13.9	19.8
475374	2006 <i>DP</i> ₂₁₆		9 30.6	196°21'	0°5'/1.1	18	455063	2015 <i>UE</i> ₃₁		9 30.6	29°51'	1°8'/28.9	18
8 29	0 52.56	+ 6 2.5											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
285840	2001 <i>FP</i> ₄₉		9 30.6 204°48	1.4/ 1.6	18	R	126852	2002 <i>EV</i> ₇₃		9 30.6 246°27	1.2/ 1.9	18	
8 29	0 56.19	+ 7 10.6	1.582	2.444	15.4	20.8	8 29	0 47.76	+ 9 25.2	2.277	3.127	11.7	19.9
9 8	0 49.78	+ 7 15.2	1.511	2.443	11.5	20.5	9 8	0 43.12	+ 8 54.4	2.197	3.121	8.8	19.7
9 18	0 40.99	+ 7 6.3	1.462	2.441	7.0	20.3	9 18	0 36.97	+ 8 10.5	2.141	3.116	5.4	19.5
9 28	0 30.67	+ 6 46.2	1.439	2.438	2.3	20.0	9 28	0 29.86	+ 7 16.5	2.112	3.110	1.9	19.2
10 8	0 20.01	+ 6 19.7	1.443	2.436	3.5	20.1	10 8	0 22.54	+ 6 17.2	2.112	3.104	2.6	19.3
10 18	0 10.27	+ 5 52.6	1.475	2.433	8.3	20.3	10 18	0 15.77	+ 5 18.0	2.140	3.098	6.1	19.5
10 28	0 2.53	+ 5 31.0	1.531	2.430	12.6	20.6	10 28	0 10.25	+ 4 24.5	2.196	3.092	9.5	19.7
11 7	23 57.50	+ 5 19.7	1.610	2.427	16.3	20.8	11 7	0 6.50	+ 3 41.1	2.276	3.086	12.4	19.9
254958	2005 <i>SY</i> ₂₀₇		9 30.6 324°75	1.9/ 2.4	18		322151	2010 <i>WX</i> ₃₆		9 30.6 97°20	2.7/27.5	18	
8 29	0 49.67	+ 9 43.0	1.902	2.757	13.5	20.6	8 29	0 48.99	- 3 50.0	2.264	3.146	10.6	20.8
9 8	0 44.77	+ 9 39.0	1.825	2.751	10.2	20.4	9 8	0 43.85	- 4 37.9	2.211	3.157	7.5	20.7
9 18	0 38.00	+ 9 21.0	1.770	2.744	6.4	20.1	9 18	0 37.28	- 5 28.5	2.184	3.168	4.4	20.5
9 28	0 30.04	+ 8 51.0	1.742	2.738	2.7	19.9	9 28	0 29.91	- 6 16.8	2.184	3.178	2.8	20.4
10 8	0 21.79	+ 8 13.4	1.741	2.733	3.1	19.9	10 8	0 22.47	- 6 57.7	2.213	3.188	4.7	20.5
10 18	0 14.20	+ 7 33.5	1.767	2.727	6.9	20.1	10 18	0 15.71	- 7 27.0	2.271	3.199	7.7	20.8
10 28	0 8.14	+ 6 57.3	1.819	2.722	10.7	20.3	10 28	0 10.25	- 7 42.3	2.354	3.209	10.6	21.0
11 7	0 4.21	+ 6 29.7	1.894	2.717	14.0	20.6	11 7	0 6.53	- 7 42.4	2.459	3.219	13.0	21.2
89741	2002 <i>AV</i> ₉		9 30.6 203°32	5.0/24.4	18		115903	2003 <i>VZ</i> ₁₁		9 30.6 201°69	5.0/ 6.2	18	
8 29	0 48.32	-10 45.3	2.293	3.182	10.2	19.5	8 29	0 51.22	+20 35.2	2.230	3.023	13.8	20.0
9 8	0 43.43	-11 59.4	2.236	3.180	7.6	19.3	9 8	0 45.76	+20 38.9	2.145	3.020	11.3	19.9
9 18	0 37.07	-13 12.1	2.205	3.177	5.5	19.2	9 18	0 38.55	+20 22.9	2.082	3.016	8.4	19.7
9 28	0 29.83	-14 16.8	2.201	3.175	5.2	19.2	9 28	0 30.20	+19 47.2	2.044	3.013	5.9	19.5
10 8	0 22.45	-15 7.8	2.226	3.172	6.9	19.3	10 8	0 21.58	+18 54.7	2.033	3.008	5.0	19.5
10 18	0 15.68	-15 41.0	2.277	3.169	9.5	19.4	10 18	0 13.55	+17 50.3	2.051	3.003	6.7	19.6
10 28	0 10.20	-15 54.3	2.352	3.166	12.0	19.6	10 28	0 6.95	+16 40.9	2.096	2.998	9.5	19.7
11 7	0 6.47	-15 48.0	2.448	3.163	14.2	19.7	11 7	0 2.35	+15 33.6	2.165	2.993	12.3	19.9
135805	2002 <i>RF</i> ₁₂₁		9 30.6 324°88	5.2/ 3.9	18		145058	2005 <i>GM</i> ₁₉		9 30.6 25°16	2.7/29.0	18	
8 29	0 53.54	+13 58.0	1.531	2.376	16.7	18.1	8 29	0 55.36	- 3 37.5	1.300	2.197	15.8	18.2
9 8	0 48.25	+14 51.8	1.445	2.358	13.3	17.8	9 8	0 49.18	- 3 31.7	1.258	2.209	11.4	18.0
9 18	0 40.35	+15 28.9	1.380	2.340	9.5	17.6	9 18	0 40.57	- 3 28.6	1.236	2.223	6.5	17.8
9 28	0 30.59	+15 47.5	1.338	2.323	6.0	17.3	9 28	0 30.60	- 3 23.2	1.240	2.238	2.8	17.6
10 8	0 20.14	+15 48.5	1.322	2.306	5.6	17.3	10 8	0 20.64	- 3 10.7	1.268	2.254	5.5	17.8
10 18	0 10.36	+15 35.7	1.331	2.290	8.9	17.4	10 18	0 12.00	- 2 47.8	1.323	2.272	10.0	18.1
10 28	0 2.56	+15 16.1	1.365	2.275	13.0	17.6	10 28	0 5.68	- 2 12.6	1.400	2.289	14.2	18.4
11 7	23 57.62	+14 57.1	1.420	2.261	16.8	17.8	11 7	0 2.22	- 1 25.2	1.497	2.308	17.6	18.7
213735	2002 <i>VL</i> ₁₄₂		9 30.6 334°40	1.3/29.4	18		166148	2002 <i>EU</i> ₁₄		9 30.6 163°88	2.5/24.6	18	
8 29	0 48.15	+ 2 22.9	1.634	2.520	13.7	20.4	8 29	0 40.80	- 9 45.3	4.734	5.615	5.5	20.4
9 8	0 43.84	+ 1 37.7	1.566	2.514	9.9	20.1	9 8	0 37.46	-10 41.1	4.675	5.616	4.0	20.3
9 18	0 37.53	+ 0 41.3	1.520	2.507	5.6	19.9	9 18	0 33.47	-11 36.3	4.645	5.618	2.8	20.2
9 28	0 29.96	- 0 20.4	1.501	2.501	1.5	19.6	9 28	0 29.11	-12 28.1	4.644	5.619	2.6	20.2
10 8	0 22.12	- 1 20.0	1.507	2.496	4.3	19.8	10 8	0 24.69	-13 14.0	4.674	5.621	3.6	20.2
10 18	0 15.05	- 2 10.3	1.541	2.491	8.8	20.0	10 18	0 20.51	-13 51.8	4.733	5.622	5.0	20.3
10 28	0 9.68	- 2 45.5	1.598	2.486	12.8	20.3	10 28	0 16.88	-14 20.0	4.818	5.623	6.4	20.5
11 7	0 6.61	- 3 2.5	1.676	2.482	16.3	20.5	11 7	0 14.04	-14 38.0	4.927	5.624	7.7	20.6
249037	2007 <i>TL</i> ₂₂		9 30.6 21°54	6.3/27.3	18		232222	2002 <i>JG</i> ₉₉		9 30.6 145°86	6.3/23.6	17	
8 29	0 54.29	- 8 8.4	0.947	1.864	18.4	19.2	8 29	0 51.18	-13 0.0	2.004	2.893	11.5	20.6
9 8	0 49.05	- 8 42.2	0.910	1.870	13.4	18.9	9 8	0 45.61	-14 27.5	1.960	2.900	8.7	20.5
9 18	0 40.72	- 9 14.1	0.892	1.878	8.6	18.7	9 18	0 38.36	-15 50.8	1.942	2.908	6.7	20.4
9 28	0 30.61	- 9 34.0	0.896	1.887	6.3	18.6	9 28	0 30.15	-17 2.0	1.950	2.915	6.5	20.4
10 8	0 20.50	- 9 33.4	0.921	1.898	9.2	18.8	10 8	0 21.86	-17 54.5	1.986	2.921	8.3	20.5
10 18	0 12.04	- 9 8.4	0.968	1.909	13.8	19.1	10 18	0 14.38	-18 24.2	2.047	2.928	10.9	20.7
10 28	0 6.48	- 8 19.2	1.035	1.922	18.3	19.4	10 28	0 8.45	-18 30.2	2.132	2.933	13.5	20.9
11 7	0 4.34	- 7 9.0	1.119	1.935	22.0	19.7	11 7	0 4.56	-18 14.0	2.236	2.938	15.7	21.0
519469	2012 <i>BA</i> ₁₅₈		9 30.6 140°98	1.1/29.2	18		335497	2005 <i>YK</i> ₅		9 30.6 34°13	0.6/30.2	18	
8 29	0 47.55	+ 1 37.7	2.464	3.336	10.2	22.3	8 29	0 52.01	+ 3 17.1	1.174	2.069	17.3	19.7
9 8	0 42.76	+ 0 51.6	2.400	3.341	7.3	22.2	9 8	0 46.97	+ 2 57.0	1.132	2.083	12.5	19.5
9 18	0 36.65	- 0 1.1	2.361	3.346	4.1	22.0	9 18	0 39.39	+ 2 23.8	1.111	2.098	7.0	19.3
9 28	0 29.75	- 0 56.3	2.350	3.350	1.2	21.8	9 28	0 30.37	+ 1 44.0	1.113	2.114	1.4	18.9
10 8	0 22.75	- 1 49.1	2.369	3.355	3.3	21.9	10 8	0 21.32	+ 1 5.5	1.139	2.131	4.5	19.2
10 18	0 16.31	- 2 35.0	2.416	3.359	6.5	22.1	10 18	0 13.59	+ 0 35.7	1.190	2.149	9.8	19.6
10 28	0 11.04	- 3 10.1	2.491	3.363	9.4	22.3	10 28	0 8.23	+ 0 20.3	1.263	2.167	14.4	19.9
11 7	0 7.36	- 3 32.3	2.589	3.367	11.9	22.5	11 7	0 5.78	+ 0 22.0	1.356	2.186	18.1	20.2
253347	2003 <i>FJ</i> ₆₄		9 30.6 170°84	2.0/26.5	18		444908	2007 <i>YF</i> ₅₆		9 30.6 282°55	9.9/10.7	17	
8 29	0 41.82	- 6 31.8	4.453	5.332	5.9	20.2	8 29	0 52.59	+32 40.7	2.160	2.873	16.5	21.0
9 8	0 38.20	- 7 6.4	4.389	5.332	4.2	20.1	9 8	0 47.32	+33 28.2	2.050	2.845	14.7	20.9
9 18	0 33.90	- 7 41.5	4.352	5.333	2.6	20.0	9 18	0 39.77	+33 50.9	1.957	2.817	12.7	20.7
9 28	0 29.19	- 8 14.4	4.345	5.333	2.0	20.0	9 28	0 30.53	+33 44.5	1.886	2.788	10.9	20.5
10 8	0 24.42	- 8 43.0	4.368	5.333	3.0	20.0	10 8	0 20.57	+33 7.3	1.839	2.759	9.9	20.4
10 18	0 19.92	- 9 5.1	4.419	5.334	4.7	20.2	10 18	0 11.03	+32 1.7	1.816	2.730	10.3	20.3
10 28	0 16.02	- 9 19.3	4.499	5.334	6.3	20.3	10 28	0 3.07	+30 34.4	1.819	2.700	11.9	20.4
11 7	0 12.96	- 9 24.9	4.602	5.334	7.7	20.4	11 7	23 57.54	+28 55.2	1.845	2.670	14.2	20.5
433245	2012 <i>VA</i> ₉₆		9 30.6 68°24	4.1/ 5.1	18		346036	2007 <i>TW</i> ₄₁₂		9 30.6 332°28	4.9/26.4	18	
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
117367	2004 <i>XO</i> ₁₀₇		9 30.6 334°90	2°3/28.8	18		247524	2002 <i>QM</i> ₈₇		9 30.6 74°68	1°2/1.6	18	
8 29	0 51.77	- 1 4.4	1.573	2.462	14.0	19.4	8 29	0 53.94	+ 7 3.8	1.761	2.622	14.1	20.7
9 8	0 46.51	- 1 36.9	1.509	2.458	10.1	19.2	9 8	0 47.81	+ 7 5.3	1.703	2.633	10.4	20.5
9 18	0 39.10	- 2 16.3	1.468	2.455	5.7	18.9	9 18	0 39.72	+ 6 54.6	1.667	2.645	6.3	20.3
9 28	0 30.33	- 2 56.8	1.453	2.452	2.4	18.7	9 28	0 30.47	+ 6 34.4	1.657	2.657	2.1	20.1
10 8	0 21.33	- 3 31.5	1.464	2.449	5.1	18.9	10 8	0 21.09	+ 6 9.3	1.676	2.668	3.1	20.2
10 18	0 13.21	- 3 54.6	1.502	2.447	9.5	19.2	10 18	0 12.61	+ 5 44.2	1.722	2.680	7.3	20.5
10 28	0 6.95	- 4 1.9	1.563	2.444	13.5	19.4	10 28	0 5.92	+ 5 24.5	1.794	2.692	11.1	20.7
11 7	0 3.19	- 3 51.9	1.645	2.442	16.9	19.6	11 7	0 1.57	+ 5 13.9	1.889	2.703	14.3	21.0
380080	2013 <i>SH</i> ₄₀		9 30.6 17°89	6°8/29.9	18		203215	2001 <i>EU</i> ₂₄		9 30.6 232°93	7°5/22.3	18	
8 29	1 15.91	-15 59.9	0.856	1.750	22.2	18.9	8 29	0 50.90	-16 22.4	1.933	2.821	11.8	19.7
9 8	1 4.94	-14 21.1	0.815	1.760	16.8	18.7	9 8	0 45.61	-17 51.0	1.880	2.815	9.4	19.5
9 18	0 49.82	-12 19.6	0.793	1.772	11.0	18.4	9 18	0 38.47	-19 13.4	1.851	2.808	7.7	19.4
9 28	0 32.52	- 9 53.3	0.794	1.786	6.9	18.3	9 28	0 30.21	-20 20.8	1.849	2.801	7.9	19.4
10 8	0 15.68	- 7 7.8	0.820	1.802	8.9	18.5	10 8	0 21.78	-21 6.5	1.873	2.794	9.7	19.5
10 18	0 1.61	- 4 13.9	0.872	1.819	14.1	18.8	10 18	0 14.10	-21 26.4	1.922	2.787	12.3	19.7
10 28	23 51.80	- 1 21.4	0.947	1.839	19.0	19.2	10 28	0 8.04	-21 19.7	1.992	2.780	14.8	19.8
11 7	23 46.67	+ 1 23.8	1.040	1.860	23.0	19.5	11 7	0 4.12	-20 48.7	2.081	2.772	17.0	20.0
520305	2014 <i>FN</i> ₇₅		9 30.6 266°62	0°7/29.9	18		1744	Harriet		9 30.6 183°65	1°0/29.8	18	
8 29	0 48.24	+ 5 30.1	1.837	2.710	13.1	21.9	8 29	0 55.48	+ 2 28.0	1.624	2.499	14.4	17.4
9 8	0 43.83	+ 4 22.6	1.755	2.696	9.5	21.6	9 8	0 49.16	+ 1 55.9	1.558	2.499	10.4	17.1
9 18	0 37.54	+ 2 59.9	1.697	2.682	5.4	21.3	9 18	0 40.61	+ 1 13.4	1.515	2.500	5.9	16.9
9 28	0 30.02	+ 1 27.8	1.666	2.667	1.1	21.0	9 28	0 30.68	+ 0 25.7	1.498	2.499	1.4	16.6
10 8	0 22.18	- 0 5.7	1.663	2.653	3.8	21.2	10 8	0 20.50	- 0 20.4	1.509	2.498	4.2	16.8
10 18	0 14.97	- 1 32.1	1.688	2.638	8.2	21.4	10 18	0 11.24	- 0 58.5	1.548	2.497	8.9	17.0
10 28	0 9.27	- 2 43.9	1.739	2.623	12.2	21.6	10 28	0 3.92	- 1 23.2	1.611	2.495	13.0	17.3
11 7	0 5.72	- 3 36.5	1.811	2.608	15.6	21.8	11 7	23 59.16	- 1 31.6	1.695	2.492	16.5	17.5
262902	2007 <i>CQ</i> ₄₄		9 30.6 279°53	3°3/26.8	18		249582	1995 <i>SD</i> ₈₈		9 30.6 48°65	1°5/29.4	18	
8 29	0 47.37	- 3 41.7	2.073	2.962	11.1	21.0	8 29	0 52.68	+ 0 1.6	1.668	2.551	13.7	20.2
9 8	0 42.92	- 4 51.5	2.007	2.956	8.0	20.8	9 8	0 46.83	- 0 17.4	1.625	2.570	9.7	20.0
9 18	0 36.88	- 6 6.1	1.966	2.951	4.8	20.6	9 18	0 39.09	- 0 42.8	1.604	2.590	5.5	19.8
9 28	0 29.87	- 7 18.9	1.953	2.945	3.3	20.5	9 28	0 30.32	- 1 9.6	1.609	2.610	1.7	19.6
10 8	0 22.66	- 8 23.2	1.967	2.940	5.5	20.7	10 8	0 21.57	- 1 32.4	1.642	2.630	4.2	19.9
10 18	0 16.08	- 9 13.5	2.009	2.934	8.8	20.8	10 18	0 13.82	- 1 46.6	1.702	2.650	8.3	20.1
10 28	0 10.84	- 9 45.8	2.076	2.929	11.9	21.0	10 28	0 7.90	- 1 49.0	1.787	2.671	11.9	20.4
11 7	0 7.47	- 9 58.9	2.164	2.923	14.6	21.2	11 7	0 4.28	- 1 38.0	1.893	2.692	14.9	20.7
104018	2000 <i>DF</i> ₁₀₉		9 30.6 141°69	1°2/29.5	17		192942	2000 <i>AB</i> ₂₁₉		9 30.6 331°06	0°4/1.4	18	
8 29	0 52.72	+ 2 36.5	1.769	2.644	13.4	21.2	8 29	0 42.18	+ 6 32.8	4.190	5.038	6.8	20.4
9 8	0 46.91	+ 1 47.8	1.711	2.652	9.6	21.0	9 8	0 38.53	+ 6 14.4	4.110	5.036	5.0	20.3
9 18	0 39.19	+ 0 49.1	1.676	2.661	5.4	20.8	9 18	0 34.14	+ 5 50.4	4.056	5.034	3.0	20.2
9 28	0 30.35	- 0 13.9	1.668	2.668	1.4	20.5	9 28	0 29.30	+ 5 22.5	4.032	5.032	0.9	20.0
10 8	0 21.38	- 1 14.2	1.688	2.676	4.1	20.7	10 8	0 24.37	+ 4 52.9	4.038	5.030	1.5	20.0
10 18	0 13.29	- 2 5.2	1.736	2.682	8.3	21.0	10 18	0 19.71	+ 4 23.9	4.073	5.028	3.6	20.2
10 28	0 6.92	- 2 41.8	1.809	2.689	12.0	21.3	10 28	0 15.67	+ 3 57.9	4.138	5.026	5.6	20.3
11 7	0 2.82	- 3 1.5	1.904	2.694	15.2	21.5	11 7	0 12.53	+ 3 36.8	4.229	5.024	7.4	20.5
35631	1998 <i>KL</i> ₂₄		9 30.6 83°38	3°6/27.1	18		484117	2006 <i>SS</i> ₂₀₆		9 30.6 350°85	0°1/30.8	17	
8 29	0 51.90	- 6 54.3	2.072	2.956	11.3	18.9	8 29	0 46.24	+ 5 34.9	1.336	2.228	15.8	20.7
9 8	0 46.04	- 7 28.9	2.021	2.966	8.2	18.8	9 8	0 42.87	+ 5 10.7	1.270	2.219	11.6	20.5
9 18	0 38.58	- 8 3.6	1.994	2.975	5.1	18.6	9 18	0 37.17	+ 4 30.7	1.225	2.211	6.8	20.2
9 28	0 30.21	- 8 33.1	1.995	2.985	3.7	18.5	9 28	0 29.98	+ 3 40.1	1.203	2.204	1.5	19.8
10 8	0 21.79	- 8 52.7	2.024	2.994	5.6	18.7	10 8	0 22.45	+ 2 46.3	1.206	2.199	3.9	20.0
10 18	0 14.15	- 8 59.0	2.081	3.004	8.6	18.9	10 18	0 15.80	+ 1 57.6	1.234	2.195	9.1	20.3
10 28	0 8.02	- 8 50.3	2.163	3.014	11.5	19.1	10 28	0 11.12	+ 1 21.6	1.284	2.193	13.8	20.5
11 7	0 3.86	- 8 26.6	2.267	3.023	14.0	19.3	11 7	0 9.07	+ 1 3.1	1.355	2.192	17.7	20.8
488306	2016 <i>UH</i> ₆₉		9 30.6 34°70	3°2/28.2	18		441898	2010 <i>EP</i> ₃₃		9 30.6 127°24	0°5/1.1	17	
8 29	0 53.10	- 3 36.2	1.523	2.416	14.2	20.6	8 29	0 55.15	+ 5 33.9	2.167	3.019	12.2	21.4
9 8	0 47.42	- 4 6.5	1.470	2.421	10.2	20.4	9 8	0 48.36	+ 5 27.6	2.106	3.034	8.9	21.2
9 18	0 39.56	- 4 40.6	1.440	2.426	5.9	20.2	9 18	0 39.91	+ 5 12.0	2.070	3.048	5.2	21.0
9 28	0 30.43	- 5 12.1	1.435	2.432	3.2	20.0	9 28	0 30.52	+ 4 49.9	2.062	3.062	1.3	20.8
10 8	0 21.18	- 5 34.7	1.457	2.438	5.8	20.2	10 8	0 21.04	+ 4 25.2	2.084	3.076	2.8	20.9
10 18	0 12.95	- 5 43.3	1.505	2.445	9.9	20.5	10 18	0 12.34	+ 4 2.2	2.135	3.088	6.5	21.2
10 28	0 6.70	- 5 35.3	1.576	2.452	13.7	20.7	10 28	0 5.17	+ 3 44.7	2.214	3.101	9.8	21.4
11 7	0 2.99	- 5 10.3	1.668	2.459	17.0	21.0	11 7	0 0.01	+ 3 35.9	2.317	3.112	12.6	21.6
345011	2005 <i>CM</i> ₂₉		9 30.6 218°16	1°6/28.9	18		55231	2001 <i>RC</i> ₇₄		9 30.6 160°18	2°3/2.9	18	
8 29	0 50.61	+ 0 37.5	2.098	2.973	11.6	21.8	8 29	0 51.56	+12 28.6	1.829	2.673	14.4	19.5
9 8	0 45.27	- 0 8.7	2.024	2.967	8.3	21.6	9 8	0 46.16	+11 59.8	1.759	2.677	11.0	19.3
9 18	0 38.24	- 1 2.5	1.975	2.960	4.7	21.3	9 18	0 38.82	+11 12.7	1.711	2.681	7.1	19.0
9 28	0 30.16	- 1 59.0	1.953	2.953	1.7	21.1	9 28	0 30.31	+10 10.3	1.689	2.684	3.2	18.8
10 8	0 21.86	- 2 52.3	1.960	2.945	4.0	21.3	10 8	0 21.59	+ 8 58.6	1.695	2.687	3.3	18.8
10 18	0 14.18	- 3 36.8	1.996	2.937	7.8	21.5	10 18	0 13.66	+ 7 44.9	1.730	2.690	7.1	19.1
10 28	0 7.91	- 4 8.3	2.058	2.929	11.2	21.7	10 28	0 7.40	+ 6 36.8	1.790	2.692	10.9	19.3
11 7	0 3.58	- 4 24.2	2.142	2.920	14.1	21.9	11 7	0 3.38	+ 5 40.5	1.874	2.694	14.2	19.5
274909	2009 <i>SD</i> ₁₃₄		9 30.6 324°65	1°2/29.3	18		219092	1998 <i>RN</i> ₂₁		9 30.6 260°98	0°0/30.5	17	
8 29	0 45.54	+ 3 0.3	1.891										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
225216	2008 <i>RV</i> ₇₆		9 30.6 356°04	0°4/29.9	18		287954	2003 <i>UJ</i> ₁₀₃		9 30.6 335°16	0°1/30.5	18	
8 29	0 42.65	+ 2 28.0	3.706	4.570	7.3	19.6	8 29	0 46.29	+ 6 45.8	1.461	2.345	15.2	20.3
9 8	0 38.95	+ 2 4.0	3.632	4.569	5.2	19.4	9 8	0 42.77	+ 5 48.7	1.391	2.335	11.1	20.0
9 18	0 34.41	+ 1 35.4	3.585	4.568	2.9	19.3	9 18	0 37.08	+ 4 33.2	1.341	2.326	6.4	19.8
9 28	0 29.36	+ 1 4.5	3.566	4.567	0.6	19.1	9 28	0 29.98	+ 3 5.5	1.317	2.318	1.3	19.4
10 8	0 24.23	+ 0 34.0	3.577	4.566	2.0	19.2	10 8	0 22.57	+ 1 34.9	1.319	2.311	3.9	19.6
10 18	0 19.41	+ 0 6.5	3.619	4.566	4.4	19.4	10 18	0 15.95	+ 0 11.3	1.346	2.304	9.0	19.9
10 28	0 15.30	- 0 15.6	3.688	4.565	6.5	19.5	10 28	0 11.16	- 0 56.6	1.397	2.297	13.5	20.1
11 7	0 12.20	- 0 30.5	3.782	4.565	8.4	19.7	11 7	0 8.84	- 1 43.3	1.469	2.292	17.3	20.3
486091	2012 <i>UC</i> ₁₃₄		9 30.6 79°37	6°5/ 6.9	18		425106	2009 <i>SA</i> ₁₁₉		9 30.6 89°82	0°8/ 1.2	16	
8 29	0 52.64	+21 57.1	1.699	2.501	17.1	19.9	8 29	0 58.69	+ 5 37.0	1.547	2.411	15.6	21.4
9 8	0 47.14	+22 15.8	1.635	2.512	14.0	19.8	9 8	0 51.34	+ 5 40.3	1.498	2.432	11.4	21.2
9 18	0 39.47	+22 9.2	1.591	2.524	10.7	19.6	9 18	0 41.76	+ 5 31.4	1.472	2.452	6.7	21.0
9 28	0 30.45	+21 36.9	1.570	2.535	7.7	19.4	9 28	0 30.93	+ 5 13.6	1.473	2.473	1.8	20.7
10 8	0 21.22	+20 42.3	1.574	2.547	6.6	19.4	10 8	0 20.10	+ 4 52.1	1.501	2.493	3.5	20.9
10 18	0 12.91	+19 32.2	1.605	2.558	8.2	19.5	10 18	0 10.47	+ 4 32.3	1.556	2.513	8.1	21.2
10 28	0 6.52	+18 15.8	1.661	2.569	11.2	19.7	10 28	0 3.00	+ 4 19.1	1.637	2.532	12.2	21.5
11 7	0 2.65	+17 2.3	1.740	2.581	14.2	20.0	11 7	23 58.22	+ 4 16.4	1.740	2.551	15.5	21.8
350572	2000 <i>YR</i> ₉₇		9 30.6 195°61	5°2/ 6.6	18		443214	2014 <i>DN</i> ₈₈		9 30.6 43°32	1°0/ 1.5	18	
8 29	0 52.76	+21 53.7	2.440	3.216	13.2	21.3	8 29	0 51.01	+ 7 46.0	1.593	2.462	14.9	21.0
9 8	0 46.80	+22 4.4	2.351	3.213	10.9	21.2	9 8	0 45.94	+ 7 25.7	1.531	2.466	11.1	20.8
9 18	0 39.14	+21 56.5	2.285	3.210	8.3	21.0	9 18	0 38.77	+ 6 50.1	1.491	2.471	6.6	20.5
9 28	0 30.39	+21 29.4	2.245	3.206	6.0	20.9	9 28	0 30.33	+ 6 3.3	1.477	2.476	2.0	20.3
10 8	0 21.35	+20 45.5	2.232	3.201	5.2	20.8	10 8	0 21.69	+ 5 11.6	1.489	2.482	3.3	20.4
10 18	0 12.86	+19 48.7	2.248	3.196	6.6	20.9	10 18	0 13.94	+ 4 21.9	1.528	2.487	7.9	20.7
10 28	0 5.73	+18 45.4	2.293	3.190	9.1	21.0	10 28	0 8.04	+ 3 40.9	1.591	2.493	12.0	20.9
11 7	0 0.50	+17 42.2	2.362	3.183	11.6	21.2	11 7	0 4.57	+ 3 13.5	1.677	2.499	15.5	21.2
474181	1999 <i>VP</i> ₇₉		9 30.6 15°48	12°6/19.4	17		329518	2002 <i>RL</i> ₂₉₁		9 30.6 352°37	5°1/27.7	18	
8 29	0 29.83	+45 43.8	0.902	1.646	32.5	19.5	8 29	0 53.39	- 6 31.0	1.104	2.013	16.9	19.8
9 8	0 32.07	+44 14.3	0.853	1.663	29.2	19.3	9 8	0 48.38	- 6 57.7	1.050	2.008	12.4	19.6
9 18	0 31.28	+41 26.6	0.814	1.683	24.8	19.1	9 18	0 40.46	- 7 25.5	1.017	2.003	7.7	19.3
9 28	0 28.74	+37 17.3	0.789	1.707	19.9	18.9	9 28	0 30.71	- 7 45.8	1.006	2.000	5.1	19.1
10 8	0 26.08	+31 59.0	0.784	1.735	15.1	18.8	10 8	0 20.66	- 7 50.4	1.018	1.997	8.0	19.3
10 18	0 24.69	+26 1.6	0.803	1.765	12.7	18.8	10 18	0 11.89	- 7 34.3	1.053	1.996	12.8	19.6
10 28	0 25.54	+20 5.8	0.850	1.797	14.0	19.0	10 28	0 5.70	- 6 55.7	1.109	1.995	17.3	19.8
11 7	0 28.97	+14 48.2	0.923	1.832	17.5	19.4	11 7	0 2.77	- 5 56.4	1.182	1.996	21.2	20.1
279128	2009 <i>QW</i> ₁₅		9 30.6 357°97	2°8/28.3	18		206632	2003 <i>WD</i> ₁₆₇		9 30.6 303°49	3°4/27.4	18	
8 29	0 46.43	+ 1 32.9	1.156	2.063	16.5	20.0	8 29	0 48.47	- 2 19.8	1.639	2.533	13.2	20.1
9 8	0 43.18	+ 0 12.7	1.101	2.060	11.8	19.7	9 8	0 44.19	- 3 27.2	1.566	2.518	9.5	19.8
9 18	0 37.40	- 1 22.8	1.067	2.057	6.6	19.4	9 18	0 37.84	- 4 42.7	1.517	2.503	5.6	19.5
9 28	0 30.04	- 3 3.1	1.057	2.056	2.8	19.2	9 28	0 30.15	- 5 58.7	1.493	2.489	3.4	19.4
10 8	0 22.42	- 4 35.3	1.071	2.056	6.4	19.4	10 8	0 22.12	- 7 6.4	1.496	2.474	6.1	19.5
10 18	0 15.87	- 5 48.6	1.108	2.057	11.5	19.7	10 18	0 14.81	- 7 58.5	1.525	2.460	10.2	19.7
10 28	0 11.52	- 6 35.3	1.166	2.058	16.2	20.0	10 28	0 9.19	- 8 29.6	1.578	2.446	14.1	19.9
11 7	0 10.01	- 6 53.2	1.243	2.061	20.1	20.2	11 7	0 5.90	- 8 37.9	1.650	2.432	17.5	20.1
157707	2006 <i>AM</i> ₅₁		9 30.6 122°50	0°3/30.3	18		225226	2008 <i>SH</i> ₂₁₃		9 30.6 273°42	0°1/30.5	18	
8 29	0 48.23	+ 4 19.0	2.561	3.422	10.2	20.9	8 29	0 41.55	+ 4 14.5	4.393	5.250	6.4	21.1
9 8	0 43.22	+ 3 43.0	2.498	3.433	7.4	20.7	9 8	0 38.07	+ 3 47.9	4.312	5.245	4.6	21.0
9 18	0 36.93	+ 2 59.2	2.462	3.444	4.2	20.5	9 18	0 33.89	+ 3 16.6	4.258	5.240	2.6	20.8
9 28	0 29.91	+ 2 11.0	2.453	3.454	0.8	20.3	9 28	0 29.28	+ 2 42.5	4.233	5.234	0.5	20.6
10 8	0 22.81	+ 1 22.9	2.474	3.464	2.6	20.4	10 8	0 24.58	+ 2 8.0	4.239	5.229	1.6	20.7
10 18	0 16.26	+ 0 39.1	2.525	3.474	5.9	20.7	10 18	0 20.14	+ 1 35.2	4.275	5.224	3.7	20.9
10 28	0 10.87	+ 0 3.5	2.603	3.484	8.8	20.9	10 28	0 16.28	+ 1 6.5	4.339	5.219	5.6	21.0
11 7	0 7.03	- 0 21.4	2.705	3.493	11.2	21.1	11 7	0 13.26	+ 0 43.6	4.430	5.214	7.2	21.1
18063	1999 <i>XW</i> ₂₁₁		9 30.6 344°87	3°4/ 6.9	18		513784	2013 <i>AN</i> ₇₇		9 30.6 149°29	3°6/26.9	18	
8 29	0 44.68	+21 5.1	4.105	4.873	8.4	18.2	8 29	0 51.09	- 6 4.4	2.068	2.953	11.3	20.9
9 8	0 40.41	+21 17.5	4.016	4.871	6.9	18.1	9 8	0 45.55	- 6 52.4	2.011	2.957	8.2	20.7
9 18	0 35.26	+21 19.4	3.950	4.870	5.3	18.0	9 18	0 38.37	- 7 41.8	1.978	2.960	5.1	20.6
9 28	0 29.56	+21 10.8	3.912	4.869	3.9	17.9	9 28	0 30.23	- 8 26.9	1.973	2.963	3.7	20.5
10 8	0 23.73	+20 52.9	3.902	4.867	3.4	17.8	10 8	0 21.98	- 9 2.1	1.996	2.966	5.7	20.6
10 18	0 18.17	+20 27.9	3.922	4.866	4.2	17.9	10 18	0 14.46	- 9 23.2	2.046	2.968	8.8	20.8
10 28	0 13.32	+19 58.3	3.970	4.865	5.6	18.0	10 28	0 8.40	- 9 27.9	2.122	2.971	11.8	21.0
11 7	0 9.49	+19 27.2	4.045	4.864	7.2	18.1	11 7	0 4.30	- 9 15.8	2.218	2.973	14.4	21.2
519461	2012 <i>AQ</i> ₂₅		9 30.6 62°18	5°3/ 6.4	17		24172	1999 <i>XG</i> ₁		9 30.6 114°24	5°1/26.2	18	
8 29	0 49.94	+20 38.0	2.149	2.946	14.2	21.4	8 29	0 52.65	- 6 40.4	1.527	2.423	13.9	17.8
9 8	0 44.89	+20 50.2	2.071	2.947	11.6	21.2	9 8	0 47.09	- 7 56.6	1.480	2.430	10.1	17.6
9 18	0 38.09	+20 42.6	2.014	2.949	8.7	21.1	9 18	0 39.39	- 9 14.6	1.456	2.438	6.5	17.4
9 28	0 30.18	+20 15.3	1.983	2.950	6.2	20.9	9 28	0 30.45	-10 25.1	1.457	2.445	5.2	17.4
10 8	0 22.02	+19 30.7	1.978	2.952	5.3	20.9	10 8	0 21.42	-11 19.6	1.485	2.451	7.7	17.6
10 18	0 14.49	+18 33.9	2.000	2.953	6.9	21.0	10 18	0 13.42	-11 52.3	1.539	2.458	11.3	17.8
10 28	0 8.42	+17 31.6	2.050	2.955	9.6	21.1	10 28	0 7.39	-12 0.8	1.615	2.464	14.8	18.0
11 7	0 4.35	+16 30.7	2.123	2.956	12.3	21.3	11 7	0 3.86	-11 45.9	1.710	2.471	17.8	18.3
488899	2005 <i>TD</i> ₆₃		9 30.6 355°02	3°0/28.8	18		515664	2014 <i>OV</i> ₂₄₅		9 30.6 101°47	1°4/ 2.0	18	
8 29													

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
175477	2006 <i>RG</i> ₆		9 30.6 24°55'	0.7/30.0	18		60431	2000 <i>CO</i> ₅₈		9 30.6 116°59'	5.2/26.1	18	
8 29	0 50.70	+ 2 41.3	1.673	2.554	13.7	20.0	8 29	0 54.44	- 8 35.3	1.684	2.574	13.2	18.5
9 8	0 45.60	+ 2 18.6	1.614	2.558	9.9	19.8	9 8	0 48.17	- 9 38.5	1.640	2.587	9.6	18.3
9 18	0 38.54	+ 1 46.3	1.577	2.562	5.6	19.6	9 18	0 39.93	-10 40.6	1.620	2.599	6.4	18.1
9 28	0 30.29	+ 1 9.1	1.565	2.567	1.2	19.3	9 28	0 30.59	-11 33.7	1.627	2.611	5.3	18.1
10 8	0 21.87	+ 0 32.9	1.581	2.572	3.8	19.5	10 8	0 21.23	-12 10.9	1.661	2.622	7.4	18.2
10 18	0 14.31	+ 0 3.3	1.624	2.577	8.2	19.8	10 18	0 12.89	-12 28.0	1.721	2.634	10.7	18.5
10 28	0 8.49	- 0 14.9	1.692	2.583	12.1	20.0	10 28	0 6.44	-12 23.5	1.804	2.645	13.9	18.7
11 7	0 4.97	- 0 18.9	1.781	2.589	15.3	20.3	11 7	0 2.37	-11 58.6	1.907	2.655	16.6	18.9
356436	2010 <i>WA</i> ₅		9 30.6 278°26'	0.2/30.3	15		13215	1997 <i>JT</i> ₁₆		9 30.6 357°53'	6.4/24.2	18	
8 29	0 42.50	+ 3 18.1	4.276	5.134	6.5	21.2	8 29	0 48.27	-12 32.6	1.777	2.675	12.2	17.4
9 8	0 38.77	+ 2 58.1	4.197	5.130	4.7	21.1	9 8	0 43.79	-13 42.2	1.727	2.673	9.2	17.2
9 18	0 34.29	+ 2 33.9	4.144	5.126	2.7	20.9	9 18	0 37.48	-14 48.1	1.700	2.672	6.9	17.1
9 28	0 29.37	+ 2 7.3	4.121	5.122	0.5	20.7	9 28	0 30.10	-15 42.0	1.699	2.671	6.6	17.1
10 8	0 24.37	+ 1 40.6	4.128	5.118	1.7	20.8	10 8	0 22.57	-16 17.4	1.724	2.670	8.6	17.2
10 18	0 19.63	+ 1 15.8	4.166	5.114	3.8	21.0	10 18	0 15.85	-16 30.2	1.773	2.670	11.5	17.4
10 28	0 15.50	+ 0 55.1	4.232	5.110	5.7	21.1	10 28	0 10.75	-16 19.1	1.845	2.671	14.3	17.6
11 7	0 12.25	+ 0 40.2	4.323	5.106	7.4	21.3	11 7	0 7.79	-15 45.8	1.936	2.672	16.8	17.8
101043	1998 <i>QP</i> ₉₉		9 30.6 331°73'	2.5/28.8	18		108361	2001 <i>KW</i> ₁₄		9 30.6 44°37'	6.3/25.6	18	
8 29	0 47.84	+ 0 57.4	1.171	2.076	16.5	18.7	8 29	0 52.53	-11 13.2	1.540	2.437	13.7	18.7
9 8	0 44.36	+ 0 5.6	1.104	2.061	11.9	18.4	9 8	0 46.92	-12 9.2	1.502	2.450	10.2	18.5
9 18	0 38.21	- 1 0.1	1.058	2.048	6.8	18.1	9 18	0 39.25	-13 0.8	1.487	2.462	7.2	18.3
9 28	0 30.28	- 2 11.6	1.035	2.035	2.5	17.8	9 28	0 30.46	-13 39.9	1.497	2.476	6.4	18.3
10 8	0 21.87	- 3 18.0	1.035	2.023	6.0	18.0	10 8	0 21.69	-14 0.0	1.533	2.489	8.5	18.5
10 18	0 14.43	- 4 9.5	1.059	2.012	11.5	18.2	10 18	0 14.01	-13 57.9	1.593	2.503	11.6	18.7
10 28	0 9.24	- 4 38.4	1.104	2.002	16.5	18.5	10 28	0 8.30	-13 33.1	1.676	2.518	14.8	19.0
11 7	0 7.05	- 4 41.8	1.167	1.993	20.7	18.8	11 7	0 5.04	-12 48.0	1.778	2.532	17.4	19.2
149315	2002 <i>UL</i> ₃₄		9 30.6 323°01'	4.5/27.4	18		2846	<i>Ylppö</i>		9 30.6 143°23'	3.0/26.6	18	
8 29	0 51.58	- 4 41.6	1.277	2.181	15.5	19.5	8 29	0 46.81	- 4 42.8	2.519	3.402	9.6	16.7
9 8	0 46.88	- 5 31.5	1.214	2.170	11.3	19.2	9 8	0 42.27	- 5 49.1	2.460	3.407	6.8	16.5
9 18	0 39.57	- 6 26.6	1.172	2.159	6.9	18.9	9 18	0 36.45	- 6 58.0	2.428	3.411	4.2	16.4
9 28	0 30.55	- 7 18.1	1.154	2.148	4.5	18.8	9 28	0 29.88	- 8 4.1	2.424	3.414	3.1	16.3
10 8	0 21.15	- 8 7.7	1.161	2.139	7.5	18.9	10 8	0 23.20	- 9 2.2	2.449	3.418	4.9	16.4
10 18	0 12.76	- 8 15.4	1.191	2.129	12.1	19.1	10 18	0 17.07	- 9 48.0	2.503	3.421	7.6	16.6
10 28	0 6.59	- 8 10.3	1.243	2.121	16.5	19.4	10 28	0 12.06	-10 18.5	2.582	3.425	10.2	16.8
11 7	0 3.36	- 7 41.3	1.313	2.113	20.2	19.6	11 7	0 8.60	-10 32.9	2.684	3.428	12.4	17.0
82735	2001 <i>PA</i> ₆₂		9 30.6 25°53'	2.0/28.7	18		72430	2001 <i>CY</i> ₄₁		9 30.6 123°60'	5.1/ 8.7	18	
8 29	0 47.92	+ 1 10.7	1.742	2.628	13.0	19.6	8 29	0 51.74	+26 14.9	3.264	3.995	11.1	20.2
9 8	0 43.54	+ 0 7.9	1.683	2.631	9.3	19.3	9 8	0 45.63	+26 28.8	3.192	4.016	9.3	20.1
9 18	0 37.34	- 1 4.5	1.647	2.634	5.2	19.1	9 18	0 38.31	+26 26.5	3.144	4.036	7.4	20.0
9 28	0 30.05	- 2 19.6	1.638	2.637	2.0	18.9	9 28	0 30.27	+26 8.0	3.122	4.056	5.8	19.9
10 8	0 22.60	- 3 29.7	1.656	2.641	4.6	19.1	10 8	0 22.14	+25 34.8	3.127	4.075	5.1	19.9
10 18	0 15.93	- 4 28.0	1.701	2.644	8.7	19.4	10 18	0 14.52	+24 49.9	3.163	4.094	5.7	19.9
10 28	0 10.86	- 5 9.2	1.770	2.648	12.3	19.6	10 28	0 7.97	+23 57.6	3.226	4.111	7.1	20.0
11 7	0 7.92	- 5 30.9	1.861	2.652	15.4	19.8	11 7	0 2.92	+23 2.9	3.316	4.129	8.8	20.2
250270	2003 <i>FO</i> ₄₃		9 30.6 180°02'	0.1/30.8	18		360067	2013 <i>AU</i> ₁₁₅		9 30.6 268°22'	1.0/ 1.8	18	
8 29	0 49.39	+ 5 37.6	2.245	3.106	11.5	20.7	8 29	0 54.49	+ 7 15.3	2.026	2.878	12.9	21.3
9 8	0 44.30	+ 5 8.6	2.173	3.107	8.4	20.5	9 8	0 48.38	+ 7 22.3	1.933	2.859	9.7	21.0
9 18	0 37.68	+ 4 29.6	2.126	3.107	4.9	20.3	9 18	0 40.25	+ 7 18.5	1.863	2.839	6.0	20.8
9 28	0 30.12	+ 3 44.1	2.106	3.107	1.1	20.0	9 28	0 30.74	+ 7 5.5	1.820	2.819	2.1	20.5
10 8	0 22.39	+ 2 56.7	2.116	3.107	2.8	20.2	10 8	0 20.76	+ 6 46.6	1.806	2.799	3.0	20.5
10 18	0 15.26	+ 2 12.5	2.154	3.107	6.4	20.4	10 18	0 11.31	+ 6 26.2	1.821	2.778	7.1	20.7
10 28	0 9.44	+ 1 36.1	2.219	3.106	9.7	20.6	10 28	0 3.36	+ 6 9.2	1.863	2.757	11.0	20.9
11 7	0 5.41	+ 1 10.9	2.307	3.106	12.6	20.8	11 7	23 57.60	+ 5 59.7	1.928	2.736	14.4	21.1
496630	2015 <i>TV</i> ₂₁₉		9 30.6 4°69'	1.4/29.3	15		481629	2007 <i>US</i> ₁₃₃		9 30.7 311°06'	3.9/27.3	18	
8 29	0 49.19	+ 1 12.4	1.805	2.687	12.8	21.5	8 29	0 50.47	- 4 51.5	1.645	2.540	13.2	21.2
9 8	0 44.43	+ 0 38.7	1.741	2.687	9.2	21.3	9 8	0 45.64	- 5 39.0	1.575	2.526	9.6	20.9
9 18	0 37.85	- 0 3.2	1.701	2.688	5.2	21.0	9 18	0 38.70	- 6 30.6	1.527	2.512	5.8	20.7
9 28	0 30.16	- 0 48.2	1.688	2.688	1.5	20.8	9 28	0 30.40	- 7 19.3	1.506	2.499	3.9	20.5
10 8	0 22.29	- 1 30.3	1.702	2.689	4.1	21.0	10 8	0 21.78	- 7 57.7	1.511	2.486	6.4	20.7
10 18	0 15.17	- 2 4.1	1.742	2.691	8.1	21.2	10 18	0 13.92	- 8 20.1	1.541	2.474	10.3	20.9
10 28	0 9.64	- 2 24.9	1.808	2.692	11.8	21.5	10 28	0 7.80	- 8 22.8	1.595	2.462	14.1	21.1
11 7	0 6.23	- 2 30.5	1.896	2.694	14.9	21.7	11 7	0 4.08	- 8 5.1	1.669	2.450	17.4	21.3
193502	2000 <i>YR</i> ₂₄		9 30.6 323°11'	1.2/ 1.6	18		241958	2002 <i>ED</i> ₇₂		9 30.7 282°26'	0.5/ 1.6	18	
8 29	0 48.87	+ 7 40.6	1.386	2.265	16.1	19.3	8 29	0 44.47	+ 6 13.9	4.301	5.145	6.8	20.0
9 8	0 44.91	+ 7 26.5	1.306	2.247	12.1	19.0	9 8	0 40.20	+ 6 10.3	4.213	5.137	5.0	19.9
9 18	0 38.48	+ 6 54.9	1.247	2.229	7.4	18.7	9 18	0 35.15	+ 6 1.6	4.153	5.129	3.0	19.7
9 28	0 30.35	+ 6 9.1	1.212	2.212	2.3	18.3	9 28	0 29.61	+ 5 49.3	4.121	5.121	0.9	19.6
10 8	0 21.69	+ 5 15.7	1.202	2.196	3.8	18.4	10 8	0 23.97	+ 5 35.1	4.121	5.113	1.5	19.6
10 18	0 13.80	+ 4 22.9	1.217	2.180	9.0	18.6	10 18	0 18.58	+ 5 20.9	4.151	5.105	3.6	19.8
10 28	0 7.89	+ 3 39.2	1.255	2.165	13.9	18.9	10 28	0 13.81	+ 5 8.7	4.210	5.097	5.5	19.9
11 7	0 4.76	+ 3 10.8	1.314	2.151	18.1	19.1	11 7	0 9.96	+ 5 0.5	4.295	5.089	7.3	20.0
2289	<i>McMillan</i>		9 30.6 122°29'	0.0/30.5	18		319449	2006 <i>KN</i> ₆₉		9 30.7 152°76'	2.5/28.1	18	
8 29	0 51.09	+ 5 58.0	1.974	2.837	12.7								

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
427669	2004 <i>BE</i> ₈₃		9 30.7 201°00	3°2/27.8	17		220771	2004 <i>TK</i> ₁₃₀		9 30.7 41°48	0°6/29.9	18	
8 29	0 52.92	- 2 29.6	1.662	2.549	13.5	21.5	8 29	0 46.61	+ 5 1.4	2.051	2.923	12.0	20.3
9 8	0 47.31	- 3 29.1	1.599	2.547	9.7	21.3	9 8	0 42.40	+ 4 1.4	1.987	2.927	8.6	20.1
9 18	0 39.60	- 4 35.1	1.559	2.544	5.7	21.0	9 18	0 36.64	+ 2 50.0	1.947	2.931	4.9	19.9
9 28	0 30.58	- 5 40.2	1.546	2.541	3.2	20.9	9 28	0 29.96	+ 1 32.4	1.934	2.935	1.0	19.6
10 8	0 21.34	- 6 36.7	1.560	2.538	5.9	21.1	10 8	0 23.14	+ 0 15.4	1.949	2.939	3.3	19.8
10 18	0 12.96	- 7 17.9	1.600	2.534	9.9	21.3	10 18	0 16.97	- 0 54.6	1.993	2.943	7.1	20.1
10 28	0 6.39	- 7 39.6	1.665	2.530	13.7	21.5	10 28	0 12.14	- 1 52.1	2.063	2.948	10.5	20.3
11 7	0 2.23	- 7 40.7	1.750	2.525	16.9	21.7	11 7	0 9.14	- 2 33.5	2.156	2.952	13.4	20.5
298092	2002 <i>RH</i> ₄₅		9 30.7 14°48	3°6/ 2.8	18		68085	2000 <i>YH</i> ₁₀₄		9 30.7 135°70	5°5/ 7.8	18	
8 29	0 58.83	+ 9 38.7	1.551	2.403	16.2	19.4	8 29	0 54.09	+24 44.6	2.973	3.716	11.8	18.7
9 8	0 51.85	+10 38.1	1.484	2.405	12.4	19.2	9 8	0 47.51	+25 18.5	2.896	3.729	9.9	18.6
9 18	0 42.34	+11 24.3	1.439	2.408	8.2	19.0	9 18	0 39.49	+25 36.1	2.842	3.741	7.9	18.5
9 28	0 31.19	+11 56.5	1.419	2.411	4.3	18.8	9 28	0 30.57	+25 36.7	2.814	3.752	6.2	18.4
10 8	0 19.68	+12 16.1	1.427	2.415	4.4	18.8	10 8	0 21.46	+25 21.2	2.814	3.763	5.5	18.4
10 18	0 9.14	+12 26.3	1.461	2.420	8.3	19.0	10 18	0 12.87	+24 52.3	2.843	3.774	6.2	18.4
10 28	0 0.75	+12 32.5	1.522	2.425	12.3	19.3	10 28	0 5.45	+24 14.3	2.901	3.784	7.9	18.6
11 7	23 55.21	+12 40.1	1.604	2.431	15.9	19.5	11 7	23 59.70	+23 32.7	2.984	3.794	9.7	18.7
134185	2005 <i>CV</i> ₄₃		9 30.7 67°17	4°9/25.5	18		462264	2008 <i>EO</i> ₇₃		9 30.7 356°12	7°8/22.1	17	
8 29	0 48.71	- 6 14.4	1.718	2.614	12.6	19.7	8 29	0 43.16	+ 0 37.6	0.890	1.815	18.4	19.8
9 8	0 44.14	- 7 46.5	1.666	2.618	9.1	19.5	9 8	0 41.34	- 3 58.8	0.843	1.812	12.9	19.5
9 18	0 37.71	- 9 21.4	1.639	2.621	5.9	19.3	9 18	0 36.60	- 9 2.2	0.821	1.810	8.4	19.2
9 28	0 30.18	-10 50.0	1.639	2.625	5.0	19.3	9 28	0 30.00	-13 59.8	0.825	1.809	8.9	19.3
10 8	0 22.52	-12 3.8	1.666	2.628	7.3	19.4	10 8	0 23.08	-18 17.8	0.854	1.808	13.7	19.5
10 18	0 15.68	-12 56.5	1.718	2.632	10.7	19.7	10 18	0 17.40	-21 34.3	0.906	1.809	19.0	19.8
10 28	0 10.49	-13 24.8	1.794	2.636	13.9	19.9	10 28	0 14.25	-23 42.1	0.975	1.810	23.4	20.1
11 7	0 7.47	-13 28.9	1.889	2.639	16.7	20.1	11 7	0 14.30	-24 47.0	1.058	1.811	26.9	20.4
238578	2004 <i>XJ</i> ₁₂₆		9 30.7 215°24	6°9/22.9	18		104763	2000 <i>HT</i> ₂₂		9 30.7 173°31	0°3/30.4	17	
8 29	0 52.30	-16 10.9	2.104	2.986	11.2	21.0	8 29	0 52.64	+ 4 36.5	1.703	2.575	14.0	19.9
9 8	0 46.54	-17 27.4	2.047	2.980	8.9	20.8	9 8	0 47.07	+ 4 2.0	1.637	2.576	10.2	19.7
9 18	0 39.03	-18 38.0	2.016	2.973	7.2	20.7	9 18	0 39.45	+ 3 15.4	1.594	2.577	5.8	19.4
9 28	0 30.47	-19 35.1	2.012	2.966	7.2	20.7	9 28	0 30.58	+ 2 21.5	1.577	2.578	1.2	19.1
10 8	0 21.73	-20 12.6	2.035	2.958	8.9	20.8	10 8	0 21.48	+ 1 26.8	1.588	2.579	3.6	19.3
10 18	0 13.71	-20 27.0	2.083	2.950	11.4	20.9	10 18	0 13.22	+ 0 38.1	1.626	2.579	8.1	19.6
10 28	0 7.21	-20 17.5	2.154	2.942	13.8	21.1	10 28	0 6.73	+ 0 1.3	1.690	2.579	12.2	19.8
11 7	0 2.75	-19 45.8	2.244	2.933	16.0	21.3	11 7	0 2.60	- 0 20.0	1.775	2.579	15.6	20.1
284530	2007 <i>RS</i> ₁₄₅		9 30.7 9°60	3°1/ 2.6	18		300827	2007 <i>XT</i> ₁₇		9 30.7 329°32	2°9/ 3.4	18	
8 29	0 50.79	+ 9 2.9	1.149	2.032	18.4	18.6	8 29	0 50.20	+12 50.4	1.814	2.659	14.5	20.4
9 8	0 46.44	+ 9 38.3	1.096	2.035	14.0	18.3	9 8	0 45.31	+12 43.7	1.740	2.657	11.2	20.2
9 18	0 39.36	+ 9 55.6	1.062	2.040	9.0	18.1	9 18	0 38.46	+12 19.3	1.687	2.654	7.4	20.0
9 28	0 30.56	+ 9 56.0	1.050	2.046	4.1	17.8	9 28	0 30.38	+11 39.2	1.660	2.652	3.8	19.8
10 8	0 21.49	+ 9 44.1	1.062	2.054	4.4	17.9	10 8	0 22.01	+10 48.0	1.660	2.650	3.6	19.8
10 18	0 13.60	+ 9 26.5	1.097	2.064	9.2	18.2	10 18	0 14.36	+ 9 52.0	1.687	2.648	7.1	20.0
10 28	0 8.12	+ 9 10.8	1.155	2.075	13.9	18.5	10 28	0 8.34	+ 8 58.3	1.740	2.647	10.8	20.2
11 7	0 5.73	+ 9 3.4	1.232	2.087	17.9	18.8	11 7	0 4.55	+ 8 13.2	1.815	2.645	14.2	20.4
256489	2007 <i>EJ</i> ₁₄		9 30.7 189°55	0°2/30.9	18		92256	2000 <i>AX</i> ₂₀₀		9 30.7 358°03	2°8/ 3.7	18	
8 29	0 51.02	+ 4 52.1	2.277	3.137	11.4	20.4	8 29	0 45.04	+14 0.7	1.675	2.528	15.1	18.7
9 8	0 45.48	+ 4 41.5	2.204	3.136	8.3	20.2	9 8	0 41.67	+13 29.0	1.604	2.525	11.6	18.4
9 18	0 38.38	+ 4 22.3	2.155	3.136	4.8	20.0	9 18	0 36.40	+12 35.9	1.554	2.523	7.7	18.2
9 28	0 30.33	+ 3 57.3	2.135	3.135	1.1	19.7	9 28	0 29.94	+11 24.5	1.528	2.522	3.9	18.0
10 8	0 22.09	+ 3 30.4	2.143	3.135	2.7	19.8	10 8	0 23.23	+10 1.5	1.529	2.521	3.5	18.0
10 18	0 14.45	+ 3 5.7	2.181	3.134	6.3	20.1	10 18	0 17.26	+ 8 35.0	1.556	2.521	7.2	18.2
10 28	0 8.13	+ 2 47.0	2.245	3.133	9.6	20.3	10 28	0 12.89	+ 7 14.2	1.609	2.523	11.1	18.4
11 7	0 3.63	+ 2 37.4	2.333	3.132	12.4	20.5	11 7	0 10.71	+ 6 6.2	1.684	2.525	14.6	18.7
136532	2006 <i>HL</i> ₁₁		9 30.7 82°93	7°5/24.6	18		484800	2009 <i>DJ</i> ₈₈		9 30.7 272°06	3°5/26.9	18	
8 29	0 55.60	-16 3.8	1.718	2.604	13.2	19.5	8 29	0 48.94	- 3 13.8	1.903	2.792	11.9	21.3
9 8	0 49.05	-16 54.8	1.675	2.610	10.2	19.4	9 8	0 44.35	- 4 30.4	1.825	2.774	8.6	21.0
9 18	0 40.47	-17 37.3	1.655	2.617	8.0	19.2	9 18	0 37.92	- 5 54.0	1.772	2.757	5.2	20.8
9 28	0 30.76	-18 3.6	1.660	2.623	7.6	19.2	9 28	0 30.27	- 7 17.5	1.746	2.738	3.6	20.6
10 8	0 21.03	-18 8.1	1.692	2.629	9.4	19.4	10 8	0 22.30	- 8 32.6	1.747	2.720	6.0	20.8
10 18	0 12.36	-17 48.7	1.748	2.636	12.1	19.5	10 18	0 14.92	- 9 32.6	1.776	2.702	9.7	20.9
10 28	0 5.62	-17 6.2	1.828	2.642	14.9	19.7	10 28	0 9.01	-10 12.3	1.829	2.683	13.2	21.1
11 7	0 1.33	-16 3.8	1.926	2.648	17.3	19.9	11 7	0 5.19	-10 30.1	1.903	2.664	16.2	21.3
162822	2001 <i>BD</i> ₄₉		9 30.7 287°23	2°3/25.6	18		340111	2005 <i>WZ</i> ₁₅₅		9 30.7 299°59	1°4/28.5	16	
8 29	0 41.16	- 6 55.1	4.242	5.123	6.1	19.6	8 29	0 44.46	+ 0 14.6	2.888	3.762	8.8	21.0
9 8	0 37.85	- 7 53.7	4.174	5.118	4.4	19.4	9 8	0 40.59	- 0 36.4	2.796	3.739	6.3	20.8
9 18	0 33.82	- 8 53.2	4.134	5.112	2.8	19.3	9 18	0 35.55	- 1 33.6	2.731	3.716	3.6	20.6
9 28	0 29.35	- 9 50.4	4.123	5.107	2.4	19.3	9 28	0 29.75	- 2 33.1	2.695	3.693	1.4	20.4
10 8	0 24.79	-10 42.2	4.143	5.102	3.5	19.4	10 8	0 23.74	- 3 30.5	2.688	3.670	3.3	20.5
10 18	0 20.49	-11 26.1	4.192	5.097	5.2	19.5	10 18	0 18.07	- 4 21.5	2.710	3.647	6.1	20.7
10 28	0 16.79	-12 0.2	4.269	5.092	6.8	19.6	10 28	0 13.30	- 5 2.4	2.759	3.624	8.9	20.8
11 7	0 13.97	-12 23.4	4.368	5.087	8.3	19.7	11 7	0 9.86	- 5 30.8	2.832	3.602	11.2	20.9
156645	2002 <i>JS</i> ₃₃		9 30.7 103°23	5°1/25.1	18		402047	2003 <i>SR</i> ₂₈₈		9 30.7 336°66	3°3/27.9	16	
8 29	0 50.66												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
182066	2000 <i>EF</i> ₁₅₉		9 30.7 97°90	1.7°/29.1	17		481258	2005 <i>WR</i> ₂₀₅		9 30.7 222°41	0°5/29.9	18	
8 29	0 51.69	+ 2 40.0	1.574	2.456	14.4	20.7	8 29	0 48.36	+ 3 13.1	2.944	3.803	9.1	23.1
9 8	0 46.34	+ 1 32.0	1.525	2.470	10.3	20.5	9 8	0 43.34	+ 2 35.2	2.857	3.791	6.6	22.9
9 18	0 38.98	+ 0 12.8	1.499	2.485	5.7	20.3	9 18	0 37.10	+ 1 50.3	2.797	3.779	3.7	22.7
9 28	0 30.47	- 1 10.1	1.499	2.499	1.7	20.1	9 28	0 30.10	+ 1 1.5	2.766	3.767	0.8	22.4
10 8	0 21.91	- 2 27.9	1.527	2.513	4.6	20.3	10 8	0 22.91	+ 0 12.7	2.766	3.754	2.6	22.6
10 18	0 14.34	- 3 32.9	1.581	2.527	9.0	20.6	10 18	0 16.11	- 0 32.0	2.795	3.741	5.6	22.7
10 28	0 8.64	- 4 19.4	1.660	2.540	12.9	20.9	10 28	0 10.28	- 1 9.2	2.853	3.727	8.3	22.9
11 7	0 5.32	- 4 45.2	1.760	2.554	16.1	21.1	11 7	0 5.84	- 1 36.2	2.935	3.712	10.7	23.1
397374	2006 <i>UD</i> ₂₇₆		9 30.7 7°49	0°4/ 1.0	18		439615	2014 <i>EX</i> ₄₄		9 30.7 24°44	4°0/26.6	18	
8 29	0 48.05	+ 7 1.3	1.708	2.580	13.9	21.2	8 29	0 45.38	- 0 46.8	1.372	2.277	14.6	20.2
9 8	0 43.75	+ 6 22.0	1.643	2.581	10.2	21.0	9 8	0 42.04	- 2 42.7	1.327	2.285	10.3	20.0
9 18	0 37.55	+ 5 27.9	1.599	2.582	6.0	20.8	9 18	0 36.63	- 4 48.6	1.305	2.293	6.0	19.8
9 28	0 30.19	+ 4 24.0	1.582	2.583	1.5	20.5	9 28	0 30.00	- 6 52.7	1.308	2.303	4.0	19.7
10 8	0 22.62	+ 3 17.1	1.592	2.584	3.2	20.6	10 8	0 23.26	- 8 42.6	1.338	2.313	7.1	19.9
10 18	0 15.81	+ 2 14.5	1.628	2.586	7.7	20.9	10 18	0 17.48	- 10 8.8	1.392	2.324	11.2	20.1
10 28	0 10.65	+ 1 22.9	1.690	2.588	11.7	21.1	10 28	0 13.55	- 11 5.9	1.469	2.336	15.1	20.4
11 7	0 7.67	+ 0 46.8	1.774	2.591	15.0	21.3	11 7	0 12.00	- 11 33.2	1.564	2.348	18.2	20.7
50396	2000 <i>CT</i> ₉₄		9 30.7 232°11	2°2/28.5	18		244872	2003 <i>UC</i> ₂₄₄		9 30.7 276°94	4°5/ 5.4	18	
8 29	0 51.06	+ 0 47.5	1.741	2.623	13.2	19.4	8 29	0 49.09	+ 18 26.4	1.863	2.682	15.2	20.4
9 8	0 45.98	- 0 19.8	1.668	2.615	9.5	19.1	9 8	0 44.57	+ 18 13.0	1.779	2.675	12.2	20.2
9 18	0 38.87	- 1 37.6	1.620	2.606	5.4	18.9	9 18	0 38.09	+ 17 37.0	1.717	2.667	8.8	20.0
9 28	0 30.48	- 2 59.1	1.598	2.596	2.2	18.6	9 28	0 30.34	+ 16 39.4	1.679	2.660	5.6	19.8
10 8	0 21.79	- 4 15.9	1.604	2.587	5.0	18.8	10 8	0 22.25	+ 15 24.6	1.667	2.652	4.7	19.7
10 18	0 13.83	- 5 20.4	1.637	2.577	9.2	19.0	10 18	0 14.83	+ 13 59.6	1.684	2.644	7.2	19.9
10 28	0 7.55	- 6 6.7	1.695	2.566	13.1	19.3	10 28	0 9.00	+ 12 33.3	1.726	2.637	10.7	20.1
11 7	0 3.55	- 6 32.1	1.773	2.555	16.4	19.5	11 7	0 5.40	+ 11 14.0	1.792	2.629	14.0	20.3
172311	2002 <i>TO</i> ₂₇₅		9 30.7 36°84	3°3/ 3.9	18		115857	2003 <i>UA</i> ₂₇₃		9 30.7 292°66	2°5/28.3	18	
8 29	0 47.98	+ 14 55.4	1.505	2.356	16.6	19.0	8 29	0 49.95	- 1 5.5	1.747	2.634	12.9	19.5
9 8	0 43.84	+ 14 25.4	1.450	2.369	12.8	18.8	9 8	0 45.13	- 1 57.6	1.680	2.628	9.3	19.2
9 18	0 37.63	+ 13 32.1	1.416	2.383	8.5	18.6	9 18	0 38.36	- 2 57.2	1.636	2.622	5.3	19.0
9 28	0 30.20	+ 12 19.2	1.405	2.397	4.5	18.4	9 28	0 30.39	- 3 57.8	1.619	2.616	2.5	18.8
10 8	0 22.65	+ 10 54.1	1.421	2.412	3.9	18.4	10 8	0 22.17	- 4 52.3	1.629	2.611	5.1	19.0
10 18	0 16.06	+ 9 26.1	1.462	2.427	7.6	18.7	10 18	0 14.69	- 5 34.2	1.665	2.605	9.1	19.2
10 28	0 11.34	+ 8 4.7	1.529	2.443	11.6	19.0	10 28	0 8.85	- 5 59.2	1.726	2.599	12.9	19.4
11 7	0 9.02	+ 6 57.3	1.618	2.459	15.1	19.2	11 7	0 5.24	- 6 5.2	1.808	2.594	16.0	19.6
325724	2009 <i>UC</i> ₁₄₁		9 30.7 190°83	1°1/ 2.2	18		63202	2000 <i>YR</i> ₁₃₁		9 30.7 296°30	0°5/29.7	18	
8 29	0 46.01	+ 10 58.3	2.465	3.309	11.2	20.5	8 29	0 42.34	+ 1 57.6	4.134	4.997	6.6	19.4
9 8	0 41.80	+ 10 3.8	2.388	3.309	8.3	20.3	9 8	0 38.73	+ 1 31.4	4.054	4.991	4.7	19.2
9 18	0 36.26	+ 8 55.3	2.335	3.308	5.2	20.1	9 18	0 34.35	+ 1 1.2	4.002	4.985	2.6	19.1
9 28	0 29.91	+ 7 36.3	2.310	3.308	1.9	19.8	9 28	0 29.51	+ 0 29.2	3.979	4.980	0.6	18.9
10 8	0 23.40	+ 6 12.2	2.314	3.307	2.4	19.9	10 8	0 24.58	- 0 2.3	3.986	4.974	1.9	19.0
10 18	0 17.42	+ 4 49.0	2.349	3.306	5.6	20.1	10 18	0 19.92	- 0 30.9	4.023	4.968	4.0	19.2
10 28	0 12.56	+ 3 32.6	2.411	3.305	8.8	20.3	10 28	0 15.88	- 0 54.4	4.089	4.963	6.0	19.3
11 7	0 9.29	+ 2 27.6	2.498	3.305	11.5	20.5	11 7	0 12.74	- 1 11.1	4.179	4.957	7.7	19.4
510050	2010 <i>EH</i> ₁₀₇		9 30.7 161°35	0°3/ 1.0	18		477018	2008 <i>YQ</i> ₁₆₀		9 30.7 263°59	1°1/29.6	18	
8 29	0 52.18	+ 6 5.1	2.101	2.959	12.3	22.2	8 29	0 50.50	+ 2 45.9	2.091	2.961	11.8	22.0
9 8	0 46.41	+ 5 40.0	2.032	2.964	9.0	22.0	9 8	0 45.42	+ 1 59.6	1.999	2.939	8.6	21.7
9 18	0 38.95	+ 5 4.1	1.988	2.968	5.3	21.8	9 18	0 38.54	+ 1 2.9	1.932	2.917	4.9	21.5
9 28	0 30.48	+ 4 20.9	1.971	2.972	1.3	21.5	9 28	0 30.45	+ 0 0.3	1.893	2.894	1.2	21.2
10 8	0 21.85	+ 3 35.3	1.983	2.975	2.9	21.7	10 8	0 21.99	- 1 2.1	1.882	2.870	3.7	21.3
10 18	0 13.90	+ 2 52.5	2.024	2.978	6.7	21.9	10 18	0 14.02	- 1 58.1	1.900	2.846	7.7	21.5
10 28	0 7.42	+ 2 17.5	2.092	2.981	10.2	22.1	10 28	0 7.41	- 2 42.1	1.944	2.822	11.4	21.7
11 7	0 2.92	+ 1 53.7	2.184	2.983	13.2	22.3	11 7	0 2.79	- 3 10.6	2.011	2.797	14.6	21.9
417874	2007 <i>NC</i> ₅		9 30.7 175°61	1°8/27.7	15		452084	2014 <i>PH</i> ₁₈		9 30.7 328°78	4°0/26.0	18	
8 29	0 52.84	- 2 34.7	3.743	4.599	7.4	24.8	8 29	0 46.56	- 5 50.8	2.000	2.893	11.2	20.8
9 8	0 46.22	- 3 36.1	3.670	4.604	5.3	24.7	9 8	0 42.48	- 7 3.5	1.936	2.886	8.1	20.6
9 18	0 38.60	- 4 40.5	3.627	4.608	3.1	24.5	9 18	0 36.76	- 8 19.4	1.896	2.879	5.2	20.4
9 28	0 30.40	- 5 44.2	3.617	4.611	1.8	24.4	9 28	0 30.05	- 9 31.4	1.884	2.872	4.1	20.3
10 8	0 22.10	- 6 43.5	3.640	4.612	3.2	24.5	10 8	0 23.14	- 10 32.6	1.900	2.866	6.3	20.5
10 18	0 14.21	- 7 35.1	3.695	4.612	5.4	24.7	10 18	0 16.85	- 11 17.4	1.942	2.860	9.4	20.6
10 28	0 7.17	- 8 16.7	3.781	4.611	7.5	24.8	10 28	0 11.94	- 11 42.6	2.008	2.854	12.5	20.8
11 7	0 1.36	- 8 46.7	3.892	4.609	9.3	25.0	11 7	0 8.91	- 11 47.1	2.094	2.849	15.1	21.0
348364	2005 <i>EV</i> ₂₄₅		9 30.7 324°34	0°0/30.5	18		339187	2004 <i>TV</i> ₁₆₂		9 30.7 304°20	2°0/29.2	18	
8 29	0 49.97	+ 4 51.9	1.570	2.449	14.6	21.1	8 29	0 51.96	+ 0 6.3	1.507	2.396	14.5	21.5
9 8	0 45.38	+ 4 28.4	1.497	2.440	10.7	20.9	9 8	0 47.12	- 0 22.5	1.420	2.369	10.6	21.2
9 18	0 38.62	+ 3 51.7	1.446	2.430	6.2	20.6	9 18	0 39.82	- 1 0.8	1.355	2.342	6.1	20.9
9 28	0 30.45	+ 3 6.4	1.420	2.421	1.3	20.3	9 28	0 30.77	- 1 43.2	1.316	2.316	2.1	20.6
10 8	0 21.92	+ 2 18.8	1.421	2.413	3.7	20.4	10 8	0 21.10	- 2 22.5	1.302	2.289	5.1	20.7
10 18	0 14.17	+ 1 36.0	1.448	2.405	8.5	20.7	10 18	0 12.09	- 2 51.6	1.314	2.263	10.1	20.9
10 28	0 8.22	+ 1 4.2	1.499	2.397	12.8	20.9	10 28	0 4.95	- 3 4.6	1.349	2.237	14.7	21.1
11 7	0 4.74	+ 0 47.8	1.571	2.390	16.5	21.2	11 7	0 0.52	- 2 58.6	1.404	2.211	18.8	21.3
65276	2002 <i>GR</i> ₇₈		9 30.7 19°74	3°2/28.3	18 R		39362	2002 <i>BU</i> ₁		9 30.7 270°44	0°3/30.1	18	
8 2													

EPHEMERIDES

9 30.7

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
69649	1998 <i>FK</i> ₉₈		9 30.7 248°49	3°8/ 3.8 18			219313	2000 <i>EJ</i> ₇₁		9 30.7 298°13	1°7/28.7 18		
8 29	0 53.34	+14 28.3	1.580	2.421	16.4	19.5	8 29	0 47.27	+ 0 35.3	2.127	3.008	11.2	20.1
9 8	0 48.00	+14 25.6	1.498	2.411	12.9	19.2	9 8	0 43.00	- 0 15.6	2.045	2.991	8.1	19.9
9 18	0 40.25	+14 1.2	1.436	2.400	8.8	19.0	9 18	0 37.11	- 1 14.6	1.988	2.974	4.6	19.7
9 28	0 30.86	+13 16.1	1.399	2.389	4.9	18.7	9 28	0 30.18	- 2 16.9	1.958	2.957	1.8	19.4
10 8	0 20.98	+12 15.1	1.389	2.378	4.4	18.7	10 8	0 22.96	- 3 16.2	1.956	2.940	4.1	19.6
10 18	0 11.87	+11 5.7	1.405	2.367	8.2	18.9	10 18	0 16.26	- 4 6.9	1.982	2.923	7.7	19.8
10 28	0 4.70	+ 9 57.3	1.446	2.355	12.5	19.1	10 28	0 10.85	- 4 44.2	2.033	2.907	11.2	20.0
11 7	0 0.21	+ 8 58.2	1.509	2.343	16.4	19.3	11 7	0 7.27	- 5 5.3	2.107	2.891	14.1	20.1
157796	1995 <i>FW</i> ₄		9 30.7 152°95	1°0/29.5 18			37862	1998 <i>FR</i> ₅		9 30.7 90°22	0°4/ 1.1 18		
8 29	0 48.42	+ 1 38.9	2.610	3.478	9.8	21.1	8 29	0 51.97	+ 6 30.7	1.697	2.565	14.2	19.4
9 8	0 43.43	+ 1 2.8	2.544	3.482	7.0	21.0	9 8	0 46.56	+ 6 3.3	1.638	2.573	10.4	19.2
9 18	0 37.16	+ 0 20.5	2.503	3.487	3.9	20.8	9 18	0 39.17	+ 5 22.6	1.601	2.582	6.1	19.0
9 28	0 30.14	- 0 24.2	2.491	3.491	1.1	20.6	9 28	0 30.60	+ 4 32.9	1.590	2.591	1.5	18.7
10 8	0 23.01	- 1 7.0	2.508	3.495	3.0	20.7	10 8	0 21.89	+ 3 40.5	1.607	2.599	3.3	18.8
10 18	0 16.40	- 1 44.1	2.555	3.499	6.1	20.9	10 18	0 14.06	+ 2 51.9	1.651	2.608	7.7	19.1
10 28	0 10.91	- 2 12.0	2.628	3.502	8.9	21.1	10 28	0 7.99	+ 2 13.1	1.720	2.616	11.6	19.4
11 7	0 6.95	- 2 28.5	2.726	3.505	11.4	21.3	11 7	0 4.24	+ 1 48.1	1.812	2.624	14.9	19.6
472561	2015 <i>DD</i> ₆₀		9 30.7 170°93	2°2/28.5 17			92313	2000 <i>FY</i> ₄₆		9 30.7 52°98	8°1/25.5 18		
8 29	0 52.53	+ 0 23.1	1.818	2.697	12.9	21.7	8 29	0 55.34	-10 31.1	1.010	1.923	17.8	18.4
9 8	0 46.87	- 0 42.6	1.756	2.700	9.2	21.5	9 8	0 49.55	-11 56.5	0.988	1.944	13.2	18.2
9 18	0 39.31	- 1 57.0	1.718	2.703	5.2	21.3	9 18	0 40.96	-13 15.6	0.986	1.966	9.3	18.1
9 28	0 30.62	- 3 13.4	1.707	2.706	2.2	21.1	9 28	0 30.95	-14 15.5	1.007	1.988	8.3	18.1
10 8	0 21.75	- 4 24.0	1.725	2.707	4.8	21.3	10 8	0 21.19	-14 46.8	1.050	2.011	10.9	18.3
10 18	0 13.69	- 5 22.2	1.771	2.709	8.8	21.5	10 18	0 13.13	-14 45.9	1.115	2.034	14.7	18.6
10 28	0 7.30	- 6 2.9	1.841	2.709	12.4	21.7	10 28	0 7.83	-14 14.5	1.199	2.057	18.4	18.9
11 7	0 3.11	- 6 24.2	1.934	2.709	15.5	21.9	11 7	0 5.70	-13 17.4	1.300	2.080	21.4	19.2
446948	2003 <i>JS</i> ₅		9 30.7 58°89	2°8/ 4.1 15			166834	2002 <i>VA</i> ₁₁₈		9 30.7 359°30	20°9/13.9 16		
8 29	0 48.30	+15 51.9	1.911	2.743	14.4	20.9	8 29	1 1.91	+36 39.8	1.005	1.761	29.1	19.6
9 8	0 43.63	+15 2.7	1.861	2.769	11.0	20.7	9 8	0 56.57	+39 49.2	0.951	1.759	26.9	19.4
9 18	0 37.34	+13 53.8	1.833	2.795	7.3	20.6	9 18	0 46.43	+42 19.4	0.908	1.758	24.5	19.3
9 28	0 30.18	+12 29.0	1.831	2.821	3.8	20.4	9 28	0 32.40	+43 53.9	0.880	1.758	22.4	19.1
10 8	0 23.01	+10 55.4	1.857	2.847	3.3	20.4	10 8	0 16.69	+44 22.5	0.868	1.758	21.1	19.1
10 18	0 16.69	+ 9 20.6	1.911	2.873	6.3	20.7	10 18	0 2.27	+43 45.3	0.871	1.759	21.0	19.1
10 28	0 11.91	+ 7 52.7	1.993	2.900	9.7	20.9	10 28	23 51.90	+42 16.0	0.890	1.760	22.1	19.1
11 7	0 9.09	+ 6 37.7	2.099	2.926	12.7	21.2	11 7	23 47.04	+40 16.1	0.924	1.763	23.9	19.3
256661	2007 <i>XD</i> ₂₂		9 30.7 255°47	1°3/29.7 18			188407	2004 <i>EO</i> ₇₀		9 30.7 100°98	0°3/30.9 17		
8 29	0 53.78	+ 2 19.4	1.464	2.347	15.2	21.3	8 29	0 53.55	+ 6 58.1	1.652	2.517	14.7	21.3
9 8	0 48.33	+ 1 42.9	1.392	2.337	11.1	21.1	9 8	0 47.62	+ 6 15.4	1.602	2.536	10.7	21.1
9 18	0 40.42	+ 0 54.3	1.341	2.327	6.3	20.8	9 18	0 39.72	+ 5 18.5	1.574	2.555	6.2	20.9
9 28	0 30.90	- 0 0.5	1.316	2.317	1.6	20.4	9 28	0 30.71	+ 4 12.8	1.573	2.574	1.5	20.6
10 8	0 20.96	- 0 53.8	1.318	2.307	4.7	20.6	10 8	0 21.68	+ 3 5.5	1.600	2.592	3.3	20.8
10 18	0 11.90	- 1 37.8	1.345	2.296	9.7	20.9	10 18	0 13.64	+ 2 4.0	1.654	2.610	7.8	21.1
10 28	0 4.87	- 2 6.1	1.397	2.286	14.3	21.1	10 28	0 7.47	+ 1 14.7	1.734	2.627	11.7	21.4
11 7	0 0.59	- 2 15.4	1.468	2.275	18.1	21.4	11 7	0 3.67	+ 0 41.2	1.836	2.644	15.0	21.7
98843	2001 <i>AQ</i> ₂₆		9 30.7 252°17	10°1/20.4 18			291108	2005 <i>YT</i> ₁₆₇		9 30.7 186°43	3°5/25.8 18		
8 29	0 55.13	-24 14.7	1.866	2.737	13.0	19.0	8 29	0 47.76	- 7 36.5	2.774	3.655	8.9	21.5
9 8	0 48.87	-25 33.4	1.817	2.727	11.1	18.9	9 8	0 42.92	- 8 38.7	2.712	3.655	6.4	21.4
9 18	0 40.51	-26 38.4	1.791	2.717	10.1	18.8	9 18	0 36.88	- 9 41.5	2.676	3.654	4.2	21.2
9 28	0 30.88	-27 20.7	1.789	2.706	10.5	18.8	9 28	0 30.11	-10 40.0	2.670	3.653	3.5	21.2
10 8	0 21.08	-27 33.9	1.812	2.696	12.1	18.9	10 8	0 23.23	-11 29.6	2.693	3.652	5.1	21.3
10 18	0 12.20	-27 16.2	1.857	2.685	14.3	19.0	10 18	0 16.83	-12 6.5	2.744	3.650	7.5	21.4
10 28	0 5.19	-26 28.8	1.923	2.673	16.5	19.1	10 28	0 11.47	-12 28.5	2.821	3.647	9.9	21.6
11 7	0 0.62	-25 16.1	2.005	2.662	18.5	19.3	11 7	0 7.56	-12 34.9	2.920	3.645	11.9	21.8
169427	2001 <i>YP</i> ₁₀₃		9 30.7 159°13	0°8/ 1.4 17			70631	1999 <i>TY</i> ₂₁₉		9 30.7 73°08	2°9/ 2.9 18		
8 29	0 54.57	+ 8 27.3	1.831	2.684	14.0	20.7	8 29	0 57.67	+10 28.8	1.645	2.492	15.6	18.8
9 8	0 48.34	+ 7 45.4	1.765	2.692	10.4	20.4	9 8	0 50.67	+10 52.3	1.594	2.513	11.8	18.6
9 18	0 40.16	+ 6 48.3	1.722	2.700	6.2	20.2	9 18	0 41.51	+11 0.2	1.564	2.533	7.6	18.4
9 28	0 30.80	+ 5 40.4	1.707	2.707	1.8	19.9	9 28	0 31.11	+10 53.9	1.560	2.554	3.7	18.2
10 8	0 21.29	+ 4 28.3	1.720	2.713	3.1	20.1	10 8	0 20.64	+10 37.3	1.584	2.574	3.7	18.3
10 18	0 12.62	+ 3 19.4	1.763	2.718	7.4	20.3	10 18	0 11.25	+10 15.4	1.635	2.595	7.5	18.6
10 28	0 5.69	+ 2 20.5	1.831	2.722	11.3	20.6	10 28	0 3.89	+ 9 54.5	1.713	2.615	11.3	18.9
11 7	0 1.04	+ 1 36.2	1.923	2.725	14.6	20.8	11 7	23 59.11	+ 9 39.5	1.812	2.635	14.5	19.1
388898	2008 <i>SM</i> ₂₃		9 30.7 282°85	1°8/26.7 17			157020	Fertoszentmiklós		9 30.7 49°03	2°4/27.8 18		
8 29	0 41.35	- 3 43.3	4.190	5.067	6.2	21.0	8 29	0 46.67	- 0 54.9	2.136	3.020	11.0	20.7
9 8	0 38.03	- 4 45.5	4.118	5.062	4.4	20.9	9 8	0 42.41	- 2 3.7	2.077	3.025	7.8	20.5
9 18	0 33.97	- 5 49.9	4.074	5.057	2.6	20.8	9 18	0 36.68	- 3 18.7	2.044	3.030	4.5	20.4
9 28	0 29.47	- 6 53.5	4.060	5.051	1.8	20.7	9 28	0 30.09	- 4 33.8	2.038	3.035	2.4	20.2
10 8	0 24.87	- 7 53.0	4.077	5.046	3.1	20.8	10 8	0 23.37	- 5 42.7	2.061	3.040	4.6	20.4
10 18	0 20.54	- 8 45.7	4.124	5.041	4.9	20.9	10 18	0 17.28	- 6 39.7	2.112	3.046	7.9	20.6
10 28	0 16.81	- 9 29.3	4.198	5.036	6.7	21.0	10 28	0 12.49	- 7 20.7	2.188	3.051	10.9	20.8
11 7	0 13.96	-10 2.3	4.297	5.031	8.2	21.1	11 7	0 9.44	- 7 44.1	2.286	3.056	13.5	21.0
129229	2005 <i>PB</i> ₁		9 30.7 332°65	4°6/27.1 18			11613	1995 <i>YN</i> ₄		9 30.7 325°75	2°6/ 2.9 18 R		
8 29	0 50.91	- 4 29.0											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
2551	Decabrina		9 30.7 333°04	0°0/30.5 18			316605	2011 VM ₁₆		9 30.7 224°88	1°8/28.9 18		
8 29	0 47.71	+ 4 58.2	1.857	2.732	12.9	16.8	8 29	0 51.07	- 0 22.4	1.958	2.837	12.1	20.8
9 8	0 43.51	+ 4 33.7	1.780	2.720	9.4	16.5	9 8	0 45.76	- 0 56.7	1.891	2.836	8.7	20.5
9 18	0 37.49	+ 3 57.8	1.726	2.709	5.5	16.3	9 18	0 38.70	- 1 37.4	1.849	2.835	4.9	20.3
9 28	0 30.29	+ 3 14.2	1.698	2.699	1.2	16.0	9 28	0 30.56	- 2 19.5	1.834	2.834	1.9	20.1
10 8	0 22.81	+ 2 28.6	1.697	2.689	3.2	16.1	10 8	0 22.23	- 2 57.5	1.848	2.833	4.2	20.3
10 18	0 15.94	+ 1 46.8	1.723	2.679	7.5	16.4	10 18	0 14.61	- 3 26.4	1.888	2.831	8.0	20.5
10 28	0 10.56	+ 1 14.3	1.775	2.671	11.3	16.6	10 28	0 8.50	- 3 42.4	1.955	2.830	11.5	20.7
11 7	0 7.25	+ 0 55.0	1.848	2.662	14.6	16.8	11 7	0 4.44	- 3 43.5	2.043	2.829	14.4	20.9
115979	2003 WX ₅₆		9 30.7 270°22	2°3/ 2.2 18			229465	2005 UB ₂₅₀		9 30.7 357°03	4°1/ 3.6 18		
8 29	0 59.37	+ 7 58.0	1.843	2.688	14.2	19.9	8 29	0 50.07	+ 12 38.3	1.193	2.064	18.7	20.0
9 8	0 52.11	+ 8 38.2	1.759	2.679	10.8	19.6	9 8	0 46.06	+ 12 55.0	1.130	2.060	14.6	19.8
9 18	0 42.54	+ 9 8.1	1.698	2.670	6.9	19.4	9 18	0 39.30	+ 12 48.6	1.086	2.058	9.8	19.5
9 28	0 31.41	+ 9 27.9	1.665	2.661	3.0	19.1	9 28	0 30.74	+ 12 20.2	1.063	2.056	5.2	19.2
10 8	0 19.80	+ 9 39.4	1.661	2.651	3.6	19.2	10 8	0 21.75	+ 11 35.3	1.064	2.055	4.8	19.2
10 18	0 8.89	+ 9 45.7	1.685	2.642	7.6	19.4	10 18	0 13.82	+ 10 42.3	1.089	2.056	9.2	19.5
10 28	23 59.78	+ 9 51.0	1.737	2.633	11.5	19.6	10 28	0 8.21	+ 9 51.5	1.136	2.057	14.0	19.7
11 7	23 53.21	+ 9 59.9	1.812	2.623	15.0	19.8	11 7	0 5.69	+ 9 11.4	1.202	2.060	18.2	20.0
473396	2015 VF ₄₁		9 30.7 346°86	8°4/22.3 18			359004	2008 UP ₂₃		9 30.7 333°74	1°1/28.7 16		
8 29	0 51.78	- 20 26.1	1.936	2.818	12.1	19.7	8 29	0 43.20	- 1 51.4	4.387	5.256	6.1	21.5
9 8	0 46.29	- 21 25.8	1.890	2.815	9.9	19.6	9 8	0 39.31	- 2 11.0	4.316	5.256	4.4	21.4
9 18	0 38.97	- 22 14.8	1.866	2.812	8.5	19.5	9 18	0 34.71	- 2 32.5	4.271	5.255	2.5	21.2
9 28	0 30.59	- 22 45.6	1.868	2.809	8.7	19.5	9 28	0 29.69	- 2 54.0	4.257	5.255	1.1	21.1
10 8	0 22.11	- 22 53.0	1.895	2.806	10.2	19.6	10 8	0 24.59	- 3 13.4	4.272	5.254	2.2	21.2
10 18	0 14.49	- 22 34.8	1.946	2.804	12.4	19.7	10 18	0 19.76	- 3 28.8	4.318	5.254	4.1	21.4
10 28	0 8.52	- 21 51.9	2.018	2.802	14.8	19.9	10 28	0 15.54	- 3 38.5	4.392	5.253	5.9	21.5
11 7	0 4.72	- 20 47.5	2.109	2.801	16.8	20.1	11 7	0 12.19	- 3 41.4	4.491	5.253	7.5	21.6
404505	2013 HU ₄₁		9 30.7 106°51	1°2/ 2.1 18			151451	2002 GB ₁₀₁		9 30.7 201°41	0°2/30.4 18		
8 29	0 49.84	+ 8 50.1	2.277	3.126	11.8	22.0	8 29	0 49.38	+ 4 11.9	2.461	3.322	10.6	20.9
9 8	0 44.65	+ 8 32.7	2.210	3.134	8.8	21.8	9 8	0 44.27	+ 3 43.3	2.386	3.320	7.7	20.7
9 18	0 37.95	+ 8 3.7	2.168	3.142	5.4	21.6	9 18	0 37.75	+ 3 6.4	2.335	3.317	4.4	20.5
9 28	0 30.37	+ 7 25.8	2.152	3.150	2.0	21.4	9 28	0 30.36	+ 2 24.6	2.313	3.314	0.9	20.3
10 8	0 22.66	+ 6 43.2	2.166	3.159	2.5	21.5	10 8	0 22.79	+ 1 42.0	2.321	3.311	2.7	20.4
10 18	0 15.58	+ 6 0.6	2.209	3.166	5.9	21.7	10 18	0 15.75	+ 1 3.2	2.357	3.308	6.1	20.6
10 28	0 9.80	+ 5 22.9	2.278	3.174	9.2	21.9	10 28	0 9.89	+ 0 32.2	2.421	3.304	9.2	20.8
11 7	0 5.81	+ 4 53.7	2.372	3.182	11.9	22.1	11 7	0 5.68	+ 0 11.7	2.509	3.300	11.9	21.0
294120	2007 TC ₂₅₃		9 30.7 308°35	1°2/29.7 18			151284	2002 AK ₂₀₃		9 30.7 80°14	1°3/29.3 18		
8 29	0 50.62	+ 2 0.9	1.617	2.500	14.0	20.6	8 29	0 48.95	+ 1 24.8	2.124	2.999	11.4	20.3
9 8	0 45.91	+ 1 33.1	1.537	2.483	10.2	20.4	9 8	0 44.10	+ 0 44.4	2.060	3.003	8.2	20.1
9 18	0 39.02	+ 0 54.9	1.480	2.466	5.8	20.1	9 18	0 37.69	- 0 3.4	2.021	3.006	4.6	19.9
9 28	0 30.65	+ 0 11.2	1.449	2.450	1.4	19.7	9 28	0 30.35	- 0 54.0	2.009	3.009	1.4	19.7
10 8	0 21.86	- 0 31.5	1.444	2.434	4.3	19.9	10 8	0 22.87	- 1 41.9	2.025	3.012	3.6	19.9
10 18	0 13.77	- 1 6.6	1.466	2.418	9.0	20.2	10 18	0 16.03	- 2 22.2	2.070	3.015	7.2	20.1
10 28	0 7.42	- 1 28.4	1.511	2.402	13.3	20.4	10 28	0 10.54	- 2 50.7	2.141	3.019	10.5	20.3
11 7	0 3.54	- 1 33.5	1.578	2.387	16.9	20.6	11 7	0 6.90	- 3 5.1	2.234	3.022	13.3	20.5
227982	2007 JG ₁		9 30.7 60°67	1°6/29.0 18			485830	2012 DJ ₇₁		9 30.7 209°43	4°4/ 5.6 17		
8 29	0 49.85	- 0 23.4	2.121	2.999	11.4	20.7	8 29	0 50.42	+ 18 31.4	2.370	3.172	12.9	21.7
9 8	0 44.65	- 0 54.6	2.068	3.012	8.1	20.5	9 8	0 45.20	+ 18 42.5	2.288	3.170	10.4	21.6
9 18	0 37.94	- 1 31.0	2.039	3.025	4.6	20.3	9 18	0 38.37	+ 18 36.9	2.228	3.169	7.6	21.4
9 28	0 30.37	- 2 8.2	2.038	3.038	1.7	20.2	9 28	0 30.51	+ 18 14.8	2.193	3.167	5.2	21.2
10 8	0 22.73	- 2 41.3	2.066	3.051	3.8	20.4	10 8	0 22.40	+ 17 38.6	2.187	3.165	4.4	21.2
10 18	0 15.81	- 3 6.2	2.121	3.064	7.2	20.6	10 18	0 14.83	+ 16 52.4	2.209	3.163	6.2	21.3
10 28	0 10.28	- 3 19.6	2.203	3.078	10.4	20.8	10 28	0 8.56	+ 16 2.0	2.258	3.161	8.9	21.5
11 7	0 6.59	- 3 20.0	2.307	3.091	13.0	21.0	11 7	0 4.13	+ 15 13.3	2.332	3.159	11.5	21.6
40939	1999 TU ₂₀₉		9 30.7 187°36	4°2/25.9 18			511986	2015 KV ₉₃		9 30.7 215°45	6°7/23.9 18		
8 29	0 50.75	- 9 48.3	2.390	3.272	10.1	19.5	8 29	0 54.04	- 13 48.7	1.913	2.798	12.1	22.2
9 8	0 45.23	- 10 33.0	2.330	3.272	7.4	19.3	9 8	0 48.00	- 15 3.6	1.853	2.791	9.3	22.0
9 18	0 38.26	- 11 16.3	2.296	3.271	5.1	19.2	9 18	0 40.03	- 16 14.5	1.819	2.784	7.1	21.8
9 28	0 30.44	- 11 52.9	2.290	3.271	4.3	19.2	9 28	0 30.87	- 17 13.0	1.811	2.776	6.9	21.8
10 8	0 22.51	- 12 18.2	2.312	3.270	6.0	19.3	10 8	0 21.50	- 17 52.2	1.830	2.768	8.8	21.9
10 18	0 15.19	- 12 29.0	2.362	3.269	8.5	19.4	10 18	0 12.91	- 18 8.0	1.875	2.759	11.6	22.1
10 28	0 9.15	- 12 23.8	2.438	3.267	11.1	19.6	10 28	0 5.99	- 17 59.3	1.943	2.749	14.4	22.3
11 7	0 4.84	- 12 2.8	2.534	3.266	13.3	19.8	11 7	0 1.32	- 17 27.7	2.030	2.739	16.9	22.4
10650	Houtman		9 30.7 41°14	0°4/ 1.0 18 R			184791	2005 TM ₅₈		9 30.7 67°89	0°7/30.0 18		
8 29	0 50.93	+ 7 28.0	1.132	2.021	18.3	18.1	8 29	0 49.83	+ 3 8.5	1.997	2.869	12.2	20.6
9 8	0 46.49	+ 6 44.3	1.084	2.030	13.4	17.9	9 8	0 44.80	+ 2 35.9	1.936	2.876	8.8	20.4
9 18	0 39.39	+ 5 40.0	1.055	2.040	7.8	17.6	9 18	0 38.11	+ 1 54.5	1.899	2.883	5.0	20.2
9 28	0 30.71	+ 4 22.4	1.049	2.050	1.9	17.3	9 28	0 30.45	+ 1 8.6	1.889	2.890	1.1	19.9
10 8	0 21.87	+ 3 2.0	1.068	2.061	4.2	17.5	10 8	0 22.66	+ 0 23.6	1.908	2.898	3.3	20.1
10 18	0 14.30	+ 1 49.6	1.110	2.072	9.8	17.8	10 18	0 15.59	- 0 15.2	1.954	2.905	7.2	20.4
10 28	0 9.12	+ 0 54.5	1.175	2.084	14.8	18.2	10 28	0 9.98	- 0 43.4	2.027	2.912	10.6	20.6
11 7	0 6.94	+ 0 21.5	1.259	2.096	18.8	18.5	11 7	0 6.32	- 0 58.2	2.122	2.920	13.6	20.8
517001	2012 TE ₅₄		9 30.7 308°02	1°1/ 1.5 18			358988	2008 SC ₂₁₆		9 30.7 272°35	0°2/30.3 18		
8 29	0 53.68	+ 5 53.3	1.514	2.387	15.4	20.8	8 29	0 41.83					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
426215	2012 <i>KY</i> ₄₆		9 30.7	85°90	4.9/26.8	17	340325	2006 <i>DB</i> ₃₄		9 30.7	290°36	0.8/30.1	18
8 29	0 55.23	- 6 36.8	1.484	2.377	14.4	21.1	8 29	0 50.20	+ 4 0.6	1.632	2.511	14.1	21.1
9 8	0 48.93	- 7 42.2	1.449	2.398	10.4	20.9	9 8	0 45.57	+ 3 18.0	1.556	2.500	10.3	20.8
9 18	0 40.51	- 8 47.9	1.436	2.418	6.6	20.7	9 18	0 38.82	+ 2 22.2	1.504	2.489	5.9	20.5
9 28	0 30.96	- 9 45.3	1.449	2.438	5.0	20.7	9 28	0 30.69	+ 1 18.6	1.477	2.478	1.3	20.2
10 8	0 21.48	-10 26.8	1.489	2.458	7.3	20.9	10 8	0 22.20	+ 0 14.7	1.477	2.467	4.0	20.4
10 18	0 13.20	-10 47.7	1.555	2.477	11.0	21.1	10 18	0 14.44	- 0 42.1	1.504	2.457	8.7	20.6
10 28	0 7.01	-10 46.2	1.643	2.497	14.4	21.4	10 28	0 8.42	- 1 25.0	1.555	2.446	12.9	20.9
11 7	0 3.38	-10 23.9	1.751	2.516	17.3	21.6	11 7	0 4.79	- 1 50.0	1.627	2.436	16.5	21.1
33551	1999 <i>JB</i> ₁₅		9 30.7	92°91	8.9/23.1	18	18437	1994 <i>JR</i>		9 30.7	93°99	8.9/22.6	18
8 29	0 56.28	-19 30.4	1.686	2.568	13.6	18.7	8 29	0 54.75	-19 25.6	1.723	2.606	13.2	17.4
9 8	0 49.55	-20 42.7	1.657	2.584	10.9	18.5	9 8	0 48.49	-20 42.8	1.691	2.619	10.7	17.3
9 18	0 40.82	-21 42.5	1.652	2.600	9.2	18.5	9 18	0 40.25	-21 48.3	1.683	2.631	9.1	17.2
9 28	0 31.03	-22 21.2	1.672	2.616	9.2	18.5	9 28	0 30.94	-22 33.1	1.700	2.644	9.1	17.3
10 8	0 21.35	-22 33.5	1.717	2.632	10.8	18.7	10 8	0 21.68	-22 51.7	1.742	2.656	10.8	17.4
10 18	0 12.84	-22 17.7	1.786	2.648	13.2	18.8	10 18	0 13.50	-22 42.2	1.808	2.668	13.2	17.6
10 28	0 6.34	-21 35.9	1.876	2.663	15.6	19.0	10 28	0 7.25	-22 6.0	1.895	2.680	15.5	17.8
11 7	0 2.32	-20 32.2	1.984	2.678	17.7	19.3	11 7	0 3.40	-21 7.2	2.000	2.692	17.6	18.0
481229	2005 <i>WN</i> ₄₀		9 30.7	222°89	4.2/25.8	18	982	Franklina		9 30.7	57°46	7.0/ 8.5	18
8 29	0 49.94	- 9 16.3	2.379	3.263	10.1	21.7	8 29	0 52.76	+24 53.3	1.978	2.751	16.0	14.4
9 8	0 44.71	-10 7.8	2.316	3.258	7.4	21.5	9 8	0 47.08	+25 23.2	1.922	2.774	13.4	14.3
9 18	0 38.03	-10 58.6	2.277	3.253	5.0	21.4	9 18	0 39.51	+25 29.4	1.886	2.798	10.5	14.2
9 28	0 30.46	-11 43.3	2.267	3.248	4.3	21.3	9 28	0 30.82	+25 11.0	1.873	2.821	8.1	14.1
10 8	0 22.74	-12 16.9	2.285	3.243	6.0	21.4	10 8	0 22.02	+24 30.8	1.886	2.845	7.0	14.1
10 18	0 15.60	-12 35.8	2.331	3.238	8.6	21.6	10 18	0 14.08	+23 33.9	1.926	2.868	7.9	14.2
10 28	0 9.71	-12 38.0	2.402	3.232	11.2	21.7	10 28	0 7.85	+22 28.1	1.991	2.892	10.0	14.3
11 7	0 5.54	-12 23.5	2.494	3.226	13.5	21.9	11 7	0 3.85	+21 21.4	2.081	2.916	12.4	14.6
318535	2005 <i>EY</i> ₂₆₉		9 30.7	236°42	1.5/29.4	18	48834	1997 <i>YZ</i> ₆		9 30.7	308°36	20.8/19.4	17
8 29	0 52.63	+ 2 47.9	1.620	2.498	14.2	21.1	8 29	0 52.55	+42 19.9	1.084	1.804	29.3	18.1
9 8	0 47.35	+ 1 51.3	1.544	2.488	10.3	20.9	9 8	0 49.50	+44 27.1	1.015	1.792	27.5	17.9
9 18	0 39.84	+ 0 41.6	1.492	2.477	5.8	20.6	9 18	0 42.25	+45 50.2	0.956	1.781	25.4	17.7
9 28	0 30.89	+ 0 34.7	1.466	2.466	1.6	20.3	9 28	0 31.64	+46 15.1	0.909	1.770	23.3	17.5
10 8	0 21.56	- 1 49.2	1.467	2.455	4.6	20.5	10 8	0 19.62	+45 32.4	0.875	1.759	21.6	17.4
10 18	0 13.00	- 2 53.7	1.496	2.443	9.3	20.7	10 18	0 8.74	+43 41.4	0.856	1.749	20.8	17.3
10 28	0 6.26	- 3 41.5	1.549	2.430	13.6	21.0	10 28	0 1.45	+40 54.2	0.854	1.740	21.3	17.3
11 7	0 2.00	- 4 8.8	1.622	2.417	17.2	21.2	11 7	23 59.09	+37 33.3	0.868	1.731	23.0	17.4
186521	2002 <i>VV</i> ₄₃		9 30.7	342°90	0.9/30.0	18	114821	2003 <i>OC</i> ₁₄		9 30.7	77°86	5.1/ 7.5	18
8 29	0 49.31	+ 4 23.9	1.268	2.160	16.4	20.0	8 29	0 49.39	+23 9.9	2.277	3.056	14.0	19.4
9 8	0 45.30	+ 3 36.7	1.205	2.155	12.0	19.7	9 8	0 44.38	+22 53.1	2.216	3.079	11.4	19.3
9 18	0 38.79	+ 2 33.1	1.163	2.150	6.8	19.4	9 18	0 37.86	+22 15.1	2.177	3.102	8.6	19.1
9 28	0 30.67	+ 1 19.8	1.144	2.146	1.5	19.0	9 28	0 30.48	+21 17.0	2.162	3.125	6.1	19.0
10 8	0 22.21	+ 0 6.8	1.151	2.142	4.6	19.3	10 8	0 23.04	+20 3.0	2.175	3.147	5.1	19.0
10 18	0 14.72	- 0 56.3	1.182	2.139	10.0	19.6	10 18	0 16.33	+18 38.9	2.216	3.169	6.3	19.1
10 28	0 9.38	- 1 41.4	1.235	2.136	14.8	19.8	10 28	0 11.01	+17 12.2	2.285	3.191	8.7	19.3
11 7	0 6.85	- 2 4.4	1.308	2.135	18.8	20.1	11 7	0 7.54	+15 49.6	2.380	3.213	11.1	19.5
41031	1999 <i>UA</i> ₄₇		9 30.7	250°38	4.0/ 5.1	18	123268	2000 <i>UQ</i> ₈₂		9 30.7	106°77	4.2/27.8	18
8 29	0 50.16	+17 8.1	2.290	3.102	13.0	18.7	8 29	0 58.89	- 7 47.0	1.692	2.573	13.6	19.3
9 8	0 45.09	+17 14.3	2.206	3.097	10.3	18.5	9 8	0 51.55	- 8 4.6	1.639	2.582	9.9	19.1
9 18	0 38.35	+17 4.0	2.144	3.092	7.4	18.3	9 18	0 42.09	- 8 21.0	1.609	2.590	6.2	18.9
9 28	0 30.56	+16 37.6	2.108	3.087	4.8	18.2	9 28	0 31.41	- 8 30.4	1.607	2.598	4.2	18.8
10 8	0 22.48	+15 57.9	2.099	3.081	4.1	18.1	10 8	0 20.66	- 8 27.8	1.632	2.605	6.3	18.9
10 18	0 14.95	+15 9.3	2.119	3.076	6.2	18.3	10 18	0 10.98	- 8 10.5	1.685	2.613	9.9	19.2
10 28	0 8.73	+14 17.6	2.167	3.071	9.1	18.4	10 28	0 3.30	- 7 37.5	1.763	2.620	13.4	19.4
11 7	0 4.39	+13 28.9	2.238	3.066	12.0	18.6	11 7	23 58.16	- 6 49.8	1.861	2.628	16.3	19.6
403514	2009 <i>WW</i> ₂₃₆		9 30.7	346°42	1.3/29.5	17	36028	1999 <i>NA</i> ₅₇		9 30.7	80°56	5.6/ 6.9	18
8 29	0 47.53	+ 1 36.5	1.875	2.758	12.4	20.9	8 29	0 50.55	+22 14.1	1.726	2.529	16.9	18.3
9 8	0 43.33	+ 1 2.0	1.805	2.751	8.9	20.7	9 8	0 45.67	+21 54.3	1.663	2.543	13.7	18.1
9 18	0 37.38	+ 0 18.9	1.760	2.746	5.0	20.4	9 18	0 38.78	+21 7.6	1.621	2.558	10.2	17.9
9 28	0 30.35	+ 0 28.0	1.740	2.741	1.4	20.2	9 28	0 30.70	+19 55.3	1.601	2.573	7.0	17.8
10 8	0 23.08	- 1 12.7	1.748	2.736	3.9	20.4	10 8	0 22.49	+18 23.1	1.608	2.587	5.7	17.8
10 18	0 16.48	- 1 49.7	1.783	2.732	7.8	20.6	10 18	0 15.19	+16 39.4	1.643	2.602	7.5	17.9
10 28	0 11.33	- 2 14.3	1.842	2.729	11.5	20.8	10 28	0 9.69	+14 54.7	1.703	2.616	10.7	18.1
11 7	0 8.20	- 2 23.8	1.924	2.726	14.6	21.0	11 7	0 6.54	+13 18.4	1.788	2.630	13.8	18.4
286810	2002 <i>KA</i> ₄		9 30.7	129°53	7.8/19.7	18	397995	2009 <i>BY</i> ₁₃₇		9 30.7	261°79	2.1/28.6	18
8 29	0 51.96	-20 19.6	2.337	3.211	10.6	21.1	8 29	0 50.56	- 0 11.2	1.966	2.845	12.1	21.8
9 8	0 46.14	-22 25.3	2.313	3.229	8.8	21.1	9 8	0 45.58	- 1 4.3	1.884	2.829	8.7	21.5
9 18	0 38.81	-24 20.8	2.316	3.247	7.9	21.0	9 18	0 38.75	- 2 5.8	1.827	2.812	5.0	21.3
9 28	0 30.63	-25 57.6	2.346	3.265	8.3	21.1	9 28	0 30.72	- 3 10.0	1.797	2.795	2.1	21.1
10 8	0 22.41	-27 10.0	2.404	3.281	9.8	21.2	10 8	0 22.35	- 4 10.2	1.795	2.778	4.6	21.2
10 18	0 14.93	-27 55.4	2.487	3.297	11.6	21.4	10 18	0 14.56	- 5 0.1	1.821	2.760	8.5	21.4
10 28	0 8.88	-28 13.8	2.591	3.312	13.4	21.5	10 28	0 8.23	- 5 34.7	1.872	2.742	12.2	21.6
11 7	0 4.68	-28 8.0	2.713	3.326	14.9	21.7	11 7	0 3.95	- 5 51.5	1.945	2.724	15.3	21.8
107482	2001 <i>DP</i> ₃₆		9 30.7	263°65	1.4/ 2.0	18	449766	2014 <i>OG</i> ₇₁		9 30.7	122°56	2.9/27.3	18
8 29	0 51.57	+ 8 53.0	1.86										

EPHEMERIDES

9 30.7

9 30.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
243161	2007 <i>TG</i> ₇₉		9 30.7 329°38	1.2/ 1.9	18		21102	1992 <i>OF</i> ₂		9 30.8 29°47	4.4/ 3.7	18	
8 29	0 49.97	+ 8 37.0	1.703	2.567	14.4	20.4	8 29	0 53.49	+13 3.5	1.141	2.008	19.7	18.3
9 8	0 45.32	+ 8 14.0	1.631	2.563	10.7	20.2	9 8	0 48.56	+13 25.5	1.088	2.016	15.2	18.0
9 18	0 38.65	+ 7 35.3	1.581	2.559	6.6	19.9	9 18	0 40.78	+13 23.4	1.054	2.025	10.3	17.8
9 28	0 30.70	+ 6 44.5	1.557	2.556	2.2	19.7	9 28	0 31.21	+12 58.2	1.042	2.034	5.6	17.6
10 8	0 22.46	+ 5 47.6	1.559	2.552	3.1	19.7	10 8	0 21.37	+12 15.7	1.053	2.044	5.1	17.6
10 18	0 14.97	+ 4 51.5	1.589	2.549	7.5	20.0	10 18	0 12.80	+11 24.9	1.088	2.054	9.3	17.9
10 28	0 9.16	+ 4 3.2	1.644	2.546	11.6	20.2	10 28	0 6.77	+10 35.9	1.146	2.066	14.0	18.2
11 7	0 5.64	+ 3 27.8	1.721	2.544	15.2	20.4	11 7	0 3.95	+ 9 57.3	1.223	2.078	18.1	18.5
39275	2001 <i>AV</i> ₃₇		9 30.7 261°03	4.0/21.9	18		219894	2002 <i>EK</i> ₁₀₈		9 30.8 73°99	1.8/ 2.5	18	
8 29	0 43.29	-18 57.6	4.484	5.355	6.0	19.5	8 29	0 51.72	+ 9 36.5	2.095	2.942	12.7	20.4
9 8	0 39.44	-19 38.9	4.429	5.349	4.8	19.4	9 8	0 46.18	+ 9 35.8	2.030	2.951	9.6	20.2
9 18	0 34.86	-20 15.8	4.400	5.343	4.1	19.3	9 18	0 38.98	+ 9 22.5	1.988	2.960	6.0	20.0
9 28	0 29.85	-20 45.5	4.400	5.337	4.2	19.3	9 28	0 30.79	+ 8 58.9	1.974	2.970	2.6	19.8
10 8	0 24.76	-21 5.7	4.428	5.331	5.0	19.4	10 8	0 22.44	+ 8 28.7	1.987	2.979	2.8	19.9
10 18	0 19.96	-21 14.9	4.483	5.325	6.2	19.5	10 18	0 14.79	+ 7 56.5	2.029	2.989	6.3	20.1
10 28	0 15.79	-21 12.3	4.562	5.319	7.5	19.6	10 28	0 8.60	+ 7 27.4	2.098	2.998	9.6	20.3
11 7	0 12.51	-20 58.1	4.663	5.313	8.6	19.7	11 7	0 4.36	+ 7 5.5	2.191	3.007	12.6	20.5
470055	2006 <i>SJ</i> ₂₀₇		9 30.7 173°44	1.4/ 1.8	16		469703	2005 <i>EN</i> ₂₅₃		9 30.8 153°55	1.7/29.1	17	
8 29	0 55.71	+ 7 41.4	1.560	2.422	15.5	21.8	8 29	0 53.31	+ 2 12.2	1.710	2.586	13.7	21.9
9 8	0 49.62	+ 7 37.9	1.492	2.423	11.6	21.6	9 8	0 47.59	+ 1 7.7	1.650	2.593	9.8	21.7
9 18	0 41.19	+ 7 19.6	1.446	2.424	7.1	21.3	9 18	0 39.88	- 0 7.6	1.615	2.600	5.5	21.5
9 28	0 31.27	+ 6 49.6	1.426	2.425	2.4	21.1	9 28	0 30.99	- 1 26.8	1.606	2.606	1.8	21.2
10 8	0 21.04	+ 6 13.0	1.432	2.425	3.5	21.1	10 8	0 21.94	- 2 41.7	1.626	2.612	4.5	21.4
10 18	0 11.74	+ 5 36.4	1.466	2.425	8.2	21.4	10 18	0 13.78	- 3 45.0	1.673	2.617	8.8	21.7
10 28	0 4.44	+ 5 6.3	1.524	2.425	12.5	21.7	10 28	0 7.38	- 4 31.0	1.746	2.621	12.6	21.9
11 7	23 59.80	+ 4 47.7	1.605	2.425	16.2	21.9	11 7	0 3.32	- 4 57.4	1.839	2.625	15.8	22.2
43262	2000 <i>DL</i> ₄		9 30.7 251°43	0°2/30.5	18		399969	2006 <i>BV</i> ₁₀₇		9 30.8 351°01	2°0/ 2.6	18	
8 29	0 49.74	+ 3 41.2	2.467	3.329	10.5	18.7	8 29	0 49.60	+ 9 35.4	1.810	2.668	13.9	20.2
9 8	0 44.62	+ 3 21.4	2.386	3.320	7.7	18.5	9 8	0 44.98	+ 9 36.3	1.736	2.663	10.5	20.0
9 18	0 38.05	+ 2 53.8	2.329	3.311	4.4	18.3	9 18	0 38.45	+ 9 22.9	1.685	2.660	6.7	19.8
9 28	0 30.57	+ 2 21.6	2.301	3.302	0.9	18.0	9 28	0 30.69	+ 8 57.4	1.660	2.656	2.9	19.5
10 8	0 22.87	+ 1 48.7	2.302	3.293	2.7	18.2	10 8	0 22.65	+ 8 24.0	1.661	2.654	3.1	19.5
10 18	0 15.65	+ 1 19.0	2.332	3.284	6.2	18.4	10 18	0 15.30	+ 7 48.2	1.690	2.652	7.0	19.8
10 28	0 9.60	+ 0 56.4	2.390	3.274	9.3	18.6	10 28	0 9.53	+ 7 15.8	1.744	2.650	10.9	20.0
11 7	0 5.21	+ 0 43.7	2.471	3.264	12.0	18.8	11 7	0 5.94	+ 6 52.0	1.820	2.649	14.2	20.2
94204	2001 <i>BR</i> ₂₄		9 30.7 66°30	5°5/24.4	18 R		442416	2011 <i>UV</i> ₁₁₁		9 30.8 341°12	3°0/ 3.8	18	
8 29	0 48.78	-11 23.4	2.081	2.972	11.0	18.9	8 29	0 50.03	+13 51.7	1.887	2.725	14.3	20.9
9 8	0 44.01	-12 38.0	2.036	2.980	8.2	18.8	9 8	0 45.24	+13 39.1	1.812	2.725	11.0	20.7
9 18	0 37.68	-13 49.8	2.017	2.988	6.0	18.7	9 18	0 38.57	+13 8.3	1.760	2.724	7.4	20.4
9 28	0 30.47	-14 51.8	2.024	2.996	5.7	18.7	9 28	0 30.72	+12 21.4	1.733	2.723	3.9	20.2
10 8	0 23.19	-15 37.9	2.059	3.004	7.4	18.8	10 8	0 22.61	+11 23.0	1.733	2.723	3.5	20.2
10 18	0 16.63	-16 4.4	2.119	3.013	10.0	19.0	10 18	0 15.20	+10 19.6	1.761	2.723	6.8	20.4
10 28	0 11.47	-16 9.8	2.203	3.021	12.6	19.2	10 28	0 9.34	+ 9 18.3	1.815	2.722	10.4	20.6
11 7	0 8.17	-15 55.0	2.307	3.029	14.8	19.3	11 7	0 5.63	+ 8 25.7	1.892	2.722	13.7	20.8
447243	2005 <i>UM</i> ₂₀₈		9 30.7 318°53	0°3/30.5	17		44358	1998 <i>SX</i> ₈		9 30.8 6°34	0°2/30.5	18	
8 29	0 47.87	+ 4 54.3	1.790	2.666	13.2	21.9	8 29	0 43.99	+ 8 40.0	1.329	2.216	16.2	17.2
9 8	0 43.78	+ 4 17.8	1.710	2.651	9.7	21.6	9 8	0 41.30	+ 7 9.4	1.270	2.216	11.9	17.0
9 18	0 37.79	+ 3 28.6	1.652	2.636	5.6	21.3	9 18	0 36.45	+ 5 15.9	1.232	2.217	6.8	16.7
9 28	0 30.54	+ 2 31.1	1.621	2.622	1.2	21.0	9 28	0 30.26	+ 3 8.2	1.219	2.220	1.4	16.4
10 8	0 22.95	+ 1 31.7	1.616	2.608	3.5	21.2	10 8	0 23.85	+ 0 59.0	1.231	2.223	4.1	16.6
10 18	0 15.97	+ 0 37.2	1.639	2.594	7.9	21.4	10 18	0 18.34	- 0 59.0	1.269	2.228	9.3	16.9
10 28	0 10.52	- 0 6.0	1.686	2.581	11.9	21.6	10 28	0 14.70	- 2 35.3	1.331	2.233	13.9	17.2
11 7	0 7.22	- 0 33.7	1.756	2.568	15.4	21.8	11 7	0 13.51	- 3 44.1	1.413	2.240	17.7	17.4
339326	2004 <i>XV</i> ₁₄₂		9 30.8 250°07	0°0/30.6	18		333713	2009 <i>DJ</i> ₁₃₈		9 30.8 312°58	0°2/30.5	18	
8 29	0 52.53	+ 4 52.3	1.955	2.820	12.8	21.6	8 29	0 47.40	+ 6 26.0	1.635	2.512	14.2	20.8
9 8	0 47.04	+ 4 28.2	1.871	2.806	9.4	21.3	9 8	0 43.59	+ 5 29.1	1.556	2.498	10.4	20.5
9 18	0 39.63	+ 3 53.0	1.811	2.792	5.5	21.1	9 18	0 37.74	+ 4 15.3	1.500	2.484	6.0	20.2
9 28	0 30.95	+ 3 10.3	1.777	2.778	1.2	20.7	9 28	0 30.56	+ 2 50.3	1.470	2.471	1.3	19.9
10 8	0 21.91	+ 2 25.4	1.772	2.764	3.2	20.9	10 8	0 23.02	+ 1 22.3	1.467	2.458	3.7	20.0
10 18	0 13.47	+ 1 43.9	1.796	2.749	7.5	21.1	10 18	0 16.16	+ 0 0.4	1.490	2.446	8.4	20.3
10 28	0 6.55	+ 1 11.3	1.845	2.734	11.3	21.3	10 28	0 10.95	- 1 7.4	1.538	2.434	12.8	20.5
11 7	0 1.76	+ 0 51.4	1.917	2.718	14.7	21.5	11 7	0 8.04	- 1 55.7	1.607	2.422	16.4	20.7
353869	2012 <i>WE</i> ₈		9 30.8 115°44	5°8/ 6.9	18		221109	2005 <i>SN</i> ₁₆₁		9 30.8 316°17	0°7/ 1.3	18	
8 29	0 51.72	+22 0.7	1.950	2.742	15.6	20.2	8 29	0 50.23	+ 6 34.2	1.311	2.195	16.6	20.8
9 8	0 46.44	+22 4.9	1.878	2.750	12.7	20.0	9 8	0 46.19	+ 6 17.0	1.231	2.175	12.4	20.5
9 18	0 39.24	+21 46.0	1.827	2.758	9.7	19.8	9 18	0 39.52	+ 5 42.2	1.172	2.156	7.4	20.2
9 28	0 30.85	+21 4.1	1.800	2.766	6.9	19.7	9 28	0 31.00	+ 4 53.9	1.136	2.137	2.0	19.8
10 8	0 22.24	+20 2.7	1.800	2.773	5.8	19.7	10 8	0 21.86	+ 3 59.1	1.125	2.118	4.0	19.8
10 18	0 14.39	+18 47.8	1.827	2.781	7.3	19.8	10 18	0 13.51	+ 3 6.7	1.138	2.101	9.6	20.1
10 28	0 8.19	+17 27.9	1.881	2.788	10.1	20.0	10 28	0 7.25	+ 2 25.4	1.175	2.084	14.7	20.4
11 7	0 4.20	+16 11.1	1.958	2.795	13.0	20.2	11 7	0 3.93	+ 2 1.3	1.230	2.068	19.1	20.6
29543	1998 <i>BV</i> ₂₉		9 30.8 315°89	6°4/24.6	18		418276	2008 <i>EJ</i> ₉₀		9 30.8 239°56	0°0/30.8	16	
8 29	0 50.42	-11											

EPHEMERIDES

9 30.8

9 30.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
474247	2001 <i>SH</i> ₆₁		9 30.8 355°70	1°1/ 1.7 18			208027	1999 <i>JQ</i> ₇₇		9 30.8 47°40	6°1/26.9 17		
8 29	0 36.29	+10 55.5	0.868	1.780	20.1	18.8	8 29	0 57.00	- 5 54.4	0.938	1.850	18.9	19.0
9 8	0 36.51	+ 9 48.5	0.812	1.769	15.1	18.5	9 8	0 50.64	- 7 14.4	0.928	1.886	13.5	18.8
9 18	0 34.04	+ 8 6.3	0.773	1.760	9.2	18.2	9 18	0 41.58	- 8 32.8	0.937	1.923	8.3	18.7
9 28	0 29.78	+ 5 57.7	0.754	1.755	2.8	17.8	9 28	0 31.33	- 9 36.9	0.970	1.961	6.1	18.7
10 8	0 25.13	+ 3 38.8	0.756	1.751	4.4	17.9	10 8	0 21.60	-10 17.3	1.025	1.999	9.0	19.0
10 18	0 21.53	+ 1 28.2	0.779	1.751	10.8	18.3	10 18	0 13.79	-10 29.8	1.102	2.037	13.3	19.3
10 28	0 20.27	- 0 17.3	0.822	1.753	16.6	18.6	10 28	0 8.81	-10 14.9	1.200	2.075	17.2	19.7
11 7	0 22.00	- 1 28.4	0.882	1.758	21.4	18.9	11 7	0 6.96	- 9 36.3	1.315	2.113	20.3	20.0
445789	2012 <i>AK</i> ₄		9 30.8 315°06	1°0/29.8 18			523639	2010 <i>RE</i> ₆₄		9 30.8 322°48	0°2/25.3 17		
8 29	0 49.17	+ 2 34.2	1.867	2.745	12.7	21.0	8 29	0 30.49	-10 22.6	50.251	51.132	0.6	21.6
9 8	0 44.61	+ 1 58.0	1.793	2.736	9.2	20.8	9 8	0 29.94	-10 27.0	50.181	51.122	0.4	21.5
9 18	0 38.21	+ 1 12.0	1.743	2.728	5.2	20.5	9 18	0 29.34	-10 31.3	50.138	51.111	0.3	21.5
9 28	0 30.66	+ 0 20.9	1.719	2.720	1.3	20.2	9 28	0 28.71	-10 35.2	50.123	51.101	0.2	21.5
10 8	0 22.83	- 0 29.0	1.723	2.712	3.7	20.4	10 8	0 28.08	-10 38.8	50.138	51.090	0.3	21.5
10 18	0 15.66	- 1 11.9	1.754	2.705	7.9	20.6	10 18	0 27.46	-10 41.7	50.181	51.080	0.5	21.5
10 28	0 9.99	- 1 42.6	1.811	2.698	11.6	20.9	10 28	0 26.88	-10 44.0	50.252	51.069	0.6	21.6
11 7	0 6.41	- 1 58.1	1.889	2.691	14.9	21.1	11 7	0 26.36	-10 45.4	50.347	51.059	0.8	21.6
245578	2005 <i>UQ</i> ₃₃₆		9 30.8 108°84	1°0/29.2 18			160140	2001 <i>DZ</i> ₃		9 30.8 7°73	3°7/ 7.5 18 R		
8 29	0 45.49	+ 0 32.6	3.250	4.118	8.1	20.9	8 29	0 46.62	+22 32.1	4.155	4.910	8.5	19.2
9 8	0 41.21	- 0 2.1	3.186	4.125	5.8	20.8	9 8	0 41.98	+22 53.6	4.067	4.910	7.1	19.1
9 18	0 35.96	- 0 41.0	3.149	4.133	3.2	20.6	9 18	0 36.41	+23 4.2	4.002	4.911	5.5	19.0
9 28	0 30.14	- 1 21.2	3.140	4.140	1.1	20.4	9 28	0 30.28	+23 4.0	3.964	4.911	4.2	18.9
10 8	0 24.24	- 1 59.2	3.162	4.147	2.6	20.6	10 8	0 23.98	+22 53.7	3.955	4.912	3.7	18.9
10 18	0 18.74	- 2 32.1	3.213	4.154	5.1	20.8	10 18	0 17.97	+22 35.3	3.974	4.913	4.3	18.9
10 28	0 14.09	- 2 57.3	3.291	4.161	7.5	20.9	10 28	0 12.66	+22 11.2	4.023	4.914	5.7	19.0
11 7	0 10.63	- 3 12.9	3.395	4.167	9.5	21.1	11 7	0 8.39	+21 44.6	4.098	4.914	7.2	19.1
212816	2007 <i>TM</i> ₄₃₆		9 30.8 182°52	1°8/29.0 18			510689	2012 <i>UA</i> ₁₁₅		9 30.8 110°56	0°0/30.9 18		
8 29	0 50.79	+ 0 41.2	1.846	2.726	12.7	20.5	8 29	0 54.11	+ 4 53.5	1.776	2.642	13.8	21.4
9 8	0 45.71	- 0 6.1	1.782	2.727	9.1	20.2	9 8	0 48.13	+ 4 35.5	1.716	2.652	10.0	21.2
9 18	0 38.81	- 1 1.7	1.741	2.727	5.1	20.0	9 18	0 40.20	+ 4 6.6	1.679	2.661	5.8	21.0
9 28	0 30.79	- 1 59.8	1.727	2.727	1.9	19.8	9 28	0 31.11	+ 3 30.7	1.669	2.670	1.3	20.7
10 8	0 22.57	- 2 53.8	1.741	2.726	4.3	20.0	10 8	0 21.88	+ 2 53.3	1.687	2.679	3.2	20.9
10 18	0 15.09	- 3 37.9	1.782	2.726	8.3	20.2	10 18	0 13.52	+ 2 19.8	1.733	2.688	7.6	21.2
10 28	0 9.19	- 4 7.2	1.849	2.726	11.9	20.4	10 28	0 6.90	+ 1 55.3	1.805	2.697	11.4	21.4
11 7	0 5.40	- 4 19.6	1.937	2.725	15.0	20.6	11 7	0 2.56	+ 1 43.1	1.899	2.705	14.6	21.7
301362	2009 <i>CD</i> ₄₃		9 30.8 266°02	2°5/ 2.8 18			93253	2000 <i>SB</i> ₁₆₁		9 30.8 249°03	8°3/22.9 18		
8 29	0 54.36	+10 21.9	1.919	2.763	13.8	20.5	8 29	0 55.45	-19 4.0	1.862	2.741	12.6	18.5
9 8	0 48.49	+10 35.0	1.832	2.750	10.6	20.3	9 8	0 49.17	-20 8.4	1.806	2.732	10.2	18.3
9 18	0 40.55	+10 34.5	1.768	2.737	6.9	20.0	9 18	0 40.84	-21 3.5	1.774	2.723	8.6	18.2
9 28	0 31.20	+10 21.5	1.730	2.724	3.3	19.8	9 28	0 31.26	-21 40.8	1.767	2.714	8.6	18.2
10 8	0 21.42	+ 9 59.0	1.720	2.711	3.4	19.8	10 8	0 21.49	-21 54.1	1.786	2.704	10.3	18.3
10 18	0 12.24	+ 9 31.7	1.738	2.698	7.1	20.0	10 18	0 12.59	-21 40.8	1.830	2.694	12.8	18.4
10 28	0 6.65	+ 9 5.2	1.783	2.684	11.0	20.2	10 28	0 5.48	-21 1.2	1.896	2.684	15.4	18.6
11 7	23 59.34	+ 8 44.8	1.851	2.670	14.4	20.4	11 7	0 0.74	-19 58.8	1.979	2.674	17.7	18.7
324264	2006 <i>BN</i> ₂₃₉		9 30.8 285°18	1°0/29.7 17			448998	2012 <i>BH</i> ₄₇		9 30.8 257°21	2°4/ 3.4 18		
8 29	0 48.77	+ 2 8.8	2.199	3.072	11.2	21.2	8 29	0 50.06	+12 23.3	2.330	3.163	12.1	21.6
9 8	0 44.09	+ 1 33.6	2.121	3.062	8.1	21.0	9 8	0 45.05	+12 15.2	2.240	3.151	9.3	21.4
9 18	0 37.84	+ 0 50.3	2.067	3.052	4.6	20.8	9 18	0 38.42	+11 53.2	2.173	3.139	6.1	21.1
9 28	0 30.59	+ 0 3.0	2.041	3.042	1.2	20.5	9 28	0 30.74	+11 18.8	2.134	3.126	3.1	20.9
10 8	0 23.09	- 0 43.1	2.044	3.032	3.4	20.7	10 8	0 22.76	+10 35.4	2.123	3.113	3.0	20.9
10 18	0 16.14	- 1 23.1	2.075	3.022	7.0	20.9	10 18	0 15.26	+ 9 47.7	2.141	3.101	6.0	21.1
10 28	0 10.47	- 1 52.6	2.132	3.013	10.4	21.1	10 28	0 9.01	+ 9 1.2	2.186	3.088	9.2	21.3
11 7	0 6.59	- 2 8.8	2.211	3.003	13.3	21.3	11 7	0 4.56	+ 8 20.8	2.256	3.074	12.2	21.4
79936	1999 <i>CO</i> ₇₂		9 30.8 231°12	0°8/ 1.7 18			15847	1995 <i>WA</i> ₂		9 30.8 277°06	1°0/ 1.7 18		
8 29	0 48.60	+ 9 7.3	2.147	3.000	12.2	19.8	8 29	0 51.70	+ 8 36.6	1.580	2.445	15.2	19.0
9 8	0 44.01	+ 8 19.0	2.066	2.993	9.1	19.6	9 8	0 46.95	+ 8 4.3	1.491	2.424	11.5	18.7
9 18	0 37.80	+ 7 16.0	2.009	2.987	5.5	19.3	9 18	0 39.85	+ 7 13.4	1.424	2.403	7.0	18.4
9 28	0 30.58	+ 6 2.4	1.980	2.980	1.7	19.1	9 28	0 31.10	+ 6 7.6	1.382	2.382	2.2	18.0
10 8	0 23.12	+ 4 43.8	1.980	2.972	2.7	19.1	10 8	0 21.79	+ 4 53.6	1.368	2.361	3.5	18.1
10 18	0 16.22	+ 3 27.1	2.008	2.965	6.5	19.4	10 18	0 13.12	+ 3 40.1	1.379	2.339	8.5	18.3
10 28	0 10.65	+ 2 18.6	2.064	2.957	10.1	19.6	10 28	0 6.27	+ 2 36.1	1.416	2.317	13.3	18.6
11 7	0 6.93	+ 1 23.3	2.143	2.950	13.1	19.8	11 7	0 2.00	+ 1 48.2	1.473	2.295	17.3	18.8
308945	2006 <i>TY</i> ₁		9 30.8 343°73	1°0/ 1.7 18			69758	1998 <i>OP</i> ₁₀		9 30.8 109°56	4°7/ 5.5 18 R		
8 29	0 49.30	+ 7 55.3	1.703	2.571	14.2	21.2	8 29	0 54.37	+18 12.3	1.983	2.791	14.8	18.5
9 8	0 44.85	+ 7 33.2	1.632	2.566	10.6	21.0	9 8	0 48.27	+18 26.0	1.918	2.805	11.8	18.4
9 18	0 38.42	+ 6 56.2	1.583	2.562	6.4	20.7	9 18	0 40.28	+18 20.3	1.874	2.819	8.6	18.2
9 28	0 30.73	+ 6 8.0	1.559	2.559	2.0	20.4	9 28	0 31.14	+17 55.5	1.856	2.832	5.7	18.1
10 8	0 22.76	+ 5 14.5	1.563	2.556	3.1	20.5	10 8	0 21.83	+17 14.9	1.866	2.845	4.9	18.0
10 18	0 15.52	+ 4 22.3	1.593	2.553	7.5	20.8	10 18	0 13.31	+16 23.8	1.903	2.858	6.9	18.2
10 28	0 9.94	+ 3 38.3	1.648	2.551	11.6	21.0	10 28	0 6.46	+15 29.2	1.967	2.871	10.0	18.4
11 7	0 6.62	+ 3 7.2	1.725	2.549	15.1	21.3	11 7	0 1.82	+14 38.0	2.055	2.883	12.8	18.6
283705	2002 <i>SX</i>		9 30.8 342°51	19°0/ 7.4 17			825	Tanina		9 30.8 148°64	2°5/28.8 18 R		
8 29	0 58.30	+32 42.0											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
211752	2004 <i>AK</i> ₉		9 30.8 237°48	0°3/30.4	18		63261	2001 <i>CA</i> ₂		9 30.8 227°96	4°2/25.6	18	
8 29	0 49.32	+ 5 37.2	2.269	3.129	11.4	21.3	8 29	0 48.41	- 8 6.0	2.300	3.187	10.2	19.5
9 8	0 44.50	+ 4 43.1	2.183	3.117	8.3	21.0	9 8	0 43.74	- 9 13.1	2.239	3.185	7.5	19.3
9 18	0 38.10	+ 3 37.1	2.122	3.103	4.8	20.8	9 18	0 37.61	-10 20.7	2.204	3.182	5.0	19.2
9 28	0 30.68	+ 2 23.5	2.089	3.090	1.0	20.5	9 28	0 30.60	-11 22.9	2.196	3.179	4.3	19.1
10 8	0 22.99	+ 1 8.3	2.085	3.076	3.0	20.6	10 8	0 23.44	-12 13.8	2.217	3.176	6.1	19.2
10 18	0 15.81	- 0 2.5	2.111	3.061	6.8	20.9	10 18	0 16.85	-12 49.2	2.265	3.172	8.8	19.4
10 28	0 9.87	- 1 3.0	2.164	3.046	10.2	21.1	10 28	0 11.50	-13 6.5	2.337	3.169	11.5	19.6
11 7	0 5.71	- 1 49.2	2.240	3.030	13.2	21.2	11 7	0 7.87	-13 5.4	2.431	3.166	13.8	19.7
515952	2015 <i>RL</i> ₆₅		9 30.8 31°47	1°1/29.8	18		160391	2004 <i>NJ</i> ₂₀		9 30.8 112°96	5°4/25.2	18	
8 29	0 50.23	+ 2 3.5	1.857	2.735	12.7	21.0	8 29	0 52.85	- 8 22.5	1.826	2.715	12.4	20.5
9 8	0 45.29	+ 1 31.7	1.795	2.738	9.2	20.8	9 8	0 47.06	- 9 59.2	1.789	2.734	9.0	20.4
9 18	0 38.57	+ 0 51.2	1.757	2.742	5.2	20.5	9 18	0 39.51	-11 35.0	1.777	2.753	6.2	20.2
9 28	0 30.77	+ 0 7.0	1.745	2.746	1.3	20.3	9 28	0 31.00	-13 1.1	1.793	2.772	5.5	20.2
10 8	0 22.81	- 0 35.3	1.761	2.750	3.7	20.5	10 8	0 22.49	-14 9.7	1.836	2.790	7.6	20.4
10 18	0 15.60	- 1 10.2	1.805	2.755	7.7	20.7	10 18	0 14.91	-14 56.1	1.906	2.807	10.6	20.6
10 28	0 9.93	- 1 33.3	1.873	2.759	11.4	21.0	10 28	0 9.00	-15 18.4	1.999	2.823	13.4	20.8
11 7	0 6.35	- 1 42.0	1.964	2.764	14.4	21.2	11 7	0 5.25	-15 17.5	2.112	2.839	15.8	21.1
230938	2004 <i>XR</i> ₇		9 30.8 272°24	2°5/27.9	18		339327	2004 <i>XS</i> ₁₄₃		9 30.8 330°86	1°3/1.8	18	
8 29	0 49.38	- 3 15.1	2.325	3.205	10.4	20.0	8 29	0 50.89	+ 7 29.6	1.426	2.302	16.0	20.0
9 8	0 44.46	- 3 54.5	2.250	3.195	7.5	19.8	9 8	0 46.44	+ 7 22.7	1.353	2.291	12.0	19.8
9 18	0 38.03	- 4 37.8	2.200	3.184	4.4	19.6	9 18	0 39.57	+ 6 59.6	1.301	2.281	7.3	19.5
9 28	0 30.66	- 5 20.2	2.178	3.174	2.5	19.5	9 28	0 31.08	+ 6 23.6	1.272	2.272	2.4	19.2
10 8	0 23.07	- 5 56.7	2.185	3.163	4.5	19.6	10 8	0 22.16	+ 5 40.8	1.270	2.263	3.6	19.2
10 18	0 16.01	- 6 23.3	2.220	3.152	7.6	19.8	10 18	0 14.06	+ 4 58.4	1.293	2.255	8.6	19.5
10 28	0 10.18	- 6 36.7	2.280	3.141	10.6	19.9	10 28	0 7.95	+ 4 24.0	1.339	2.248	13.3	19.8
11 7	0 6.07	- 6 35.5	2.363	3.131	13.2	20.1	11 7	0 4.53	+ 4 3.0	1.406	2.241	17.3	20.0
25613	Bubeníček		9 30.8 21°78	1°9/29.2	18		83975	2002 <i>AD</i> ₁₈₄		9 30.8 109°89	2°4/25.8	18	
8 29	0 51.12	+ 0 23.1	1.582	2.469	14.0	18.6	8 29	0 42.49	- 8 37.4	4.362	5.242	6.0	19.9
9 8	0 46.19	- 0 14.6	1.524	2.472	10.1	18.3	9 8	0 38.91	- 9 16.9	4.303	5.244	4.3	19.8
9 18	0 39.18	- 1 0.7	1.488	2.475	5.7	18.1	9 18	0 34.62	- 9 56.1	4.271	5.247	2.9	19.7
9 28	0 30.92	- 1 49.2	1.478	2.478	2.0	17.9	9 28	0 29.93	-10 32.2	4.268	5.250	2.4	19.6
10 8	0 22.48	- 2 33.0	1.495	2.482	4.7	18.1	10 8	0 25.17	-11 2.7	4.295	5.252	3.5	19.7
10 18	0 14.92	- 3 6.1	1.538	2.486	9.0	18.3	10 18	0 20.69	-11 25.7	4.351	5.255	5.0	19.8
10 28	0 9.17	- 3 23.7	1.605	2.491	13.0	18.6	10 28	0 16.81	-11 39.7	4.434	5.258	6.6	19.9
11 7	0 5.82	- 3 23.9	1.693	2.495	16.3	18.8	11 7	0 13.79	-11 44.1	4.540	5.260	8.0	20.1
130916	2000 <i>WY</i> ₄		9 30.8 334°71	14°4/16.7	18		238225	2003 <i>UA</i> ₁₅₇		9 30.8 250°96	10°3/21.9	18	
8 29	0 53.22	+40 18.6	1.692	2.369	21.6	19.1	8 29	0 59.41	-25 46.6	1.872	2.732	13.4	20.1
9 8	0 48.60	+41 41.7	1.613	2.363	19.9	18.9	9 8	0 52.00	-26 40.1	1.824	2.727	11.5	20.0
9 18	0 41.06	+42 31.2	1.549	2.358	18.0	18.7	9 18	0 42.45	-27 17.5	1.800	2.722	10.4	19.9
9 28	0 31.42	+42 39.9	1.501	2.353	16.1	18.6	9 28	0 31.66	-27 30.6	1.801	2.717	10.5	19.9
10 8	0 21.04	+42 4.6	1.472	2.348	14.8	18.5	10 8	0 20.82	-27 14.5	1.826	2.712	11.9	20.0
10 18	0 11.51	+40 47.6	1.463	2.344	14.4	18.5	10 18	0 11.05	-26 28.5	1.875	2.706	14.0	20.1
10 28	0 4.31	+38 57.8	1.476	2.341	15.1	18.5	10 28	0 3.30	-25 15.2	1.945	2.701	16.2	20.3
11 7	0 0.36	+36 48.7	1.509	2.338	16.6	18.6	11 7	23 58.10	-23 39.7	2.033	2.695	18.1	20.4
49165	1998 <i>SU</i> ₅₆		9 30.8 45°16	0°0/30.6	17		246550	2008 <i>SO</i> ₄₇		9 30.8 6°01	0°6/1.7	17	R
8 29	0 56.61	+ 3 48.6	1.149	2.038	18.1	18.1	8 29	0 42.85	+ 7 41.6	3.112	3.964	8.8	19.0
9 8	0 50.53	+ 3 48.8	1.110	2.057	13.1	17.9	9 8	0 39.44	+ 7 11.6	3.039	3.966	6.5	18.8
9 18	0 41.76	+ 3 35.9	1.091	2.076	7.6	17.6	9 18	0 35.03	+ 6 33.2	2.991	3.969	3.9	18.6
9 28	0 31.49	+ 3 14.8	1.096	2.097	1.7	17.3	9 28	0 30.03	+ 5 49.0	2.972	3.971	1.2	18.4
10 8	0 21.25	+ 2 52.3	1.125	2.118	4.2	17.6	10 8	0 24.92	+ 5 2.3	2.982	3.975	1.9	18.5
10 18	0 12.47	+ 2 35.1	1.179	2.139	9.6	17.9	10 18	0 20.19	+ 4 16.7	3.021	3.978	4.6	18.7
10 28	0 6.25	+ 2 28.8	1.256	2.161	14.2	18.3	10 28	0 16.29	+ 3 35.7	3.088	3.982	7.1	18.9
11 7	0 3.13	+ 2 36.2	1.352	2.183	18.0	18.6	11 7	0 13.58	+ 3 2.3	3.180	3.987	9.3	19.0
505712	2015 <i>AO</i> ₁₃₂		9 30.8 268°61	3°7/3.5	17		444116	2004 <i>TK</i> ₁₅₁		9 30.8 301°02	1°4/2.4	18	
8 29	0 54.49	+12 54.5	1.414	2.266	17.4	21.3	8 29	0 47.13	+10 33.3	2.094	2.945	12.6	20.9
9 8	0 49.18	+13 1.8	1.337	2.257	13.5	21.1	9 8	0 43.06	+ 9 54.7	2.009	2.933	9.5	20.7
9 18	0 41.22	+12 48.0	1.280	2.248	9.1	20.8	9 18	0 37.34	+ 9 0.5	1.948	2.922	5.9	20.4
9 28	0 31.44	+12 13.8	1.247	2.239	4.8	20.5	9 28	0 30.56	+ 7 53.8	1.913	2.911	2.3	20.2
10 8	0 21.13	+11 24.2	1.239	2.230	4.5	20.5	10 8	0 23.51	+ 6 40.1	1.907	2.900	2.7	20.2
10 18	0 11.67	+10 26.6	1.257	2.221	8.7	20.7	10 18	0 17.00	+ 5 25.9	1.929	2.889	6.4	20.4
10 28	0 4.36	+ 9 30.7	1.300	2.211	13.4	21.0	10 28	0 11.80	+ 4 18.0	1.977	2.878	10.1	20.6
11 7	23 59.99	+ 8 44.7	1.363	2.202	17.5	21.2	11 7	0 8.47	+ 3 21.9	2.049	2.867	13.2	20.8
272637	2005 <i>WV</i> ₇₆		9 30.8 56°68	2°6/28.9	17		164579	2006 <i>SW</i> ₃₅₃		9 30.8 8°27	5°6/27.6	18	
8 29	0 54.33	- 1 25.9	1.425	2.315	15.1	19.9	8 29	0 54.60	- 7 19.3	1.084	1.994	17.2	19.7
9 8	0 48.59	- 1 59.3	1.377	2.326	10.8	19.7	9 8	0 49.41	- 7 50.5	1.037	1.994	12.6	19.4
9 18	0 40.57	- 2 39.0	1.350	2.337	6.2	19.5	9 18	0 41.31	- 8 21.5	1.010	1.996	8.0	19.2
9 28	0 31.24	- 3 18.5	1.349	2.348	2.6	19.3	9 28	0 31.44	- 8 43.4	1.006	1.998	5.6	19.1
10 8	0 21.83	- 3 50.7	1.375	2.360	5.4	19.5	10 8	0 21.39	- 8 47.8	1.024	2.002	8.3	19.2
10 18	0 13.53	- 4 9.8	1.426	2.371	9.8	19.8	10 18	0 12.71	- 8 30.3	1.066	2.006	12.9	19.5
10 28	0 7.32	- 4 12.2	1.500	2.383	13.8	20.1	10 28	0 6.64	- 7 49.8	1.128	2.012	17.3	19.8
11 7	0 3.75	- 3 57.1	1.595	2.395	17.2	20.3	11 7	0 3.81	- 6 48.5	1.207	2.018	21.0	20.1
222836	2002 <i>ES</i> ₁₉		9 30.8 89°43	0°9/1.7	18		450529	2006 <i>BK</i> ₁₀₈		9			

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9 30.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
235264	2003 <i>TD</i> ₄		9 30.8 139°80	3°2/ 4.4	18		22632	DiNovis		9 30.8 81°56	1°2/29.8	18	R
8 29	0 51.19	+15 44.6	2.066	2.889	13.8	20.6	8 29	0 53.97	+ 3 18.9	1.398	2.281	15.8	18.3
9 8	0 45.92	+15 19.5	1.996	2.898	10.7	20.4	9 8	0 48.33	+ 2 27.7	1.353	2.298	11.3	18.1
9 18	0 38.93	+14 35.6	1.948	2.906	7.3	20.2	9 18	0 40.44	+ 1 24.0	1.329	2.315	6.4	17.8
9 28	0 30.92	+13 35.5	1.926	2.914	4.1	20.0	9 28	0 31.28	+ 0 15.3	1.331	2.332	1.6	17.6
10 8	0 22.73	+12 23.8	1.932	2.921	3.5	20.0	10 8	0 22.08	- 0 49.7	1.359	2.349	4.5	17.8
10 18	0 15.25	+11 7.3	1.967	2.928	6.3	20.2	10 18	0 14.02	- 1 43.2	1.414	2.365	9.3	18.1
10 28	0 9.26	+ 9 53.1	2.030	2.934	9.7	20.4	10 28	0 8.08	- 2 19.5	1.492	2.382	13.5	18.4
11 7	0 5.28	+ 8 47.6	2.117	2.941	12.7	20.6	11 7	0 4.77	- 2 36.1	1.591	2.398	16.9	18.7
97236	1999 <i>XW</i> ₇₅		9 30.8 190°77	7°5/13.6	18		314690	2006 <i>RD</i> ₁₂		9 30.8 339°68	4°9/26.5	18	
8 29	0 50.70	+36 21.1	3.149	3.803	12.8	20.0	8 29	0 41.67	- 2 52.1	1.116	2.038	15.8	19.0
9 8	0 45.36	+36 37.3	3.055	3.801	11.4	19.9	9 8	0 40.23	- 4 11.9	1.042	2.007	11.5	18.7
9 18	0 38.57	+36 32.9	2.980	3.799	9.9	19.8	9 18	0 36.24	- 5 44.9	0.988	1.978	7.0	18.4
9 28	0 30.84	+36 6.1	2.926	3.797	8.5	19.7	9 28	0 30.44	- 7 20.3	0.956	1.951	5.0	18.2
10 8	0 22.89	+35 17.6	2.898	3.794	7.6	19.7	10 8	0 24.04	- 8 44.4	0.947	1.926	8.5	18.3
10 18	0 15.41	+34 10.0	2.896	3.791	7.6	19.6	10 18	0 18.42	- 9 45.2	0.959	1.903	13.6	18.5
10 28	0 9.10	+32 48.1	2.921	3.787	8.4	19.7	10 28	0 14.89	-10 14.4	0.990	1.882	18.5	18.7
11 7	0 4.44	+31 18.6	2.972	3.783	9.8	19.8	11 7	0 14.32	-10 9.7	1.038	1.864	22.7	18.9
52317	1992 <i>BC</i> ₁		9 30.8 336°26	16°8/ 6.8	18		406749	2008 <i>JJ</i> ₁₀		9 30.8 70°64	0°9/29.9	18	
8 29	0 35.19	-23 42.2	0.892	1.823	17.6	16.3	8 29	0 49.97	+ 2 45.4	2.076	2.947	11.8	21.6
9 8	0 36.02	-28 15.9	0.849	1.790	16.8	16.1	9 8	0 44.88	+ 2 7.0	2.024	2.964	8.5	21.4
9 18	0 34.00	-32 36.2	0.828	1.758	18.1	16.1	9 18	0 38.27	+ 1 20.5	1.997	2.982	4.8	21.2
9 28	0 29.92	-36 13.9	0.826	1.728	21.1	16.1	9 28	0 30.80	+ 0 30.7	1.998	2.999	1.1	21.0
10 8	0 25.19	-38 47.7	0.841	1.700	24.6	16.2	10 8	0 23.27	- 0 17.2	2.027	3.016	3.3	21.2
10 18	0 21.45	-40 8.5	0.869	1.675	28.1	16.4	10 18	0 16.48	- 0 58.0	2.084	3.033	6.9	21.4
10 28	0 20.24	-40 17.6	0.906	1.652	31.1	16.5	10 28	0 11.10	- 1 27.8	2.168	3.050	10.2	21.7
11 7	0 22.44	-39 24.1	0.949	1.633	33.5	16.6	11 7	0 7.57	- 1 44.3	2.274	3.068	12.9	21.9
255313	2005 <i>WJ</i> ₁₉		9 30.8 305°26	5°1/25.0	18		252560	2001 <i>WF</i> ₁₁		9 30.8 277°66	1°2/29.5	18	
8 29	0 48.41	- 9 18.3	2.010	2.903	11.2	19.7	8 29	0 49.43	+ 2 22.3	2.107	2.979	11.6	20.9
9 8	0 43.96	-10 32.8	1.948	2.895	8.3	19.5	9 8	0 44.77	+ 1 35.8	2.018	2.959	8.4	20.7
9 18	0 37.84	-11 47.5	1.912	2.888	5.8	19.4	9 18	0 38.40	+ 0 39.4	1.953	2.938	4.8	20.4
9 28	0 30.69	-12 54.9	1.902	2.881	5.2	19.3	9 28	0 30.87	- 0 22.3	1.916	2.917	1.3	20.1
10 8	0 23.33	-13 48.4	1.919	2.873	7.2	19.4	10 8	0 23.00	- 1 23.2	1.908	2.895	3.7	20.3
10 18	0 16.61	-14 22.9	1.962	2.866	10.1	19.6	10 18	0 15.61	- 2 17.4	1.927	2.874	7.6	20.5
10 28	0 11.29	-14 36.0	2.029	2.859	13.0	19.8	10 28	0 9.54	- 2 59.4	1.973	2.852	11.2	20.6
11 7	0 7.91	-14 27.7	2.116	2.853	15.5	20.0	11 7	0 5.38	- 3 26.0	2.041	2.830	14.3	20.8
338329	2002 <i>VT</i> ₁₂₈		9 30.8 67°17	1°7/ 2.5	18		109504	2001 <i>QV</i> ₂₃₃		9 30.8 308°16	8°7/ 4.4	18	
8 29	0 49.76	+11 16.9	1.737	2.591	14.6	20.5	8 29	1 3.83	+17 45.6	1.450	2.266	18.9	19.3
9 8	0 45.03	+10 34.6	1.681	2.606	10.9	20.3	9 8	0 56.64	+19 40.4	1.358	2.245	15.7	19.1
9 18	0 38.45	+ 9 34.5	1.647	2.622	6.8	20.1	9 18	0 46.02	+21 20.4	1.287	2.225	12.2	18.8
9 28	0 30.82	+ 8 21.0	1.640	2.637	2.7	19.9	9 28	0 32.70	+22 38.5	1.240	2.205	9.3	18.6
10 8	0 23.09	+ 7 1.3	1.659	2.652	3.0	19.9	10 8	0 18.10	+23 30.0	1.219	2.185	8.9	18.5
10 18	0 16.21	+ 5 43.2	1.707	2.668	7.0	20.2	10 18	0 4.01	+23 54.7	1.224	2.166	11.4	18.6
10 28	0 11.00	+ 4 34.1	1.780	2.683	10.8	20.5	10 28	23 52.24	+23 58.6	1.252	2.148	15.1	18.8
11 7	0 7.95	+ 3 39.4	1.876	2.699	14.1	20.7	11 7	23 44.05	+23 51.6	1.302	2.129	18.8	19.0
298198	2002 <i>TH</i> ₂₇₉		9 30.8 338°74	1°5/ 1.9	18		70439	1999 <i>TE</i> ₇		9 30.8 282°43	8°0/29.1	18	
8 29	0 53.24	+ 6 41.8	1.524	2.394	15.4	19.5	8 29	0 52.42	- 0 18.5	1.728	2.611	13.3	19.0
9 8	0 48.05	+ 7 0.0	1.450	2.385	11.6	19.2	9 8	0 47.11	- 0 52.9	1.661	2.607	9.6	18.8
9 18	0 40.48	+ 7 5.8	1.398	2.377	7.1	18.9	9 18	0 39.77	- 1 34.6	1.617	2.603	5.5	18.6
9 28	0 31.33	+ 7 0.9	1.370	2.369	2.5	18.6	9 28	0 31.17	- 2 18.2	1.599	2.599	2.1	18.3
10 8	0 21.74	+ 6 49.4	1.369	2.362	3.5	18.7	10 8	0 22.32	- 2 57.3	1.609	2.595	4.6	18.5
10 18	0 12.96	+ 6 36.3	1.393	2.355	8.2	19.0	10 18	0 14.24	- 3 26.2	1.646	2.591	8.8	18.7
10 28	0 6.11	+ 6 27.3	1.442	2.349	12.6	19.2	10 28	0 7.86	- 3 40.7	1.707	2.587	12.6	19.0
11 7	0 1.91	+ 6 27.1	1.513	2.344	16.4	19.4	11 7	0 3.79	- 3 38.7	1.790	2.583	15.9	19.2
29635	1998 <i>VP</i> ₅		9 30.8 245°44	0°3/30.5	18		426653	2013 <i>SA</i> ₈₂		9 30.8 2°39	9°0/ 2.9	18	
8 29	0 54.93	+ 3 38.8	1.690	2.561	14.1	19.0	8 29	1 10.75	+11 49.2	1.032	1.886	22.3	18.9
9 8	0 49.07	+ 3 21.9	1.613	2.552	10.4	18.7	9 8	1 2.27	+14 43.1	0.969	1.884	17.9	18.6
9 18	0 40.98	+ 2 54.3	1.559	2.542	6.0	18.5	9 18	0 49.47	+17 26.1	0.925	1.883	13.2	18.4
9 28	0 31.43	+ 2 19.8	1.532	2.533	1.3	18.1	9 28	0 33.47	+19 46.5	0.905	1.883	9.5	18.2
10 8	0 21.50	+ 1 44.2	1.531	2.523	3.7	18.3	10 8	0 16.36	+21 34.8	0.910	1.885	9.6	18.2
10 18	0 12.31	+ 1 13.4	1.559	2.512	8.3	18.5	10 18	0 0.62	+22 48.6	0.940	1.889	13.1	18.4
10 28	0 4.93	+ 0 52.8	1.611	2.502	12.6	18.8	10 28	23 48.44	+23 34.5	0.992	1.893	17.5	18.7
11 7	0 0.03	+ 0 45.9	1.685	2.491	16.2	19.0	11 7	23 40.97	+24 3.9	1.062	1.899	21.5	19.0
313362	2002 <i>GE</i> ₁₈₄		9 30.8 238°49	2°6/ 3.9	18		291236	2006 <i>BG</i> ₃₁		9 30.8 233°06	3°1/ 4.3	18	
8 29	0 49.47	+14 1.5	2.510	3.332	11.6	21.4	8 29	0 50.44	+14 35.4	2.381	3.202	12.2	20.6
9 8	0 44.55	+13 46.5	2.418	3.322	9.0	21.2	9 8	0 45.31	+14 38.8	2.299	3.200	9.6	20.5
9 18	0 38.15	+13 17.0	2.350	3.310	6.1	21.0	9 18	0 38.61	+14 27.8	2.240	3.197	6.6	20.3
9 28	0 30.79	+12 34.7	2.310	3.299	3.3	20.8	9 28	0 30.92	+14 3.4	2.208	3.194	3.9	20.1
10 8	0 23.15	+11 42.8	2.298	3.287	3.0	20.8	10 8	0 22.99	+13 28.4	2.204	3.191	3.4	20.1
10 18	0 15.97	+10 46.0	2.315	3.275	5.6	20.9	10 18	0 15.57	+12 47.1	2.229	3.188	5.8	20.2
10 28	0 9.95	+ 9 49.8	2.361	3.262	8.6	21.1	10 28	0 9.41	+12 4.6	2.281	3.185	8.8	20.4
11 7	0 5.60	+ 8 59.3	2.431	3.249	11.4	21.3	11 7	0 5.02	+11 26.1	2.358	3.181	11.6	20.6
218799	2006 <i>BM</i> ₁₁		9 30.8 287°66	2°9/27.4	18		508989	2005 <i>EQ</i> ₂₀₁		9 30.8 223°16	5°9/23.8	18	
8 29	0 47.39												

EPHEMERIDES

9 30.8

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
49514	1999 <i>CM</i> ₃₁		9 30.8 335°28	4.6/27.3	18		315957	2008 <i>UO</i> ₉		9 30.8 317°99	0.4/30.0	18	
8 29	0 48.14	- 4 50.2	1.299	2.207	15.0	18.2	8 29	0 43.37	+ 2 2.7	4.134	4.995	6.7	20.4
9 8	0 44.65	- 5 38.6	1.228	2.186	11.0	17.9	9 8	0 39.65	+ 1 42.1	4.055	4.990	4.8	20.2
9 18	0 38.67	- 6 32.6	1.178	2.165	6.8	17.6	9 18	0 35.15	+ 1 17.7	4.004	4.986	2.7	20.1
9 28	0 30.99	- 7 23.7	1.152	2.146	4.6	17.5	9 28	0 30.20	+ 0 51.5	3.981	4.982	0.6	19.9
10 8	0 22.81	- 8 2.7	1.150	2.128	7.5	17.6	10 8	0 25.14	+ 0 25.6	3.989	4.978	1.8	20.0
10 18	0 15.46	- 8 21.9	1.171	2.111	12.0	17.8	10 18	0 20.36	+ 0 2.4	4.027	4.974	4.0	20.2
10 28	0 10.14	- 8 17.1	1.213	2.096	16.4	18.0	10 28	0 16.19	- 0 16.1	4.094	4.971	5.9	20.3
11 7	0 7.62	- 7 47.5	1.273	2.082	20.2	18.2	11 7	0 12.94	- 0 28.3	4.186	4.967	7.7	20.4
470497	2008 <i>CS</i> ₃₇		9 30.8 64°68	4.3/4.2	16		259539	2003 <i>UL</i> ₇₉		9 30.8 17°58	6.1/6.4	17	
8 29	0 54.02	+14 48.5	1.399	2.246	17.9	21.2	8 29	0 52.60	+19 52.2	1.902	2.707	15.5	20.0
9 8	0 48.70	+14 55.0	1.337	2.252	14.0	21.0	9 8	0 47.28	+20 36.6	1.832	2.712	12.6	19.8
9 18	0 40.86	+14 38.1	1.295	2.258	9.6	20.8	9 18	0 39.94	+21 1.4	1.782	2.717	9.6	19.7
9 28	0 31.45	+13 59.3	1.276	2.265	5.5	20.5	9 28	0 31.30	+21 5.1	1.757	2.723	7.0	19.5
10 8	0 21.74	+13 4.0	1.282	2.271	4.8	20.5	10 8	0 22.35	+20 49.4	1.758	2.729	6.1	19.5
10 18	0 13.06	+12 0.2	1.314	2.278	8.4	20.8	10 18	0 14.11	+20 18.6	1.785	2.736	7.7	19.6
10 28	0 6.56	+10 57.8	1.370	2.284	12.6	21.0	10 28	0 7.53	+19 39.1	1.838	2.743	10.4	19.8
11 7	0 2.90	+10 5.1	1.448	2.291	16.4	21.3	11 7	0 3.23	+18 58.3	1.914	2.751	13.3	20.0
164431	2006 <i>BL</i> ₂₇₄		9 30.8 45°55	4.7/27.4	17		38420	1999 <i>RV</i> ₂₂₁		9 30.8 165°86	3.1/4.3	18	
8 29	0 51.89	- 2 21.7	1.047	1.957	17.6	20.0	8 29	0 51.06	+14 43.3	2.391	3.210	12.2	19.2
9 8	0 47.37	- 3 46.5	1.010	1.969	12.6	19.7	9 8	0 45.74	+14 45.0	2.312	3.212	9.6	19.0
9 18	0 40.10	- 5 19.3	0.993	1.981	7.4	19.5	9 18	0 38.88	+14 32.3	2.257	3.213	6.6	18.8
9 28	0 31.25	- 6 47.7	0.999	1.994	4.7	19.4	9 28	0 31.05	+14 6.1	2.229	3.215	3.9	18.6
10 8	0 22.35	- 7 59.3	1.028	2.007	7.9	19.6	10 8	0 23.00	+13 29.4	2.229	3.216	3.4	18.6
10 18	0 14.85	- 8 45.4	1.080	2.021	12.7	19.9	10 18	0 15.51	+12 46.6	2.259	3.217	5.8	18.8
10 28	0 9.87	- 9 2.2	1.152	2.035	17.1	20.3	10 28	0 9.28	+12 2.9	2.315	3.218	8.7	19.0
11 7	0 7.94	- 8 50.5	1.242	2.050	20.8	20.6	11 7	0 4.83	+11 23.3	2.397	3.219	11.4	19.1
405838	2006 <i>BZ</i> ₁₈₅		9 30.8 335°16	3.7/4.7	18		172956	2005 <i>LZ</i> ₁		9 30.8 44°87	7.7/23.6	18	
8 29	0 50.29	+15 35.7	2.157	2.980	13.3	20.9	8 29	0 51.40	-15 9.7	1.662	2.557	13.0	19.6
9 8	0 45.36	+15 44.9	2.078	2.977	10.5	20.7	9 8	0 46.29	-16 28.9	1.626	2.566	10.1	19.5
9 18	0 38.71	+15 37.9	2.020	2.974	7.4	20.5	9 18	0 39.25	-17 40.6	1.613	2.577	8.1	19.4
9 28	0 30.97	+15 15.3	1.988	2.972	4.5	20.4	9 28	0 31.12	-18 35.9	1.626	2.587	7.9	19.4
10 8	0 22.94	+14 40.2	1.984	2.969	3.9	20.3	10 8	0 22.96	-19 8.0	1.664	2.598	9.8	19.5
10 18	0 15.50	+13 57.1	2.008	2.967	6.3	20.5	10 18	0 15.77	-19 13.9	1.726	2.609	12.5	19.7
10 28	0 9.43	+13 11.8	2.058	2.965	9.4	20.7	10 28	0 10.38	-18 53.7	1.809	2.621	15.1	19.9
11 7	0 5.30	+12 30.2	2.133	2.963	12.4	20.8	11 7	0 7.28	-18 10.3	1.910	2.632	17.4	20.1
273475	2006 <i>YK</i> ₁₀		9 30.8 318°36	7.5/25.5	18		273603	2007 <i>CQ</i> ₆₂		9 30.8 204°31	0.0/30.9	18	
8 29	0 51.69	- 9 52.4	1.169	2.080	16.1	20.1	8 29	0 51.79	+ 6 57.3	1.871	2.733	13.4	21.4
9 8	0 47.64	-10 58.9	1.097	2.052	12.2	19.8	9 8	0 46.60	+ 6 6.1	1.796	2.729	9.8	21.2
9 18	0 40.61	-12 6.8	1.044	2.025	8.7	19.5	9 18	0 39.50	+ 5 0.3	1.744	2.725	5.8	20.9
9 28	0 31.47	-13 4.4	1.015	1.998	7.7	19.4	9 28	0 31.21	+ 3 44.6	1.719	2.720	1.3	20.6
10 8	0 21.61	-13 39.9	1.008	1.973	10.6	19.5	10 8	0 22.64	+ 2 26.1	1.723	2.715	3.2	20.8
10 18	0 12.63	-13 45.3	1.022	1.948	15.1	19.6	10 18	0 14.76	+ 1 12.3	1.755	2.709	7.5	21.0
10 28	0 6.02	-13 17.3	1.057	1.924	19.6	19.8	10 28	0 8.46	+ 0 10.0	1.814	2.703	11.5	21.3
11 7	0 2.68	-12 18.1	1.107	1.901	23.6	20.0	11 7	0 4.31	- 0 36.1	1.895	2.697	14.8	21.5
14170	1998 <i>VF</i> ₆		9 30.8 278°36	1.9/2.9	18		321485	Cross		9 30.8 67°19	0.1/30.9	18	
8 29	0 49.24	+10 53.6	2.325	3.166	11.8	18.6	8 29	0 54.79	+ 5 49.1	1.344	2.221	16.6	20.3
9 8	0 44.49	+10 42.1	2.238	3.155	9.0	18.4	9 8	0 49.03	+ 5 19.0	1.300	2.241	12.1	20.1
9 18	0 38.18	+10 17.7	2.175	3.145	5.8	18.1	9 18	0 40.92	+ 4 34.1	1.277	2.260	7.0	19.8
9 28	0 30.85	+ 9 42.1	2.139	3.134	2.6	17.9	9 28	0 31.49	+ 3 40.2	1.279	2.280	1.6	19.5
10 8	0 23.25	+ 8 59.2	2.132	3.123	2.7	17.9	10 8	0 22.05	+ 2 45.2	1.307	2.300	3.8	19.7
10 18	0 16.14	+ 8 13.5	2.153	3.113	5.9	18.1	10 18	0 13.82	+ 1 56.9	1.361	2.320	8.8	20.1
10 28	0 10.25	+ 7 30.3	2.201	3.102	9.2	18.3	10 28	0 7.81	+ 1 21.9	1.439	2.339	13.2	20.4
11 7	0 6.12	+ 6 54.2	2.274	3.091	12.1	18.5	11 7	0 4.52	+ 1 3.6	1.538	2.359	16.7	20.7
384944	2012 <i>TQ</i> ₁₂₃		9 30.8 65°65	1.4/29.6	18		26884	1994 <i>RX</i> ₄		9 30.8 99°76	1.7/29.4	18	
8 29	0 52.66	+ 2 0.4	1.517	2.401	14.7	20.6	8 29	0 54.94	+ 1 10.1	1.572	2.451	14.5	19.0
9 8	0 47.35	+ 1 19.8	1.465	2.411	10.6	20.4	9 8	0 48.93	+ 0 29.2	1.522	2.466	10.4	18.8
9 18	0 39.92	+ 0 28.9	1.435	2.421	6.0	20.2	9 18	0 40.80	- 0 20.6	1.495	2.480	5.9	18.6
9 28	0 31.23	- 0 25.9	1.431	2.432	1.6	19.9	9 28	0 31.48	- 1 13.0	1.494	2.494	1.8	18.4
10 8	0 22.43	- 1 17.1	1.453	2.442	4.4	20.1	10 8	0 22.08	- 2 0.8	1.520	2.507	4.5	18.6
10 18	0 14.62	- 1 58.1	1.502	2.453	8.9	20.4	10 18	0 13.70	- 2 37.8	1.573	2.521	8.9	18.9
10 28	0 8.73	- 2 23.7	1.575	2.464	13.0	20.7	10 28	0 7.28	- 2 59.5	1.651	2.534	12.8	19.2
11 7	0 5.31	- 2 31.6	1.669	2.474	16.3	21.0	11 7	0 3.33	- 3 4.0	1.750	2.546	16.1	19.4
72622	2001 <i>FE</i> ₂₆		9 30.8 134°64	1.2/29.4	18		41981	Yaobeina		9 30.8 133°57	7.1/23.1	18	
8 29	0 49.85	+ 0 29.1	2.581	3.449	9.9	19.5	8 29	0 52.42	-15 13.6	1.966	2.852	11.8	18.3
9 8	0 44.63	- 0 1.7	2.518	3.456	7.1	19.3	9 8	0 46.82	-16 41.9	1.926	2.861	9.2	18.1
9 18	0 38.11	- 0 37.6	2.480	3.464	4.0	19.1	9 18	0 39.49	-18 3.8	1.911	2.870	7.3	18.0
9 28	0 30.83	- 1 15.1	2.471	3.471	1.3	18.9	9 28	0 31.18	-19 11.2	1.923	2.879	7.3	18.0
10 8	0 23.45	- 1 50.0	2.491	3.477	3.1	19.1	10 8	0 22.80	-19 57.6	1.961	2.887	9.0	18.2
10 18	0 16.61	- 2 18.7	2.541	3.484	6.2	19.3	10 18	0 15.25	-20 19.7	2.024	2.895	11.5	18.3
10 28	0 10.92	- 2 38.1	2.618	3.490	9.0	19.5	10 28	0 9.30	-20 16.8	2.110	2.902	13.9	18.5
11 7	0 6.78	- 2 46.3	2.719	3.496	11.4	19.7	11 7	0 5.42	-19 51.3	2.215	2.909	16.0	18.7
363973	2005 <i>UV</i> ₁₄₇		9 30.8 343°53	3.7/4.9	18		485317	2011 <i>BP</i> ₃₁		9 30.8 1°02	4.4/5.0	17	
8 29	0 47.89	+16 38.0	1.931	2.759	14.4	21.0</							

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
252154	2001 <i>BU</i> ₂₇	9 30.8 167°09		1°6/ 2.5 18			181778	1997 <i>UN</i> ₅	9 30.8 257°09		1°4/28.7 18		
8 29	0 55.21	+10 26.0	2.062	2.901	13.2	21.1	8 29	0 47.09	- 1 54.8	3.402	4.271	7.7	20.8
9 8	0 48.88	+10 0.9	1.990	2.907	10.0	20.9	9 8	0 42.50	- 2 20.2	3.318	4.257	5.6	20.6
9 18	0 40.73	+ 9 21.1	1.942	2.913	6.2	20.6	9 18	0 36.88	- 2 48.5	3.261	4.244	3.2	20.4
9 28	0 31.48	+ 8 29.4	1.921	2.917	2.5	20.4	9 28	0 30.64	- 3 17.0	3.232	4.230	1.4	20.3
10 8	0 22.03	+ 7 31.0	1.929	2.921	2.8	20.4	10 8	0 24.23	- 3 42.8	3.235	4.216	2.9	20.4
10 18	0 13.31	+ 6 31.8	1.966	2.924	6.6	20.7	10 18	0 18.15	- 4 3.0	3.266	4.202	5.3	20.5
10 28	0 6.14	+ 5 38.1	2.032	2.926	10.2	20.9	10 28	0 12.87	- 4 15.4	3.326	4.188	7.6	20.7
11 7	0 1.07	+ 4 54.8	2.121	2.927	13.3	21.1	11 7	0 8.76	- 4 18.6	3.410	4.174	9.6	20.8
482680	2013 <i>CW</i> ₆₅	9 30.8 33°38		7°6/ 7.3 18			154239	2002 <i>JW</i> ₁₃₃	9 30.8 46°95		0°1/ 1.0 18		
8 29	0 55.04	+22 12.8	1.691	2.487	17.4	20.3	8 29	0 50.71	+ 5 0.8	2.001	2.866	12.5	19.5
9 8	0 49.29	+23 11.5	1.626	2.496	14.5	20.2	9 8	0 45.59	+ 4 44.6	1.941	2.877	9.1	19.3
9 18	0 41.21	+23 46.9	1.581	2.506	11.3	20.0	9 18	0 38.82	+ 4 18.5	1.906	2.887	5.3	19.1
9 28	0 31.62	+23 56.4	1.559	2.516	8.6	19.9	9 28	0 31.08	+ 3 46.3	1.897	2.898	1.2	18.9
10 8	0 21.68	+23 41.2	1.563	2.526	7.6	19.8	10 8	0 23.21	+ 3 12.4	1.916	2.909	2.8	19.0
10 18	0 12.61	+23 6.0	1.591	2.537	8.9	19.9	10 18	0 16.06	+ 2 41.8	1.964	2.920	6.7	19.3
10 28	0 5.51	+22 18.7	1.645	2.549	11.6	20.1	10 28	0 10.38	+ 2 18.8	2.037	2.931	10.2	19.5
11 7	0 1.04	+21 28.4	1.721	2.561	14.4	20.3	11 7	0 6.65	+ 2 6.5	2.134	2.942	13.1	19.8
430851	2005 <i>LT</i> ₅₃	9 30.8 12°91		2°2/ 5.3 17			43729	1979 <i>MS</i> ₃	9 30.8 82°01		1°5/ 2.6 18		
8 29	0 42.30	+16 56.6	4.105	4.904	7.9	20.6	8 29	0 49.04	+10 17.7	2.323	3.167	11.7	19.7
9 8	0 38.92	+16 29.7	4.020	4.905	6.2	20.5	9 8	0 44.21	+ 9 52.9	2.260	3.180	8.8	19.6
9 18	0 34.76	+15 52.5	3.959	4.906	4.4	20.3	9 18	0 37.96	+ 9 15.6	2.221	3.193	5.5	19.4
9 28	0 30.13	+15 6.6	3.926	4.907	2.7	20.2	9 28	0 30.88	+ 8 28.5	2.209	3.205	2.2	19.2
10 8	0 25.41	+14 14.1	3.923	4.908	2.2	20.2	10 8	0 23.70	+ 7 36.3	2.226	3.218	2.5	19.2
10 18	0 20.98	+13 18.0	3.951	4.909	3.5	20.3	10 18	0 17.12	+ 6 43.7	2.271	3.231	5.7	19.5
10 28	0 17.20	+12 21.4	4.007	4.910	5.4	20.4	10 28	0 11.81	+ 5 56.0	2.345	3.244	8.8	19.7
11 7	0 14.35	+11 27.6	4.091	4.911	7.1	20.5	11 7	0 8.19	+ 5 17.1	2.442	3.256	11.5	19.9
365652	2010 <i>VS</i> ₂₅	9 30.8 229°64		2°3/25.9 17			356151	2009 <i>HW</i> ₄	9 30.8 194°95		2°3/28.7 18		
8 29	0 43.03	- 9 25.9	4.762	5.639	5.5	21.0	8 29	0 52.07	- 1 47.2	1.915	2.796	12.3	21.0
9 8	0 39.32	- 9 56.6	4.695	5.634	4.1	20.9	9 8	0 46.69	- 2 22.8	1.851	2.796	8.8	20.8
9 18	0 34.94	-10 26.6	4.655	5.629	2.7	20.8	9 18	0 39.52	- 3 3.7	1.811	2.796	5.1	20.5
9 28	0 30.17	-10 53.5	4.644	5.624	2.3	20.7	9 28	0 31.25	- 3 44.6	1.798	2.796	2.3	20.4
10 8	0 25.33	-11 15.2	4.663	5.619	3.3	20.8	10 8	0 22.79	- 4 19.8	1.813	2.796	4.6	20.5
10 18	0 20.72	-11 30.2	4.711	5.614	4.7	20.9	10 18	0 15.05	- 4 44.4	1.855	2.796	8.3	20.8
10 28	0 16.67	-11 37.0	4.787	5.609	6.2	21.0	10 28	0 8.86	- 4 54.9	1.923	2.795	11.8	21.0
11 7	0 13.42	-11 35.1	4.886	5.603	7.5	21.1	11 7	0 4.76	- 4 50.0	2.012	2.795	14.7	21.2
493637	2015 <i>PB</i> ₁₇₉	9 30.8 51°70		2°7/28.4 16			291784	2006 <i>KW</i> ₄₃	9 30.9 174°47		2°4/28.2 18		
8 29	0 51.67	- 2 23.6	1.784	2.670	12.8	21.6	8 29	0 53.04	- 2 46.9	2.359	3.231	10.6	21.9
9 8	0 46.45	- 3 4.8	1.728	2.675	9.2	21.4	9 8	0 47.09	- 3 31.7	2.293	3.234	7.6	21.7
9 18	0 39.36	- 3 50.9	1.695	2.680	5.3	21.2	9 18	0 39.63	- 4 20.4	2.254	3.237	4.4	21.5
9 28	0 31.18	- 4 36.0	1.689	2.686	2.7	21.1	9 28	0 31.27	- 5 8.2	2.243	3.238	2.4	21.4
10 8	0 22.86	- 5 13.9	1.710	2.691	5.0	21.2	10 8	0 22.76	- 5 49.9	2.262	3.240	4.3	21.5
10 18	0 15.35	- 5 39.4	1.758	2.697	8.8	21.5	10 18	0 14.87	- 6 21.4	2.310	3.240	7.5	21.7
10 28	0 9.48	- 5 49.3	1.831	2.703	12.3	21.7	10 28	0 8.29	- 6 39.7	2.384	3.240	10.4	21.9
11 7	0 5.78	- 5 42.4	1.925	2.709	15.3	21.9	11 7	0 3.50	- 6 43.5	2.481	3.239	12.9	22.1
316596	2011 <i>UR</i> ₂₀₀	9 30.8 185°54		6°7/ 9.9 18			235357	2003 <i>UH</i> ₃₃₇	9 30.9 134°66		0°1/30.7 18		
8 29	0 50.97	+28 39.6	2.508	3.241	14.0	20.8	8 29	0 50.86	+ 5 58.5	1.899	2.764	13.1	21.4
9 8	0 45.80	+28 47.7	2.420	3.241	12.0	20.7	9 8	0 45.81	+ 5 10.0	1.834	2.770	9.5	21.2
9 18	0 38.98	+28 33.8	2.353	3.240	9.8	20.6	9 18	0 39.01	+ 4 8.8	1.794	2.776	5.5	20.9
9 28	0 31.11	+27 56.8	2.309	3.239	7.8	20.4	9 28	0 31.13	+ 3 0.0	1.781	2.782	1.2	20.6
10 8	0 22.98	+26 58.5	2.292	3.238	6.8	20.4	10 8	0 23.10	+ 1 50.2	1.795	2.787	3.2	20.8
10 18	0 15.41	+25 43.1	2.302	3.237	7.3	20.4	10 18	0 15.80	+ 0 46.1	1.838	2.792	7.3	21.1
10 28	0 9.18	+24 17.2	2.340	3.235	9.0	20.5	10 28	0 10.03	- 0 6.4	1.908	2.797	11.0	21.3
11 7	0 4.81	+22 48.5	2.403	3.232	11.2	20.6	11 7	0 6.33	- 0 43.4	1.999	2.802	14.1	21.5
517878	2015 <i>RY</i> ₂₅₉	9 30.8 71°79		3°3/26.8 18			355736	2008 <i>GC</i> ₁₂₂	9 30.9 94°36		1°1/29.5 18		
8 29	0 47.73	- 4 3.7	2.154	3.041	10.8	21.1	8 29	0 50.33	+ 1 59.6	2.413	3.279	10.6	21.3
9 8	0 43.33	- 5 18.6	2.101	3.049	7.7	20.9	9 8	0 44.98	+ 1 10.9	2.366	3.304	7.5	21.1
9 18	0 37.47	- 6 37.0	2.074	3.057	4.7	20.7	9 18	0 38.32	+ 0 15.9	2.345	3.328	4.2	20.9
9 28	0 30.75	- 7 52.4	2.074	3.065	3.4	20.6	9 28	0 30.96	- 0 41.1	2.352	3.352	1.2	20.8
10 8	0 23.93	- 8 58.3	2.103	3.073	5.4	20.8	10 8	0 23.59	- 1 35.0	2.389	3.376	3.2	20.9
10 18	0 17.75	- 9 49.8	2.159	3.081	8.4	21.0	10 18	0 16.88	- 2 21.3	2.455	3.399	6.4	21.2
10 28	0 12.86	-10 23.4	2.240	3.089	11.3	21.2	10 28	0 11.42	- 2 56.6	2.549	3.421	9.2	21.4
11 7	0 9.72	-10 38.2	2.343	3.097	13.7	21.4	11 7	0 7.59	- 3 18.9	2.666	3.444	11.6	21.6
86148	1999 <i>RV</i> ₁₉₆	9 30.8 26°38		5°1/ 5.9 18			486944	2014 <i>MZ</i> ₄₈	9 30.9 22°20		0°7/30.2 18		
8 29	0 50.84	+18 29.6	1.862	2.678	15.3	18.7	8 29	0 49.72	+ 2 54.2	1.723	2.603	13.4	20.6
9 8	0 45.99	+18 47.6	1.793	2.683	12.3	18.5	9 8	0 45.10	+ 2 29.5	1.666	2.610	9.7	20.4
9 18	0 39.19	+18 45.2	1.744	2.689	9.0	18.4	9 18	0 38.62	+ 1 55.2	1.633	2.618	5.5	20.2
9 28	0 31.17	+18 22.6	1.720	2.695	6.1	18.2	9 28	0 31.05	+ 1 16.2	1.625	2.626	1.2	19.9
10 8	0 22.89	+17 42.7	1.722	2.702	5.2	18.2	10 8	0 23.33	+ 0 38.2	1.644	2.635	3.6	20.1
10 18	0 15.35	+16 51.2	1.751	2.709	7.2	18.3	10 18	0 16.42	+ 0 6.7	1.691	2.645	7.8	20.4
10 28	0 9.44	+15 55.4	1.806	2.717	10.3	18.5	10 28	0 11.15	- 0 13.6	1.762	2.655	11.5	20.7
11 7	0 5.75	+15 2.4	1.884	2.724	13.3	18.7	11 7	0 8.03	- 0 20.0	1.854	2.666	14.7	20.9
4989	Joegoldstein	9 30.8 342°41		9°0/ 6.8 18			331561	2001 <i>KO</i> ₁₉	9 30.9 114°04		3°3/27.9 17		
8 29	0 53.37	+21 8.0	1.346	2.169	19.7	17.2	8 29	0 56.41	- 3 26.9	1.778			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
113370	2002 <i>ST</i> ₃		9 30.9 121°66	0°8/30.1	18		124495	2001 <i>RR</i> ₄₄		9 30.9	2°91	3°7/28.2	18
8 29	0 51.89	+ 3 8.5	2.016	2.884	12.3	20.4	8 29	0 48.00	- 1 45.1	1.051	1.965	17.2	18.4
9 8	0 46.43	+ 2 31.5	1.955	2.894	8.9	20.2	9 8	0 44.77	- 2 35.4	1.002	1.963	12.4	18.1
9 18	0 39.31	+ 1 45.6	1.919	2.903	5.0	20.0	9 18	0 38.81	- 3 35.0	0.973	1.963	7.2	17.8
9 28	0 31.20	+ 0 55.3	1.911	2.912	1.2	19.7	9 28	0 31.15	- 4 34.0	0.966	1.964	3.7	17.6
10 8	0 22.97	+ 0 6.2	1.931	2.920	3.3	19.9	10 8	0 23.22	- 5 22.0	0.981	1.966	6.9	17.8
10 18	0 15.47	- 0 36.3	1.979	2.929	7.2	20.1	10 18	0 16.47	- 5 50.4	1.019	1.970	12.0	18.1
10 28	0 9.45	- 1 7.7	2.054	2.937	10.6	20.4	10 28	0 12.10	- 5 54.5	1.077	1.976	16.7	18.4
11 7	0 5.41	- 1 25.4	2.151	2.945	13.5	20.6	11 7	0 10.73	- 5 33.6	1.153	1.983	20.6	18.7
390363	2013 <i>DU</i> ₂		9 30.9 348°92	1°1/28.8	18		228861	2003 <i>GG</i> ₁₂		9 30.9 203°39	1°0/1.8	18	
8 29	0 43.05	- 1 4.1	4.091	4.961	6.5	20.8	8 29	0 53.04	+ 8 25.6	1.914	2.767	13.5	21.4
9 8	0 39.44	- 1 32.5	4.020	4.960	4.6	20.7	9 8	0 47.52	+ 7 58.1	1.837	2.764	10.1	21.2
9 18	0 35.07	- 2 3.5	3.975	4.959	2.6	20.6	9 18	0 40.08	+ 7 16.3	1.784	2.760	6.1	20.9
9 28	0 30.24	- 2 34.9	3.959	4.958	1.1	20.4	9 28	0 31.43	+ 6 23.5	1.757	2.756	2.0	20.7
10 8	0 25.34	- 3 4.2	3.974	4.957	2.3	20.5	10 8	0 22.48	+ 5 25.3	1.758	2.751	2.9	20.7
10 18	0 20.70	- 3 29.1	4.018	4.956	4.3	20.7	10 18	0 14.22	+ 4 28.1	1.788	2.746	7.1	21.0
10 28	0 16.70	- 3 47.7	4.090	4.955	6.2	20.8	10 28	0 7.53	+ 3 38.3	1.845	2.740	11.0	21.2
11 7	0 13.61	- 3 58.6	4.188	4.954	7.9	20.9	11 7	0 3.00	+ 3 0.7	1.924	2.734	14.3	21.4
356249	2009 <i>UT</i> ₄₈		9 30.9 316°92	0°5/29.9	18		279488	2010 <i>XN</i> ₄₆		9 30.9 313°27	0°9/30.1	18	
8 29	0 43.80	+ 1 42.7	3.999	4.861	6.8	21.2	8 29	0 50.10	+ 5 4.6	1.279	2.168	16.5	20.8
9 8	0 40.01	+ 1 22.0	3.921	4.856	4.9	21.0	9 8	0 46.11	+ 4 7.0	1.211	2.159	12.1	20.5
9 18	0 35.41	+ 0 57.5	3.869	4.851	2.8	20.9	9 18	0 39.57	+ 2 50.8	1.164	2.151	7.0	20.2
9 28	0 30.33	+ 0 31.2	3.846	4.847	0.7	20.7	9 28	0 31.35	+ 1 23.4	1.141	2.142	1.5	19.8
10 8	0 25.14	+ 0 5.5	3.854	4.842	1.9	20.8	10 8	0 22.71	- 0 4.8	1.143	2.134	4.7	20.0
10 18	0 20.23	- 0 17.3	3.891	4.838	4.1	20.9	10 18	0 14.98	- 1 22.9	1.170	2.126	10.1	20.3
10 28	0 15.97	- 0 35.2	3.957	4.833	6.1	21.1	10 28	0 9.37	- 2 21.7	1.219	2.119	15.1	20.6
11 7	0 12.66	- 0 46.3	4.049	4.829	7.9	21.2	11 7	0 6.62	- 2 56.3	1.288	2.112	19.2	20.8
432953	2012 <i>HN</i> ₆₄		9 30.9 80°53	0°7/30.2	16		279496	2011 <i>AE</i> ₁₉		9 30.9 67°15	3°2/4.4	18	
8 29	0 54.07	+ 4 25.6	1.422	2.301	15.8	21.9	8 29	0 50.98	+ 14 33.0	2.270	3.093	12.7	21.0
9 8	0 48.46	+ 3 38.6	1.375	2.318	11.4	21.7	9 8	0 45.79	+ 14 39.9	2.195	3.097	9.9	20.8
9 18	0 40.62	+ 2 38.3	1.351	2.335	6.5	21.5	9 18	0 38.98	+ 14 31.9	2.143	3.100	6.8	20.6
9 28	0 31.51	+ 1 31.4	1.352	2.353	1.4	21.2	9 28	0 31.18	+ 14 10.1	2.118	3.104	4.0	20.5
10 8	0 22.35	+ 0 26.4	1.379	2.370	4.1	21.4	10 8	0 23.15	+ 13 37.5	2.121	3.107	3.5	20.4
10 18	0 14.32	- 0 28.9	1.433	2.387	8.9	21.8	10 18	0 15.72	+ 12 58.4	2.152	3.111	6.0	20.6
10 28	0 8.37	- 1 8.3	1.511	2.404	13.1	22.1	10 28	0 9.60	+ 12 18.2	2.210	3.114	9.0	20.8
11 7	0 5.02	- 1 28.9	1.609	2.420	16.6	22.3	11 7	0 5.34	+ 11 41.9	2.293	3.118	11.8	21.0
453492	2009 <i>SD</i> ₃₄₁		9 30.9 174°54	2°5/28.0	18		244425	2002 <i>QM</i> ₆₂		9 30.9 18°59	0°3/1.2	18	
8 29	0 52.64	- 5 16.2	2.764	3.634	9.3	21.3	8 29	0 49.75	+ 6 22.4	1.437	2.317	15.6	20.5
9 8	0 46.62	- 5 38.8	2.697	3.636	6.7	21.2	9 8	0 45.48	+ 5 54.4	1.380	2.322	11.5	20.2
9 18	0 39.30	- 6 2.4	2.657	3.637	4.0	21.0	9 18	0 39.01	+ 5 11.2	1.344	2.327	6.7	20.0
9 28	0 31.21	- 6 23.5	2.646	3.639	2.5	20.9	9 28	0 31.19	+ 4 17.7	1.333	2.333	1.7	19.7
10 8	0 23.02	- 6 38.6	2.665	3.640	4.0	21.0	10 8	0 23.18	+ 3 21.4	1.347	2.340	3.5	19.8
10 18	0 15.35	- 6 45.0	2.713	3.640	6.7	21.2	10 18	0 16.09	+ 2 30.0	1.387	2.348	8.4	20.1
10 28	0 8.80	- 6 40.8	2.789	3.640	9.2	21.3	10 28	0 10.92	+ 1 50.4	1.451	2.356	12.7	20.4
11 7	0 3.81	- 6 25.3	2.889	3.640	11.4	21.5	11 7	0 8.25	+ 1 27.0	1.536	2.365	16.4	20.7
480721	2015 <i>TG</i> ₃₄₈		9 30.9 62°94	3°8/27.2	18		72776	2001 <i>FL</i> ₁₅₂		9 30.9 44°79	3°4/27.5	18	
8 29	0 51.97	- 6 52.4	2.030	2.915	11.5	20.9	8 29	0 49.72	- 4 34.6	1.933	2.821	11.8	18.7
9 8	0 46.47	- 7 30.7	1.977	2.922	8.3	20.7	9 8	0 44.88	- 5 24.6	1.886	2.834	8.5	18.5
9 18	0 39.32	- 8 9.4	1.949	2.930	5.2	20.5	9 18	0 38.42	- 6 17.1	1.863	2.847	5.1	18.3
9 28	0 31.22	- 8 42.8	1.948	2.937	3.8	20.4	9 28	0 31.04	- 7 5.9	1.868	2.860	3.4	18.3
10 8	0 23.03	- 9 6.1	1.975	2.945	5.7	20.6	10 8	0 23.61	- 7 45.2	1.899	2.874	5.4	18.4
10 18	0 15.60	- 9 15.5	2.029	2.953	8.7	20.8	10 18	0 16.94	- 8 10.8	1.958	2.888	8.6	18.7
10 28	0 9.66	- 9 9.1	2.108	2.961	11.7	21.0	10 28	0 11.75	- 8 19.9	2.042	2.902	11.7	18.9
11 7	0 5.68	- 8 47.0	2.209	2.969	14.3	21.2	11 7	0 8.52	- 8 12.0	2.146	2.917	14.3	19.1
294958	2008 <i>DO</i> ₈₄		9 30.9 139°01	0°7/1.7	18		103000	1999 <i>XT</i> ₉₅		9 30.9 267°44	6°8/24.2	18	
8 29	0 49.79	+ 7 56.5	2.266	3.118	11.7	21.6	8 29	0 53.50	- 14 8.3	1.900	2.787	12.1	19.2
9 8	0 44.84	+ 7 26.2	2.196	3.123	8.6	21.4	9 8	0 47.91	- 15 13.4	1.834	2.772	9.4	19.1
9 18	0 38.38	+ 6 44.4	2.151	3.128	5.2	21.2	9 18	0 40.34	- 16 14.4	1.792	2.757	7.2	18.9
9 28	0 31.02	+ 5 54.2	2.133	3.132	1.6	20.9	9 28	0 31.51	- 17 3.2	1.776	2.742	6.9	18.9
10 8	0 23.50	+ 5 0.5	2.144	3.137	2.5	21.0	10 8	0 22.39	- 17 33.1	1.787	2.726	8.8	18.9
10 18	0 16.57	+ 4 8.3	2.184	3.141	6.1	21.3	10 18	0 13.99	- 17 40.0	1.823	2.711	11.7	19.1
10 28	0 10.93	+ 3 22.9	2.251	3.145	9.4	21.5	10 28	0 7.21	- 17 22.6	1.881	2.695	14.6	19.2
11 7	0 7.04	+ 2 47.9	2.342	3.149	12.2	21.7	11 7	0 2.66	- 16 42.6	1.959	2.679	17.1	19.4
97399	2000 <i>AR</i> ₁₁₅		9 30.9 113°05	7°2/11.4	18		396281	2014 <i>DT</i> ₁		9 30.9 136°04	3°8/4.7	18	
8 29	0 51.01	+ 31 15.4	2.657	3.366	13.8	19.0	8 29	0 54.71	+ 15 49.6	2.104	2.919	13.8	20.7
9 8	0 45.75	+ 31 35.0	2.581	3.377	12.0	18.9	9 8	0 48.57	+ 15 59.3	2.034	2.929	10.9	20.6
9 18	0 38.93	+ 31 33.2	2.524	3.388	10.0	18.8	9 18	0 40.62	+ 15 52.1	1.986	2.938	7.6	20.4
9 28	0 31.15	+ 31 8.5	2.490	3.399	8.3	18.7	9 28	0 31.56	+ 15 28.7	1.964	2.947	4.7	20.2
10 8	0 23.17	+ 30 22.4	2.481	3.410	7.3	18.7	10 8	0 22.30	+ 14 52.4	1.971	2.955	4.0	20.2
10 18	0 15.78	+ 29 18.5	2.500	3.420	7.5	18.7	10 18	0 13.74	+ 14 8.0	2.006	2.963	6.5	20.4
10 28	0 9.69	+ 28 2.8	2.545	3.430	8.8	18.8	10 28	0 6.72	+ 13 21.6	2.068	2.971	9.6	20.6
11 7	0 5.41	+ 26 42.2	2.616	3.440	10.5	18.9	11 7	0 1.79	+ 12 39.3	2.155	2.978	12.5	20.8
389418	2010 <i>BR</i> ₆₁		9 30.9 354°93	4°0/23.4	18		317840	2003 <i>SB</i> ₄₀₄		9 30.9 170°47	6°9/12.8	18	
8 29	0												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
326123	2011 YH ₃₂		9 30.9 297°56	0°8/ 2.6 18			442357	2011 SV ₂₃₀		9 30.9 307°11	1°4/ 2.3 18		
8 29	0 42.78	+ 9 21.5	4.225	5.061	7.0	20.9	8 29	0 49.47	+ 9 40.5	1.813	2.671	13.9	21.2
9 8	0 39.27	+ 9 0.0	4.142	5.058	5.3	20.7	9 8	0 45.07	+ 9 13.0	1.735	2.663	10.5	21.0
9 18	0 35.00	+ 8 31.9	4.084	5.055	3.3	20.6	9 18	0 38.75	+ 8 29.2	1.679	2.655	6.5	20.7
9 28	0 30.28	+ 7 58.5	4.055	5.052	1.3	20.4	9 28	0 31.19	+ 7 32.5	1.649	2.647	2.4	20.5
10 8	0 25.46	+ 7 22.2	4.057	5.049	1.5	20.5	10 8	0 23.32	+ 6 28.6	1.646	2.640	3.0	20.5
10 18	0 20.89	+ 6 45.3	4.088	5.046	3.5	20.6	10 18	0 16.09	+ 5 24.6	1.671	2.632	7.2	20.7
10 28	0 16.94	+ 6 10.5	4.149	5.043	5.4	20.7	10 28	0 10.41	+ 4 27.5	1.721	2.625	11.1	21.0
11 7	0 13.87	+ 5 40.1	4.236	5.041	7.2	20.9	11 7	0 6.89	+ 3 42.9	1.794	2.618	14.6	21.2
76870	2000 YP ₂₁		9 30.9 262°84	0°9/30.2 18			384904	2012 TJ ₃₄		9 30.9 270°67	1°9/ 2.5 18		
8 29	0 54.83	+ 2 51.7	1.496	2.375	15.2	19.7	8 29	0 53.06	+ 9 33.1	1.760	2.614	14.4	20.4
9 8	0 49.34	+ 2 24.8	1.420	2.363	11.1	19.4	9 8	0 47.80	+ 9 27.2	1.678	2.603	11.0	20.2
9 18	0 41.39	+ 1 45.9	1.367	2.352	6.4	19.1	9 18	0 40.41	+ 9 5.9	1.618	2.592	6.9	19.9
9 28	0 31.78	+ 1 0.1	1.339	2.340	1.5	18.8	9 28	0 31.59	+ 8 31.6	1.584	2.581	2.8	19.7
10 8	0 21.72	+ 0 14.5	1.338	2.328	4.3	18.9	10 8	0 22.34	+ 7 48.9	1.577	2.570	3.2	19.7
10 18	0 12.47	- 0 23.7	1.363	2.316	9.3	19.2	10 18	0 13.76	+ 7 3.7	1.597	2.558	7.5	19.9
10 28	0 5.21	- 0 48.2	1.412	2.304	13.9	19.5	10 28	0 6.86	+ 6 23.0	1.643	2.547	11.6	20.1
11 7	0 0.67	- 0 55.5	1.481	2.292	17.8	19.7	11 7	0 2.32	+ 5 52.2	1.712	2.535	15.2	20.3
78994	2003 UR ₂₂₄		9 30.9 150°75	0°5/ 1.3 18			41916	2000 WT ₁₅₂		9 30.9 359°36	3°5/ 2.9 18 R		
8 29	0 53.10	+ 6 0.7	1.810	2.674	13.7	19.8	8 29	0 53.07	+ 9 33.5	1.016	1.902	20.0	17.3
9 8	0 47.61	+ 5 46.9	1.741	2.675	10.1	19.6	9 8	0 48.81	+ 10 7.9	0.958	1.899	15.4	17.0
9 18	0 40.15	+ 5 21.2	1.695	2.675	6.0	19.4	9 18	0 41.39	+ 10 21.7	0.918	1.897	10.0	16.8
9 28	0 31.48	+ 4 47.1	1.676	2.676	1.6	19.1	9 28	0 31.84	+ 10 15.9	0.899	1.896	4.7	16.5
10 8	0 22.55	+ 4 9.7	1.684	2.676	3.1	19.2	10 8	0 21.79	+ 9 55.4	0.903	1.896	4.8	16.5
10 18	0 14.37	+ 3 34.5	1.719	2.677	7.4	19.4	10 18	0 12.96	+ 9 27.9	0.929	1.898	10.1	16.8
10 28	0 7.85	+ 3 6.9	1.781	2.677	11.3	19.7	10 28	0 6.84	+ 9 3.1	0.976	1.901	15.4	17.1
11 7	0 3.57	+ 2 50.9	1.865	2.678	14.6	19.9	11 7	0 4.24	+ 8 48.6	1.041	1.905	19.9	17.4
6405	Komiyama		9 30.9 104°62	3°2/28.2 18			50148	2000 AR ₁₃₆		9 30.9 185°07	4°6/26.8 18		
8 29	0 54.77	- 1 23.8	1.434	2.324	15.1	16.7	8 29	0 54.44	- 6 35.6	1.696	2.584	13.2	19.1
9 8	0 49.00	- 2 29.8	1.388	2.337	10.8	16.4	9 8	0 48.64	- 7 37.5	1.638	2.584	9.6	18.9
9 18	0 40.97	- 3 43.2	1.364	2.350	6.2	16.2	9 18	0 40.77	- 8 41.5	1.603	2.584	6.2	18.7
9 28	0 31.64	- 4 55.5	1.365	2.362	3.2	16.1	9 28	0 31.64	- 9 39.6	1.595	2.584	4.7	18.6
10 8	0 22.24	- 5 57.6	1.393	2.374	6.0	16.3	10 8	0 22.32	- 10 24.5	1.614	2.583	6.9	18.7
10 18	0 13.94	- 6 42.5	1.448	2.386	10.3	16.6	10 18	0 13.86	- 10 50.7	1.660	2.581	10.5	18.9
10 28	0 7.73	- 7 6.0	1.525	2.398	14.2	16.8	10 28	0 7.20	- 10 55.6	1.729	2.580	14.0	19.1
11 7	0 4.14	- 7 7.4	1.622	2.409	17.5	17.1	11 7	0 2.92	- 10 39.4	1.818	2.578	16.9	19.4
147846	2005 UO ₂₀		9 30.9 279°51	2°4/27.5 18			366115	2012 DH ₃₀		9 30.9 46°63	2°6/27.4 18		
8 29	0 47.06	- 5 30.5	3.118	3.994	8.2	19.8	8 29	0 46.75	- 1 21.6	2.227	3.111	10.7	20.3
9 8	0 43.63	- 6 0.9	3.037	3.979	5.9	19.7	9 8	0 42.68	- 2 43.9	2.166	3.113	7.6	20.1
9 18	0 37.27	- 6 32.6	2.982	3.964	3.6	19.5	9 18	0 37.18	- 4 12.5	2.130	3.115	4.4	19.9
9 28	0 30.81	- 7 2.3	2.957	3.948	2.4	19.4	9 28	0 30.82	- 5 41.0	2.122	3.117	2.7	19.8
10 8	0 24.18	- 7 26.6	2.961	3.933	3.9	19.5	10 8	0 24.32	- 7 2.6	2.143	3.119	4.8	19.9
10 18	0 17.91	- 7 42.6	2.994	3.918	6.2	19.6	10 18	0 18.38	- 8 11.3	2.192	3.121	7.9	20.1
10 28	0 12.53	- 7 48.2	3.054	3.902	8.6	19.8	10 28	0 13.66	- 9 2.9	2.267	3.123	10.9	20.3
11 7	0 8.43	- 7 42.5	3.137	3.887	10.6	19.9	11 7	0 10.61	- 9 35.6	2.365	3.126	13.4	20.5
292030	2006 QN ₁₆₅		9 30.9 264°97	2°0/ 2.9 18			408066	2012 GE ₁₆		9 30.9 194°27	3°2/ 5.5 18		
8 29	0 50.65	+ 11 1.4	1.944	2.791	13.6	20.5	8 29	0 47.78	+ 18 1.5	2.668	3.470	11.6	20.7
9 8	0 45.80	+ 10 43.5	1.866	2.786	10.3	20.2	9 8	0 43.32	+ 17 35.1	2.583	3.469	9.2	20.6
9 18	0 39.11	+ 10 9.8	1.811	2.782	6.6	20.0	9 18	0 37.52	+ 16 52.3	2.521	3.468	6.5	20.4
9 28	0 31.25	+ 9 22.9	1.781	2.777	2.9	19.8	9 28	0 30.91	+ 15 54.8	2.486	3.466	4.1	20.2
10 8	0 23.11	+ 8 27.7	1.780	2.772	3.0	19.8	10 8	0 24.11	+ 14 46.1	2.480	3.464	3.3	20.2
10 18	0 15.59	+ 7 30.3	1.806	2.768	6.7	20.0	10 18	0 17.78	+ 13 31.0	2.503	3.462	5.3	20.3
10 28	0 9.57	+ 6 37.2	1.859	2.763	10.5	20.2	10 28	0 12.55	+ 12 15.4	2.555	3.460	7.9	20.5
11 7	0 5.63	+ 5 54.1	1.935	2.758	13.7	20.4	11 7	0 8.85	+ 11 5.0	2.632	3.457	10.4	20.7
430682	2003 WV ₇₂		9 30.9 358°62	0°6/30.6 18			126822	2002 EQ ₅₅		9 30.9 39°35	1°3/ 2.0 18		
8 29	0 46.28	+ 1 56.2	0.775	1.701	20.3	19.0	8 29	0 52.20	+ 8 38.6	1.593	2.457	15.2	19.7
9 8	0 44.25	+ 2 11.1	0.727	1.693	14.9	18.7	9 8	0 47.18	+ 8 19.6	1.528	2.460	11.4	19.5
9 18	0 38.87	+ 2 12.3	0.696	1.687	8.7	18.3	9 18	0 40.01	+ 7 44.4	1.484	2.462	7.0	19.2
9 28	0 31.26	+ 2 5.4	0.683	1.685	1.9	17.9	9 28	0 31.49	+ 6 56.8	1.466	2.465	2.4	19.0
10 8	0 23.18	+ 1 58.3	0.690	1.685	5.2	18.2	10 8	0 22.72	+ 6 2.8	1.474	2.468	3.2	19.0
10 18	0 16.49	+ 1 58.8	0.717	1.687	11.8	18.5	10 18	0 14.80	+ 5 9.6	1.509	2.471	7.8	19.3
10 28	0 12.70	+ 2 13.7	0.762	1.693	17.6	18.9	10 28	0 8.71	+ 4 24.5	1.569	2.474	12.0	19.6
11 7	0 12.58	+ 2 46.0	0.822	1.701	22.4	19.2	11 7	0 5.07	+ 3 52.6	1.651	2.477	15.6	19.8
322948	2002 GE ₁₆₄		9 30.9 149°20	0°2/30.6 18			227561	2005 YX ₁₈₉		9 30.9 303°26	2°1/ 3.2 18		
8 29	0 48.06	+ 5 50.1	2.335	3.196	11.1	21.0	8 29	0 48.63	+ 11 50.8	2.052	2.897	13.0	20.5
9 8	0 43.57	+ 4 58.5	2.265	3.198	8.1	20.8	9 8	0 44.32	+ 11 30.8	1.967	2.885	10.0	20.3
9 18	0 37.67	+ 3 56.3	2.220	3.201	4.6	20.6	9 18	0 38.28	+ 10 55.0	1.904	2.873	6.5	20.1
9 28	0 30.92	+ 2 47.8	2.203	3.204	1.0	20.3	9 28	0 31.11	+ 10 5.5	1.867	2.862	3.0	19.8
10 8	0 24.02	+ 1 38.4	2.215	3.206	2.7	20.4	10 8	0 23.61	+ 9 7.0	1.858	2.850	2.9	19.8
10 18	0 17.66	+ 0 33.8	2.256	3.208	6.3	20.7	10 18	0 16.66	+ 8 5.3	1.877	2.839	6.4	20.0
10 28	0 12.51	- 0 21.1	2.325	3.210	9.5	20.9	10 28	0 11.07	+ 7 7.0	1.922	2.828	10.1	20.2
11 7	0 9.01	- 1 2.7	2.417	3.212	12.2	21.1	11 7	0 7.42	+ 6 17.9	1.991	2.817	13.3	20.4
297182	2010 WD ₄₉		9 30.9 298°19	1°5/28.1 18			363532	2003 US ₂₈₃		9 30.9 9°90	10°5/15.8 17		
8 29	0 43.45	- 3 23.4	4.205	5.078	6.3	20.7	8 29	0 46.41</					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
236538	2006 <i>HB</i> ₃₈		9 30.9 126°10	3°3/27.8	18		406246	2007 <i>DE</i> ₂₁		9 30.9 170°42	1°0/29.7	18	
8 29	0 52.02	- 3 13.8	1.797	2.683	12.7	20.3	8 29	0 49.52	+ 1 55.2	2.545	3.411	10.1	22.1
9 8	0 46.76	- 4 10.5	1.740	2.687	9.1	20.1	9 8	0 44.54	+ 1 15.5	2.476	3.413	7.3	22.0
9 18	0 39.64	- 5 12.0	1.707	2.691	5.4	19.9	9 18	0 38.23	+ 0 29.0	2.432	3.415	4.1	21.8
9 28	0 31.41	- 6 11.5	1.701	2.695	3.3	19.7	9 28	0 31.11	- 0 20.3	2.417	3.417	1.1	21.6
10 8	0 23.02	- 7 1.9	1.722	2.699	5.5	19.9	10 8	0 23.84	- 1 7.9	2.431	3.418	3.0	21.7
10 18	0 15.42	- 7 37.9	1.770	2.702	9.2	20.1	10 18	0 17.10	- 1 49.5	2.475	3.420	6.2	21.9
10 28	0 9.46	- 7 55.9	1.842	2.706	12.6	20.3	10 28	0 11.48	- 2 21.4	2.545	3.420	9.2	22.1
11 7	0 5.68	- 7 54.9	1.936	2.709	15.5	20.6	11 7	0 7.43	- 2 41.3	2.640	3.421	11.7	22.3
133545	2003 <i>TB</i> ₁₇		9 30.9 359°70	4°5/26.9	18		356205	2009 <i>QF</i> ₆₅		9 30.9 313°99	4°8/20.8	16	
8 29	0 54.68	-10 39.0	2.152	3.032	11.2	18.8	8 29	0 43.74	-20 38.8	3.991	4.861	6.7	20.5
9 8	0 48.43	-10 58.9	2.092	3.031	8.3	18.6	9 8	0 40.04	-21 34.0	3.940	4.855	5.5	20.5
9 18	0 40.51	-11 15.7	2.056	3.031	5.6	18.4	9 18	0 35.51	-22 23.7	3.915	4.849	4.9	20.4
9 28	0 31.60	-11 24.5	2.048	3.031	4.5	18.4	9 28	0 30.48	-23 4.5	3.918	4.843	5.1	20.4
10 8	0 22.56	-11 21.3	2.069	3.031	6.2	18.5	10 8	0 25.36	-23 33.6	3.948	4.837	6.0	20.5
10 18	0 14.26	-11 3.7	2.117	3.031	9.0	18.6	10 18	0 20.55	-23 49.2	4.004	4.831	7.2	20.6
10 28	0 7.45	-10 31.0	2.190	3.032	11.8	18.8	10 28	0 16.44	-23 50.6	4.084	4.826	8.5	20.7
11 7	0 2.63	- 9 43.9	2.285	3.032	14.2	19.0	11 7	0 13.33	-23 38.2	4.184	4.820	9.7	20.8
304239	2006 <i>RS</i> ₁₅		9 30.9 23°80	3°3/ 4.1	18		507186	2010 <i>PC</i> ₅₃		9 30.9 324°79	18°0/21.9	17	
8 29	0 48.76	+14 37.8	1.604	2.450	16.0	19.8	8 29	1 12.60	-35 49.3	1.184	2.026	20.7	20.2
9 8	0 44.68	+14 15.6	1.539	2.456	12.4	19.6	9 8	1 3.11	-36 34.6	1.135	2.009	19.1	20.1
9 18	0 38.56	+13 31.4	1.496	2.462	8.3	19.4	9 18	0 49.60	-36 44.3	1.104	1.993	18.1	20.0
9 28	0 31.18	+12 28.2	1.477	2.468	4.4	19.2	9 28	0 33.72	-36 3.4	1.091	1.978	18.3	19.9
10 8	0 23.57	+11 12.3	1.484	2.475	3.8	19.2	10 8	0 17.81	-34 25.2	1.098	1.963	19.6	20.0
10 18	0 16.79	+ 9 52.0	1.517	2.482	7.3	19.4	10 18	0 4.08	-31 53.3	1.125	1.950	21.8	20.1
10 28	0 11.77	+ 8 36.3	1.576	2.490	11.3	19.7	10 28	23 54.11	-28 39.2	1.170	1.937	24.2	20.2
11 7	0 9.08	+ 7 32.5	1.657	2.498	14.8	19.9	11 7	23 48.48	-24 58.0	1.232	1.926	26.5	20.4
453505	2009 <i>UX</i> ₅₄		9 30.9 283°46	2°3/ 3.8	18		4063	Euforbo		9 30.9 301°61	4°3/21.9	18	
8 29	0 47.65	+13 49.3	2.365	3.195	12.0	21.3	8 29	0 43.46	-18 7.2	4.072	4.947	6.5	15.7
9 8	0 43.45	+13 19.5	2.269	3.178	9.3	21.1	9 8	0 39.84	-19 0.0	4.015	4.938	5.2	15.6
9 18	0 37.73	+12 33.6	2.197	3.160	6.2	20.9	9 18	0 35.40	-19 48.6	3.984	4.930	4.4	15.6
9 28	0 31.00	+11 33.5	2.151	3.142	3.2	20.7	9 28	0 30.47	-20 29.7	3.981	4.921	4.5	15.6
10 8	0 23.96	+10 23.6	2.133	3.124	2.8	20.6	10 8	0 25.45	-21 0.4	4.007	4.912	5.4	15.6
10 18	0 17.36	+ 9 9.3	2.145	3.106	5.8	20.8	10 18	0 20.72	-21 18.9	4.059	4.904	6.8	15.7
10 28	0 11.92	+ 7 57.1	2.184	3.089	9.1	21.0	10 28	0 16.65	-21 24.2	4.135	4.896	8.1	15.8
11 7	0 8.19	+ 6 52.8	2.248	3.071	12.1	21.1	11 7	0 13.55	-21 16.4	4.233	4.887	9.4	15.9
161099	2002 <i>PN</i> ₁₂₄		9 30.9 316°14	1°3/29.9	18		511963	2015 <i>KD</i> ₁₄		9 30.9 46°71	9°5/22.9	18	
8 29	0 49.63	+ 4 0.3	1.278	2.170	16.3	19.7	8 29	0 52.91	-17 13.7	1.378	2.278	14.9	20.4
9 8	0 45.85	+ 3 5.8	1.207	2.157	11.9	19.4	9 8	0 47.58	-18 52.5	1.363	2.302	11.8	20.3
9 18	0 39.51	+ 1 54.0	1.157	2.144	6.8	19.1	9 18	0 40.09	-20 17.9	1.370	2.328	9.8	20.3
9 28	0 31.44	+ 0 32.0	1.131	2.132	1.7	18.7	9 28	0 31.52	-21 19.6	1.401	2.353	9.8	20.3
10 8	0 22.89	- 0 49.9	1.129	2.120	4.9	18.9	10 8	0 23.11	-21 50.6	1.455	2.380	11.7	20.5
10 18	0 15.21	- 2 1.1	1.152	2.108	10.3	19.2	10 18	0 15.99	-21 49.5	1.531	2.406	14.3	20.7
10 28	0 9.62	- 2 52.8	1.198	2.097	15.3	19.4	10 28	0 11.00	-21 18.3	1.628	2.433	16.8	21.0
11 7	0 6.89	- 3 20.4	1.262	2.087	19.5	19.7	11 7	0 8.54	-20 22.1	1.741	2.460	19.0	21.2
78386	2002 <i>PF</i> ₁₅₅		9 30.9 186°86	2°5/ 3.3	18		7944	1991 <i>PR</i> ₁₂		9 30.9 40°43	0°1/ 1.1	18	
8 29	0 52.71	+11 53.9	1.915	2.756	14.0	19.8	8 29	0 49.16	+ 5 48.7	1.995	2.862	12.5	17.7
9 8	0 47.33	+11 49.9	1.840	2.756	10.7	19.6	9 8	0 44.56	+ 5 19.9	1.936	2.872	9.1	17.5
9 18	0 40.03	+11 30.0	1.788	2.756	7.0	19.4	9 18	0 38.33	+ 4 40.2	1.901	2.882	5.3	17.3
9 28	0 31.52	+10 56.2	1.762	2.755	3.4	19.2	9 28	0 31.16	+ 3 53.7	1.892	2.893	1.3	17.1
10 8	0 22.73	+10 12.6	1.764	2.755	3.3	19.2	10 8	0 23.86	+ 3 5.6	1.911	2.904	2.8	17.2
10 18	0 14.64	+ 9 24.9	1.793	2.754	6.8	19.4	10 18	0 17.26	+ 2 21.4	1.959	2.915	6.7	17.5
10 28	0 8.11	+ 8 39.5	1.849	2.754	10.5	19.6	10 28	0 12.07	+ 1 45.9	2.032	2.927	10.1	17.7
11 7	0 3.76	+ 8 2.0	1.928	2.753	13.7	19.8	11 7	0 8.79	+ 1 22.5	2.128	2.939	13.1	17.9
120120	Kankelborg		9 30.9 199°90	0°5/30.4	18		515676	2014 <i>OV</i> ₃₈₁		9 30.9 69°57	0°7/30.2	18	
8 29	0 49.74	+ 4 8.9	2.057	2.925	12.1	20.4	8 29	0 50.50	+ 2 56.8	2.080	2.950	11.9	21.4
9 8	0 44.99	+ 3 29.7	1.987	2.925	8.8	20.2	9 8	0 45.46	+ 2 26.0	2.021	2.960	8.6	21.2
9 18	0 38.59	+ 2 40.5	1.942	2.925	5.0	20.0	9 18	0 38.83	+ 1 47.0	1.986	2.969	4.9	21.0
9 28	0 31.19	+ 1 45.5	1.924	2.925	1.1	19.7	9 28	0 31.28	+ 1 4.0	1.978	2.979	1.1	20.7
10 8	0 23.59	+ 0 50.5	1.934	2.925	3.2	19.9	10 8	0 23.60	+ 0 22.0	1.999	2.989	3.2	20.9
10 18	0 16.61	+ 0 1.1	1.973	2.924	7.0	20.1	10 18	0 16.61	- 0 14.1	2.047	2.998	6.9	21.2
10 28	0 11.02	- 0 37.8	2.037	2.924	10.5	20.3	10 28	0 11.02	- 0 40.0	2.122	3.008	10.2	21.4
11 7	0 7.32	- 1 2.9	2.125	2.924	13.5	20.5	11 7	0 7.30	- 0 53.4	2.220	3.018	13.1	21.6
37852	1998 <i>DG</i> ₃₂		9 30.9 238°03	2°8/ 3.3	18		826	Henrika		9 30.9 78°48	2°6/ 3.7	18	
8 29	0 53.19	+12 59.9	1.508	2.358	16.6	18.8	8 29	0 51.79	+13 54.4	1.811	2.649	14.8	15.8
9 8	0 48.18	+12 37.1	1.431	2.351	12.8	18.6	9 8	0 46.55	+13 22.3	1.758	2.671	11.3	15.7
9 18	0 40.76	+11 51.9	1.375	2.344	8.4	18.3	9 18	0 39.49	+12 31.4	1.727	2.693	7.4	15.5
9 28	0 31.72	+10 46.7	1.343	2.337	4.0	18.0	9 28	0 31.42	+11 25.2	1.722	2.714	3.7	15.3
10 8	0 22.25	+ 9 28.2	1.337	2.329	3.8	18.0	10 8	0 23.30	+10 9.9	1.744	2.736	3.2	15.3
10 18	0 13.60	+ 8 5.4	1.358	2.322	8.2	18.3	10 18	0 16.05	+ 8 52.9	1.795	2.757	6.7	15.6
10 28	0 6.91	+ 6 48.3	1.404	2.313	12.7	18.5	10 28	0 10.47	+ 7 42.0	1.872	2.778	10.2	15.8
11 7	0 2.92	+ 5 45.2	1.471	2.305	16.7	18.7	11 7	0 7.03	+ 6 42.8	1.972	2.798	13.4	16.1
37943	1998 <i>HF</i> ₁₈		9 30.9 232°49	1°9/ 2.8	18		13795	1998 <i>VP</i> ₂₀		9 30.9 125°56	0°6/30.2	18	

EPHEMERIDES

9 30.9

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
84682	2002 VN ₉₄		9 30.9 302°94	0°0/30.7 18			291152	2005 YX ₂₇₃		9 30.9 131°11	5°8/ 8.8 18		
8 29	0 51.35	+ 4 54.4	1.836	2.705	13.3	20.1	8 29	0 52.90	+26 0.4	2.819	3.558	12.5	20.8
9 8	0 46.42	+ 4 32.7	1.761	2.698	9.7	19.8	9 8	0 47.06	+26 27.0	2.741	3.569	10.5	20.7
9 18	0 39.57	+ 3 59.7	1.709	2.691	5.7	19.6	9 18	0 39.75	+26 35.9	2.685	3.580	8.5	20.6
9 28	0 31.48	+ 3 19.2	1.683	2.684	1.3	19.3	9 28	0 31.53	+26 26.3	2.655	3.590	6.7	20.5
10 8	0 23.09	+ 2 36.7	1.685	2.677	3.2	19.4	10 8	0 23.09	+25 59.4	2.652	3.600	5.8	20.5
10 18	0 15.36	+ 1 57.9	1.714	2.671	7.5	19.6	10 18	0 15.18	+25 18.4	2.677	3.610	6.5	20.5
10 28	0 9.19	+ 1 28.3	1.769	2.664	11.4	19.9	10 28	0 8.46	+24 28.1	2.730	3.619	8.1	20.6
11 7	0 5.20	+ 1 11.6	1.847	2.658	14.8	20.1	11 7	0 3.42	+23 34.3	2.808	3.628	10.0	20.8
197261	2003 WZ ₇₇		9 30.9 340°21	6°6/ 7.7 18			221480	2006 BN ₂₅₀		9 30.9 277°30	0°1/30.7 18		
8 29	0 48.96	+22 57.7	1.953	2.745	15.6	19.8	8 29	0 49.57	+ 4 40.0	2.279	3.142	11.3	21.1
9 8	0 44.81	+23 22.6	1.868	2.736	13.0	19.6	9 8	0 44.86	+ 4 11.6	2.193	3.128	8.2	20.9
9 18	0 38.71	+23 25.2	1.804	2.728	10.2	19.4	9 18	0 38.58	+ 3 33.6	2.132	3.114	4.8	20.6
9 28	0 31.30	+23 4.2	1.762	2.720	7.7	19.3	9 28	0 31.28	+ 2 49.4	2.099	3.100	1.1	20.3
10 8	0 23.49	+22 21.6	1.746	2.713	6.6	19.2	10 8	0 23.68	+ 2 3.6	2.094	3.085	2.8	20.4
10 18	0 16.28	+21 21.9	1.755	2.706	7.8	19.2	10 18	0 16.57	+ 1 21.1	2.118	3.071	6.5	20.7
10 28	0 10.58	+ 20 12.8	1.790	2.700	10.4	19.4	10 28	0 10.68	+ 0 46.6	2.168	3.057	9.9	20.9
11 7	0 7.06	+19 2.7	1.849	2.695	13.3	19.6	11 7	0 6.55	+ 0 23.5	2.242	3.042	12.9	21.0
112591	2002 PK ₅₇		9 30.9 38°00	4°1/26.7 18			70093	1999 JP ₁₀₆		9 30.9 49°81	2°4/29.4 17		
8 29	0 47.25	- 0 57.1	1.365	2.268	14.8	18.2	8 29	0 57.11	+ 0 39.2	1.015	1.916	18.9	18.9
9 8	0 43.62	- 2 57.2	1.329	2.285	10.5	18.0	9 8	0 51.05	- 0 1.8	0.991	1.944	13.4	18.7
9 18	0 37.92	- 5 5.5	1.315	2.303	6.1	17.8	9 18	0 42.25	- 0 52.8	0.985	1.973	7.5	18.5
9 28	0 31.08	- 7 10.0	1.327	2.321	4.2	17.7	9 28	0 32.05	- 1 44.7	1.003	2.003	2.5	18.3
10 8	0 24.19	- 8 58.6	1.366	2.340	7.0	17.9	10 8	0 22.12	- 2 27.7	1.045	2.033	5.7	18.6
10 18	0 18.31	-10 22.4	1.429	2.360	11.1	18.2	10 18	0 13.87	- 2 54.9	1.110	2.064	10.9	19.0
10 28	0 14.30	-11 16.9	1.515	2.380	14.8	18.5	10 28	0 8.35	- 3 2.2	1.197	2.094	15.5	19.3
11 7	0 12.63	-11 41.9	1.620	2.401	17.8	18.8	11 7	0 5.97	- 2 49.2	1.302	2.125	19.1	19.7
523569	2018 DH ₂		9 30.9 194°92	3°4/26.9 18			178952	2001 QO ₁₅₁		9 30.9 86°69	7°0/ 6.2 16		
8 29	0 49.89	- 3 2.1	2.065	2.949	11.4	21.4	8 29	1 7.44	+20 31.7	1.714	2.497	17.7	20.1
9 8	0 45.11	- 4 27.3	2.001	2.947	8.2	21.2	9 8	0 58.14	+21 41.4	1.664	2.530	14.4	19.9
9 18	0 38.70	- 5 58.4	1.962	2.945	4.9	21.0	9 18	0 46.32	+22 28.0	1.635	2.562	10.9	19.8
9 28	0 31.27	- 7 28.0	1.951	2.943	3.4	20.9	9 28	0 33.03	+22 48.7	1.633	2.593	8.0	19.7
10 8	0 23.65	- 8 48.7	1.969	2.941	5.6	21.1	10 8	0 19.64	+22 44.7	1.658	2.623	7.1	19.7
10 18	0 16.66	- 9 54.2	2.015	2.938	8.9	21.3	10 18	0 7.51	+22 21.1	1.711	2.653	8.8	19.9
10 28	0 11.04	-10 40.2	2.086	2.934	12.0	21.5	10 28	23 57.76	+21 46.0	1.791	2.682	11.5	20.1
11 7	0 7.32	-11 5.3	2.178	2.931	14.7	21.6	11 7	23 50.97	+21 8.2	1.894	2.710	14.3	20.4
129088	2004 VE ₉₁		9 30.9 175°30	3°2/ 4.6 18			97708	2000 GZ ₈₄		9 30.9 86°37	7°3/23.5 18		
8 29	0 50.59	+15 16.6	2.384	3.201	12.3	20.0	8 29	0 52.68	-16 3.6	1.883	2.769	12.2	19.8
9 8	0 45.52	+15 17.7	2.304	3.202	9.7	19.9	9 8	0 47.15	-17 19.7	1.845	2.780	9.5	19.7
9 18	0 38.91	+15 3.9	2.248	3.202	6.7	19.7	9 18	0 39.84	-18 28.1	1.832	2.791	7.7	19.6
9 28	0 31.33	+14 36.2	2.218	3.202	4.0	19.5	9 28	0 31.54	-19 21.0	1.846	2.802	7.6	19.6
10 8	0 23.52	+13 57.6	2.216	3.202	3.5	19.5	10 8	0 23.20	-19 52.3	1.885	2.812	9.2	19.7
10 18	0 16.24	+13 12.4	2.243	3.202	5.8	19.6	10 18	0 15.74	-19 59.4	1.948	2.823	11.7	19.9
10 28	0 10.21	+12 26.0	2.298	3.202	8.7	19.8	10 28	0 9.95	-19 42.1	2.034	2.833	14.1	20.1
11 7	0 5.95	+11 43.6	2.377	3.202	11.4	20.0	11 7	0 6.28	-19 3.0	2.139	2.844	16.2	20.3
160864	2001 HG ₅₁		9 30.9 89°15	0°6/30.5 18			5248	Scardia		9 30.9 62°59	0°3/30.7 18		
8 29	0 57.50	+ 2 46.3	1.466	2.342	15.6	19.5	8 29	0 55.57	+ 5 17.3	1.157	2.043	18.1	16.7
9 8	0 51.06	+ 2 33.9	1.413	2.354	11.3	19.3	9 8	0 49.95	+ 4 41.0	1.117	2.062	13.2	16.5
9 18	0 42.27	+ 2 11.2	1.382	2.365	6.5	19.1	9 18	0 41.70	+ 3 48.5	1.097	2.082	7.6	16.2
9 28	0 32.09	+ 1 42.9	1.376	2.377	1.4	18.8	9 28	0 31.97	+ 2 47.0	1.101	2.102	1.6	15.9
10 8	0 21.78	+ 1 15.2	1.398	2.389	3.9	19.0	10 8	0 22.23	+ 1 46.0	1.129	2.122	4.3	16.2
10 18	0 12.58	+ 0 53.9	1.445	2.400	8.8	19.3	10 18	0 13.89	+ 0 54.5	1.183	2.142	9.7	16.6
10 28	0 5.51	+ 0 43.7	1.518	2.412	13.0	19.6	10 28	0 8.02	+ 0 19.4	1.259	2.162	14.4	16.9
11 7	0 1.16	+ 0 47.4	1.611	2.423	16.6	19.8	11 7	0 5.15	+ 0 4.0	1.354	2.182	18.2	17.2
421642	2014 OH ₃₂₈		9 30.9 25°54	4°3/26.1 18			28667	Whithagins		9 30.9 22°37	1°7/29.5 18		
8 29	0 48.25	- 6 34.1	1.974	2.866	11.4	21.0	8 29	0 51.79	+ 0 34.7	1.593	2.478	14.0	19.0
9 8	0 43.94	- 7 47.4	1.920	2.869	8.3	20.8	9 8	0 46.83	+ 0 6.6	1.536	2.482	10.1	18.8
9 18	0 38.01	- 9 2.4	1.892	2.873	5.4	20.6	9 18	0 39.82	- 0 29.6	1.501	2.487	5.8	18.5
9 28	0 31.11	-10 12.0	1.890	2.877	4.4	20.6	9 28	0 31.56	- 1 8.4	1.493	2.493	1.8	18.3
10 8	0 24.09	-11 9.5	1.916	2.881	6.4	20.7	10 8	0 23.12	- 1 43.3	1.511	2.499	4.4	18.5
10 18	0 17.74	-11 49.8	1.968	2.885	9.4	20.9	10 18	0 15.56	- 2 8.8	1.555	2.505	8.7	18.7
10 28	0 12.80	-12 10.1	2.045	2.889	12.4	21.1	10 28	0 9.81	- 2 20.4	1.623	2.512	12.6	19.0
11 7	0 9.75	-12 10.2	2.142	2.894	14.9	21.3	11 7	0 6.41	- 2 16.2	1.713	2.519	15.9	19.2
402827	2007 EW ₂₁₅		9 30.9 184°00	2°7/27.2 18			521649	2015 QK ₁₈		9 30.9 31°41	8°3/24.2 18		
8 29	0 48.36	- 3 35.4	2.656	3.533	9.4	21.5	8 29	1 0.47	-22 40.8	2.060	2.921	12.4	20.5
9 8	0 43.69	- 4 40.8	2.590	3.533	6.7	21.3	9 8	0 52.65	-23 6.7	2.013	2.924	10.2	20.4
9 18	0 37.75	- 5 49.9	2.551	3.533	4.0	21.1	9 18	0 42.95	-23 19.3	1.990	2.927	8.6	20.3
9 28	0 31.06	- 6 57.4	2.540	3.533	2.7	21.1	9 28	0 32.24	-23 12.5	1.993	2.930	8.4	20.3
10 8	0 24.22	- 7 58.3	2.560	3.532	4.4	21.2	10 8	0 21.55	-22 42.6	2.023	2.933	9.7	20.4
10 18	0 17.87	- 8 48.2	2.608	3.530	7.1	21.3	10 18	0 11.89	-21 49.5	2.079	2.936	11.8	20.5
10 28	0 12.57	- 9 24.0	2.682	3.529	9.7	21.5	10 28	0 4.06	-20 35.2	2.159	2.940	14.0	20.7
11 7	0 8.76	- 9 44.3	2.780	3.527	11.9	21.7	11 7	23 58.56	-19 3.9	2.259	2.944	16.0	20.9
400740	2009 UY ₃₇		9 30.9 351°44	5°7/26.1 18			515357	2013 CJ ₁₁₇		9 30.9 266°56	0°1/30.8 18		
8 29	0 50.89	-10 44.3	1.672	2.568	12.9	19.4	8 29	0 53.35	+ 3 52.5	1.998			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
73183	2002 <i>HT</i> ₁₅		9 30.9	95°87'	1.1°/29.9	18	390351	2013 <i>CC</i> ₁₄₃		9 30.9	303°79'	0.2°/1.4	18
8 29	0 51.87	+ 3 26.4	1.783	2.657	13.4	19.9	8 29	0 42.95	+ 6 2.1	4.135	4.984	6.9	21.3
9 8	0 46.64	+ 2 31.9	1.730	2.671	9.6	19.7	9 8	0 39.47	+ 5 36.6	4.051	4.978	5.0	21.1
9 18	0 39.59	+ 1 26.9	1.701	2.685	5.4	19.4	9 18	0 35.23	+ 5 5.4	3.994	4.972	3.0	21.0
9 28	0 31.49	+ 0 17.4	1.699	2.699	1.4	19.2	9 28	0 30.51	+ 4 30.4	3.966	4.966	0.8	20.8
10 8	0 23.31	- 0 49.5	1.724	2.713	3.8	19.4	10 8	0 25.69	+ 3 54.0	3.968	4.960	1.5	20.9
10 18	0 15.98	- 1 47.1	1.778	2.727	7.9	19.7	10 18	0 21.13	+ 3 18.7	4.000	4.954	3.7	21.0
10 28	0 10.28	- 2 30.2	1.857	2.740	11.6	19.9	10 28	0 17.17	+ 2 46.9	4.061	4.948	5.7	21.2
11 7	0 6.73	- 2 56.1	1.957	2.753	14.6	20.2	11 7	0 14.12	+ 2 20.8	4.147	4.942	7.5	21.3
11642	1997 <i>AN</i> ₂₁		9 30.9	314°29'	8.5°/7.4	18	273599	2007 <i>CZ</i> ₅₉		9 30.9	214°98'	0.7°/1.7	18
8 29	0 54.55	+23 6.0	1.598	2.395	18.2	17.8	8 29	0 52.96	+ 8 30.6	2.086	2.935	12.7	21.9
9 8	0 49.46	+24 8.4	1.513	2.382	15.4	17.5	9 8	0 47.47	+ 7 50.7	2.002	2.927	9.5	21.7
9 18	0 41.72	+24 47.0	1.447	2.370	12.3	17.3	9 18	0 40.17	+ 6 56.6	1.941	2.918	5.7	21.4
9 28	0 32.08	+24 57.8	1.403	2.357	9.6	17.1	9 28	0 31.70	+ 5 51.6	1.909	2.908	1.7	21.1
10 8	0 21.72	+24 40.4	1.383	2.346	8.5	17.0	10 8	0 22.92	+ 4 41.6	1.905	2.897	2.8	21.2
10 18	0 12.02	+23 58.7	1.388	2.334	9.9	17.1	10 18	0 14.72	+ 3 33.0	1.930	2.886	6.8	21.4
10 28	0 4.31	+23 1.2	1.416	2.323	12.9	17.2	10 28	0 7.94	+ 2 32.3	1.983	2.874	10.5	21.6
11 7	23 59.47	+21 58.5	1.467	2.312	16.1	17.4	11 7	0 3.17	+ 1 44.4	2.059	2.861	13.8	21.8
60567	2000 <i>EL</i> ₁₁₀		9 30.9	83°82'	4.7°/26.6	18	236461	2006 <i>EP</i> ₆₆		9 30.9	64°80'	1.2°/2.0	18
8 29	0 54.51	- 8 53.7	1.883	2.767	12.2	19.1	8 29	0 53.21	+ 8 16.9	1.614	2.477	15.1	20.6
9 8	0 48.36	- 9 43.3	1.844	2.787	9.0	19.0	9 8	0 47.83	+ 8 0.2	1.558	2.489	11.2	20.4
9 18	0 40.49	-10 31.1	1.829	2.806	5.9	18.8	9 18	0 40.40	+ 7 28.4	1.524	2.502	6.8	20.2
9 28	0 31.69	-11 10.5	1.842	2.826	4.8	18.8	9 28	0 31.73	+ 6 45.3	1.516	2.515	2.3	20.0
10 8	0 22.91	-11 36.2	1.882	2.845	6.6	18.9	10 8	0 22.93	+ 5 56.9	1.535	2.528	3.1	20.1
10 18	0 15.06	-11 44.8	1.949	2.863	9.6	19.2	10 18	0 15.05	+ 5 9.9	1.580	2.541	7.5	20.4
10 28	0 8.88	-11 35.1	2.040	2.882	12.5	19.4	10 28	0 9.02	+ 4 30.8	1.651	2.554	11.6	20.6
11 7	0 4.83	-11 8.1	2.152	2.900	14.9	19.6	11 7	0 5.38	+ 4 4.1	1.744	2.567	15.0	20.9
204521	2005 <i>EQ</i> ₅₀		9 30.9	211°41'	0.9°/1.8	18	63241	2001 <i>BJ</i> ₂₆		9 30.9	201°39'	4.3°/20.5	18 R
8 29	0 52.90	+ 7 38.2	2.207	3.056	12.1	20.8	8 29	0 42.89	-20 57.8	4.625	5.492	5.9	19.5
9 8	0 47.30	+ 7 20.1	2.125	3.050	9.0	20.6	9 8	0 39.39	-21 55.1	4.579	5.491	4.9	19.4
9 18	0 40.00	+ 6 50.5	2.068	3.044	5.5	20.3	9 18	0 35.16	-22 47.5	4.560	5.490	4.4	19.4
9 28	0 31.62	+ 6 12.0	2.039	3.038	1.8	20.1	9 28	0 30.52	-23 32.0	4.569	5.489	4.5	19.4
10 8	0 22.96	+ 5 29.0	2.038	3.031	2.6	20.1	10 8	0 25.79	-24 6.1	4.606	5.488	5.3	19.5
10 18	0 14.87	+ 4 46.5	2.067	3.024	6.4	20.4	10 18	0 21.33	-24 28.3	4.668	5.486	6.4	19.5
10 28	0 8.13	+ 4 9.5	2.123	3.016	9.9	20.6	10 28	0 17.46	-24 37.7	4.755	5.485	7.6	19.6
11 7	0 3.31	+ 3 42.2	2.202	3.007	12.9	20.8	11 7	0 14.45	-24 34.6	4.862	5.484	8.6	19.7
57572	2001 <i>TY</i> ₆₃		9 30.9	270°21'	0.5°/1.4	18	20153	1996 <i>TC</i> ₈		9 30.9	115°39'	0.4°/1.3	18
8 29	0 50.46	+ 6 53.1	2.004	2.864	12.7	19.0	8 29	0 55.00	+ 7 22.1	1.547	2.412	15.5	18.9
9 8	0 45.63	+ 6 25.9	1.930	2.861	9.4	18.8	9 8	0 49.18	+ 6 40.6	1.492	2.426	11.4	18.7
9 18	0 39.06	+ 5 46.3	1.879	2.858	5.6	18.6	9 18	0 41.19	+ 5 43.3	1.459	2.440	6.7	18.5
9 28	0 31.40	+ 4 58.1	1.855	2.855	1.5	18.3	9 28	0 31.92	+ 4 35.6	1.452	2.453	1.7	18.2
10 8	0 23.50	+ 4 6.4	1.859	2.852	2.8	18.4	10 8	0 22.52	+ 3 25.2	1.472	2.465	3.4	18.3
10 18	0 16.21	+ 3 17.0	1.892	2.849	6.8	18.7	10 18	0 14.13	+ 2 20.3	1.520	2.477	8.1	18.6
10 28	0 10.36	+ 2 35.4	1.950	2.846	10.5	18.9	10 28	0 7.71	+ 1 27.9	1.592	2.489	12.4	18.9
11 7	0 6.48	+ 2 5.8	2.032	2.843	13.6	19.1	11 7	0 3.81	+ 0 52.4	1.686	2.500	15.8	19.2
241474	2009 <i>BQ</i> ₁₂		9 30.9	210°13'	6.9°/23.1	18	13744	Rickline		9 30.9	352°42'	1.9°/29.5	18
8 29	0 50.41	-13 8.0	1.854	2.746	12.0	20.0	8 29	0 52.87	- 0 17.7	1.558	2.445	14.2	17.4
9 8	0 45.67	-14 49.9	1.804	2.745	9.2	19.8	9 8	0 47.76	- 0 39.8	1.495	2.442	10.3	17.2
9 18	0 39.09	-16 28.4	1.778	2.744	7.2	19.7	9 18	0 40.45	- 1 9.3	1.454	2.440	5.9	16.9
9 28	0 31.41	-17 54.3	1.779	2.742	7.2	19.7	9 28	0 31.77	- 1 40.7	1.438	2.438	2.0	16.7
10 8	0 23.53	-18 59.5	1.807	2.740	9.2	19.8	10 8	0 22.82	- 2 7.8	1.449	2.436	4.6	16.8
10 18	0 16.41	-19 39.1	1.859	2.738	11.9	20.0	10 18	0 14.73	- 2 25.1	1.486	2.435	9.1	17.1
10 28	0 10.86	-19 51.6	1.934	2.736	14.6	20.1	10 28	0 8.49	- 2 28.5	1.546	2.435	13.2	17.3
11 7	0 7.42	-19 38.5	2.027	2.734	17.0	20.3	11 7	0 4.74	- 2 16.0	1.628	2.435	16.6	17.6
223603	2004 <i>GB</i> ₈₅		9 30.9	279°60'	2.3°/28.8	18	241584	1997 <i>CD</i> ₁₈		9 30.9	324°54'	6.1°/5.6	18
8 29	0 50.38	+ 2 1.9	1.496	2.384	14.6	20.5	8 29	0 52.07	+17 43.5	1.479	2.313	17.7	19.4
9 8	0 46.06	+ 0 45.6	1.428	2.377	10.6	20.2	9 8	0 47.64	+18 18.5	1.397	2.299	14.4	19.1
9 18	0 39.52	- 0 44.5	1.382	2.369	6.0	19.9	9 18	0 40.66	+18 30.7	1.335	2.286	10.7	18.9
9 28	0 31.54	- 2 20.3	1.362	2.361	2.3	19.7	9 28	0 31.88	+18 18.5	1.295	2.273	7.2	18.7
10 8	0 23.21	- 3 51.7	1.369	2.354	5.3	19.9	10 8	0 22.47	+17 44.0	1.279	2.261	6.2	18.6
10 18	0 15.69	- 5 9.1	1.401	2.346	10.0	20.1	10 18	0 13.78	+16 53.1	1.288	2.250	8.9	18.7
10 28	0 10.01	- 6 5.2	1.457	2.339	14.2	20.4	10 28	0 7.07	+15 54.9	1.322	2.239	12.8	18.9
11 7	0 6.83	- 6 36.9	1.533	2.332	17.9	20.6	11 7	0 3.20	+14 59.3	1.376	2.229	16.6	19.1
432695	2011 <i>BX</i> ₉₄		9 30.9	159°99'	1.5°/29.5	17	409055	2003 <i>SR</i> ₁₀₁		9 30.9	6°47'	4.6°/4.3	17
8 29	0 54.87	+ 1 17.7	1.852	2.723	13.0	22.1	8 29	0 57.37	+13 53.5	1.868	2.694	14.9	19.9
9 8	0 48.84	+ 0 34.5	1.789	2.729	9.4	21.9	9 8	0 50.91	+14 54.6	1.793	2.695	11.8	19.7
9 18	0 40.91	- 0 17.1	1.751	2.735	5.3	21.6	9 18	0 42.28	+15 41.4	1.742	2.696	8.4	19.5
9 28	0 31.83	- 1 11.7	1.739	2.739	1.7	21.4	9 28	0 32.21	+16 12.5	1.716	2.698	5.4	19.4
10 8	0 22.57	- 2 2.9	1.757	2.744	4.1	21.6	10 8	0 21.74	+16 28.6	1.719	2.701	4.9	19.3
10 18	0 14.12	- 2 44.8	1.802	2.747	8.1	21.8	10 18	0 11.99	+16 32.5	1.749	2.704	7.5	19.5
10 28	0 7.33	- 3 13.0	1.873	2.750	11.8	22.1	10 28	0 3.97	+16 29.3	1.805	2.708	10.8	19.7
11 7	0 2.76	- 3 25.0	1.966	2.753	14.9	22.3	11 7	23 58.37	+16 24.6	1.884	2.712	13.8	19.9
42357	2002 <i>CS</i> ₅₂		9 30.9	199°13'	1.9°/2.8	18	293322	2007 <i>DC</i> ₅₅		9 30.9	122°25'	1.6°/2.7	18
8 29	0 54.20	+10 27.8	2										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
407462	2010 <i>UH</i> ₆₀		9 30.9 193°66	3°4/ 5.2	18		263775	2008 <i>KK</i> ₄₀		9 30.9 54°75	3°3/27.6	18	
8 29	0 49.34	+16 57.9	2.457	3.267	12.2	21.0	8 29	0 50.17	- 4 12.3	1.968	2.854	11.7	20.0
9 8	0 44.62	+16 44.9	2.375	3.266	9.7	20.8	9 8	0 45.29	- 5 5.0	1.920	2.867	8.4	19.8
9 18	0 38.42	+16 15.7	2.315	3.265	6.8	20.6	9 18	0 38.80	- 6 0.4	1.897	2.881	5.0	19.6
9 28	0 31.30	+15 31.6	2.282	3.264	4.2	20.4	9 28	0 31.40	- 6 52.5	1.901	2.894	3.3	19.5
10 8	0 23.96	+14 35.8	2.277	3.262	3.5	20.4	10 8	0 23.94	- 7 35.5	1.933	2.908	5.3	19.7
10 18	0 17.13	+13 33.2	2.302	3.261	5.6	20.5	10 18	0 17.22	- 8 4.8	1.992	2.922	8.5	19.9
10 28	0 11.49	+12 29.6	2.354	3.259	8.5	20.7	10 28	0 11.97	- 8 17.7	2.075	2.936	11.5	20.1
11 7	0 7.55	+11 30.8	2.431	3.257	11.1	20.9	11 7	0 8.63	- 8 13.6	2.180	2.950	14.1	20.3
435858	2008 <i>XR</i> ₁₂		9 30.9 25°83	11°7/20.9	18		326161	2012 <i>BE</i> ₈₈		9 30.9 201°55	0°1/30.8	18	
8 29	0 53.28	-22 39.0	1.371	2.263	15.5	19.8	8 29	0 51.46	+ 3 59.6	2.519	3.376	10.5	21.1
9 8	0 48.17	-24 14.5	1.344	2.270	13.1	19.7	9 8	0 46.06	+ 3 43.2	2.443	3.374	7.7	20.9
9 18	0 40.65	-25 32.5	1.337	2.277	11.8	19.6	9 18	0 39.24	+ 3 19.2	2.391	3.371	4.4	20.7
9 28	0 31.79	-26 21.8	1.353	2.284	12.1	19.7	9 28	0 31.53	+ 2 50.6	2.368	3.369	1.0	20.5
10 8	0 22.93	-26 35.7	1.392	2.293	13.9	19.8	10 8	0 23.63	+ 2 21.0	2.374	3.366	2.5	20.6
10 18	0 15.31	-26 12.7	1.450	2.302	16.3	20.0	10 18	0 16.23	+ 1 54.3	2.410	3.362	5.9	20.8
10 28	0 9.92	-25 16.2	1.528	2.312	18.7	20.2	10 28	0 10.00	+ 1 34.1	2.473	3.359	9.0	21.0
11 7	0 7.27	-23 52.2	1.621	2.322	20.8	20.4	11 7	0 5.40	+ 1 22.9	2.561	3.355	11.6	21.2
299109	2005 <i>EY</i> ₁₃₆		9 30.9 82°46	1°8/29.4	18		145152	2005 <i>GS</i> ₁₈₁		9 30.9 6°56	3°8/28.7	17	
8 29	0 56.28	- 1 10.1	1.859	2.733	12.9	20.0	8 29	0 53.48	- 3 10.9	1.039	1.948	17.8	19.3
9 8	0 49.71	- 1 27.3	1.811	2.752	9.3	19.8	9 8	0 48.93	- 3 35.8	0.990	1.948	12.9	19.0
9 18	0 41.33	- 1 49.2	1.787	2.771	5.3	19.6	9 18	0 41.42	- 4 6.5	0.961	1.949	7.6	18.7
9 28	0 31.94	- 2 11.4	1.790	2.789	1.9	19.4	9 28	0 32.07	- 4 34.8	0.953	1.951	3.8	18.5
10 8	0 22.54	- 2 28.9	1.822	2.808	4.1	19.6	10 8	0 22.45	- 4 51.9	0.969	1.955	6.8	18.7
10 18	0 14.05	- 2 38.0	1.882	2.826	7.9	19.9	10 18	0 14.14	- 4 51.6	1.007	1.959	12.0	19.0
10 28	0 7.30	- 2 35.8	1.967	2.844	11.3	20.1	10 28	0 8.43	- 4 30.6	1.066	1.965	16.8	19.3
11 7	0 2.74	- 2 21.2	2.075	2.862	14.2	20.4	11 7	0 5.99	- 3 49.1	1.143	1.972	20.8	19.6
133734	2003 <i>UZ</i> ₂₈₂		9 30.9 27°33	8°4/23.5	18		41489	2000 <i>QL</i> ₇₃		9 30.9 25°48	1°3/29.9	17	
8 29	0 52.91	-16 15.0	1.557	2.451	13.8	19.0	8 29	0 50.49	+ 4 16.8	1.057	1.958	18.3	19.2
9 8	0 47.69	-17 32.0	1.517	2.455	10.9	18.8	9 8	0 46.65	+ 3 19.5	1.010	1.964	13.3	19.0
9 18	0 40.33	-18 40.4	1.499	2.460	8.8	18.7	9 18	0 40.05	+ 2 4.3	0.982	1.970	7.5	18.7
9 28	0 31.73	-19 30.6	1.506	2.465	8.7	18.7	9 28	0 31.75	+ 0 40.3	0.977	1.978	1.8	18.4
10 8	0 23.05	-19 55.5	1.537	2.470	10.6	18.9	10 8	0 23.24	- 0 40.5	0.995	1.986	5.1	18.6
10 18	0 15.38	-19 52.1	1.592	2.476	13.3	19.1	10 18	0 15.98	- 1 47.0	1.036	1.995	10.8	19.0
10 28	0 9.66	-19 20.8	1.668	2.481	16.1	19.3	10 28	0 11.16	- 2 31.1	1.099	2.005	15.8	19.3
11 7	0 6.41	-18 25.3	1.762	2.488	18.5	19.5	11 7	0 9.38	- 2 49.6	1.180	2.015	19.9	19.6
514069	2014 <i>QC</i> ₁₇₂		9 30.9 116°03	2°3/ 3.8	18		35208	1994 <i>PB</i> ₃₈		9 30.9 339°92	4°3/ 4.8	18	
8 29	0 51.46	+12 54.6	2.630	3.452	11.2	21.7	8 29	0 52.10	+15 24.6	1.885	2.714	14.7	18.4
9 8	0 45.95	+12 49.5	2.563	3.467	8.6	21.5	9 8	0 47.09	+15 46.8	1.806	2.709	11.6	18.2
9 18	0 39.09	+12 32.0	2.520	3.481	5.7	21.4	9 18	0 40.09	+15 51.6	1.749	2.704	8.3	17.9
9 28	0 31.44	+12 3.9	2.505	3.495	3.0	21.2	9 28	0 31.77	+15 39.0	1.716	2.700	5.2	17.8
10 8	0 23.68	+11 28.2	2.519	3.509	2.7	21.2	10 8	0 23.08	+15 11.9	1.711	2.696	4.5	17.7
10 18	0 16.47	+10 48.8	2.563	3.522	5.2	21.4	10 18	0 15.02	+14 34.9	1.732	2.692	7.1	17.9
10 28	0 10.44	+10 10.3	2.635	3.535	7.9	21.6	10 28	0 8.54	+13 54.4	1.779	2.689	10.5	18.1
11 7	0 6.01	+ 9 36.6	2.733	3.548	10.4	21.8	11 7	0 4.29	+13 17.2	1.850	2.686	13.7	18.3
66797	1999 <i>TJ</i> ₂₅₆		9 30.9 172°51	1°5/ 2.6	18		289477	2005 <i>EN</i> ₇₉		9 30.9 173°81	4°4/26.9	18	
8 29	0 52.14	+10 35.5	2.129	2.971	12.8	19.3	8 29	0 55.21	- 5 23.1	1.710	2.596	13.2	20.5
9 8	0 46.76	+10 5.7	2.055	2.974	9.6	19.1	9 8	0 49.27	- 6 33.3	1.653	2.598	9.6	20.3
9 18	0 39.70	+ 9 21.4	2.004	2.976	6.0	18.9	9 18	0 41.27	- 7 46.9	1.619	2.601	6.0	20.1
9 28	0 31.60	+ 8 25.4	1.981	2.978	2.4	18.6	9 28	0 32.02	- 8 55.9	1.613	2.602	4.4	20.0
10 8	0 23.29	+ 7 23.0	1.986	2.979	2.7	18.6	10 8	0 22.58	- 9 52.3	1.634	2.603	6.7	20.1
10 18	0 15.61	+ 6 19.9	2.021	2.980	6.3	18.9	10 18	0 14.01	-10 30.3	1.681	2.604	10.3	20.4
10 28	0 9.34	+ 5 22.4	2.082	2.980	9.8	19.1	10 28	0 7.23	-10 46.5	1.753	2.604	13.8	20.6
11 7	0 5.01	+ 4 35.4	2.168	2.980	12.8	19.3	11 7	0 2.83	-10 41.0	1.845	2.603	16.7	20.8
137892	2000 <i>AR</i> ₁₅₄		9 30.9 1°96	10°2/ 8.0	18		69540	1997 <i>HA</i> ₁		9 30.9 221°40	6°4/24.9	18	
8 29	0 46.88	+21 32.4	0.927	1.786	23.8	17.9	8 29	0 56.39	-14 52.2	2.068	2.946	11.6	19.7
9 8	0 44.70	+22 45.3	0.873	1.782	20.0	17.7	9 8	0 49.90	-15 42.0	2.006	2.939	9.0	19.6
9 18	0 39.27	+23 22.5	0.833	1.781	15.8	17.4	9 18	0 41.56	-16 26.3	1.969	2.931	6.9	19.4
9 28	0 31.60	+23 19.2	0.811	1.781	11.9	17.2	9 28	0 32.08	-16 58.3	1.959	2.924	6.5	19.4
10 8	0 23.33	+22 37.2	0.808	1.784	10.2	17.1	10 8	0 22.41	-17 12.5	1.977	2.916	8.1	19.5
10 18	0 16.27	+21 25.5	0.824	1.788	11.9	17.3	10 18	0 13.49	-17 6.0	2.020	2.907	10.8	19.6
10 28	0 12.00	+19 59.1	0.861	1.795	15.6	17.5	10 28	0 6.16	-16 38.2	2.088	2.898	13.4	19.8
11 7	0 11.38	+18 34.2	0.915	1.804	19.6	17.8	11 7	0 0.98	-15 51.1	2.176	2.889	15.8	20.0
23961	1998 <i>VL</i> ₃₉		9 30.9 155°79	4°6/25.7	18		164680	1997 <i>GO</i> ₂₀		9 30.9 148°49	1°2/29.9	18	
8 29	0 50.99	-10 47.6	2.376	3.258	10.1	18.3	8 29	0 53.66	+ 1 32.2	1.901	2.773	12.7	20.4
9 8	0 45.72	-11 35.6	2.319	3.259	7.6	18.1	9 8	0 47.99	+ 1 3.3	1.836	2.776	9.2	20.2
9 18	0 39.01	-12 21.4	2.288	3.261	5.3	18.0	9 18	0 40.48	+ 0 26.5	1.796	2.780	5.2	19.9
9 28	0 31.45	-12 59.6	2.285	3.262	4.7	18.0	9 28	0 31.85	+ 0 13.6	1.782	2.783	1.4	19.7
10 8	0 23.77	-13 25.7	2.309	3.263	6.2	18.1	10 8	0 23.02	- 0 51.5	1.797	2.786	3.7	19.8
10 18	0 16.69	-13 36.5	2.361	3.264	8.7	18.2	10 18	0 14.94	- 1 22.1	1.840	2.788	7.7	20.1
10 28	0 10.88	-13 30.5	2.438	3.265	11.2	18.4	10 28	0 8.45	- 1 41.1	1.908	2.791	11.3	20.3
11 7	0 6.79	-13 8.1	2.537	3.266	13.4	18.6	11 7	0 4.09	- 1 46.2	1.999	2.793	14.4	20.5
476957	2008 <i>XG</i> ₄₁		9 30.9 356°14	16°4/23.8	18		451637	2012 <i>HW</i> ₃₄		9 30.9 229°64	0°8/29.8	18	
8 29													

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
424600	2008 <i>HT</i> ₁₂		9 30.9 68°31'	4.5/27.1	17		312948	1995 <i>SF</i> ₈₀		9 30.9 306°39'	1.4/3.6	18	
8 29	0 53.46	- 3 51.2	1.379	2.275	15.1	20.5	8 29	0 44.96	+11 27.4	4.403	5.223	7.0	20.3
9 8	0 48.09	- 5 17.2	1.346	2.298	10.8	20.3	9 8	0 40.93	+11 26.3	4.318	5.222	5.4	20.2
9 18	0 40.55	- 6 47.0	1.335	2.320	6.5	20.2	9 18	0 36.12	+11 18.4	4.259	5.220	3.5	20.1
9 28	0 31.84	- 8 10.4	1.350	2.342	4.6	20.1	9 28	0 30.85	+11 4.7	4.228	5.219	1.8	19.9
10 8	0 23.18	- 9 17.8	1.391	2.365	7.1	20.3	10 8	0 25.47	+10 46.9	4.228	5.217	1.7	19.9
10 18	0 15.70	-10 3.0	1.457	2.387	11.0	20.6	10 18	0 20.34	+10 26.8	4.257	5.216	3.3	20.1
10 28	0 10.29	-10 23.0	1.546	2.409	14.7	20.9	10 28	0 15.81	+10 6.7	4.317	5.214	5.1	20.2
11 7	0 7.42	-10 18.8	1.654	2.431	17.6	21.1	11 7	0 12.16	+ 9 48.8	4.403	5.213	6.8	20.3
171692	2000 <i>SN</i> ₅₅		9 30.9 344°82'	1.9/2.1	18		232193	2002 <i>FY</i> ₃₇		9 30.9 142°99'	5.0/25.7	18	
8 29	0 52.36	+ 7 44.8	1.063	1.953	19.1	19.2	8 29	0 53.57	- 9 23.0	2.033	2.916	11.5	21.0
9 8	0 48.34	+ 7 53.9	1.000	1.945	14.4	18.9	9 8	0 47.77	-10 31.9	1.984	2.926	8.5	20.8
9 18	0 41.27	+ 7 43.7	0.956	1.938	9.0	18.5	9 18	0 40.28	-11 39.6	1.960	2.934	5.9	20.7
9 28	0 32.11	+ 7 17.0	0.932	1.932	3.2	18.2	9 28	0 31.82	-12 39.1	1.964	2.943	5.1	20.6
10 8	0 22.39	+ 6 40.5	0.932	1.926	4.2	18.2	10 8	0 23.27	-13 24.3	1.995	2.951	6.9	20.8
10 18	0 13.76	+ 6 2.9	0.955	1.922	10.0	18.6	10 18	0 15.49	-13 50.9	2.054	2.958	9.7	21.0
10 28	0 7.68	+ 5 33.5	0.999	1.919	15.5	18.9	10 28	0 9.24	-13 57.3	2.137	2.965	12.5	21.2
11 7	0 4.99	+ 5 19.0	1.061	1.918	20.1	19.1	11 7	0 4.99	-13 44.1	2.240	2.971	14.9	21.3
58309	1994 <i>PV</i> ₁₇		9 30.9 133°70'	1.6/29.7	18		246748	2009 <i>BZ</i> ₁₂₄		9 30.9 343°68'	1.2/2.0	18	
8 29	0 54.42	+ 3 12.8	1.400	2.282	15.8	18.9	8 29	0 52.03	+ 7 44.6	1.631	2.497	14.8	20.8
9 8	0 49.03	+ 2 12.0	1.343	2.288	11.4	18.6	9 8	0 47.19	+ 7 36.6	1.560	2.493	11.1	20.5
9 18	0 41.27	+ 0 57.4	1.309	2.294	6.5	18.4	9 18	0 40.21	+ 7 14.1	1.512	2.490	6.8	20.3
9 28	0 32.05	- 0 23.2	1.300	2.300	1.8	18.1	9 28	0 31.85	+ 6 40.2	1.488	2.487	2.3	20.0
10 8	0 22.62	- 1 40.2	1.317	2.306	4.8	18.3	10 8	0 23.15	+ 6 0.2	1.491	2.484	3.2	20.1
10 18	0 14.23	- 2 44.8	1.360	2.311	9.7	18.6	10 18	0 15.23	+ 5 20.4	1.520	2.482	7.7	20.3
10 28	0 7.92	- 3 30.3	1.427	2.316	14.1	18.9	10 28	0 9.06	+ 4 47.3	1.574	2.480	11.9	20.6
11 7	0 4.32	- 3 53.6	1.515	2.320	17.7	19.2	11 7	0 5.30	+ 4 25.8	1.651	2.478	15.5	20.8
125919	2001 <i>XA</i> ₂₃₀		9 30.9 53°14'	0.5/30.5	18		68873	2002 <i>JC</i> ₃₇		9 30.9 125°24'	5.7/24.6	18	
8 29	0 53.41	+ 4 9.7	1.400	2.282	15.8	19.4	8 29	0 50.34	- 8 24.0	1.804	2.698	12.3	18.9
9 8	0 48.22	+ 3 37.9	1.350	2.294	11.5	19.2	9 8	0 45.65	-10 12.8	1.756	2.704	9.0	18.7
9 18	0 40.74	+ 2 53.1	1.322	2.306	6.6	18.9	9 18	0 39.15	-12 2.3	1.733	2.709	6.3	18.5
9 28	0 31.92	+ 2 1.4	1.318	2.319	1.4	18.6	9 28	0 31.57	-13 43.0	1.738	2.715	5.9	18.5
10 8	0 22.97	+ 1 10.2	1.340	2.332	3.9	18.8	10 8	0 23.85	-15 6.0	1.769	2.720	8.0	18.7
10 18	0 15.09	+ 0 27.0	1.388	2.345	8.8	19.2	10 18	0 16.91	-16 5.4	1.827	2.725	11.1	18.9
10 28	0 9.27	- 0 2.4	1.461	2.359	13.1	19.5	10 28	0 11.54	-16 38.4	1.907	2.730	14.0	19.1
11 7	0 6.06	- 0 14.6	1.553	2.373	16.7	19.7	11 7	0 8.28	-16 45.7	2.007	2.735	16.5	19.3
18997	Mizrahi		9 30.9 45°55'	1.4/29.8	18		39342	2002 <i>AA</i> ₅₁		9 30.9 79°35'	5.2/25.0	18	
8 29	0 51.44	+ 2 47.1	1.512	2.396	14.7	18.1	8 29	0 49.75	- 9 49.2	2.040	2.930	11.2	19.2
9 8	0 46.71	+ 1 58.7	1.457	2.403	10.6	17.9	9 8	0 45.03	-11 7.6	1.993	2.938	8.3	19.0
9 18	0 39.85	+ 0 58.7	1.424	2.410	6.0	17.7	9 18	0 38.71	-12 24.7	1.971	2.945	5.9	18.9
9 28	0 31.72	- 0 6.4	1.417	2.418	1.6	17.4	9 28	0 31.47	-13 33.2	1.976	2.953	5.3	18.9
10 8	0 23.42	- 1 8.4	1.436	2.425	4.3	17.6	10 8	0 24.13	-14 26.6	2.009	2.960	7.2	19.0
10 18	0 16.03	- 1 59.9	1.481	2.433	8.9	17.9	10 18	0 17.49	-15 0.6	2.067	2.968	9.9	19.2
10 28	0 10.51	- 2 35.3	1.551	2.442	13.0	18.2	10 28	0 12.26	-15 13.4	2.150	2.975	12.6	19.4
11 7	0 7.42	- 2 51.7	1.641	2.450	16.4	18.4	11 7	0 8.91	-15 5.4	2.252	2.983	14.8	19.6
390300	2013 <i>AS</i> ₆₀		9 30.9 187°53'	0.1/1.1	18		273465	2006 <i>XR</i> ₄₈		9 30.9 154°06'	5.3/26.6	17	
8 29	0 42.90	+ 5 10.0	4.673	5.522	6.2	21.7	8 29	0 55.20	- 7 42.6	1.557	2.449	14.0	21.3
9 8	0 39.39	+ 4 46.5	4.595	5.522	4.5	21.6	9 8	0 49.43	- 8 45.6	1.504	2.451	10.3	21.1
9 18	0 35.21	+ 4 18.4	4.543	5.521	2.6	21.5	9 18	0 41.44	- 9 49.3	1.474	2.453	6.7	20.9
9 28	0 30.63	+ 3 47.3	4.520	5.520	0.6	21.3	9 28	0 32.12	-10 45.2	1.469	2.455	5.3	20.8
10 8	0 25.97	+ 3 15.5	4.528	5.520	1.4	21.4	10 8	0 22.62	-11 25.3	1.491	2.457	7.6	21.0
10 18	0 21.53	+ 2 44.8	4.566	5.519	3.3	21.5	10 18	0 14.09	-11 44.6	1.538	2.459	11.3	21.2
10 28	0 17.64	+ 2 17.5	4.634	5.518	5.1	21.7	10 28	0 7.51	-11 40.8	1.609	2.460	14.8	21.4
11 7	0 14.55	+ 1 55.3	4.728	5.517	6.7	21.8	11 7	0 3.47	-11 14.8	1.698	2.462	17.8	21.6
301944	2000 <i>AS</i> ₂₅₄		9 30.9 271°87'	5.6/17.2	18		245450	2005 <i>LS</i>		9 30.9 73°54'	0.8/2.0	18	
8 29	0 44.54	-28 46.0	4.479	5.321	6.5	20.5	8 29	0 48.56	+12 25.9	1.847	2.695	14.1	20.1
9 8	0 40.67	-29 41.5	4.435	5.311	5.9	20.4	9 8	0 44.30	+10 45.5	1.786	2.709	10.5	19.9
9 18	0 35.98	-30 29.1	4.417	5.301	5.6	20.4	9 18	0 38.34	+ 8 44.5	1.748	2.723	6.4	19.7
9 28	0 30.81	-31 5.6	4.424	5.291	6.0	20.4	9 28	0 31.39	+ 6 29.8	1.738	2.737	2.0	19.4
10 8	0 25.54	-31 28.6	4.458	5.281	6.7	20.5	10 8	0 24.36	+ 4 11.3	1.757	2.751	2.8	19.5
10 18	0 20.57	-31 37.1	4.515	5.271	7.6	20.5	10 18	0 18.09	+ 1 59.4	1.807	2.765	7.0	19.8
10 28	0 16.27	-31 30.5	4.594	5.261	8.6	20.6	10 28	0 13.33	+ 0 3.3	1.883	2.778	10.8	20.1
11 7	0 12.93	-31 9.9	4.691	5.251	9.5	20.7	11 7	0 10.58	- 1 31.2	1.984	2.792	14.0	20.3
52722	1998 <i>GK</i>		9 30.9 95°11'	13.7/27.1	18		100600	1997 <i>RX</i> ₁		9 30.9 306°48'	0.9/30.0	18	
8 29	1 21.57	-26 39.2	1.092	1.950	21.1	17.3	8 29	0 50.03	+ 1 49.9	2.160	3.032	11.4	19.7
9 8	1 8.83	-26 59.1	1.063	1.969	17.5	17.1	9 8	0 45.33	+ 1 25.7	2.078	3.018	8.3	19.5
9 18	0 52.49	-26 49.4	1.054	1.988	14.7	17.0	9 18	0 38.99	+ 0 54.0	2.020	3.004	4.8	19.2
9 28	0 34.53	-25 59.0	1.067	2.007	13.7	17.0	9 28	0 31.57	+ 0 18.5	1.990	2.991	1.2	18.9
10 8	0 17.35	-24 25.7	1.105	2.025	15.0	17.2	10 8	0 23.87	- 0 16.1	1.988	2.977	3.3	19.1
10 18	0 2.97	-22 16.3	1.167	2.043	17.7	17.4	10 18	0 16.67	- 0 45.1	2.014	2.964	7.0	19.3
10 28	23 52.61	-19 42.3	1.250	2.060	20.7	17.7	10 28	0 10.77	- 1 4.4	2.067	2.951	10.5	19.5
11 7	23 46.54	-16 55.4	1.352	2.076	23.3	17.9	11 7	0 6.71	- 1 11.4	2.142	2.939	13.5	19.7
318521	2005 <i>EC</i> ₂₀₃		9 30.9 73°93'	1.5/29.7	17		285856	2001 <i>FV</i> ₁₉₆		9 30.9 139°24'	4.7/26.9	17	
8 29	0 52.54	+ 3 53.6	1.339	2.225									

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
391619	2007 <i>VT</i> ₅₂	9 30.9 198°24' 6.1"/24.9 18					348299	2004 <i>YO</i> ₁₁	9 30.9 61°37' 1.8"/29.4 18				
8 29	0 54.05	-13 21.1	2.009	2.893	11.7	21.0	8 29	0 52.24	+ 0 48.5	1.702	2.583	13.5	21.1
9 8	0 48.22	-14 17.8	1.954	2.891	8.9	20.9	9 8	0 47.17	+ 0 5.3	1.641	2.585	9.7	20.9
9 18	0 40.62	-15 10.2	1.923	2.890	6.7	20.7	9 18	0 40.13	- 0 46.5	1.602	2.588	5.6	20.6
9 28	0 31.95	-15 51.2	1.919	2.888	6.2	20.7	9 28	0 31.88	- 1 41.0	1.591	2.590	1.9	20.4
10 8	0 23.12	-16 15.2	1.943	2.887	7.9	20.8	10 8	0 23.42	- 2 31.5	1.606	2.593	4.4	20.6
10 18	0 15.05	-16 18.8	1.992	2.885	10.6	21.0	10 18	0 15.76	- 3 11.6	1.648	2.595	8.6	20.8
10 28	0 8.55	-16 1.3	2.065	2.883	13.3	21.1	10 28	0 9.80	- 3 36.6	1.715	2.598	12.4	21.1
11 7	0 4.13	-15 24.1	2.158	2.880	15.6	21.3	11 7	0 6.10	- 3 44.3	1.804	2.601	15.6	21.3
206394	2003 <i>SV</i> ₃₂	9 30.9 334°50' 0.2"/ 1.1 18					213997	2004 <i>BX</i> ₇₆	9 30.9 228°34' 2.0"/28.9 18				
8 29	0 53.52	+ 3 43.1	1.369	2.253	16.0	19.7	8 29	0 50.84	+ 0 8.1	2.102	2.977	11.6	21.5
9 8	0 48.74	+ 3 53.4	1.295	2.239	11.9	19.4	9 8	0 45.92	- 0 45.9	2.028	2.970	8.3	21.3
9 18	0 41.35	+ 3 52.8	1.242	2.225	7.1	19.1	9 18	0 39.33	- 1 47.4	1.979	2.964	4.8	21.0
9 28	0 32.18	+ 3 44.5	1.212	2.213	1.7	18.8	9 28	0 31.70	- 2 51.2	1.958	2.956	2.0	20.8
10 8	0 22.48	+ 3 33.4	1.208	2.201	3.8	18.9	10 8	0 23.81	- 3 50.9	1.965	2.949	4.2	21.0
10 18	0 13.60	+ 3 25.0	1.229	2.191	9.1	19.2	10 18	0 16.51	- 4 41.0	2.001	2.941	7.8	21.2
10 28	0 6.79	+ 3 24.9	1.274	2.181	13.9	19.4	10 28	0 10.56	- 5 16.9	2.062	2.933	11.2	21.4
11 7	0 2.86	+ 3 37.1	1.338	2.173	18.0	19.7	11 7	0 6.50	- 5 36.3	2.146	2.925	14.1	21.6
400461	2008 <i>FP</i> ₉₆	9 30.9 151°05' 2.0"/28.4 18					454019	2012 <i>DC</i> ₆₃	9 30.9 67°03' 3.5"/ 4.6 17				
8 29	0 49.73	- 0 58.2	2.453	3.326	10.2	21.5	8 29	0 52.03	+14 55.0	2.170	2.992	13.2	21.6
9 8	0 44.81	- 1 54.9	2.391	3.333	7.3	21.3	9 8	0 46.78	+15 4.1	2.097	2.997	10.4	21.5
9 18	0 38.54	- 2 56.8	2.355	3.339	4.2	21.2	9 18	0 39.82	+14 57.7	2.045	3.001	7.2	21.3
9 28	0 31.46	- 3 59.0	2.347	3.344	2.0	21.0	9 28	0 31.81	+14 36.5	2.020	3.005	4.3	21.1
10 8	0 24.26	- 4 56.1	2.369	3.349	3.9	21.2	10 8	0 23.56	+14 3.6	2.023	3.009	3.7	21.1
10 18	0 17.61	- 5 43.8	2.420	3.354	6.9	21.4	10 18	0 15.92	+13 23.6	2.054	3.014	6.2	21.2
10 28	0 12.13	- 6 18.4	2.497	3.359	9.8	21.6	10 28	0 9.67	+12 42.0	2.112	3.018	9.3	21.4
11 7	0 8.26	- 6 38.1	2.597	3.363	12.2	21.7	11 7	0 5.36	+12 4.4	2.194	3.023	12.1	21.6
487242	2014 <i>PX</i> ₁₄	9 30.9 253°33' 4.3"/25.3 18					439842	1998 <i>KL</i> ₁₀	9 30.9 61°10' 2.7"/27.9 18				
8 29	0 47.80	- 7 21.3	2.246	3.135	10.4	21.2	8 29	0 49.10	- 1 18.5	1.918	2.803	12.0	20.9
9 8	0 43.57	- 8 48.2	2.188	3.134	7.6	21.0	9 8	0 44.61	- 2 30.6	1.870	2.817	8.6	20.7
9 18	0 37.89	-10 16.7	2.156	3.133	5.1	20.9	9 18	0 38.51	- 3 48.5	1.846	2.831	5.0	20.5
9 28	0 31.32	-11 39.9	2.151	3.133	4.4	20.8	9 28	0 31.48	- 5 5.5	1.849	2.845	2.7	20.4
10 8	0 24.59	-12 51.1	2.175	3.132	6.3	21.0	10 8	0 24.38	- 6 14.4	1.881	2.860	4.9	20.6
10 18	0 18.42	-13 45.4	2.226	3.131	9.0	21.1	10 18	0 18.01	- 7 9.3	1.939	2.874	8.4	20.8
10 28	0 13.48	-14 19.6	2.302	3.131	11.7	21.3	10 28	0 13.09	- 7 46.5	2.023	2.889	11.6	21.0
11 7	0 10.23	-14 33.2	2.398	3.130	14.0	21.5	11 7	0 10.09	- 8 4.4	2.128	2.903	14.3	21.3
443301	2014 <i>FX</i> ₂₀	9 30.9 122°15' 2.5"/28.4 18					254880	2005 <i>SG</i> ₂₇	9 30.9 176°55' 2.4"/ 3.5 18				
8 29	0 52.34	- 2 1.7	2.066	2.944	11.6	21.4	8 29	0 51.27	+12 9.0	2.148	2.984	12.8	20.5
9 8	0 46.87	- 2 50.9	2.011	2.954	8.3	21.2	9 8	0 46.23	+12 0.4	2.071	2.984	9.8	20.3
9 18	0 39.79	- 3 44.8	1.981	2.964	4.8	21.1	9 18	0 39.52	+11 37.2	2.018	2.984	6.5	20.1
9 28	0 31.76	- 4 37.8	1.978	2.974	2.5	20.9	9 28	0 31.75	+11 1.3	1.992	2.984	3.2	19.9
10 8	0 23.63	- 5 24.2	2.004	2.984	4.5	21.1	10 8	0 23.74	+10 16.6	1.993	2.985	3.0	19.9
10 18	0 16.22	- 5 59.2	2.058	2.993	7.9	21.3	10 18	0 16.32	+ 9 28.2	2.023	2.985	6.1	20.1
10 28	0 10.25	- 6 19.6	2.137	3.002	11.1	21.5	10 28	0 10.27	+ 8 41.9	2.080	2.985	9.5	20.3
11 7	0 6.21	- 6 24.1	2.239	3.011	13.8	21.7	11 7	0 6.12	+ 8 2.8	2.162	2.984	12.5	20.5
486100	2012 <i>UB</i> ₁₇₀	9 30.9 299°31' 7.1"/ 6.1 17					449957	2015 <i>PD</i> ₁	9 30.9 75°49' 5.2"/ 5.8 18				
8 29	0 55.21	+19 57.2	1.650	2.460	17.2	20.6	8 29	0 56.70	+18 10.8	1.819	2.629	15.9	20.7
9 8	0 50.03	+20 49.0	1.553	2.436	14.3	20.3	9 8	0 50.34	+18 39.5	1.762	2.649	12.7	20.5
9 18	0 42.22	+21 20.0	1.476	2.412	11.1	20.0	9 18	0 41.94	+18 47.7	1.726	2.669	9.3	20.3
9 28	0 32.44	+21 27.0	1.421	2.388	8.1	19.8	9 28	0 32.30	+18 35.5	1.715	2.689	6.2	20.2
10 8	0 21.81	+21 9.8	1.392	2.365	7.2	19.7	10 8	0 22.51	+18 5.8	1.731	2.709	5.3	20.2
10 18	0 11.65	+20 32.1	1.388	2.341	9.3	19.8	10 18	0 13.63	+17 24.0	1.774	2.729	7.4	20.4
10 28	0 3.33	+19 41.7	1.409	2.317	12.8	19.9	10 28	0 6.58	+16 37.3	1.843	2.749	10.4	20.6
11 7	23 57.81	+18 48.3	1.451	2.294	16.4	20.1	11 7	0 1.93	+15 52.9	1.936	2.769	13.3	20.8
475348	2006 <i>BK</i> ₁₄₀	9 30.9 347°96' 2.3"/29.3 18					67202	2000 <i>CJ</i> ₁₀₈	9 30.9 293°26' 5.6"/ 7.9 18				
8 29	0 49.04	+ 0 43.5	1.145	2.050	16.8	20.5	8 29	0 48.41	+23 48.8	2.262	3.039	14.1	17.5
9 8	0 45.66	+ 0 5.3	1.084	2.041	12.2	20.3	9 8	0 44.33	+23 39.7	2.161	3.020	11.8	17.3
9 18	0 39.61	- 0 45.1	1.044	2.033	7.0	20.0	9 18	0 38.52	+23 8.1	2.080	3.001	9.2	17.1
9 28	0 31.78	- 1 40.2	1.026	2.026	2.4	19.7	9 28	0 31.55	+22 13.6	2.023	2.982	6.7	16.9
10 8	0 23.54	- 2 30.2	1.031	2.020	5.6	19.8	10 8	0 24.20	+20 58.8	1.993	2.964	5.6	16.8
10 18	0 16.29	- 3 6.3	1.059	2.016	11.0	20.1	10 18	0 17.32	+19 29.0	1.991	2.945	6.8	16.9
10 28	0 11.30	- 3 22.1	1.109	2.013	15.9	20.4	10 28	0 11.72	+17 51.8	2.016	2.926	9.4	17.0
11 7	0 9.27	- 3 15.0	1.177	2.011	20.0	20.7	11 7	0 8.03	+16 15.8	2.066	2.907	12.3	17.1
301172	2008 <i>YD</i> ₈₉	9 30.9 93°29' 1.0"/ 1.9 18					22745	Rikuzentakata	9 30.9 92°72' 4.8"/26.9 18				
8 29	0 52.44	+ 7 58.5	1.796	2.655	14.0	21.0	8 29	0 56.43	- 9 23.9	1.843	2.726	12.6	17.8
9 8	0 47.25	+ 7 36.2	1.730	2.660	10.4	20.8	9 8	0 49.95	-10 0.3	1.796	2.738	9.3	17.6
9 18	0 40.15	+ 6 59.9	1.687	2.665	6.3	20.5	9 18	0 41.62	-10 34.5	1.773	2.749	6.1	17.4
9 28	0 31.87	+ 6 13.2	1.670	2.670	2.0	20.3	9 28	0 32.23	-11 0.3	1.776	2.761	4.8	17.4
10 8	0 23.37	+ 5 21.7	1.681	2.675	2.9	20.4	10 8	0 22.80	-11 12.5	1.808	2.772	6.7	17.5
10 18	0 15.64	+ 4 31.9	1.720	2.680	7.2	20.6	10 18	0 14.30	-11 8.1	1.866	2.783	9.8	17.7
10 28	0 9.55	+ 3 49.7	1.784	2.685	11.0	20.9	10 28	0 7.54	-10 46.1	1.949	2.795	12.8	17.9
11 7	0 5.66	+ 3 19.7	1.871	2.689	14.3	21.1	11 7	0 3.02	-10 7.5	2.052	2.806	15.4	18.1
340399	2006 <i>EX</i> ₃₄	9 30.9 337°19' 1.4"/29.9 18					317493	2002 <i>SU</i> ₃₄	10 1.0 70°12' 0.5"/30.8 18				
8 29	0 54.37	+ 0 49.0	1.576	2.457	14.4	20.6	8 29	1 11.14	- 0 10.7	1.337	2.201	17.5	19.6
9 8	0 48.92	+ 0 30.5	1.510	2.454	10.5	20.3	9 8	1 0.97	+ 0 34.7	1.296	2.230	12.7	19.4
9 18													