47740 2000 DC_{71} 10 31.0 72°.73 3°.9/27.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 41.27	+ 4 42.2	2.271	3.140	10.7	18.5
10 8	2 36.65	+ 3 28.4	2.215	3.147	7.9	18.4
10 18	2 30.57	+ 2 13.6	2.185	3.154	5.1	18.2
10 28	2 23.65	+ 1 3.6	2.184	3.161	3.9	18.2
11 7	2 16.65	+ 0 3.7	2.211	3.168	5.6	18.3
11 17	2 10.30	− 0 41.7	2.266	3.175	8.3	18.5
11 27	2 5.24	− 1 10.0	2.347	3.182	11.0	18.7
12 7	2 1.90	− 1 20.6	2.450	3.189	13.4	18.8

409144 2003 UB_{85} 10 31.0 342°.37 0°.6/30.6 17

9 28	2 45.45	+12 27.3	2.085	2.942	12.1	20.6
10 8	2 39.97	+12 26.6	2.011	2.938	8.8	20.4
10 18	2 32.65	+12 20.5	1.962	2.935	5.1	20.1
10 28	2 24.17	+12 11.3	1.940	2.932	1.2	19.8
11 7	2 15.44	+12 1.9	1.947	2.930	3.1	20.0
11 17	2 7.37	+11 55.6	1.983	2.927	7.0	20.2
11 27	2 0.81	+11 55.4	2.046	2.925	10.5	20.5
12 7	1 56.33	+12 3.9	2.131	2.923	13.5	20.7

438543 2007 TN_{214} 10 31.0 67°.51 1°.3/ 1.1 18

9 28	2 47.24	+21 58.8	1.641	2.484	15.4	20.5
10 8	2 41.31	+20 58.4	1.597	2.513	11.4	20.3
10 18	2 33.32	+19 40.9	1.576	2.543	6.9	20.1
10 28	2 24.27	+18 11.2	1.582	2.572	2.4	19.9
11 7	2 15.36	+16 37.0	1.616	2.601	3.1	20.0
11 17	2 7.65	+15 6.8	1.679	2.630	7.4	20.4
11 27	2 1.98	+13 48.2	1.768	2.658	11.3	20.7
12 7	1 58.76	+12 46.4	1.880	2.687	14.5	20.9

121911 2000 DG_{67} 10 31.0 125°.18 2°.1/ 2.0 18

9 28	2 44.23	+22 32.4	2.518	3.341	11.3	20.3
10 8	2 38.83	+22 25.2	2.444	3.347	8.6	20.2
10 18	2 31.87	+22 6.6	2.395	3.353	5.6	20.0
10 28	2 23.97	+21 37.5	2.374	3.358	2.7	19.8
11 7	2 15.92	+21 0.7	2.382	3.364	2.7	19.8
11 17	2 8.50	+20 19.9	2.420	3.369	5.5	20.0
11 27	2 2.40	+19 39.8	2.486	3.375	8.5	20.2
12 7	1 58.11	+19 4.5	2.577	3.380	11.1	20.4

395674 2011 WZ_{120} 10 31.0 31°.52 5°.2/28.3 18

9 28	2 46.92	+ 2 49.1	1.363	2.245	15.6	19.8
10 8	2 41.41	+ 2 21.0	1.323	2.260	11.5	19.6
10 18	2 33.54	+ 1 56.0	1.306	2.277	7.4	19.4
10 28	2 24.36	+ 1 40.3	1.313	2.294	5.2	19.3
11 7	2 15.18	+ 1 38.8	1.345	2.312	7.1	19.5
11 17	2 7.22	+ 1 54.4	1.403	2.331	10.9	19.8
11 27	2 1.45	+ 2 27.6	1.484	2.350	14.6	20.0
12 7	1 58.38	+ 3 16.7	1.585	2.370	17.7	20.3

400953 2010 VP_{125} 10 31.0 21°.11 0°.9/31.8 18

9 28	2 42.64	+19 44.3	1.843	2.693	13.7	20.3
10 8	2 38.09	+19 3.6	1.776	2.697	10.1	20.1
10 18	2 31.58	+18 8.7	1.732	2.701	6.1	19.8
10 28	2 23.92	+17 3.0	1.714	2.705	1.9	19.6
11 7	2 16.09	+15 52.1	1.724	2.709	2.9	19.6
11 17	2 9.09	+14 42.8	1.763	2.714	7.1	19.9
11 27	2 3.77	+13 41.6	1.828	2.720	10.9	20.2
12 7	2 0.67	+12 53.4	1.916	2.725	14.1	20.4

93864 2000 WS_{113} 10 31.0 25°.90 1°.4/30.2 18

9 28	2 47.35	+10 21.3	1.795	2.658	13.4	19.0
10 8	2 41.50	+10 23.5	1.732	2.663	9.7	18.8
10 18	2 33.57	+10 21.8	1.694	2.668	5.6	18.5
10 28	2 24.39	+10 18.7	1.682	2.674	1.7	18.3
11 7	2 15.01	+10 17.6	1.699	2.680	3.8	18.4
11 17	2 6.49	+10 21.4	1.744	2.686	7.9	18.7
11 27	1 59.75	+10 33.2	1.814	2.693	11.6	19.0
12 7	1 55.38	+10 54.6	1.907	2.701	14.8	19.2

444523 2006 SF_{98} 10 31.0 18°.39 1°.3/29.9 15

9 28	2 43.42	+13 46.4	1.736	2.602	13.6	21.4
10 8	2 38.70	+12 55.5	1.671	2.604	9.9	21.1
10 18	2 31.97	+11 54.8	1.630	2.606	5.7	20.9
10 28	2 24.02	+10 49.4	1.616	2.608	1.6	20.6
11 7	2 15.89	+ 9 45.5	1.630	2.611	3.9	20.8
11 17	2 8.61	+ 8 49.8	1.671	2.614	8.2	21.1
11 27	2 3.07	+ 8 7.7	1.738	2.617	12.1	21.3
12 7	1 59.83	+ 7 42.1	1.826	2.620	15.3	21.5

220783 2004 TT_{167} 10 31.0 187°.50 0°.2/31.2 18

9 28	2 43.93	+16 38.7	2.201	3.048	11.8	21.1
10 8	2 38.78	+16 14.1	2.127	3.048	8.7	20.9
10 18	2 31.91	+15 40.1	2.078	3.048	5.1	20.6
10 28	2 24.00	+14 59.4	2.056	3.048	1.3	20.4
11 7	2 15.91	+14 15.9	2.064	3.048	2.7	20.5
11 17	2 8.47	+13 34.1	2.101	3.048	6.4	20.7
11 27	2 2.47	+12 58.6	2.165	3.047	9.9	20.9
12 7	1 58.43	+12 32.9	2.253	3.047	12.8	21.1

215182 2000 HE_{67} 10 31.0 183°.70 0°.2/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 47.88	+15 11.7	2.127	2.972	12.3	20.7
10 8	2 41.71	+15 9.3	2.052	2.973	9.0	20.5
10 18	2 33.65	+14 59.3	2.002	2.973	5.3	20.3
10 28	2 24.42	+14 43.4	1.980	2.972	1.3	20.0
11 7	2 14.94	+14 24.7	1.988	2.972	2.8	20.2
11 17	2 6.17	+14 6.8	2.025	2.971	6.7	20.4
11 27	1 58.96	+13 53.6	2.089	2.970	10.3	20.6
12 7	1 53.88	+13 48.2	2.177	2.968	13.3	20.8

289507 2005 EF_{151} 10 31.0 270°.47 2°.6/29.1 18

9 28	2 45.02	+ 9 29.1	1.821	2.689	13.0	21.1
10 8	2 39.86	+ 8 44.1	1.748	2.681	9.5	20.9
10 18	2 32.67	+ 7 53.5	1.700	2.674	5.6	20.6
10 28	2 24.20	+ 7 2.3	1.678	2.667	2.6	20.4
11 7	2 15.46	+ 6 16.1	1.684	2.659	4.8	20.6
11 17	2 7.47	+ 5 40.4	1.718	2.652	8.7	20.8
11 27	2 1.15	+ 5 19.4	1.777	2.644	12.5	21.0
12 7	1 57.11	+ 5 15.0	1.858	2.637	15.7	21.2

47749 2000 DX_{82} 10 31.0 250°.95 3°.5/27.7 17

9 28	2 43.12	+ 3 58.9	2.449	3.311	10.3	19.3
10 8	2 38.01	+ 3 17.9	2.374	3.302	7.6	19.1
10 18	2 31.41	+ 2 36.7	2.325	3.293	4.9	18.9
10 28	2 23.89	+ 1 59.4	2.304	3.283	3.5	18.8
11 7	2 16.17	+ 1 30.2	2.313	3.274	5.0	18.9
11 17	2 8.99	+ 1 12.2	2.350	3.264	7.8	19.1
11 27	2 3.03	+ 1 7.9	2.414	3.254	10.6	19.2
12 7	1 58.76	+ 1 17.7	2.500	3.244	13.0	19.4

139089 2001 FS_{28} 10 31.0 246°.63 1°.2/30.3 18

9 28	2 50.02	+12 11.8	1.562	2.425	15.0	19.9
10 8	2 43.92	+11 57.9	1.486	2.416	11.0	19.7
10 18	2 35.23	+11 36.4	1.433	2.408	6.4	19.4
10 28	2 24.83	+11 10.7	1.407	2.399	1.7	19.1
11 7	2 14.00	+10 45.4	1.408	2.389	4.2	19.2
11 17	2 4.06	+10 25.8	1.436	2.380	9.1	19.5
11 27	1 56.21	+10 16.9	1.489	2.370	13.6	19.7
12 7	1 51.18	+10 21.5	1.563	2.360	17.3	19.9

185105 2006 SV_{23} 10 31.0 28°.10 2°.7/ 1.4 18

9 28	2 50.59	+19 22.8	1.544	2.392	16.0	19.2
10 8	2 44.33	+20 6.9	1.483	2.400	12.1	19.0
10 18	2 35.43	+20 39.2	1.444	2.409	7.7	18.8
10 28	2 24.88	+20 58.7	1.431	2.418	3.5	18.5
11 7	2 14.01	+21 6.8	1.445	2.428	3.9	18.6
11 17	2 4.21	+21 6.9	1.486	2.438	8.1	18.9
11 27	1 56.64	+21 4.6	1.553	2.449	12.1	19.1
12 7	1 51.98	+21 5.2	1.642	2.461	15.6	19.4

322698 1999 YC_{11} 10 31.0 214°.51 5°.1/26.6 18

9 28	2 45.02	− 2 17.0	2.442	3.299	10.5	20.8
10 8	2 39.35	− 2 53.9	2.377	3.296	8.1	20.6
10 18	2 32.17	− 3 26.1	2.337	3.292	5.9	20.5
10 28	2 24.09	− 3 49.2	2.326	3.288	5.2	20.4
11 7	2 15.86	− 3 59.5	2.343	3.283	6.5	20.5
11 17	2 8.22	− 3 54.9	2.388	3.279	8.8	20.7
11 27	2 1.86	− 3 34.3	2.459	3.274	11.2	20.8
12 7	1 57.25	− 2 58.8	2.551	3.269	13.4	21.0

261801 2006 BP_{245} 10 31.0 261°.16 0°.2/30.8 18

9 28	2 43.68	+14 57.3	2.295	3.145	11.3	21.5
10 8	2 38.59	+14 33.9	2.215	3.139	8.3	21.3
10 18	2 31.83	+14 2.8	2.160	3.132	4.8	21.1
10 28	2 24.02	+13 26.4	2.132	3.124	1.1	20.8
11 7	2 15.99	+12 48.4	2.134	3.117	2.8	20.9
11 17	2 8.54	+12 12.9	2.165	3.110	6.4	21.1
11 27	2 2.43	+11 44.2	2.224	3.103	9.8	21.3
12 7	1 58.21	+11 25.4	2.306	3.096	12.7	21.5

405255 2003 SY_{264} 10 31.0 68°.15 2°.2/ 1.6 18

9 28	2 50.08	+20 30.1	2.141	2.968	12.9	20.5
10 8	2 43.20	+20 56.7	2.086	2.991	9.7	20.3
10 18	2 34.44	+21 12.5	2.055	3.015	6.2	20.1
10 28	2 24.62	+21 17.6	2.053	3.038	2.9	20.0
11 7	2 14.70	+21 13.7	2.080	3.062	3.1	20.0
11 17	2 5.65	+21 4.2	2.137	3.085	6.3	20.3
11 27	1 58.31	+20 53.2	2.221	3.108	9.4	20.5
12 7	1 53.17	+20 44.9	2.330	3.131	12.2	20.7

189964 2003 UB_{190} 10 31.0 48°.43 1°.1/31.9 18

9 28	2 43.58	+19 25.2	2.018	2.863	12.9	19.6
10 8	2 38.57	+19 1.6	1.958	2.876	9.5	19.4
10 18	2 31.80	+18 26.1	1.922	2.890	5.8	19.2
10 28	2 24.00	+17 41.4	1.913	2.904	2.0	19.0
11 7	2 16.11	+16 51.7	1.933	2.918	2.7	19.0
11 17	2 9.02	+16 2.4	1.981	2.932	6.5	19.3
11 27	2 3.51	+15 18.6	2.056	2.946	9.9	19.6
12 7	2 0.07	+14 44.4	2.155	2.961	12.9	19.8

169691 2002 KL_1 10 31.0 252°.36 0°.1/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 45.73	+17 8.0	1.817	2.670	13.7	20.2
10 8	2 40.49	+16 32.3	1.737	2.661	10.1	20.0
10 18	2 33.10	+15 44.1	1.681	2.653	6.0	19.7
10 28	2 24.34	+14 46.5	1.652	2.644	1.5	19.4
11 7	2 15.27	+13 44.9	1.651	2.635	3.2	19.5
11 17	2 6.96	+12 45.7	1.678	2.626	7.7	19.8
11 27	2 0.40	+11 55.6	1.731	2.616	11.8	20.0
12 7	1 56.22	+11 19.0	1.807	2.607	15.2	20.2

489674 2007 VB_{28} 10 31.0 27°.36 1°.2/30.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.24	+14 1.1	1.698	2.563	13.9	21.4
10 8	2 39.36	+13 10.7	1.633	2.565	10.1	21.2
10 18	2 32.39	+12 10.1	1.592	2.567	5.8	20.9
10 28	2 24.16	+11 4.3	1.577	2.569	1.6	20.6
11 7	2 15.74	+ 9 59.8	1.590	2.572	3.9	20.8
11 17	2 8.21	+ 9 3.3	1.631	2.574	8.3	21.1
11 27	2 2.47	+ 8 20.4	1.697	2.577	12.3	21.3
12 7	1 59.09	+ 7 54.4	1.785	2.580	15.6	21.6

37928 1998 FO_{121} 10 31.0 161°.13 1°.1/30.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.80	+13 14.5	1.941	2.797	12.8	19.6
10 8	2 40.99	+12 37.2	1.874	2.801	9.3	19.4
10 18	2 33.25	+11 52.0	1.831	2.804	5.4	19.2
10 28	2 24.36	+11 2.6	1.816	2.808	1.4	18.9
11 7	2 15.29	+10 14.2	1.830	2.811	3.6	19.1
11 17	2 7.04	+ 9 32.0	1.872	2.813	7.6	19.4
11 27	2 0.45	+ 9 0.6	1.941	2.815	11.3	19.6
12 7	1 56.07	+ 8 42.9	2.033	2.817	14.3	19.8

505642 2014 OX_{63} 10 31.0 346°.99 18°.2/ 8.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 55.26	+43 0.5	1.008	1.793	26.8	21.0
10 8	2 50.76	+45 43.2	0.950	1.786	24.2	20.8
10 18	2 40.81	+47 51.6	0.904	1.781	21.5	20.6
10 28	2 26.43	+49 9.0	0.875	1.777	19.3	20.4
11 7	2 10.21	+49 25.0	0.863	1.773	18.3	20.4
11 17	1 55.61	+48 40.5	0.869	1.771	18.8	20.4
11 27	1 45.67	+47 10.5	0.892	1.770	20.7	20.5
12 7	1 41.84	+45 16.9	0.931	1.770	23.3	20.7

55670 9581 P–L 10 31.0 4°.02 4°.2/27.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.06	+ 6 18.4	1.625	2.504	13.7	18.8
10 8	2 38.53	+ 5 12.6	1.566	2.504	10.0	18.6
10 18	2 31.92	+ 4 3.8	1.531	2.504	6.3	18.4
10 28	2 24.05	+ 2 59.0	1.521	2.504	4.2	18.3
11 7	2 16.01	+ 2 5.4	1.539	2.505	6.4	18.4
11 17	2 8.83	+ 1 28.6	1.583	2.507	10.1	18.6
11 27	2 3.45	+ 1 12.1	1.650	2.509	13.7	18.9
12 7	2 0.40	+ 1 16.5	1.738	2.511	16.8	19.1

304400 2006 TS_{22} 10 31.0 101°.03 1°.1/30.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.95	+12 0.4	2.014	2.870	12.4	20.9
10 8	2 40.97	+11 40.0	1.955	2.882	9.0	20.7
10 18	2 33.18	+11 14.0	1.921	2.894	5.2	20.5
10 28	2 24.35	+10 45.4	1.915	2.906	1.5	20.2
11 7	2 15.41	+10 18.3	1.937	2.918	3.4	20.4
11 17	2 7.30	+ 9 56.6	1.989	2.930	7.2	20.7
11 27	2 0.80	+ 9 43.7	2.067	2.941	10.7	20.9
12 7	1 56.43	+ 9 42.0	2.169	2.952	13.6	21.1

349646 2008 UW_{281} 10 31.0 265°.25 0°.6/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.22	+17 56.7	1.724	2.577	14.3	21.3
10 8	2 40.93	+17 32.2	1.649	2.572	10.7	21.1
10 18	2 33.40	+16 54.7	1.598	2.568	6.4	20.9
10 28	2 24.43	+16 6.8	1.572	2.564	1.8	20.5
11 7	2 15.17	+15 13.7	1.575	2.560	3.2	20.6
11 17	2 6.75	+14 21.6	1.605	2.555	7.8	20.9
11 27	2 0.19	+13 37.0	1.661	2.551	11.9	21.2
12 7	1 56.12	+13 4.8	1.740	2.547	15.4	21.4

448571 2010 SZ_{14} 10 31.0 67°.84 0°.0/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.64	+15 18.9	1.935	2.789	13.0	21.3
10 8	2 40.18	+15 1.3	1.870	2.795	9.5	21.1
10 18	2 32.80	+14 34.9	1.829	2.801	5.5	20.9
10 28	2 24.28	+14 2.5	1.815	2.807	1.3	20.6
11 7	2 15.59	+13 28.2	1.830	2.814	3.0	20.8
11 17	2 7.69	+12 56.5	1.873	2.820	7.1	21.0
11 27	2 1.45	+12 32.1	1.943	2.826	10.7	21.3
12 7	1 57.41	+12 18.2	2.035	2.833	13.8	21.5

287843 2003 SO_{226} 10 31.0 346°.60 0°.4/31.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.71	+16 12.1	1.891	2.747	13.1	20.8
10 8	2 38.95	+16 4.9	1.816	2.742	9.7	20.6
10 18	2 32.19	+15 48.2	1.765	2.737	5.7	20.4
10 28	2 24.16	+15 24.3	1.740	2.732	1.5	20.1
11 7	2 15.85	+14 56.9	1.743	2.728	2.9	20.2
11 17	2 8.24	+14 30.3	1.774	2.725	7.1	20.4
11 27	2 2.27	+14 9.3	1.832	2.722	10.9	20.7
12 7	1 58.52	+13 57.6	1.911	2.719	14.2	20.9

121857 2000 CO_{64} 10 31.0 189°.10 2°.9/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 42.63	+ 4 28.1	2.896	3.753	9.0	20.6
10 8	2 37.44	+ 3 47.4	2.826	3.752	6.6	20.4
10 18	2 31.02	+ 3 6.4	2.783	3.751	4.2	20.3
10 28	2 23.85	+ 2 28.5	2.769	3.749	2.9	20.2
11 7	2 16.57	+ 1 57.2	2.785	3.747	4.3	20.3
11 17	2 9.76	+ 1 35.3	2.831	3.744	6.7	20.4
11 27	2 4.00	+ 1 24.8	2.904	3.741	9.1	20.6
12 7	1 59.69	+ 1 26.5	3.001	3.738	11.2	20.7

159124 2004 VP_{62} 10 31.0 336°.59 10°.7/22.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.23	−18 28.9	2.110	2.935	13.1	19.5
10 8	2 40.42	−19 27.4	2.067	2.932	11.6	19.4
10 18	2 32.85	−20 8.2	2.045	2.930	10.8	19.4
10 28	2 24.28	−20 24.6	2.048	2.927	10.9	19.4
11 7	2 15.64	−20 13.0	2.075	2.924	11.9	19.4
11 17	2 7.80	−19 32.8	2.124	2.922	13.5	19.5
11 27	2 1.53	−18 26.3	2.195	2.920	15.2	19.7
12 7	1 57.33	−16 58.1	2.283	2.918	16.8	19.8

39061 2000 UX_{108} 10 31.0 212°.37 5°.3/27.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.65	+ 3 2.3	1.550	2.421	14.7	18.8
10 8	2 43.49	+ 2 10.6	1.486	2.417	10.9	18.6
10 18	2 34.90	+ 1 19.5	1.445	2.413	7.2	18.3
10 28	2 24.81	+ 0 35.9	1.431	2.409	5.3	18.2
11 7	2 14.42	+ 0 6.5	1.443	2.404	7.4	18.3
11 17	2 5.01	− 0 3.9	1.482	2.399	11.2	18.5
11 27	1 57.66	+ 0 6.9	1.544	2.393	15.0	18.8
12 7	1 53.00	+ 0 38.0	1.626	2.387	18.3	19.0

406247 2007 DT_{22} 10 31.0 17°.94 5°.9/ 4.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.84	+29 43.6	1.829	2.635	15.6	20.9
10 8	2 42.26	+30 23.7	1.758	2.638	12.6	20.7
10 18	2 34.24	+30 45.1	1.708	2.642	9.4	20.5
10 28	2 24.66	+30 45.3	1.683	2.646	6.7	20.3
11 7	2 14.71	+30 25.4	1.684	2.650	6.0	20.3
11 17	2 5.64	+29 49.6	1.713	2.656	8.0	20.5
11 27	1 58.56	+29 4.9	1.767	2.661	11.0	20.6
12 7	1 54.17	+28 19.1	1.844	2.667	14.0	20.9

154717 2004 LX_9 10 31.0 76°.05 0°.7/30.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.60	+13 7.9	1.522	2.384	15.4	19.4
10 8	2 44.09	+13 2.3	1.470	2.399	11.2	19.2
10 18	2 35.16	+12 49.0	1.440	2.414	6.5	19.0
10 28	2 24.84	+12 30.9	1.437	2.429	1.5	18.7
11 7	2 14.42	+12 12.3	1.461	2.444	3.8	18.9
11 17	2 5.15	+11 58.0	1.513	2.459	8.5	19.2
11 27	1 58.08	+11 52.2	1.590	2.474	12.6	19.5
12 7	1 53.77	+11 57.8	1.688	2.489	16.1	19.8

129096 Andrewleung 10 31.0 16°.91 4°.8/ 3.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.78	+28 16.9	1.834	2.650	15.1	19.4
10 8	2 39.90	+28 29.2	1.764	2.654	12.0	19.2
10 18	2 32.80	+28 22.4	1.716	2.659	8.6	19.0
10 28	2 24.31	+27 56.2	1.693	2.664	5.6	18.8
11 7	2 15.57	+27 13.0	1.696	2.670	4.9	18.8
11 17	2 7.70	+26 18.3	1.727	2.676	7.4	19.0
11 27	2 1.69	+25 19.5	1.784	2.683	10.6	19.2
12 7	1 58.17	+24 23.9	1.864	2.690	13.7	19.4

350063 2011 EA_{74} 10 31.0 208°.22 3°.3/30.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	3 5.68	+ 3 57.5	1.190	2.050	19.0	20.2
10 8	2 56.19	+ 4 46.4	1.121	2.047	14.2	19.9
10 18	2 42.81	+ 5 42.4	1.073	2.044	8.7	19.6
10 28	2 26.75	+ 6 46.9	1.052	2.041	3.7	19.3
11 7	2 9.99	+ 7 59.8	1.058	2.037	6.1	19.4
11 17	1 54.67	+ 9 19.7	1.093	2.032	11.8	19.8
11 27	1 42.57	+10 45.6	1.152	2.028	17.1	20.0
12 7	1 34.62	+12 16.9	1.232	2.023	21.5	20.3

131228 2001 DK_{97} 10 31.0 332°.70 6°.5/26.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.74	+ 0 14.9	1.613	2.490	13.9	19.3
10 8	2 39.78	− 0 56.7	1.555	2.487	10.5	19.1
10 18	2 32.68	− 2 5.4	1.521	2.484	7.6	18.9
10 28	2 24.28	− 3 3.1	1.512	2.481	6.5	18.9
11 7	2 15.67	− 3 42.7	1.530	2.478	8.5	19.0
11 17	2 7.94	− 3 59.6	1.573	2.476	11.7	19.2
11 27	2 2.04	− 3 52.2	1.638	2.473	15.0	19.4
12 7	1 58.56	− 3 22.0	1.723	2.471	17.9	19.6

296796 2009 VK_{35} 10 31.0 228°.18 2°.4/ 2.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.15	+25 13.8	2.644	3.455	11.2	21.0
10 8	2 38.10	+24 48.0	2.555	3.449	8.6	20.8
10 18	2 31.52	+24 8.5	2.490	3.441	5.8	20.6
10 28	2 24.00	+23 16.4	2.453	3.434	3.1	20.4
11 7	2 16.28	+22 14.8	2.446	3.426	2.8	20.4
11 17	2 9.12	+21 8.2	2.469	3.419	5.4	20.6
11 27	2 3.21	+20 2.0	2.521	3.411	8.3	20.7
12 7	1 59.04	+19 1.3	2.598	3.402	11.0	20.9

81500 2000 GO_{160} 10 31.0 357°.24 2°.7/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 43.15	+10 18.6	1.541	2.419	14.4	18.5
10 8	2 38.76	+ 9 25.5	1.478	2.416	10.4	18.2
10 18	2 32.15	+ 8 25.3	1.438	2.415	6.1	18.0
10 28	2 24.17	+ 7 24.0	1.424	2.414	2.8	17.8
11 7	2 15.95	+ 6 28.7	1.437	2.413	5.2	17.9
11 17	2 8.64	+ 5 46.0	1.475	2.413	9.5	18.2
11 27	2 3.22	+ 5 20.6	1.538	2.414	13.5	18.4
12 7	2 0.28	+ 5 14.5	1.621	2.415	16.9	18.7

319360 2006 DZ_{9} 10 31.0 180°.52 2°.4/29.0 18

9 28	2 47.22	+ 8 30.7	2.169	3.026	11.6	21.8
10 8	2 41.14	+ 7 51.6	2.100	3.027	8.5	21.6
10 18	2 33.31	+ 7 8.9	2.056	3.028	5.0	21.4
10 28	2 24.43	+ 6 26.7	2.040	3.028	2.5	21.2
11 7	2 15.38	+ 5 49.5	2.055	3.028	4.3	21.4
11 17	2 7.03	+ 5 21.5	2.098	3.026	7.7	21.6
11 27	2 0.17	+ 5 5.7	2.168	3.025	11.0	21.8
12 7	1 55.32	+ 5 3.8	2.261	3.023	13.7	22.0

265599 2005 RM_{23} 10 31.0 111°.79 3°.1/ 2.2 18

9 28	2 49.21	+23 56.9	1.604	2.438	16.1	20.5
10 8	2 43.22	+23 46.0	1.539	2.447	12.4	20.3
10 18	2 34.75	+23 16.3	1.497	2.456	8.1	20.1
10 28	2 24.78	+22 29.0	1.480	2.464	4.0	19.9
11 7	2 14.61	+21 28.8	1.490	2.473	3.9	19.9
11 17	2 5.54	+20 22.8	1.528	2.481	7.8	20.1
11 27	1 58.64	+19 19.7	1.592	2.489	11.9	20.4
12 7	1 54.54	+18 26.4	1.678	2.496	15.4	20.7

47446 1999 XM_{211} 10 31.0 327°.56 4°.3/ 2.2 18

9 28	2 50.70	+22 51.3	1.357	2.203	17.8	18.9
10 8	2 45.01	+23 30.4	1.285	2.198	13.9	18.6
10 18	2 36.18	+23 52.7	1.233	2.192	9.4	18.4
10 28	2 25.19	+23 56.3	1.205	2.187	5.2	18.1
11 7	2 13.59	+23 42.5	1.202	2.183	5.1	18.1
11 17	2 3.04	+23 16.3	1.225	2.178	9.2	18.3
11 27	1 55.04	+22 46.0	1.272	2.175	13.8	18.6
12 7	1 50.43	+22 19.7	1.340	2.171	17.8	18.8

446713 2015 OH_{40} 10 31.0 95°.40 2°.8/ 2.3 18

9 28	2 47.40	+23 53.3	1.911	2.738	14.2	21.0
10 8	2 41.57	+23 46.2	1.846	2.750	10.9	20.8
10 18	2 33.66	+23 23.2	1.805	2.761	7.2	20.6
10 28	2 24.53	+22 45.5	1.789	2.773	3.7	20.4
11 7	2 15.26	+21 56.8	1.802	2.784	3.5	20.4
11 17	2 6.89	+21 2.6	1.844	2.795	6.8	20.7
11 27	2 0.34	+20 9.7	1.912	2.806	10.4	20.9
12 7	1 56.16	+19 23.8	2.004	2.817	13.5	21.1

273630 2007 DJ_{41} 10 31.0 80°.63 3°.6/ 2.5 18

9 28	2 50.29	+24 20.4	1.570	2.403	16.5	20.0
10 8	2 44.00	+24 25.3	1.514	2.419	12.7	19.8
10 18	2 35.20	+24 11.7	1.479	2.436	8.4	19.6
10 28	2 24.91	+23 39.9	1.470	2.452	4.5	19.4
11 7	2 14.49	+22 54.1	1.487	2.468	4.2	19.4
11 17	2 5.26	+22 0.8	1.532	2.484	7.8	19.7
11 27	1 58.29	+21 8.2	1.603	2.500	11.8	19.9
12 7	1 54.17	+20 23.2	1.696	2.516	15.2	20.2

381752 2009 SG_{129} 10 31.0 310°.60 0°.0/30.9 18

9 28	2 47.81	+15 6.7	1.398	2.266	16.2	21.0
10 8	2 42.61	+14 56.4	1.326	2.257	12.0	20.7
10 18	2 34.64	+14 34.8	1.274	2.249	7.1	20.4
10 28	2 24.83	+14 4.7	1.248	2.240	1.7	20.0
11 7	2 14.55	+13 31.2	1.248	2.232	3.9	20.2
11 17	2 5.24	+13 0.6	1.273	2.224	9.2	20.5
11 27	1 58.17	+12 39.4	1.323	2.217	14.0	20.7
12 7	1 54.11	+12 31.9	1.393	2.210	18.1	21.0

229199 2004 TB_{368} 10 31.0 302°.47 0°.3/30.9 18

9 28	2 47.00	+14 22.9	1.545	2.410	15.1	20.7
10 8	2 41.94	+14 13.6	1.459	2.390	11.2	20.4
10 18	2 34.26	+13 54.5	1.396	2.370	6.6	20.1
10 28	2 24.77	+13 28.2	1.358	2.351	1.5	19.7
11 7	2 14.67	+12 59.2	1.347	2.331	3.8	19.8
11 17	2 5.32	+12 33.0	1.363	2.312	8.9	20.1
11 27	1 57.97	+12 15.5	1.403	2.293	13.6	20.3
12 7	1 53.43	+12 11.0	1.464	2.274	17.6	20.5

482763 2013 GK_{55} 10 31.0 247°.11 1°.6/29.8 18

9 28	2 45.37	+10 58.3	2.137	2.995	11.8	21.8
10 8	2 39.95	+10 29.1	2.057	2.985	8.6	21.6
10 18	2 32.72	+ 9 54.4	2.002	2.976	5.0	21.4
10 28	2 24.35	+ 9 17.6	1.975	2.966	1.7	21.2
11 7	2 15.70	+ 8 43.0	1.978	2.956	3.7	21.3
11 17	2 7.68	+ 8 14.8	2.009	2.946	7.4	21.5
11 27	2 1.10	+ 7 56.8	2.066	2.936	10.9	21.7
12 7	1 56.54	+ 7 51.3	2.147	2.925	13.9	21.9

215740 2004 ED 10 31.0 207°.62 4°.0/28.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 47.49	+ 2 30.3	2.221	3.079	11.4	20.8
10 8	2 41.33	+ 2 2.2	2.150	3.075	8.4	20.6
10 18	2 33.45	+ 1 35.6	2.105	3.071	5.5	20.4
10 28	2 24.51	+ 1 14.8	2.089	3.066	4.0	20.3
11 7	2 15.36	+ 1 3.5	2.101	3.061	5.5	20.4
11 17	2 6.88	+ 1 4.6	2.142	3.056	8.5	20.6
11 27	1 59.83	+ 1 19.6	2.210	3.050	11.4	20.7
12 7	1 54.75	+ 1 48.5	2.300	3.044	14.0	20.9

450084 2015 RL_{84} 10 31.0 59°.74 3°.4/ 3.1 15

9 28	2 45.42	+26 56.5	1.728	2.553	15.6	20.6
10 8	2 40.26	+26 21.4	1.668	2.568	12.0	20.4
10 18	2 32.94	+25 25.1	1.629	2.582	8.1	20.2
10 28	2 24.38	+24 10.1	1.616	2.597	4.4	20.0
11 7	2 15.75	+22 42.0	1.631	2.612	3.8	20.0
11 17	2 8.17	+21 9.0	1.673	2.627	7.1	20.2
11 27	2 2.55	+19 40.2	1.743	2.642	10.9	20.5
12 7	1 59.40	+18 22.8	1.836	2.657	14.1	20.7

465210 2007 QF_{10} 10 31.0 67°.23 1°.4/31.9 17

9 28	2 53.69	+19 25.6	1.133	1.995	19.5	21.6
10 8	2 46.73	+19 6.6	1.098	2.025	14.4	21.3
10 18	2 36.78	+18 29.6	1.084	2.054	8.7	21.1
10 28	2 25.26	+17 38.2	1.093	2.083	2.8	20.9
11 7	2 13.94	+16 40.1	1.127	2.113	4.0	21.0
11 17	2 4.41	+15 44.4	1.188	2.142	9.4	21.4
11 27	1 57.80	+14 59.5	1.272	2.170	14.1	21.8
12 7	1 54.56	+14 30.4	1.376	2.198	17.9	22.1

11816 Vasile 10 31.0 82°.65 0°.4/31.4 18

9 28	2 47.20	+18 29.8	1.710	2.560	14.6	19.0
10 8	2 41.37	+17 42.7	1.659	2.581	10.7	18.8
10 18	2 33.50	+16 42.2	1.631	2.601	6.3	18.6
10 28	2 24.50	+15 32.5	1.630	2.622	1.6	18.4
11 7	2 15.51	+14 20.3	1.658	2.642	3.1	18.5
11 17	2 7.59	+13 12.5	1.714	2.662	7.5	18.8
11 27	2 1.59	+12 15.5	1.796	2.682	11.4	19.1
12 7	1 58.00	+11 33.5	1.901	2.702	14.6	19.4

60790 2000 HD_{4} 10 31.0 218°.46 0°.1/30.9 18

9 28	2 47.64	+16 9.0	1.759	2.613	14.1	19.6
10 8	2 41.95	+15 35.6	1.683	2.608	10.4	19.4
10 18	2 34.02	+14 50.5	1.630	2.602	6.1	19.1
10 28	2 24.68	+13 57.0	1.604	2.597	1.4	18.8
11 7	2 15.02	+13 0.5	1.607	2.590	3.4	18.9
11 17	2 6.19	+12 7.4	1.637	2.584	8.0	19.2
11 27	1 59.21	+11 23.9	1.694	2.577	12.1	19.4
12 7	1 54.72	+10 54.3	1.773	2.570	15.6	19.6

490599 2009 WX_{175} 10 31.0 272°.94 1°.6/ 1.5 17

9 28	2 44.57	+20 21.6	2.416	3.247	11.5	21.8
10 8	2 39.33	+20 18.1	2.324	3.234	8.7	21.6
10 18	2 32.36	+20 4.1	2.257	3.220	5.5	21.4
10 28	2 24.28	+19 40.6	2.218	3.206	2.3	21.1
11 7	2 15.87	+19 10.1	2.208	3.192	2.6	21.1
11 17	2 7.99	+18 36.2	2.228	3.177	5.9	21.3
11 27	2 1.42	+18 3.4	2.275	3.163	9.2	21.5
12 7	1 56.74	+17 36.0	2.347	3.149	12.1	21.7

273443 2006 WW_{178} 10 31.1 77°.42 0°.7/30.6 18

9 28	2 49.97	+13 31.8	1.417	2.283	16.1	20.5
10 8	2 43.90	+13 17.8	1.360	2.291	11.8	20.3
10 18	2 35.22	+12 54.7	1.325	2.299	6.8	20.0
10 28	2 24.95	+12 26.0	1.315	2.307	1.6	19.7
11 7	2 14.49	+11 56.8	1.332	2.315	4.0	19.9
11 17	2 5.19	+11 33.0	1.376	2.323	9.0	20.2
11 27	1 58.18	+11 19.7	1.444	2.331	13.5	20.5
12 7	1 54.09	+11 19.9	1.533	2.340	17.2	20.8

411091 2009 VA_{116} 10 31.1 321°.13 1°.8/ 1.7 17

9 28	2 43.03	+21 27.7	2.110	2.947	12.7	21.3
10 8	2 38.37	+21 13.0	2.027	2.939	9.6	21.1
10 18	2 31.86	+20 45.1	1.967	2.930	6.1	20.9
10 28	2 24.17	+20 5.4	1.934	2.922	2.6	20.6
11 7	2 16.19	+19 17.6	1.930	2.914	2.9	20.6
11 17	2 8.85	+18 26.5	1.954	2.906	6.4	20.9
11 27	2 3.00	+17 37.9	2.005	2.899	10.0	21.1
12 7	1 59.21	+16 56.8	2.080	2.891	13.1	21.3

179766 2002 SZ_{6} 10 31.1 94°.21 0°.2/30.9 16

9 28	2 51.78	+15 25.0	1.549	2.404	15.6	20.7
10 8	2 44.84	+15 1.5	1.502	2.427	11.3	20.5
10 18	2 35.56	+14 27.3	1.478	2.450	6.6	20.3
10 28	2 25.01	+13 46.3	1.480	2.473	1.5	20.0
11 7	2 14.47	+13 3.8	1.511	2.494	3.6	20.2
11 17	2 5.19	+12 25.9	1.569	2.516	8.2	20.6
11 27	1 58.12	+11 57.9	1.653	2.537	12.3	20.8
12 7	1 53.79	+11 43.2	1.759	2.557	15.7	21.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
102029 1999 RV_{99}			10 31.1	54°.62	1°.5/30.1	17
	h m	° ′			°	m
9 28	2 46.79	+15 16.7	1.178	2.056	17.8	19.1
10 8	2 41.72	+14 5.3	1.135	2.073	12.9	18.9
10 18	2 33.93	+12 39.5	1.113	2.090	7.3	18.7
10 28	2 24.63	+11 7.4	1.116	2.108	1.9	18.4
11 7	2 15.35	+ 9 39.7	1.144	2.126	4.9	18.6
11 17	2 7.50	+ 8 26.2	1.198	2.145	10.2	19.0
11 27	2 2.14	+ 7 33.9	1.275	2.163	14.8	19.3
12 7	1 59.79	+ 7 5.6	1.371	2.182	18.6	19.6
5796 Klemm			10 31.1	353°.38	1°.2/31.8	18 R
9 28	2 47.13	+18 27.7	1.445	2.305	16.2	16.9
10 8	2 41.99	+18 18.8	1.378	2.303	12.1	16.6
10 18	2 34.21	+17 55.4	1.331	2.302	7.4	16.4
10 28	2 24.75	+17 19.7	1.310	2.301	2.4	16.1
11 7	2 14.94	+16 36.6	1.315	2.300	3.5	16.1
11 17	2 6.15	+15 52.9	1.346	2.300	8.5	16.4
11 27	1 59.56	+15 15.8	1.402	2.300	13.1	16.7
12 7	1 55.87	+14 50.8	1.479	2.300	17.0	17.0
473334 2015 TF_{104}			10 31.1	277°.55	2°.9/28.1	18
9 28	2 42.03	+ 8 40.7	2.202	3.068	11.2	20.7
10 8	2 37.48	+ 7 29.1	2.121	3.053	8.1	20.5
10 18	2 31.28	+ 6 11.7	2.065	3.038	4.9	20.3
10 28	2 24.04	+ 4 53.8	2.038	3.023	2.9	20.1
11 7	2 16.54	+ 3 41.7	2.040	3.008	4.9	20.3
11 17	2 9.61	+ 2 41.0	2.070	2.993	8.2	20.4
11 27	2 4.00	+ 1 56.0	2.127	2.978	11.4	20.6
12 7	2 0.24	+ 1 28.8	2.206	2.963	14.2	20.8
260296 2004 TW_{106}			10 31.1	52°.39	2°.1/29.6	18
9 28	2 46.57	+ 8 23.6	1.996	2.858	12.3	19.9
10 8	2 40.79	+ 8 11.8	1.935	2.865	8.9	19.7
10 18	2 33.17	+ 7 57.6	1.899	2.872	5.2	19.5
10 28	2 24.48	+ 7 44.2	1.890	2.879	2.2	19.3
11 7	2 15.63	+ 7 35.1	1.910	2.887	4.1	19.5
11 17	2 7.57	+ 7 33.3	1.958	2.894	7.7	19.7
11 27	2 1.09	+ 7 41.3	2.033	2.902	11.0	19.9
12 7	1 56.73	+ 8 0.3	2.130	2.910	13.9	20.2
475321 2005 YU_{167}			10 31.1	354°.85	2°.0/29.8	18
9 28	2 42.97	+12 29.6	1.179	2.068	17.1	20.6
10 8	2 39.26	+11 47.2	1.120	2.063	12.5	20.4
10 18	2 32.74	+10 53.5	1.080	2.059	7.2	20.1
10 28	2 24.43	+ 9 55.0	1.064	2.056	2.3	19.8
11 7	2 15.77	+ 9 0.1	1.072	2.054	5.2	19.9
11 17	2 8.22	+ 8 17.1	1.105	2.053	10.6	20.3
11 27	2 3.04	+ 7 52.4	1.159	2.054	15.5	20.5
12 7	2 0.92	+ 7 48.9	1.232	2.056	19.6	20.8
43414 2000 WS_{168}			10 31.1	3°.39	3°.9/28.9	18
9 28	2 42.72	+ 9 44.5	0.987	1.888	18.5	17.7
10 8	2 39.35	+ 8 45.1	0.937	1.886	13.5	17.4
10 18	2 32.88	+ 7 36.8	0.906	1.886	8.0	17.1
10 28	2 24.46	+ 6 28.8	0.897	1.887	4.0	16.9
11 7	2 15.74	+ 5 31.9	0.911	1.889	7.0	17.1
11 17	2 8.36	+ 4 54.9	0.947	1.892	12.4	17.4
11 27	2 3.64	+ 4 43.2	1.004	1.897	17.4	17.7
12 7	2 2.24	+ 4 57.3	1.077	1.904	21.6	18.0
305351 2008 BW_{12}			10 31.1	32°.39	1°.5/ 1.3	18
9 28	2 45.24	+20 34.4	1.865	2.708	13.8	20.5
10 8	2 40.10	+20 11.8	1.793	2.709	10.4	20.3
10 18	2 32.90	+19 34.9	1.744	2.710	6.5	20.1
10 28	2 24.44	+18 46.1	1.721	2.711	2.4	19.8
11 7	2 15.76	+17 49.9	1.727	2.712	3.0	19.9
11 17	2 7.88	+16 52.3	1.761	2.713	7.0	20.1
11 27	2 1.75	+15 59.7	1.822	2.714	10.9	20.4
12 7	1 57.93	+15 17.4	1.906	2.716	14.1	20.6
175809 1999 RU_{182}			10 31.1	22°.20	5°.6/ 2.9	18 R
9 28	2 49.65	+24 51.1	1.112	1.967	20.3	19.5
10 8	2 44.56	+25 38.0	1.058	1.973	15.9	19.3
10 18	2 36.02	+26 2.7	1.022	1.980	11.1	19.0
10 28	2 25.23	+26 2.4	1.008	1.988	6.7	18.8
11 7	2 14.03	+25 39.5	1.017	1.997	6.1	18.8
11 17	2 4.28	+25 1.0	1.051	2.006	10.0	19.1
11 27	1 57.52	+24 17.5	1.107	2.017	14.6	19.4
12 7	1 54.49	+23 39.0	1.182	2.028	18.7	19.7
400338 2007 UC_{71}			10 31.1	248°.69	0°.4/30.8	18
9 28	2 45.23	+15 42.0	1.984	2.836	12.7	21.5
10 8	2 40.03	+15 3.4	1.902	2.827	9.4	21.3
10 18	2 32.86	+14 14.2	1.844	2.817	5.5	21.0
10 28	2 24.45	+13 17.8	1.814	2.807	1.3	20.7
11 7	2 15.75	+12 19.2	1.813	2.796	3.2	20.8
11 17	2 7.72	+11 24.2	1.841	2.786	7.4	21.1
11 27	2 1.28	+10 38.5	1.895	2.775	11.2	21.3
12 7	1 57.01	+10 6.1	1.972	2.764	14.4	21.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
518756 2009 TC_2			10 31.1	111°.90	1°.8/ 1.9	18
	h m	° ′			°	m
9 28	2 44.34	+22 34.1	2.342	3.168	12.0	21.1
10 8	2 39.03	+22 7.0	2.272	3.177	9.0	20.9
10 18	2 32.11	+21 27.0	2.227	3.187	5.8	20.7
10 28	2 24.24	+20 35.9	2.210	3.197	2.6	20.5
11 7	2 16.27	+19 37.6	2.223	3.206	2.6	20.5
11 17	2 9.00	+18 37.0	2.265	3.215	5.8	20.8
11 27	2 3.16	+17 39.6	2.335	3.225	8.9	21.0
12 7	1 59.21	+16 50.0	2.430	3.233	11.7	21.2
283790 2003 RG_1			10 31.1	359°.29	7°.1/27.2	18
9 28	2 39.91	+ 2 16.4	1.025	1.932	17.5	19.1
10 8	2 37.18	+ 1 17.2	0.977	1.926	13.1	18.8
10 18	2 31.57	+ 0 20.5	0.948	1.922	9.0	18.6
10 28	2 24.17	− 0 23.2	0.941	1.920	7.2	18.5
11 7	2 16.46	− 0 44.9	0.956	1.921	9.6	18.6
11 17	2 9.95	− 0 39.3	0.992	1.923	13.8	18.9
11 27	2 5.87	− 0 5.4	1.048	1.928	18.1	19.2
12 7	2 4.88	+ 0 53.7	1.121	1.934	21.7	19.4
205572 2001 SC_{338}			10 31.1	3°.97	0°.6/31.4	17
9 28	2 48.34	+17 13.6	1.146	2.021	18.5	20.9
10 8	2 43.36	+16 57.0	1.086	2.020	13.8	20.6
10 18	2 35.22	+16 24.2	1.046	2.020	8.2	20.3
10 28	2 25.04	+15 38.6	1.028	2.020	2.2	19.9
11 7	2 14.48	+14 46.9	1.036	2.021	4.1	20.1
11 17	2 5.21	+13 58.0	1.067	2.022	10.0	20.4
11 27	1 58.64	+13 20.3	1.122	2.024	15.3	20.7
12 7	1 55.49	+12 59.4	1.195	2.026	19.6	21.0
453710 2010 YC_5			10 31.1	273°.93	2°.8/28.9	18
9 28	2 45.29	+ 6 7.8	2.231	3.092	11.2	21.1
10 8	2 39.82	+ 5 45.6	2.155	3.084	8.2	20.9
10 18	2 32.64	+ 5 22.3	2.104	3.075	5.0	20.7
10 28	2 24.39	+ 5 1.5	2.081	3.067	2.9	20.5
11 7	2 15.90	+ 4 46.8	2.087	3.058	4.5	20.6
11 17	2 8.00	+ 4 41.4	2.122	3.049	7.7	20.8
11 27	2 1.48	+ 4 47.5	2.184	3.041	10.9	21.0
12 7	1 56.86	+ 5 6.1	2.268	3.032	13.6	21.2
288861 2004 RS_{224}			10 31.1	54°.48	0°.4/31.4	18
9 28	2 45.58	+16 55.6	1.853	2.705	13.5	20.6
10 8	2 40.17	+16 36.8	1.798	2.721	9.9	20.4
10 18	2 32.84	+16 7.8	1.767	2.738	5.8	20.2
10 28	2 24.42	+15 31.2	1.762	2.754	1.5	19.9
11 7	2 15.92	+14 51.7	1.786	2.771	2.9	20.1
11 17	2 8.31	+14 14.1	1.839	2.788	7.0	20.4
11 27	2 2.44	+13 43.5	1.917	2.805	10.6	20.6
12 7	1 58.80	+13 23.4	2.019	2.822	13.7	20.9
471007 2009 SZ_{243}			10 31.1	344°.60	4°.0/ 3.8	17
9 28	2 35.95	+33 4.9	1.023	1.873	22.1	19.4
10 8	2 34.78	+31 4.5	0.944	1.856	17.7	19.0
10 18	2 30.38	+28 7.9	0.883	1.842	12.2	18.7
10 28	2 23.91	+24 18.7	0.845	1.829	6.3	18.3
11 7	2 17.04	+19 54.3	0.832	1.818	4.6	18.2
11 17	2 11.48	+15 22.8	0.845	1.809	10.3	18.5
11 27	2 8.60	+11 14.7	0.884	1.802	16.4	18.8
12 7	2 9.06	+ 7 50.6	0.943	1.797	21.7	19.1
244458 2002 RM_{157}			10 31.1	52°.79	0°.0/30.9	18
9 28	2 45.83	+16 25.6	1.656	2.515	14.5	20.8
10 8	2 40.60	+15 56.5	1.597	2.524	10.6	20.6
10 18	2 33.20	+15 15.9	1.561	2.534	6.2	20.4
10 28	2 24.52	+14 27.4	1.551	2.543	1.5	20.1
11 7	2 15.71	+13 36.6	1.569	2.553	3.3	20.2
11 17	2 7.85	+12 49.7	1.614	2.563	7.8	20.5
11 27	2 1.90	+12 12.3	1.685	2.573	11.8	20.8
12 7	1 58.40	+11 48.4	1.777	2.584	15.2	21.0
40649 1999 RY_{186}			10 31.1	217°.72	1°.2/ 1.0	18
9 28	2 47.66	+19 27.7	2.124	2.959	12.7	19.1
10 8	2 41.74	+19 10.7	2.039	2.951	9.5	18.9
10 18	2 33.85	+18 41.7	1.978	2.943	5.9	18.7
10 28	2 24.70	+18 2.5	1.945	2.935	2.1	18.4
11 7	2 15.24	+17 16.5	1.941	2.926	2.8	18.5
11 17	2 6.45	+16 28.7	1.967	2.916	6.7	18.7
11 27	1 59.23	+15 44.8	2.021	2.906	10.3	18.9
12 7	1 54.19	+15 9.3	2.098	2.895	13.5	19.1
316724 1998 FX_{132}			10 31.1	99°.29	11°.7/ 8.4	18
9 28	3 6.18	+42 53.8	1.730	2.443	19.7	20.3
10 8	2 56.56	+44 40.8	1.676	2.468	17.2	20.2
10 18	2 43.05	+45 58.4	1.642	2.493	14.7	20.1
10 28	2 26.95	+46 38.0	1.630	2.517	12.7	20.0
11 7	2 10.26	+46 36.5	1.642	2.541	11.7	20.0
11 17	1 55.13	+45 58.1	1.679	2.563	12.2	20.1
11 27	1 43.33	+44 53.8	1.740	2.585	13.8	20.3
12 7	1 35.69	+43 37.0	1.823	2.607	15.7	20.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
429733 2011 LX_{10}			10 31.1 139°.59	7°.3/ 9.5 16		
	h m	° ′			°	m
9 28	2 55.21	+44 43.0	2.933	3.604	13.1	22.5
10 8	2 46.95	+44 59.6	2.859	3.623	11.5	22.4
10 18	2 36.71	+44 54.6	2.805	3.642	9.7	22.3
10 28	2 25.35	+44 25.6	2.776	3.660	8.2	22.2
11 7	2 13.91	+43 33.3	2.774	3.676	7.3	22.2
11 17	2 3.42	+42 21.2	2.800	3.692	7.6	22.2
11 27	1 54.74	+40 55.6	2.855	3.706	8.8	22.3
12 7	1 48.42	+39 24.1	2.936	3.720	10.4	22.5
312891 2011 UB_{266}			10 31.1 71°.36	2°.2/29.6 18		
9 28	2 47.08	+ 9 6.1	1.849	2.713	13.0	20.6
10 8	2 41.30	+ 8 45.7	1.789	2.719	9.5	20.4
10 18	2 33.54	+ 8 21.8	1.752	2.726	5.5	20.1
10 28	2 24.61	+ 7 58.0	1.743	2.733	2.3	19.9
11 7	2 15.53	+ 7 38.8	1.763	2.740	4.3	20.1
11 17	2 7.29	+ 7 27.7	1.810	2.747	8.1	20.4
11 27	2 0.77	+ 7 27.9	1.883	2.754	11.7	20.6
12 7	1 56.52	+ 7 40.6	1.979	2.761	14.7	20.8
9506 Telramund			10 31.1 205°.40	3°.6/ 3.3 18		
9 28	2 45.52	+26 55.2	2.280	3.088	12.8	18.1
10 8	2 40.12	+26 54.6	2.199	3.087	10.1	17.9
10 18	2 32.88	+26 38.6	2.141	3.086	7.0	17.7
10 28	2 24.47	+26 7.2	2.110	3.085	4.3	17.6
11 7	2 15.81	+25 22.9	2.107	3.083	3.8	17.5
11 17	2 7.83	+24 30.1	2.133	3.082	6.2	17.7
11 27	2 1.37	+23 34.6	2.187	3.080	9.3	17.9
12 7	1 56.98	+22 42.5	2.266	3.078	12.1	18.0
518423 2000 GV_{176}			10 31.1 161°.14	3°.5/ 3.1 18		
9 28	2 49.03	+26 14.2	2.365	3.168	12.6	22.0
10 8	2 42.59	+26 25.8	2.288	3.174	9.8	21.8
10 18	2 34.27	+26 23.2	2.235	3.179	6.8	21.7
10 28	2 24.80	+26 6.2	2.209	3.183	4.2	21.5
11 7	2 15.09	+25 36.5	2.212	3.187	3.8	21.5
11 17	2 6.09	+24 58.1	2.245	3.191	6.2	21.7
11 27	1 58.64	+24 16.1	2.306	3.194	9.1	21.8
12 7	1 53.29	+23 36.1	2.392	3.196	11.8	22.0
310248 2011 UY_{12}			10 31.1 36°.95	0°.2/30.9 18		
9 28	2 45.80	+15 24.6	1.632	2.494	14.5	20.9
10 8	2 40.64	+15 2.2	1.572	2.501	10.6	20.6
10 18	2 33.26	+14 29.5	1.534	2.508	6.2	20.4
10 28	2 24.57	+13 49.9	1.523	2.515	1.4	20.1
11 7	2 15.69	+13 8.5	1.539	2.523	3.4	20.3
11 17	2 7.76	+12 31.1	1.582	2.531	8.0	20.6
11 27	2 1.75	+12 3.0	1.650	2.539	12.0	20.8
12 7	1 58.23	+11 47.8	1.741	2.548	15.4	21.1
446434 2014 JK_{36}			10 31.1 218°.75	1°.0/30.2 18		
9 28	2 45.49	+13 52.1	2.032	2.887	12.4	22.2
10 8	2 40.13	+13 8.0	1.955	2.882	9.0	22.0
10 18	2 32.89	+12 15.0	1.903	2.876	5.2	21.7
10 28	2 24.48	+11 17.0	1.878	2.870	1.4	21.4
11 7	2 15.84	+10 19.1	1.883	2.864	3.5	21.6
11 17	2 7.89	+ 9 27.0	1.917	2.857	7.4	21.8
11 27	2 1.48	+ 8 45.8	1.977	2.851	11.1	22.0
12 7	1 57.18	+ 8 18.5	2.060	2.843	14.2	22.2
438925 2010 CC_{103}			10 31.1 110°.61	7°.6/25.1 18		
9 28	2 46.03	− 3 24.4	1.740	2.609	13.4	21.0
10 8	2 40.52	− 4 51.6	1.696	2.618	10.5	20.8
10 18	2 33.06	− 6 11.8	1.675	2.626	8.2	20.7
10 28	2 24.51	− 7 16.8	1.681	2.634	7.7	20.7
11 7	2 15.88	− 7 59.9	1.714	2.643	9.3	20.8
11 17	2 8.19	− 8 17.7	1.772	2.650	12.0	21.0
11 27	2 2.25	− 8 9.8	1.852	2.658	14.7	21.2
12 7	1 58.57	− 7 38.7	1.951	2.666	17.1	21.4
473478 2015 XG_{76}			10 31.1 90°.85	2°.0/ 1.9 18		
9 28	2 44.00	+22 44.2	2.265	3.092	12.3	21.1
10 8	2 38.89	+22 22.5	2.193	3.098	9.3	20.9
10 18	2 32.09	+21 47.5	2.145	3.104	6.0	20.7
10 28	2 24.29	+21 0.9	2.124	3.110	2.7	20.5
11 7	2 16.33	+20 6.4	2.133	3.116	2.8	20.5
11 17	2 9.08	+19 8.8	2.171	3.122	5.9	20.7
11 27	2 3.27	+18 13.7	2.236	3.128	9.2	20.9
12 7	1 59.42	+17 26.1	2.327	3.134	12.0	21.1
269568 2009 WS_{105}			10 31.1 290°.19	3°.0/28.5 17		
9 28	2 43.17	+ 6 24.8	2.261	3.125	10.9	20.5
10 8	2 38.29	+ 5 46.9	2.182	3.113	8.0	20.3
10 18	2 31.78	+ 5 7.0	2.129	3.101	4.9	20.1
10 28	2 24.24	+ 4 29.1	2.104	3.088	3.0	20.0
11 7	2 16.44	+ 3 57.6	2.107	3.076	4.7	20.1
11 17	2 9.20	+ 3 36.2	2.139	3.064	7.8	20.2
11 27	2 3.26	+ 3 27.9	2.197	3.052	10.9	20.4
12 7	1 59.15	+ 3 33.8	2.278	3.040	13.6	20.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
298109 2002 RZ_{144}			10 31.1 8°.61	0°.3/31.3 18		
	h m	° ′			°	m
9 28	2 46.49	+15 57.4	1.579	2.440	15.0	20.2
10 8	2 41.31	+15 50.9	1.513	2.441	11.1	19.9
10 18	2 33.76	+15 33.8	1.469	2.442	6.5	19.7
10 28	2 24.73	+15 8.6	1.451	2.443	1.7	19.4
11 7	2 15.40	+14 39.7	1.461	2.445	3.3	19.5
11 17	2 7.01	+14 12.3	1.497	2.448	8.1	19.8
11 27	2 0.61	+13 51.9	1.558	2.451	12.3	20.0
12 7	1 56.84	+13 42.5	1.641	2.454	15.9	20.3
170086 2002 XR_{14}			10 31.1 246°.69	0°.7/30.6 16		
9 28	2 57.40	+14 44.6	2.052	2.882	13.2	22.6
10 8	2 49.22	+14 6.0	1.938	2.852	9.9	22.4
10 18	2 38.49	+13 15.6	1.850	2.819	5.8	22.0
10 28	2 25.92	+12 16.1	1.792	2.784	1.4	21.7
11 7	2 12.60	+11 12.4	1.766	2.747	3.7	21.8
11 17	1 59.78	+10 10.7	1.772	2.708	8.4	22.0
11 27	1 48.68	+ 9 17.9	1.807	2.666	12.7	22.2
12 7	1 40.14	+ 8 39.1	1.865	2.622	16.4	22.3
207181 2005 EJ_{6}			10 31.1 215°.41	1°.1/30.2 18		
9 28	2 46.09	+13 7.9	1.974	2.831	12.6	21.0
10 8	2 40.61	+12 33.4	1.900	2.827	9.2	20.8
10 18	2 33.19	+11 51.0	1.850	2.823	5.3	20.5
10 28	2 24.58	+11 4.4	1.827	2.819	1.5	20.3
11 7	2 15.72	+10 18.3	1.834	2.815	3.5	20.4
11 17	2 7.58	+ 9 38.0	1.869	2.810	7.6	20.6
11 27	2 1.04	+ 9 8.1	1.930	2.805	11.2	20.9
12 7	1 56.67	+ 8 51.4	2.015	2.800	14.4	21.1
510141 2010 VQ_{36}			10 31.1 323°.86	2°.3/29.6 18		
9 28	2 44.12	+13 1.6	1.163	2.050	17.4	20.8
10 8	2 40.29	+12 1.6	1.094	2.037	12.8	20.5
10 18	2 33.49	+10 47.0	1.047	2.025	7.4	20.2
10 28	2 24.71	+ 9 25.2	1.022	2.014	2.6	19.8
11 7	2 15.43	+ 8 6.4	1.022	2.003	5.7	20.0
11 17	2 7.22	+ 7 0.9	1.046	1.993	11.3	20.3
11 27	2 1.45	+ 6 17.3	1.092	1.984	16.5	20.6
12 7	1 58.90	+ 5 59.2	1.156	1.975	20.9	20.8
411983 2012 JD_{3}			10 31.1 349°.83	1°.6/ 1.9 18		
9 28	2 41.89	+24 4.2	2.118	2.948	12.9	20.0
10 8	2 37.48	+22 58.5	2.038	2.946	9.8	19.8
10 18	2 31.32	+21 35.0	1.982	2.943	6.2	19.6
10 28	2 24.13	+19 57.0	1.954	2.942	2.6	19.4
11 7	2 16.79	+18 10.6	1.955	2.940	2.7	19.4
11 17	2 10.17	+16 23.5	1.987	2.939	6.3	19.6
11 27	2 5.05	+14 43.5	2.046	2.938	9.9	19.8
12 7	2 1.93	+13 16.9	2.131	2.937	13.0	20.0
276024 2002 AT_{53}			10 31.1 211°.34	3°.5/28.8 17		
9 28	2 48.55	+ 8 50.2	1.455	2.328	15.3	20.7
10 8	2 42.91	+ 7 51.4	1.390	2.325	11.2	20.4
10 18	2 34.73	+ 6 46.0	1.348	2.323	6.7	20.2
10 28	2 24.97	+ 5 41.0	1.332	2.319	3.5	20.0
11 7	2 14.92	+ 4 44.2	1.343	2.316	6.0	20.1
11 17	2 5.88	+ 4 2.7	1.380	2.312	10.5	20.4
11 27	1 58.98	+ 3 41.2	1.440	2.308	14.8	20.6
12 7	1 54.88	+ 3 41.1	1.521	2.304	18.4	20.9
307534 2003 BN_{67}			10 31.1 329°.86	2°.5/29.5 18		
9 28	2 44.25	+ 9 33.4	1.557	2.434	14.3	19.9
10 8	2 39.77	+ 9 4.3	1.483	2.420	10.5	19.6
10 18	2 32.94	+ 8 29.6	1.431	2.407	6.2	19.4
10 28	2 24.56	+ 7 54.1	1.404	2.394	2.6	19.1
11 7	2 15.78	+ 7 23.5	1.404	2.382	5.0	19.2
11 17	2 7.78	+ 7 3.2	1.430	2.371	9.5	19.5
11 27	2 1.66	+ 6 57.5	1.480	2.360	13.7	19.7
12 7	1 58.12	+ 7 8.4	1.551	2.351	17.3	19.9
76419 2000 FJ_{19}			10 31.1 49°.48	4°.2/28.4 18		
9 28	2 47.54	+ 3 46.2	1.747	2.616	13.4	18.9
10 8	2 41.72	+ 3 18.2	1.690	2.621	9.9	18.7
10 18	2 33.85	+ 2 51.3	1.657	2.626	6.3	18.5
10 28	2 24.76	+ 2 30.5	1.650	2.632	4.2	18.4
11 7	2 15.51	+ 2 20.4	1.671	2.637	6.0	18.5
11 17	2 7.16	+ 2 24.2	1.719	2.642	9.5	18.7
11 27	2 0.60	+ 2 43.4	1.792	2.648	12.9	18.9
12 7	1 56.39	+ 3 17.7	1.886	2.654	15.8	19.2
236716 2007 FV_{42}			10 31.1 55°.04	8°.6/28.1 17		
9 28	3 5.18	− 1 46.7	0.977	1.849	21.2	20.2
10 8	2 54.06	− 2 51.4	0.983	1.910	15.6	20.1
10 18	2 40.42	− 3 41.2	1.009	1.970	10.7	20.1
10 28	2 26.12	− 4 7.5	1.060	2.029	8.6	20.2
11 7	2 13.05	− 4 6.3	1.136	2.087	10.3	20.4
11 17	2 2.59	− 3 38.9	1.236	2.144	13.8	20.8
11 27	1 55.48	− 2 49.3	1.358	2.199	17.1	21.2
12 7	1 51.83	− 1 43.2	1.497	2.253	19.8	21.5

252830 2002 GP_{107} 10 31.1 221°.81 2°.8/29.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 51.20	+ 8 33.8	1.532	2.398	15.1	20.6
10 8	2 44.84	+ 8 9.3	1.461	2.393	11.1	20.3
10 18	2 35.90	+ 7 40.6	1.414	2.388	6.6	20.0
10 28	2 25.29	+ 7 12.2	1.393	2.382	2.9	19.8
11 7	2 14.31	+ 6 49.7	1.399	2.376	5.3	19.9
11 17	2 4.27	+ 6 37.9	1.432	2.369	9.8	20.2
11 27	1 56.37	+ 6 40.6	1.490	2.362	14.1	20.4
12 7	1 51.30	+ 6 59.2	1.569	2.355	17.8	20.7

216204 2006 UD_{20} 10 31.1 133°.72 1°.4/ 1.2 18

9 28	2 46.48	+19 47.4	2.036	2.875	13.0	21.1
10 8	2 40.87	+19 34.5	1.965	2.879	9.7	20.9
10 18	2 33.35	+19 9.5	1.918	2.883	6.0	20.7
10 28	2 24.65	+18 34.3	1.897	2.887	2.2	20.4
11 7	2 15.75	+17 52.5	1.906	2.890	2.8	20.5
11 17	2 7.61	+17 9.0	1.944	2.894	6.6	20.7
11 27	2 1.10	+16 29.2	2.008	2.897	10.2	21.0
12 7	1 56.77	+15 57.6	2.096	2.901	13.3	21.2

178821 2001 FX_{161} 10 31.1 151°.57 1°.1/31.8 18

9 28	2 51.18	+18 20.3	1.806	2.646	14.3	20.7
10 8	2 44.47	+18 10.9	1.738	2.654	10.7	20.5
10 18	2 35.50	+17 49.6	1.695	2.662	6.5	20.3
10 28	2 25.17	+17 18.0	1.678	2.669	2.1	20.0
11 7	2 14.63	+16 40.2	1.690	2.675	3.1	20.1
11 17	2 5.03	+16 1.5	1.731	2.680	7.4	20.4
11 27	1 57.38	+15 27.7	1.799	2.685	11.3	20.6
12 7	1 52.27	+15 3.4	1.890	2.690	14.7	20.9

360921 2005 TB_{20} 10 31.1 54°.33 1°.4/29.9 18

9 28	2 43.70	+13 7.0	1.877	2.740	12.9	21.1
10 8	2 38.84	+12 14.1	1.816	2.747	9.3	20.9
10 18	2 32.14	+11 12.9	1.780	2.754	5.3	20.7
10 28	2 24.35	+10 8.3	1.770	2.762	1.7	20.5
11 7	2 16.45	+ 9 6.3	1.790	2.769	3.8	20.6
11 17	2 9.35	+ 8 12.6	1.837	2.777	7.8	20.9
11 27	2 3.87	+ 7 32.2	1.910	2.785	11.3	21.1
12 7	2 0.52	+ 7 7.6	2.006	2.793	14.4	21.4

398874 2013 CX_{65} 10 31.1 237°.14 0°.2/31.3 18

9 28	2 45.69	+16 42.4	1.933	2.784	13.1	21.3
10 8	2 40.40	+16 17.8	1.859	2.782	9.7	21.1
10 18	2 33.12	+15 42.7	1.809	2.780	5.7	20.9
10 28	2 24.61	+14 59.8	1.786	2.778	1.4	20.6
11 7	2 15.85	+14 13.5	1.792	2.776	2.9	20.7
11 17	2 7.84	+13 29.1	1.826	2.774	7.1	20.9
11 27	2 1.47	+12 51.9	1.886	2.772	10.9	21.2
12 7	1 57.33	+12 26.0	1.970	2.769	14.2	21.4

133922 2004 RW_{338} 10 31.1 244°.59 9°.0/23.8 17

9 28	2 47.16	+ 3 56.1	1.126	2.018	17.5	19.4
10 8	2 42.45	+ 0 50.0	1.068	2.009	13.2	19.1
10 18	2 34.71	− 2 25.3	1.033	1.999	9.7	18.9
10 28	2 25.03	− 5 30.8	1.024	1.990	9.4	18.9
11 7	2 14.96	− 8 6.8	1.039	1.979	12.6	19.0
11 17	2 6.10	− 9 59.8	1.078	1.968	17.0	19.2
11 27	1 59.76	−11 4.6	1.136	1.957	21.2	19.5
12 7	1 56.68	−11 24.4	1.209	1.946	24.6	19.7

484582 2008 QG_{40} 10 31.1 322°.35 5°.3/ 4.6 17

9 28	2 47.20	+30 50.3	2.266	3.054	13.5	21.1
10 8	2 41.55	+31 21.3	2.183	3.050	11.0	20.9
10 18	2 33.85	+31 35.8	2.122	3.047	8.3	20.7
10 28	2 24.81	+31 31.9	2.087	3.045	6.0	20.6
11 7	2 15.39	+31 10.5	2.080	3.042	5.4	20.5
11 17	2 6.64	+30 34.8	2.100	3.039	7.0	20.6
11 27	1 59.49	+29 50.6	2.148	3.037	9.6	20.8
12 7	1 54.60	+29 4.3	2.220	3.034	12.3	21.0

372060 2008 RG_{111} 10 31.1 304°.10 2°.7/ 2.4 17

9 28	2 44.76	+23 22.3	2.267	3.091	12.4	21.3
10 8	2 39.66	+23 28.9	2.180	3.081	9.5	21.1
10 18	2 32.70	+23 22.8	2.116	3.071	6.4	20.9
10 28	2 24.53	+23 4.3	2.079	3.061	3.4	20.6
11 7	2 16.02	+22 35.6	2.070	3.051	3.2	20.6
11 17	2 8.10	+22 0.3	2.091	3.041	6.2	20.8
11 27	2 1.61	+21 23.6	2.139	3.032	9.4	21.0
12 7	1 57.15	+20 50.4	2.211	3.023	12.4	21.2

519510 2012 FO_{60} 10 31.1 37°.97 4°.3/27.8 18

9 28	2 45.00	+ 1 33.0	2.164	3.028	11.4	20.5
10 8	2 39.56	+ 1 3.4	2.105	3.032	8.5	20.3
10 18	2 32.48	+ 0 36.4	2.071	3.036	5.7	20.1
10 28	2 24.45	+ 0 16.4	2.065	3.040	4.3	20.1
11 7	2 16.28	+ 0 7.1	2.087	3.044	5.8	20.2
11 17	2 8.81	+ 0 11.0	2.136	3.049	8.6	20.4
11 27	2 2.76	+ 0 29.3	2.212	3.053	11.4	20.5
12 7	1 58.61	+ 1 1.7	2.309	3.058	13.8	20.7

485977 2012 JS_{18} 10 31.1 178°.96 0°.1/31.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 44.07	+15 57.2	2.923	3.760	9.5	22.5
10 8	2 38.62	+15 41.4	2.845	3.761	7.0	22.4
10 18	2 31.86	+15 19.1	2.793	3.762	4.1	22.2
10 28	2 24.30	+14 52.0	2.770	3.762	1.0	21.9
11 7	2 16.59	+14 22.8	2.778	3.762	2.1	22.0
11 17	2 9.37	+13 54.4	2.817	3.762	5.1	22.3
11 27	2 3.24	+13 30.0	2.885	3.761	7.9	22.4
12 7	1 58.62	+13 12.2	2.977	3.760	10.3	22.6

513975 2014 GO_6 10 31.1 130°.89 1°.2/ 1.1 18

9 28	2 47.91	+19 24.1	2.165	2.999	12.5	22.4
10 8	2 41.75	+19 9.5	2.099	3.011	9.3	22.2
10 18	2 33.78	+18 43.7	2.058	3.023	5.7	22.0
10 28	2 24.76	+18 8.6	2.044	3.034	2.0	21.8
11 7	2 15.62	+17 27.9	2.060	3.045	2.6	21.9
11 17	2 7.26	+16 46.0	2.106	3.055	6.3	22.1
11 27	2 0.48	+16 8.0	2.180	3.065	9.7	22.4
12 7	1 55.80	+15 38.0	2.277	3.074	12.6	22.6

188564 2004 TO_{120} 10 31.1 76°.34 1°.7/ 1.4 18

9 28	2 48.82	+19 34.2	2.134	2.967	12.7	19.6
10 8	2 42.40	+19 46.1	2.077	2.987	9.5	19.4
10 18	2 34.15	+19 47.5	2.044	3.007	5.9	19.2
10 28	2 24.86	+19 39.4	2.039	3.027	2.4	19.0
11 7	2 15.46	+19 24.2	2.064	3.047	2.8	19.1
11 17	2 6.90	+19 5.4	2.118	3.067	6.2	19.3
11 27	1 59.99	+18 47.4	2.199	3.087	9.5	19.6
12 7	1 55.21	+18 34.2	2.305	3.107	12.3	19.8

273509 2007 BV_1 10 31.1 298°.06 4°.1/28.5 18

9 28	2 46.22	+ 7 34.1	1.398	2.278	15.4	20.7
10 8	2 41.49	+ 6 39.0	1.322	2.261	11.4	20.4
10 18	2 34.10	+ 5 37.7	1.269	2.243	7.0	20.1
10 28	2 24.92	+ 4 37.5	1.240	2.226	4.1	19.9
11 7	2 15.22	+ 3 46.4	1.237	2.209	6.7	20.0
11 17	2 6.38	+ 3 11.9	1.260	2.192	11.3	20.2
11 27	1 59.64	+ 2 58.9	1.305	2.176	15.8	20.4
12 7	1 55.79	+ 3 8.9	1.369	2.160	19.7	20.6

265522 2005 ML_{34} 10 31.1 89°.95 2°.4/29.5 16

9 28	2 50.61	+10 36.0	1.538	2.403	15.1	21.1
10 8	2 43.99	+ 9 49.7	1.495	2.426	10.9	20.9
10 18	2 35.14	+ 8 57.6	1.475	2.450	6.3	20.7
10 28	2 25.10	+ 8 5.2	1.483	2.473	2.5	20.5
11 7	2 15.11	+ 7 19.0	1.518	2.495	4.8	20.7
11 17	2 6.34	+ 6 44.5	1.580	2.517	9.1	21.0
11 27	1 59.71	+ 6 25.5	1.668	2.539	12.9	21.3
12 7	1 55.70	+ 6 23.4	1.777	2.560	16.1	21.6

266050 2006 KL_{107} 10 31.1 185°.56 0°.5/31.6 18

9 28	2 43.46	+17 38.8	2.447	3.288	11.0	21.1
10 8	2 38.43	+17 17.8	2.371	3.288	8.1	20.9
10 18	2 31.86	+16 47.9	2.320	3.288	4.9	20.7
10 28	2 24.34	+16 11.0	2.297	3.288	1.4	20.5
11 7	2 16.65	+15 30.6	2.303	3.288	2.4	20.6
11 17	2 9.53	+14 50.7	2.339	3.287	5.8	20.8
11 27	2 3.70	+14 15.4	2.403	3.287	9.0	21.0
12 7	1 59.63	+13 48.2	2.492	3.287	11.7	21.2

151428 2002 FO_{10} 10 31.1 179°.19 3°.1/28.2 18

9 28	2 44.26	+ 5 33.3	2.398	3.258	10.5	20.3
10 8	2 38.94	+ 4 51.4	2.331	3.259	7.7	20.2
10 18	2 32.12	+ 4 8.4	2.290	3.259	4.8	20.0
10 28	2 24.40	+ 3 28.4	2.277	3.259	3.1	19.9
11 7	2 16.53	+ 2 55.6	2.294	3.259	4.7	20.0
11 17	2 9.27	+ 2 33.4	2.340	3.259	7.5	20.2
11 27	2 3.28	+ 2 24.1	2.412	3.259	10.4	20.3
12 7	1 59.02	+ 2 28.5	2.507	3.258	12.8	20.5

65097 2002 CC_4 10 31.1 50°.86 5°.9/21.6 18

9 28	2 38.03	−16 31.9	4.106	4.924	7.4	19.1
10 8	2 33.92	−17 14.6	4.065	4.928	6.5	19.0
10 18	2 29.01	−17 48.5	4.050	4.932	5.9	19.0
10 28	2 23.64	−18 10.7	4.062	4.937	6.0	19.0
11 7	2 18.22	−18 19.1	4.100	4.941	6.7	19.0
11 17	2 13.15	−18 12.9	4.163	4.945	7.6	19.1
11 27	2 8.80	−17 52.2	4.249	4.950	8.7	19.2
12 7	2 5.45	−17 18.2	4.355	4.954	9.7	19.3

6264 1980 SQ 10 31.1 10°.44 0°.4/31.4 18

9 28	2 44.05	+18 46.3	1.052	1.934	19.2	16.5
10 8	2 40.36	+18 1.4	0.997	1.935	14.3	16.2
10 18	2 33.55	+16 55.3	0.962	1.937	8.5	15.9
10 28	2 24.79	+15 33.7	0.948	1.940	2.2	15.6
11 7	2 15.73	+14 6.7	0.959	1.944	4.2	15.7
11 17	2 8.03	+12 46.0	0.993	1.949	10.3	16.1
11 27	2 3.01	+11 42.2	1.049	1.955	15.6	16.4
12 7	2 1.33	+11 1.3	1.123	1.962	20.0	16.7

298204 2002 TJ_{298} 10 31.1 354°.43 3°.0/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 43.92	+20 13.5	1.236	2.106	17.8	19.6
10 8	2 40.17	+20 39.3	1.169	2.098	13.6	19.3
10 18	2 33.48	+20 49.4	1.123	2.091	8.7	19.0
10 28	2 24.81	+20 43.6	1.098	2.086	4.0	18.8
11 7	2 15.60	+20 25.0	1.098	2.083	4.3	18.8
11 17	2 7.44	+19 59.5	1.123	2.081	9.1	19.1
11 27	2 1.69	+19 34.9	1.170	2.081	13.9	19.3
12 7	1 59.17	+19 17.9	1.237	2.083	18.1	19.6

173031 2006 QM_{29} 10 31.1 90°.77 1°.8/29.8 18

9 28	2 47.65	+10 33.0	1.879	2.739	13.0	20.2
10 8	2 41.64	+10 3.0	1.826	2.755	9.4	20.0
10 18	2 33.74	+ 9 28.0	1.797	2.771	5.4	19.8
10 28	2 24.78	+ 8 52.2	1.797	2.787	2.0	19.6
11 7	2 15.76	+ 8 20.1	1.824	2.803	4.0	19.8
11 17	2 7.65	+ 7 56.1	1.881	2.818	7.8	20.1
11 27	2 1.26	+ 7 43.4	1.963	2.834	11.3	20.3
12 7	1 57.08	+ 7 43.8	2.068	2.849	14.2	20.6

421588 2014 OS_{201} 10 31.1 19°.58 0°.2/31.3 17

9 28	2 44.06	+16 46.1	1.856	2.712	13.4	21.3
10 8	2 39.25	+16 21.7	1.790	2.715	9.8	21.1
10 18	2 32.47	+15 46.6	1.746	2.718	5.8	20.8
10 28	2 24.51	+15 3.7	1.730	2.722	1.5	20.6
11 7	2 16.34	+14 17.9	1.741	2.726	3.0	20.7
11 17	2 8.97	+13 34.4	1.781	2.731	7.2	21.0
11 27	2 3.27	+12 58.6	1.846	2.735	10.9	21.2
12 7	1 59.78	+12 34.2	1.935	2.741	14.1	21.4

323244 2003 SK_{205} 10 31.1 58°.05 1°.6/ 1.4 18

9 28	2 46.72	+20 2.5	1.987	2.826	13.3	20.4
10 8	2 40.93	+19 56.0	1.937	2.850	9.9	20.3
10 18	2 33.31	+19 37.6	1.910	2.874	6.1	20.1
10 28	2 24.68	+19 9.2	1.910	2.899	2.4	19.9
11 7	2 16.01	+18 34.5	1.939	2.923	2.8	20.0
11 17	2 8.25	+17 58.0	1.996	2.947	6.4	20.2
11 27	2 2.18	+17 25.0	2.081	2.972	9.8	20.5
12 7	1 58.27	+16 59.3	2.189	2.996	12.7	20.7

143217 2002 YA_{3} 10 31.1 349°.73 7°.6/26.1 18

9 28	2 43.85	− 2 6.7	1.470	2.352	14.7	19.0
10 8	2 39.43	− 3 9.4	1.414	2.345	11.4	18.8
10 18	2 32.71	− 4 5.8	1.380	2.340	8.5	18.6
10 28	2 24.58	− 4 47.6	1.371	2.335	7.7	18.6
11 7	2 16.19	− 5 7.8	1.386	2.331	9.5	18.7
11 17	2 8.73	− 5 2.6	1.426	2.328	12.7	18.9
11 27	2 3.20	− 4 31.5	1.487	2.326	16.0	19.1
12 7	2 0.22	− 3 37.3	1.567	2.325	19.0	19.3

411094 2009 WE_{8} 10 31.1 115°.82 1°.1/31.9 18

9 28	2 46.57	+17 52.0	2.329	3.166	11.6	21.0
10 8	2 40.79	+17 59.0	2.254	3.168	8.7	20.8
10 18	2 33.29	+17 57.6	2.204	3.170	5.3	20.6
10 28	2 24.71	+17 48.7	2.181	3.171	1.8	20.3
11 7	2 15.90	+17 34.7	2.189	3.173	2.5	20.4
11 17	2 7.72	+17 18.7	2.226	3.175	6.0	20.6
11 27	2 0.94	+17 4.4	2.290	3.176	9.2	20.8
12 7	1 56.11	+16 55.3	2.380	3.178	12.1	21.0

169076 2001 GY_{10} 10 31.1 140°.85 1°.7/30.0 18

9 28	2 49.39	+ 9 46.6	1.894	2.752	13.0	20.0
10 8	2 43.05	+ 9 38.3	1.828	2.756	9.5	19.8
10 18	2 34.67	+ 9 26.3	1.786	2.759	5.5	19.6
10 28	2 25.05	+ 9 13.5	1.772	2.763	1.9	19.4
11 7	2 15.20	+ 9 3.5	1.786	2.766	3.9	19.5
11 17	2 6.18	+ 8 59.7	1.830	2.769	7.9	19.8
11 27	1 58.89	+ 9 5.1	1.899	2.772	11.5	20.0
12 7	1 53.92	+ 9 21.2	1.991	2.774	14.6	20.2

386439 2008 WV_{43} 10 31.1 55°.69 0°.4/30.9 18

9 28	2 49.68	+14 42.7	1.399	2.265	16.3	20.4
10 8	2 43.56	+14 25.4	1.358	2.289	11.9	20.2
10 18	2 34.99	+13 57.8	1.339	2.313	6.8	20.0
10 28	2 25.09	+13 24.0	1.345	2.337	1.6	19.7
11 7	2 15.23	+12 49.4	1.378	2.362	3.7	19.9
11 17	2 6.67	+12 20.0	1.437	2.387	8.6	20.3
11 27	2 0.40	+12 0.8	1.522	2.412	12.8	20.6
12 7	1 56.94	+11 54.9	1.627	2.436	16.2	20.9

306480 1999 TR_{14} 10 31.1 33°.73 4°.6/ 3.5 18

9 28	2 47.53	+27 7.3	1.906	2.721	14.7	19.9
10 8	2 41.96	+27 33.0	1.837	2.727	11.6	19.7
10 18	2 34.16	+27 41.8	1.790	2.734	8.3	19.5
10 28	2 24.96	+27 32.7	1.768	2.741	5.3	19.4
11 7	2 15.47	+27 7.6	1.774	2.748	4.8	19.3
11 17	2 6.83	+26 30.8	1.807	2.755	7.2	19.5
11 27	2 0.04	+25 48.8	1.867	2.763	10.4	19.7
12 7	1 55.73	+25 8.3	1.950	2.771	13.5	19.9

396915 2005 EK_{60} 10 31.1 205°.46 1°.3/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 45.68	+12 56.4	2.243	3.095	11.5	21.8
10 8	2 40.16	+12 9.5	2.165	3.091	8.4	21.6
10 18	2 32.93	+11 15.1	2.113	3.085	4.8	21.4
10 28	2 24.65	+10 16.8	2.088	3.080	1.5	21.1
11 7	2 16.15	+ 9 19.6	2.094	3.074	3.4	21.3
11 17	2 8.29	+ 8 28.5	2.129	3.067	7.0	21.5
11 27	2 1.84	+ 7 48.0	2.192	3.060	10.4	21.7
12 7	1 57.31	+ 7 20.9	2.278	3.052	13.3	21.9

452002 2014 OG_{48} 10 31.1 61°.43 0°.6/30.6 18

9 28	2 45.35	+13 44.2	1.999	2.855	12.5	21.4
10 8	2 40.01	+13 22.8	1.937	2.863	9.1	21.2
10 18	2 32.85	+12 54.2	1.899	2.872	5.3	21.0
10 28	2 24.62	+12 21.3	1.889	2.881	1.3	20.8
11 7	2 16.25	+11 48.5	1.907	2.890	3.1	20.9
11 17	2 8.66	+11 19.9	1.954	2.899	7.0	21.2
11 27	2 2.64	+10 59.5	2.028	2.908	10.5	21.4
12 7	1 58.71	+10 50.1	2.125	2.918	13.5	21.6

36248 1999 VA_{176} 10 31.1 139°.58 1°.6/29.8 18

9 28	2 46.13	+ 9 50.5	2.321	3.175	11.1	18.6
10 8	2 40.36	+ 9 32.7	2.254	3.180	8.0	18.4
10 18	2 32.99	+ 9 11.5	2.212	3.185	4.7	18.2
10 28	2 24.66	+ 8 49.7	2.199	3.189	1.7	18.0
11 7	2 16.17	+ 8 30.6	2.216	3.194	3.4	18.2
11 17	2 8.34	+ 8 17.4	2.262	3.198	6.8	18.4
11 27	2 1.88	+ 8 12.8	2.336	3.202	9.9	18.6
12 7	1 57.27	+ 8 18.4	2.433	3.206	12.5	18.8

396477 2014 FG_{37} 10 31.1 242°.45 0°.8/30.5 18

9 28	2 45.59	+14 47.2	1.874	2.731	13.2	20.9
10 8	2 40.42	+14 2.4	1.797	2.724	9.7	20.7
10 18	2 33.22	+13 7.1	1.744	2.717	5.6	20.4
10 28	2 24.74	+12 5.4	1.718	2.711	1.4	20.1
11 7	2 15.98	+11 3.0	1.721	2.703	3.5	20.3
11 17	2 7.97	+10 6.0	1.753	2.696	7.8	20.5
11 27	2 1.61	+ 9 20.3	1.810	2.689	11.7	20.7
12 7	1 57.52	+ 8 49.5	1.890	2.681	15.0	21.0

328904 2010 TR_{40} 10 31.1 231°.76 2°.3/ 1.6 18

9 28	2 50.64	+21 15.7	1.561	2.403	16.1	21.6
10 8	2 44.67	+21 8.6	1.481	2.395	12.3	21.4
10 18	2 35.97	+20 44.7	1.423	2.387	7.8	21.1
10 28	2 25.45	+20 4.9	1.390	2.378	3.3	20.8
11 7	2 14.44	+19 13.3	1.385	2.369	3.7	20.8
11 17	2 4.35	+18 16.7	1.407	2.359	8.3	21.1
11 27	1 56.45	+17 23.5	1.454	2.349	12.9	21.3
12 7	1 51.51	+16 40.7	1.523	2.339	16.8	21.6

228562 2001 XD_{153} 10 31.1 41°.63 0°.3/31.3 18

9 28	2 46.68	+17 53.5	1.198	2.070	18.0	18.9
10 8	2 41.74	+17 13.7	1.157	2.090	13.2	18.7
10 18	2 34.09	+16 17.7	1.136	2.110	7.7	18.5
10 28	2 24.93	+15 11.0	1.139	2.131	2.0	18.2
11 7	2 15.79	+14 2.0	1.168	2.153	3.8	18.4
11 17	2 8.05	+12 59.6	1.221	2.175	9.2	18.7
11 27	2 2.79	+12 11.5	1.299	2.198	13.8	19.1
12 7	2 0.51	+11 41.9	1.396	2.221	17.6	19.4

32509 2001 MW_{29} 10 31.1 130°.37 4°.0/ 4.1 18

9 28	2 47.07	+29 25.5	2.199	2.995	13.6	18.2
10 8	2 41.29	+29 7.3	2.126	3.005	10.8	18.0
10 18	2 33.62	+28 30.5	2.076	3.014	7.7	17.8
10 28	2 24.84	+27 35.7	2.052	3.023	4.9	17.7
11 7	2 15.93	+26 26.4	2.058	3.032	4.1	17.6
11 17	2 7.84	+25 8.2	2.092	3.040	6.4	17.8
11 27	2 1.42	+23 48.4	2.155	3.048	9.4	18.0
12 7	1 57.17	+22 34.0	2.243	3.056	12.2	18.2

187781 1998 SM_{112} 10 31.1 6°.90 6°.0/27.5 18

9 28	2 41.40	+ 6 7.2	1.001	1.905	17.9	18.7
10 8	2 38.35	+ 4 45.7	0.956	1.906	13.2	18.5
10 18	2 32.35	+ 3 20.3	0.930	1.907	8.4	18.2
10 28	2 24.57	+ 2 2.7	0.927	1.910	6.0	18.1
11 7	2 16.56	+ 1 4.2	0.946	1.915	8.8	18.3
11 17	2 9.83	+ 0 32.7	0.987	1.922	13.5	18.6
11 27	2 5.63	+ 0 31.4	1.048	1.930	17.9	18.9
12 7	2 4.55	+ 0 58.6	1.126	1.939	21.7	19.1

178185 2006 UM_{161} 10 31.1 279°.72 1°.9/29.5 18

9 28	2 43.84	+12 14.7	1.968	2.830	12.4	20.4
10 8	2 39.13	+11 15.9	1.882	2.813	9.1	20.1
10 18	2 32.49	+10 8.0	1.822	2.796	5.3	19.9
10 28	2 24.60	+ 8 55.7	1.788	2.779	2.0	19.6
11 7	2 16.39	+ 7 45.3	1.784	2.762	4.2	19.7
11 17	2 8.79	+ 6 43.2	1.808	2.745	8.2	19.9
11 27	2 2.70	+ 5 55.0	1.858	2.727	11.9	20.1
12 7	1 58.72	+ 5 23.9	1.930	2.710	15.1	20.3

109909 2001 SR_{24} 10 31.1 166°.80 3°.3/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 48.47	+25 1.4	2.218	3.030	13.0	19.2
10 8	2 42.37	+25 12.5	2.140	3.033	10.1	19.0
10 18	2 34.32	+25 9.5	2.086	3.035	6.9	18.8
10 28	2 25.03	+24 52.3	2.059	3.037	4.0	18.6
11 7	2 15.48	+24 22.9	2.061	3.039	3.7	18.6
11 17	2 6.63	+23 45.4	2.092	3.040	6.4	18.8
11 27	1 59.38	+23 5.2	2.151	3.041	9.5	19.0
12 7	1 54.32	+22 27.9	2.234	3.042	12.4	19.2

103499 2000 AO_{244} 10 31.1 332°.69 6°.6/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.24	− 1 31.4	1.470	2.343	15.2	18.9
10 8	2 43.52	− 1 50.3	1.403	2.332	11.7	18.7
10 18	2 35.23	− 2 1.8	1.359	2.321	8.3	18.5
10 28	2 25.28	− 1 59.5	1.339	2.311	6.6	18.4
11 7	2 14.94	− 1 38.6	1.345	2.302	8.4	18.4
11 17	2 5.53	− 0 57.0	1.377	2.294	12.0	18.6
11 27	1 58.22	+ 0 4.9	1.432	2.286	15.7	18.8
12 7	1 53.71	+ 1 24.3	1.506	2.279	19.0	19.0

259450 2003 SK_{68} 10 31.1 231°.82 4°.0/ 3.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.11	+28 10.9	2.376	3.175	12.6	20.6
10 8	2 40.63	+28 21.3	2.292	3.172	10.1	20.5
10 18	2 33.30	+28 16.6	2.232	3.170	7.2	20.3
10 28	2 24.80	+27 56.1	2.198	3.167	4.7	20.1
11 7	2 16.01	+27 21.7	2.192	3.164	4.2	20.1
11 17	2 7.86	+26 37.2	2.215	3.161	6.2	20.2
11 27	2 1.17	+25 48.0	2.267	3.158	9.1	20.4
12 7	1 56.53	+24 59.9	2.343	3.155	11.8	20.6

214528 2006 KS_{41} 10 31.1 138°.46 5°.8/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.69	− 2 0.8	1.951	2.809	12.7	20.1
10 8	2 43.12	− 2 35.3	1.896	2.816	9.7	20.0
10 18	2 34.65	− 3 3.9	1.866	2.823	7.0	19.8
10 28	2 25.10	− 3 21.3	1.863	2.829	5.9	19.8
11 7	2 15.45	− 3 23.3	1.889	2.835	7.3	19.9
11 17	2 6.65	− 3 7.9	1.941	2.840	10.1	20.1
11 27	1 59.53	− 2 34.9	2.019	2.846	12.9	20.3
12 7	1 54.63	− 1 45.9	2.118	2.851	15.4	20.5

480318 2015 HL_{176} 10 31.1 338°.02 0°.9/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.24	+16 17.7	1.378	2.241	16.7	20.5
10 8	2 44.54	+16 29.1	1.310	2.237	12.5	20.3
10 18	2 35.96	+16 29.3	1.263	2.234	7.5	20.0
10 28	2 25.48	+16 19.7	1.240	2.232	2.2	19.7
11 7	2 14.54	+16 3.8	1.244	2.229	3.7	19.8
11 17	2 4.65	+15 46.8	1.274	2.227	9.0	20.1
11 27	1 57.11	+15 34.9	1.329	2.225	13.7	20.3
12 7	1 52.71	+15 32.9	1.403	2.224	17.8	20.6

224181 2005 QG_{158} 10 31.1 337°.33 1°.3/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.31	+16 51.5	1.334	2.198	17.0	20.1
10 8	2 43.98	+17 7.4	1.264	2.192	12.8	19.9
10 18	2 35.70	+17 11.5	1.215	2.186	7.8	19.6
10 28	2 25.44	+17 4.9	1.190	2.181	2.5	19.2
11 7	2 14.64	+16 50.8	1.191	2.177	3.8	19.3
11 17	2 4.88	+16 34.5	1.218	2.172	9.1	19.6
11 27	1 57.51	+16 22.4	1.269	2.169	14.0	19.9
12 7	1 53.35	+16 19.7	1.340	2.166	18.1	20.2

449875 2015 ML_{66} 10 31.1 95°.91 3°.0/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.96	+ 8 7.7	1.824	2.689	13.1	21.0
10 8	2 41.20	+ 7 16.5	1.773	2.704	9.5	20.8
10 18	2 33.55	+ 6 22.1	1.746	2.719	5.7	20.6
10 28	2 24.83	+ 5 29.7	1.747	2.734	3.1	20.5
11 7	2 16.07	+ 4 45.1	1.776	2.748	5.0	20.7
11 17	2 8.21	+ 4 12.9	1.833	2.762	8.6	20.9
11 27	2 2.09	+ 3 56.3	1.916	2.776	12.0	21.2
12 7	1 58.18	+ 3 56.1	2.020	2.790	14.9	21.4

226407 2003 QU_{77} 10 31.1 2°.94 3°.9/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.97	+24 59.2	1.518	2.364	16.3	19.0
10 8	2 38.30	+25 3.2	1.452	2.363	12.7	18.7
10 18	2 32.20	+24 47.6	1.405	2.363	8.7	18.5
10 28	2 24.56	+24 13.0	1.383	2.365	4.9	18.3
11 7	2 16.60	+23 23.4	1.386	2.368	4.4	18.3
11 17	2 9.57	+22 25.4	1.415	2.372	7.8	18.5
11 27	2 4.57	+21 27.3	1.469	2.377	11.8	18.7
12 7	2 2.23	+20 36.7	1.544	2.384	15.4	19.0

258769 2002 JJ_{29} 10 31.1 114°.76 0°.0/30.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.65	+16 47.1	1.581	2.434	15.4	21.0
10 8	2 44.20	+16 8.9	1.527	2.450	11.3	20.8
10 18	2 35.41	+15 18.0	1.494	2.466	6.6	20.5
10 28	2 25.29	+14 18.6	1.489	2.481	1.6	20.2
11 7	2 15.10	+13 17.1	1.512	2.496	3.5	20.4
11 17	2 6.06	+12 20.3	1.562	2.510	8.2	20.7
11 27	1 59.15	+11 34.9	1.639	2.523	12.3	21.0
12 7	1 54.92	+11 4.7	1.737	2.536	15.8	21.3

15086 1999 CH_{60} 10 31.1 318°.12 0°.5/30.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 42.90	+14 34.8	2.085	2.942	12.0	18.9
10 8	2 38.35	+14 7.5	2.003	2.930	8.8	18.6
10 18	2 32.00	+13 31.7	1.946	2.919	5.2	18.4
10 28	2 24.50	+12 50.5	1.915	2.907	1.2	18.1
11 7	2 16.71	+12 8.0	1.913	2.896	3.0	18.2
11 17	2 9.51	+11 29.0	1.940	2.886	7.0	18.5
11 27	2 3.74	+10 58.2	1.993	2.876	10.6	18.7
12 7	1 59.97	+10 38.9	2.069	2.866	13.7	18.9

514793 2007 MW_{6} 10 31.1 137°.19 5°.6/24.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.07	− 5 50.6	2.905	3.754	9.2	22.5
10 8	2 37.81	− 6 53.2	2.860	3.767	7.3	22.4
10 18	2 31.39	− 7 49.7	2.841	3.779	5.9	22.3
10 28	2 24.31	− 8 35.5	2.851	3.790	5.6	22.3
11 7	2 17.19	− 9 7.2	2.889	3.801	6.7	22.4
11 17	2 10.62	− 9 22.7	2.955	3.812	8.4	22.5
11 27	2 5.10	− 9 21.3	3.046	3.822	10.2	22.7
12 7	2 1.02	− 9 4.1	3.158	3.831	11.9	22.8

177558 2004 FQ_{98} 10 31.1 81°.70 0°.7/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.93	+13 34.2	1.892	2.749	13.1	20.2
10 8	2 41.25	+13 14.0	1.832	2.758	9.5	20.0
10 18	2 33.64	+12 46.4	1.795	2.768	5.5	19.8
10 28	2 24.88	+12 14.5	1.785	2.778	1.3	19.6
11 7	2 15.98	+11 42.6	1.805	2.787	3.3	19.7
11 17	2 7.92	+11 15.3	1.852	2.797	7.3	20.0
11 27	2 1.55	+10 56.5	1.926	2.807	11.0	20.3
12 7	1 57.41	+10 49.2	2.023	2.816	14.1	20.5

409799 2006 HQ_{28} 10 31.1 173°.70 4°.3/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.72	+ 3 8.8	2.295	3.155	11.0	22.3
10 8	2 40.06	+ 1 57.1	2.233	3.158	8.1	22.1
10 18	2 32.84	+ 0 45.2	2.197	3.161	5.5	22.0
10 28	2 24.69	− 0 21.1	2.190	3.163	4.3	21.9
11 7	2 16.42	− 1 16.4	2.212	3.164	5.9	22.0
11 17	2 8.80	− 1 56.5	2.263	3.165	8.7	22.2
11 27	2 2.55	− 2 19.1	2.340	3.165	11.4	22.4
12 7	1 58.12	− 2 23.7	2.439	3.165	13.8	22.5

43771 1988 TJ 10 31.1 2°.26 4°.0/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.24	+21 52.7	1.135	1.999	19.4	17.7
10 8	2 43.62	+22 27.5	1.073	1.997	15.0	17.4
10 18	2 35.66	+22 43.8	1.031	1.996	9.9	17.1
10 28	2 25.46	+22 40.2	1.011	1.997	5.1	16.9
11 7	2 14.72	+22 19.5	1.015	1.998	5.0	16.9
11 17	2 5.25	+21 48.1	1.043	2.000	9.7	17.1
11 27	1 58.57	+21 15.4	1.093	2.004	14.7	17.4
12 7	1 55.51	+20 49.8	1.162	2.008	19.0	17.7

186379 2002 GE_{176} 10 31.1 65°.12 2°.3/29.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.41	+10 57.4	2.008	2.870	12.2	19.7
10 8	2 39.12	+ 9 45.6	1.967	2.898	8.7	19.6
10 18	2 32.23	+ 8 28.7	1.951	2.925	5.0	19.4
10 28	2 24.52	+ 7 12.4	1.964	2.953	2.3	19.3
11 7	2 16.86	+ 6 2.8	2.006	2.980	4.3	19.5
11 17	2 10.07	+ 5 5.1	2.076	3.007	7.7	19.7
11 27	2 4.82	+ 4 23.0	2.173	3.034	10.8	20.0
12 7	2 1.52	+ 3 57.9	2.293	3.061	13.4	20.2

196880 2003 SY_{307} 10 31.1 102°.63 4°.1/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.40	+28 9.4	2.324	3.124	12.9	20.3
10 8	2 40.85	+28 22.3	2.246	3.127	10.2	20.1
10 18	2 33.44	+28 19.8	2.191	3.129	7.3	19.9
10 28	2 24.86	+28 1.4	2.162	3.131	4.8	19.8
11 7	2 16.03	+27 29.0	2.162	3.134	4.3	19.7
11 17	2 7.87	+26 46.3	2.190	3.136	6.3	19.9
11 27	2 1.22	+25 59.0	2.246	3.138	9.1	20.1
12 7	1 56.66	+25 12.8	2.327	3.140	11.8	20.2

82277 2001 KC_{24} 10 31.1 68°.77 0°.9/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.64	+13 25.9	1.357	2.224	16.7	18.9
10 8	2 45.07	+13 5.9	1.316	2.247	12.1	18.7
10 18	2 35.96	+12 36.8	1.296	2.271	7.0	18.5
10 28	2 25.45	+12 2.8	1.302	2.294	1.7	18.2
11 7	2 14.97	+11 29.8	1.334	2.318	4.1	18.4
11 17	2 5.87	+11 3.5	1.394	2.341	9.0	18.8
11 27	1 59.18	+10 48.8	1.477	2.364	13.3	19.1
12 7	1 55.40	+10 48.2	1.582	2.387	16.8	19.4

299103 2005 EZ_{111} 10 31.1 216°.38 4°.1/27.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.66	+ 4 42.5	2.025	2.891	12.0	20.9
10 8	2 40.28	+ 3 43.1	1.956	2.886	8.8	20.7
10 18	2 33.09	+ 2 42.2	1.912	2.881	5.7	20.5
10 28	2 24.78	+ 1 45.5	1.896	2.875	4.1	20.4
11 7	2 16.26	+ 0 58.7	1.908	2.869	5.9	20.5
11 17	2 8.42	+ 0 26.5	1.948	2.863	9.1	20.6
11 27	2 2.09	+ 0 11.7	2.014	2.857	12.3	20.8
12 7	1 57.81	+ 0 15.0	2.101	2.850	15.0	21.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
368034 2012 GK_{34}			10 31.1	203°.41	0°.0/31.0	18
	h m	° ′			°	m
9 28	2 43.00	+16 54.0	2.565	3.407	10.6	20.9
10 8	2 38.08	+16 14.7	2.485	3.404	7.7	20.7
10 18	2 31.70	+15 26.4	2.432	3.401	4.6	20.5
10 28	2 24.44	+14 31.9	2.407	3.399	1.1	20.2
11 7	2 17.01	+13 35.1	2.412	3.395	2.4	20.3
11 17	2 10.13	+12 40.4	2.447	3.392	5.8	20.6
11 27	2 4.46	+11 52.4	2.510	3.389	8.8	20.7
12 7	2 0.45	+11 14.2	2.598	3.385	11.5	20.9
128511 2004 PO_{37}			10 31.1	28°.70	0°.7/30.6	18
9 28	2 44.16	+14 19.5	1.784	2.646	13.5	19.7
10 8	2 39.37	+13 47.5	1.723	2.653	9.8	19.5
10 18	2 32.60	+13 6.7	1.685	2.659	5.7	19.3
10 28	2 24.66	+12 20.7	1.674	2.667	1.4	19.0
11 7	2 16.56	+11 34.9	1.691	2.674	3.4	19.2
11 17	2 9.30	+10 54.6	1.736	2.682	7.6	19.5
11 27	2 3.74	+10 24.7	1.806	2.691	11.4	19.7
12 7	2 0.41	+10 8.2	1.898	2.699	14.6	20.0
220097 2002 SM_{45}			10 31.1	11°.95	1°.2/31.7	18
9 28	2 43.97	+16 40.0	0.901	1.796	20.4	19.6
10 8	2 40.67	+16 52.0	0.856	1.800	15.2	19.3
10 18	2 33.93	+16 48.1	0.829	1.806	9.1	19.0
10 28	2 25.03	+16 31.0	0.822	1.814	2.7	18.7
11 7	2 15.82	+16 6.7	0.838	1.824	4.3	18.8
11 17	2 8.14	+15 43.1	0.875	1.836	10.5	19.2
11 27	2 3.42	+15 28.1	0.933	1.850	15.9	19.6
12 7	2 2.33	+15 27.0	1.009	1.866	20.4	19.9
272815 2006 AQ_{48}			10 31.1	63°.40	10°.1/24.8	18
9 28	2 48.77	− 8 9.8	1.446	2.313	15.8	19.8
10 8	2 42.64	− 9 41.3	1.426	2.340	12.7	19.7
10 18	2 34.37	−10 57.0	1.429	2.367	10.5	19.6
10 28	2 25.04	−11 47.8	1.457	2.393	10.2	19.7
11 7	2 15.90	−12 8.2	1.508	2.420	11.7	19.8
11 17	2 8.04	−11 57.4	1.583	2.447	14.0	20.0
11 27	2 2.31	−11 18.0	1.679	2.473	16.5	20.3
12 7	1 59.13	−10 15.4	1.792	2.500	18.6	20.5
436516 2011 FA_{51}			10 31.1	244°.88	4°.1/28.3	18
9 28	2 47.36	+ 6 27.5	1.620	2.492	14.1	20.8
10 8	2 41.94	+ 5 31.3	1.552	2.486	10.4	20.6
10 18	2 34.24	+ 4 31.5	1.508	2.480	6.5	20.4
10 28	2 25.09	+ 3 34.6	1.489	2.473	4.1	20.2
11 7	2 15.64	+ 2 47.8	1.498	2.467	6.3	20.3
11 17	2 7.05	+ 2 16.7	1.534	2.460	10.2	20.5
11 27	2 0.34	+ 2 5.0	1.594	2.453	14.1	20.8
12 7	1 56.17	+ 2 13.5	1.674	2.446	17.4	21.0
151509 2002 NK_{48}			10 31.1	30°.13	3°.5/29.4	18
9 28	2 46.65	+ 9 20.0	0.942	1.840	19.4	19.2
10 8	2 42.13	+ 8 41.6	0.910	1.857	14.0	18.9
10 18	2 34.49	+ 7 57.7	0.897	1.876	8.2	18.7
10 28	2 25.12	+ 7 16.2	0.905	1.895	3.6	18.5
11 7	2 15.79	+ 6 45.4	0.937	1.916	6.4	18.8
11 17	2 8.11	+ 6 31.6	0.991	1.939	11.7	19.1
11 27	2 3.24	+ 6 38.0	1.066	1.962	16.5	19.5
12 7	2 1.70	+ 7 4.3	1.159	1.986	20.3	19.8
511959 2015 KU_{9}			10 31.1	18°.68	10°.3/24.9	18
9 28	2 42.93	− 4 30.4	1.118	2.013	17.3	19.1
10 8	2 39.09	− 6 7.1	1.087	2.021	13.7	18.9
10 18	2 32.62	− 7 31.3	1.076	2.031	11.0	18.8
10 28	2 24.68	− 8 30.8	1.086	2.042	10.5	18.8
11 7	2 16.69	− 8 57.5	1.120	2.055	12.4	18.9
11 17	2 9.99	− 8 48.6	1.174	2.069	15.5	19.2
11 27	2 5.61	− 8 6.3	1.248	2.084	18.7	19.4
12 7	2 4.07	− 6 56.6	1.337	2.100	21.4	19.7
452731 2006 AP_{91}			10 31.2	177°.24	4°.6/26.9	18
9 28	2 43.91	+ 1 0.5	2.325	3.187	10.7	21.0
10 8	2 38.77	+ 0 10.0	2.263	3.188	8.1	20.9
10 18	2 32.12	− 0 38.3	2.226	3.188	5.6	20.7
10 28	2 24.57	− 1 19.6	2.218	3.188	4.6	20.6
11 7	2 16.87	− 1 49.5	2.238	3.189	6.0	20.7
11 17	2 9.79	− 2 4.9	2.286	3.189	8.6	20.9
11 27	2 4.01	− 2 4.1	2.360	3.188	11.2	21.1
12 7	1 59.97	− 1 47.3	2.455	3.188	13.5	21.2
29401 Asterix			10 31.2	23°.59	0°.5/30.8	18
9 28	2 45.96	+14 3.2	1.726	2.588	13.9	18.3
10 8	2 40.80	+13 45.8	1.662	2.591	10.2	18.1
10 18	2 33.51	+13 19.9	1.621	2.595	5.9	17.9
10 28	2 24.93	+12 48.8	1.607	2.599	1.4	17.6
11 7	2 16.12	+12 17.0	1.620	2.604	3.4	17.8
11 17	2 8.17	+11 49.4	1.661	2.609	7.8	18.0
11 27	2 2.03	+11 30.7	1.727	2.614	11.7	18.3
12 7	1 58.26	+11 24.0	1.816	2.619	15.0	18.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
350045 2010 LT_{106}			10 31.2	147°.69	2°.3/ 2.3	18
	h m	° ′			°	m
9 28	2 46.72	+24 28.5	2.059	2.881	13.5	20.9
10 8	2 41.11	+23 48.9	1.986	2.887	10.3	20.8
10 18	2 33.59	+22 52.3	1.936	2.893	6.7	20.5
10 28	2 24.94	+21 41.0	1.914	2.899	3.2	20.3
11 7	2 16.15	+20 19.8	1.921	2.904	3.0	20.3
11 17	2 8.18	+18 55.5	1.958	2.909	6.4	20.6
11 27	2 1.89	+17 35.4	2.022	2.914	10.0	20.8
12 7	1 57.79	+16 25.6	2.111	2.918	13.1	21.0
383463 2006 YK_{12}			10 31.2	230°.11	5°.1/ 4.1	18
9 28	2 50.33	+29 45.9	1.878	2.678	15.5	21.3
10 8	2 44.30	+29 51.2	1.789	2.668	12.5	21.0
10 18	2 35.75	+29 35.8	1.721	2.658	9.1	20.8
10 28	2 25.52	+28 58.1	1.679	2.647	6.0	20.6
11 7	2 14.82	+28 0.1	1.664	2.636	5.3	20.5
11 17	2 4.93	+26 47.6	1.677	2.624	7.8	20.7
11 27	1 57.01	+25 29.1	1.717	2.611	11.3	20.9
12 7	1 51.81	+24 13.6	1.780	2.598	14.7	21.0
227235 2005 SD_{6}			10 31.2	78°.67	1°.2/ 1.0	18
9 28	2 49.52	+19 57.4	1.486	2.337	16.3	20.9
10 8	2 43.51	+19 25.7	1.436	2.356	12.1	20.7
10 18	2 35.08	+18 38.0	1.408	2.376	7.4	20.5
10 28	2 25.29	+17 37.7	1.405	2.396	2.4	20.2
11 7	2 15.48	+16 31.4	1.430	2.415	3.3	20.3
11 17	2 6.89	+15 26.9	1.482	2.434	8.0	20.7
11 27	2 0.53	+14 31.8	1.559	2.453	12.3	20.9
12 7	1 56.94	+13 51.0	1.659	2.472	15.8	21.2
102624 1999 VZ_{26}			10 31.2	285°.02	1°.9/ 1.8	18
9 28	2 44.91	+23 4.6	1.776	2.614	14.6	19.6
10 8	2 40.23	+22 20.4	1.688	2.600	11.2	19.3
10 18	2 33.30	+21 16.9	1.623	2.587	7.1	19.0
10 28	2 24.92	+19 56.3	1.585	2.573	3.0	18.8
11 7	2 16.15	+18 24.3	1.574	2.559	3.2	18.7
11 17	2 8.16	+16 49.2	1.591	2.545	7.5	19.0
11 27	2 1.96	+15 20.1	1.635	2.531	11.7	19.2
12 7	1 58.22	+14 4.5	1.703	2.517	15.4	19.4
351417 2005 GJ_{25}			10 31.2	276°.08	0°.0/31.1	18
9 28	2 46.01	+16 0.2	1.819	2.674	13.6	21.5
10 8	2 40.85	+15 32.3	1.744	2.670	10.0	21.3
10 18	2 33.57	+14 53.6	1.693	2.665	5.9	21.0
10 28	2 24.97	+14 7.2	1.668	2.660	1.4	20.7
11 7	2 16.07	+13 18.1	1.671	2.656	3.2	20.9
11 17	2 7.94	+12 32.0	1.703	2.651	7.6	21.1
11 27	2 1.53	+11 54.5	1.760	2.646	11.6	21.3
12 7	1 57.46	+11 29.7	1.840	2.642	14.9	21.6
274400 2008 RP_{124}			10 31.2	40°.13	1°.8/29.5	18
9 28	2 42.57	+11 13.0	2.190	3.052	11.4	20.9
10 8	2 37.91	+10 26.1	2.126	3.056	8.2	20.7
10 18	2 31.66	+ 9 33.5	2.086	3.060	4.8	20.5
10 28	2 24.48	+ 8 39.4	2.075	3.065	1.8	20.3
11 7	2 17.16	+ 7 48.7	2.092	3.070	3.7	20.5
11 17	2 10.49	+ 7 6.0	2.138	3.075	7.1	20.7
11 27	2 5.19	+ 6 34.9	2.211	3.080	10.3	20.9
12 7	2 1.72	+ 6 17.7	2.307	3.085	13.0	21.1
298603 2003 YC_{132}			10 31.2	298°.43	0°.6/31.5	17
9 28	2 48.47	+16 0.9	1.722	2.575	14.3	20.8
10 8	2 43.06	+16 7.0	1.627	2.550	10.7	20.6
10 18	2 35.14	+16 3.7	1.555	2.525	6.5	20.3
10 28	2 25.42	+15 52.3	1.509	2.501	1.9	19.9
11 7	2 15.03	+15 35.6	1.491	2.476	3.3	20.0
11 17	2 5.23	+15 17.9	1.501	2.451	8.1	20.2
11 27	1 57.23	+15 4.6	1.536	2.427	12.6	20.4
12 7	1 51.89	+15 0.2	1.593	2.402	16.5	20.6
143871 2003 YK_{23}			10 31.2	350°.25	5°.3/ 2.9	18
9 28	2 49.95	+25 4.8	1.247	2.093	19.1	19.7
10 8	2 44.83	+25 42.4	1.179	2.090	15.1	19.4
10 18	2 36.41	+25 59.3	1.131	2.087	10.5	19.1
10 28	2 25.74	+25 52.9	1.105	2.085	6.3	18.9
11 7	2 14.46	+25 25.1	1.104	2.083	5.8	18.9
11 17	2 4.35	+24 42.2	1.127	2.082	9.6	19.1
11 27	1 56.96	+23 54.3	1.173	2.081	14.2	19.3
12 7	1 53.15	+23 11.2	1.240	2.081	18.4	19.6
170063 2002 VP_{92}			10 31.2	262°.46	1°.5/30.0	18
9 28	2 45.95	+11 40.3	1.941	2.801	12.7	20.2
10 8	2 40.67	+11 9.5	1.865	2.794	9.2	20.0
10 18	2 33.43	+10 32.1	1.813	2.787	5.4	19.8
10 28	2 24.95	+ 9 51.8	1.789	2.780	1.8	19.5
11 7	2 16.17	+ 9 13.5	1.793	2.773	3.8	19.6
11 17	2 8.10	+ 8 41.8	1.826	2.766	7.8	19.9
11 27	2 1.61	+ 8 21.0	1.884	2.759	11.5	20.1
12 7	1 57.30	+ 8 13.7	1.965	2.752	14.7	20.3

515478 2014 BL_{15} 10 31.2 283°.51 0°.7/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 48.43	+17 6.2	1.564	2.420	15.4	21.8
10 8	2 43.11	+16 56.7	1.480	2.405	11.5	21.6
10 18	2 35.16	+16 34.7	1.419	2.390	7.0	21.3
10 28	2 25.42	+16 2.1	1.384	2.375	2.0	20.9
11 7	2 15.11	+15 23.2	1.375	2.360	3.4	21.0
11 17	2 5.61	+14 44.1	1.393	2.345	8.5	21.3
11 27	1 58.13	+14 11.7	1.437	2.330	13.2	21.5
12 7	1 53.49	+13 51.1	1.501	2.315	17.1	21.7

132403 2002 GD_{102} 10 31.2 112°.12 5°.5/26.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.71	+ 2 33.5	1.855	2.725	12.7	19.9
10 8	2 40.29	+ 1 0.7	1.808	2.737	9.5	19.7
10 18	2 33.06	− 0 31.2	1.786	2.750	6.5	19.6
10 28	2 24.82	− 1 54.2	1.792	2.762	5.5	19.5
11 7	2 16.53	− 3 1.4	1.825	2.774	7.3	19.7
11 17	2 9.11	− 3 47.9	1.886	2.785	10.3	19.9
11 27	2 3.33	− 4 11.4	1.971	2.797	13.2	20.1
12 7	1 59.68	− 4 12.6	2.076	2.807	15.7	20.3

319396 2006 FG_{14} 10 31.2 218°.36 0°.2/31.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.95	+15 19.9	1.402	2.265	16.5	21.3
10 8	2 45.01	+15 2.4	1.333	2.262	12.2	21.0
10 18	2 36.25	+14 32.8	1.285	2.259	7.2	20.7
10 28	2 25.67	+13 54.4	1.263	2.255	1.7	20.4
11 7	2 14.66	+13 12.7	1.267	2.252	3.9	20.5
11 17	2 4.72	+12 34.6	1.298	2.248	9.2	20.8
11 27	1 57.10	+12 6.7	1.354	2.244	14.0	21.1
12 7	1 52.55	+11 53.5	1.429	2.240	18.0	21.4

488167 2015 XV_{44} 10 31.2 354°.64 3°.6/28.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.00	+ 4 41.5	1.978	2.844	12.2	20.9
10 8	2 40.58	+ 4 17.1	1.913	2.843	9.0	20.7
10 18	2 33.31	+ 3 53.0	1.872	2.842	5.6	20.5
10 28	2 24.91	+ 3 33.3	1.858	2.841	3.6	20.4
11 7	2 16.30	+ 3 22.0	1.873	2.841	5.3	20.5
11 17	2 8.42	+ 3 22.3	1.915	2.841	8.5	20.7
11 27	2 2.08	+ 3 36.1	1.983	2.840	11.8	20.9
12 7	1 57.83	+ 4 3.7	2.073	2.841	14.6	21.1

423350 2005 GL_{168} 10 31.2 221°.47 1°.0/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.20	+13 37.7	1.773	2.627	14.0	22.1
10 8	2 44.01	+13 5.6	1.692	2.618	10.3	21.9
10 18	2 35.50	+12 24.0	1.636	2.608	6.0	21.6
10 28	2 25.48	+11 36.5	1.606	2.598	1.6	21.3
11 7	2 15.06	+10 48.4	1.605	2.587	3.8	21.4
11 17	2 5.43	+10 5.6	1.633	2.575	8.4	21.7
11 27	1 57.64	+ 9 33.7	1.686	2.563	12.5	21.9
12 7	1 52.39	+ 9 16.3	1.762	2.550	16.1	22.1

354585 2004 VA_{59} 10 31.2 351°.06 5°.0/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.59	+ 1 40.4	1.350	2.223	16.3	19.7
10 8	2 46.19	+ 1 51.6	1.286	2.218	12.2	19.4
10 18	2 36.93	+ 2 9.1	1.245	2.214	7.9	19.2
10 28	2 25.84	+ 2 37.0	1.228	2.211	5.0	19.0
11 7	2 14.34	+ 3 18.6	1.238	2.209	6.9	19.1
11 17	2 3.94	+ 4 14.6	1.274	2.207	11.2	19.3
11 27	1 55.91	+ 5 24.7	1.333	2.206	15.4	19.6
12 7	1 50.99	+ 6 46.9	1.413	2.206	19.1	19.8

154156 2002 GY_{12} 10 31.2 64°.90 1°.7/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.84	+19 31.6	2.051	2.887	13.0	19.5
10 8	2 41.91	+19 41.3	1.988	2.900	9.8	19.3
10 18	2 34.07	+19 40.3	1.949	2.913	6.1	19.1
10 28	2 25.10	+19 29.5	1.938	2.926	2.5	18.9
11 7	2 15.95	+19 11.5	1.955	2.939	2.8	19.0
11 17	2 7.61	+18 50.2	2.001	2.952	6.4	19.2
11 27	2 0.91	+18 30.0	2.075	2.965	9.8	19.5
12 7	1 56.39	+18 15.1	2.172	2.978	12.8	19.7

396754 2003 UJ_{55} 10 31.2 14°.51 6°.7/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.03	+33 7.0	1.481	2.295	18.2	18.6
10 8	2 38.49	+33 9.8	1.423	2.305	14.9	18.4
10 18	2 32.37	+32 44.8	1.384	2.316	11.3	18.2
10 28	2 24.70	+31 51.4	1.366	2.328	8.0	18.1
11 7	2 16.84	+30 33.9	1.374	2.342	6.7	18.0
11 17	2 10.10	+29 0.6	1.406	2.357	8.5	18.2
11 27	2 5.57	+27 22.5	1.464	2.374	11.8	18.4
12 7	2 3.83	+25 50.1	1.544	2.391	15.0	18.7

375685 2009 JF 10 31.2 130°.55 1°.8/29.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.25	+11 19.5	1.735	2.590	14.2	22.0
10 8	2 45.20	+10 44.7	1.680	2.607	10.3	21.8
10 18	2 35.99	+10 3.6	1.650	2.622	5.9	21.5
10 28	2 25.56	+ 9 20.4	1.647	2.637	2.0	21.3
11 7	2 15.05	+ 8 40.6	1.673	2.652	4.2	21.5
11 17	2 5.61	+ 8 9.2	1.727	2.665	8.4	21.8
11 27	1 58.14	+ 7 50.2	1.808	2.677	12.2	22.1
12 7	1 53.19	+ 7 45.8	1.911	2.689	15.3	22.3

513268 2006 SJ_{294} 10 31.2 344°.88 0°.3/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 43.69	+16 13.4	1.087	1.973	18.4	21.0
10 8	2 40.26	+15 41.2	1.023	1.964	13.7	20.7
10 18	2 33.71	+14 52.1	0.979	1.956	8.1	20.4
10 28	2 25.09	+13 50.9	0.956	1.949	1.9	20.0
11 7	2 15.96	+12 46.1	0.958	1.943	4.5	20.1
11 17	2 7.99	+11 47.6	0.983	1.938	10.5	20.5
11 27	2 2.60	+11 4.6	1.029	1.935	15.9	20.8
12 7	2 0.57	+10 42.6	1.094	1.933	20.5	21.0

200001 2007 JB_{42} 10 31.2 130°.29 6°.8/23.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.76	− 8 4.4	2.589	3.439	10.2	20.1
10 8	2 37.78	− 9 26.9	2.546	3.449	8.3	20.0
10 18	2 31.49	−10 41.3	2.530	3.458	7.0	19.9
10 28	2 24.46	−11 41.9	2.541	3.467	7.0	19.9
11 7	2 17.36	−12 24.4	2.580	3.475	8.1	20.0
11 17	2 10.86	−12 46.4	2.644	3.483	9.9	20.2
11 27	2 5.52	−12 47.6	2.733	3.491	11.7	20.3
12 7	2 1.76	−12 29.5	2.841	3.499	13.3	20.5

199878 2007 EV_{202} 10 31.2 142°.73 0°.7/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.57	+13 9.7	2.772	3.616	9.8	21.1
10 8	2 39.07	+12 44.3	2.705	3.626	7.1	21.0
10 18	2 32.24	+12 13.7	2.664	3.635	4.1	20.8
10 28	2 24.65	+11 40.4	2.652	3.644	1.1	20.6
11 7	2 16.95	+11 7.3	2.671	3.652	2.5	20.7
11 17	2 9.80	+10 37.8	2.720	3.660	5.6	20.9
11 27	2 3.80	+10 14.8	2.798	3.668	8.3	21.1
12 7	1 59.37	+10 0.5	2.901	3.675	10.7	21.3

175498 2006 RZ_{68} 10 31.2 2°.89 1°.9/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.35	+20 9.0	1.650	2.499	15.1	20.1
10 8	2 41.33	+20 7.9	1.580	2.498	11.4	19.9
10 18	2 33.97	+19 52.8	1.532	2.498	7.1	19.6
10 28	2 25.11	+19 24.9	1.510	2.498	2.9	19.4
11 7	2 15.94	+18 48.2	1.515	2.499	3.3	19.4
11 17	2 7.64	+18 8.3	1.547	2.501	7.6	19.7
11 27	2 1.29	+17 31.6	1.604	2.502	11.7	19.9
12 7	1 57.52	+17 3.6	1.684	2.504	15.3	20.2

113012 2002 RP_{40} 10 31.2 93°.32 2°.9/28.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.39	+ 6 24.9	2.369	3.231	10.6	19.7
10 8	2 38.37	+ 5 41.2	2.309	3.238	7.7	19.5
10 18	2 31.89	+ 4 55.9	2.275	3.246	4.7	19.3
10 28	2 24.57	+ 4 13.4	2.270	3.254	2.9	19.2
11 7	2 17.14	+ 3 37.6	2.294	3.262	4.5	19.4
11 17	2 10.34	+ 3 12.2	2.346	3.269	7.3	19.6
11 27	2 4.81	+ 2 59.5	2.425	3.277	10.1	19.8
12 7	2 0.99	+ 3 0.3	2.527	3.284	12.6	19.9

285479 2000 BH_{22} 10 31.2 345°.72 3°.3/ 2.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.90	+21 31.4	1.210	2.079	18.1	19.9
10 8	2 39.66	+21 48.6	1.138	2.065	14.0	19.7
10 18	2 33.39	+21 47.4	1.085	2.052	9.2	19.4
10 28	2 25.04	+21 27.8	1.054	2.041	4.4	19.1
11 7	2 16.05	+20 53.3	1.046	2.031	4.4	19.0
11 17	2 8.03	+20 10.9	1.063	2.023	9.3	19.3
11 27	2 2.45	+19 29.5	1.102	2.016	14.3	19.5
12 7	2 0.17	+18 57.5	1.161	2.011	18.7	19.8

81111 2000 EM_{121} 10 31.2 202°.70 6°.8/25.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.29	− 4 48.1	2.145	3.003	11.7	19.5
10 8	2 40.65	− 5 52.3	2.086	3.000	9.3	19.3
10 18	2 33.30	− 6 50.0	2.051	2.996	7.3	19.2
10 28	2 24.93	− 7 34.9	2.044	2.993	6.8	19.1
11 7	2 16.38	− 8 2.0	2.064	2.989	8.2	19.2
11 17	2 8.53	− 8 8.3	2.111	2.984	10.6	19.4
11 27	2 2.12	− 7 53.3	2.182	2.980	13.1	19.5
12 7	1 57.66	− 7 18.5	2.272	2.974	15.3	19.7

378032 2006 SH_{363} 10 31.2 332°.93 3°.6/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.60	+11 2.3	1.077	1.974	17.6	20.6
10 8	2 38.75	+ 9 54.3	1.009	1.956	13.0	20.2
10 18	2 32.87	+ 8 32.8	0.960	1.939	7.7	19.9
10 28	2 24.91	+ 7 6.5	0.934	1.924	3.6	19.6
11 7	2 16.37	+ 5 47.1	0.931	1.909	6.8	19.8
11 17	2 8.85	+ 4 45.5	0.951	1.896	12.4	20.0
11 27	2 3.78	+ 4 10.2	0.991	1.884	17.7	20.3
12 7	2 2.01	+ 4 3.7	1.049	1.874	22.1	20.5

47157 1999 RG_{188} 10 31.2 282°.95 5°.0/26.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.17	+ 1 40.8	2.090	2.959	11.5	19.2
10 8	2 38.45	+ 0 31.1	2.025	2.953	8.7	19.0
10 18	2 32.06	− 0 37.7	1.985	2.948	6.0	18.8
10 28	2 24.64	− 1 39.5	1.972	2.942	5.1	18.7
11 7	2 17.02	− 2 28.4	1.987	2.937	6.7	18.8
11 17	2 10.04	− 3 0.2	2.030	2.931	9.5	19.0
11 27	2 4.45	− 3 12.4	2.097	2.926	12.4	19.2
12 7	2 0.77	− 3 5.1	2.185	2.920	14.9	19.4

224144 2005 QB_{45} 10 31.2 52°.06 1°.9/30.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 49.05	+12 8.8	1.232	2.110	17.3	20.0
10 8	2 43.42	+11 30.8	1.192	2.129	12.5	19.8
10 18	2 35.13	+10 44.2	1.173	2.149	7.2	19.5
10 28	2 25.37	+ 9 55.2	1.178	2.170	2.3	19.3
11 7	2 15.62	+ 9 10.9	1.209	2.191	4.9	19.5
11 17	2 7.25	+ 8 38.0	1.266	2.212	9.9	19.9
11 27	2 1.35	+ 8 21.3	1.345	2.233	14.3	20.2
12 7	1 58.41	+ 8 22.5	1.445	2.255	17.9	20.5

131056 2000 YU_{54} 10 31.2 209°.12 4°.2/27.9 18

9 28	2 47.27	+ 3 44.1	2.020	2.883	12.1	19.7
10 8	2 41.50	+ 2 56.4	1.951	2.879	9.0	19.5
10 18	2 33.87	+ 2 8.5	1.907	2.874	5.9	19.3
10 28	2 25.09	+ 1 25.8	1.891	2.870	4.2	19.2
11 7	2 16.08	+ 0 53.3	1.903	2.864	5.9	19.3
11 17	2 7.78	+ 0 35.0	1.943	2.858	9.1	19.4
11 27	2 1.02	+ 0 33.4	2.009	2.852	12.3	19.6
12 7	1 56.35	+ 0 48.7	2.096	2.846	15.0	19.8

66555 1999 RQ_{132} 10 31.2 32°.92 4°.3/ 3.1 18

9 28	2 47.11	+25 42.9	1.363	2.205	18.0	18.0
10 8	2 42.23	+25 46.8	1.307	2.216	14.0	17.8
10 18	2 34.59	+25 28.5	1.272	2.228	9.5	17.6
10 28	2 25.28	+24 48.6	1.260	2.240	5.4	17.4
11 7	2 15.75	+23 51.7	1.273	2.254	4.8	17.4
11 17	2 7.46	+22 45.8	1.311	2.267	8.4	17.6
11 27	2 1.57	+21 40.8	1.375	2.282	12.6	17.9
12 7	1 58.70	+20 44.9	1.459	2.297	16.3	18.2

321703 2010 FY_{90} 10 31.2 207°.50 2°.2/29.3 18

9 28	2 46.61	+ 9 56.3	2.095	2.952	12.0	21.3
10 8	2 41.00	+ 9 9.4	2.020	2.948	8.7	21.1
10 18	2 33.58	+ 8 17.0	1.970	2.943	5.1	20.8
10 28	2 25.03	+ 7 23.5	1.948	2.937	2.3	20.6
11 7	2 16.24	+ 6 34.1	1.956	2.931	4.2	20.8
11 17	2 8.12	+ 5 53.6	1.993	2.925	7.8	21.0
11 27	2 1.50	+ 5 26.1	2.056	2.918	11.3	21.2
12 7	1 56.92	+ 5 13.6	2.142	2.911	14.2	21.4

96198 1992 EF_{13} 10 31.2 190°.37 0°.5/30.7 18

9 28	2 46.57	+14 44.9	2.283	3.128	11.5	20.7
10 8	2 40.86	+14 9.7	2.206	3.127	8.4	20.5
10 18	2 33.44	+13 26.1	2.154	3.126	4.9	20.3
10 28	2 24.99	+12 37.4	2.131	3.124	1.2	20.0
11 7	2 16.33	+11 47.7	2.138	3.121	2.9	20.1
11 17	2 8.32	+11 1.8	2.175	3.118	6.6	20.4
11 27	2 1.71	+10 24.0	2.240	3.114	9.9	20.6
12 7	1 57.03	+ 9 57.6	2.328	3.109	12.8	20.8

51067 2000 GP_{153} 10 31.2 311°.35 4°.6/ 2.9 18

9 28	2 47.57	+25 8.1	1.367	2.210	17.9	18.5
10 8	2 43.01	+25 24.6	1.284	2.194	14.1	18.3
10 18	2 35.38	+25 20.3	1.221	2.178	9.8	18.0
10 28	2 25.56	+24 53.6	1.182	2.163	5.6	17.7
11 7	2 15.02	+24 7.0	1.167	2.148	5.1	17.6
11 17	2 5.38	+23 7.1	1.177	2.133	9.2	17.8
11 27	1 58.14	+22 4.1	1.211	2.119	13.9	18.0
12 7	1 54.22	+21 7.9	1.266	2.105	18.2	18.3

274189 2008 GG_{131} 10 31.2 216°.53 2°.0/29.8 18

9 28	2 49.80	+10 35.8	1.743	2.603	13.9	22.1
10 8	2 43.70	+10 3.9	1.668	2.597	10.2	21.8
10 18	2 35.32	+ 9 25.6	1.617	2.590	6.0	21.6
10 28	2 25.48	+ 8 45.2	1.593	2.584	2.2	21.3
11 7	2 15.30	+ 8 8.0	1.598	2.576	4.4	21.5
11 17	2 5.93	+ 7 39.2	1.630	2.569	8.8	21.7
11 27	1 58.41	+ 7 23.3	1.689	2.560	12.8	21.9
12 7	1 53.40	+ 7 22.6	1.769	2.551	16.2	22.1

304511 2006 UY_{201} 10 31.2 38°.42 0°.7/30.7 18

9 28	2 46.70	+13 41.1	1.696	2.558	14.1	20.5
10 8	2 41.38	+13 22.4	1.635	2.564	10.3	20.3
10 18	2 33.90	+12 55.4	1.596	2.570	6.0	20.0
10 28	2 25.13	+12 23.6	1.584	2.576	1.5	19.7
11 7	2 16.15	+11 51.6	1.600	2.583	3.5	19.9
11 17	2 8.07	+11 24.4	1.643	2.590	7.9	20.2
11 27	2 1.83	+11 6.6	1.711	2.597	11.8	20.5
12 7	1 58.02	+11 1.1	1.802	2.604	15.2	20.7

28398 Ericthomas 10 31.2 94°.96 1°.4/ 1.2 18

9 28	2 48.07	+20 7.7	1.733	2.576	14.7	19.2
10 8	2 42.35	+19 44.4	1.671	2.587	11.0	19.0
10 18	2 34.45	+19 6.7	1.632	2.599	6.8	18.7
10 28	2 25.26	+18 17.1	1.620	2.610	2.4	18.5
11 7	2 15.92	+17 20.7	1.636	2.621	3.0	18.6
11 17	2 7.55	+16 23.9	1.680	2.631	7.3	18.9
11 27	2 1.10	+15 33.3	1.750	2.642	11.2	19.1
12 7	1 57.13	+14 54.1	1.843	2.652	14.6	19.4

162257 1999 TS_{314} 10 31.2 43°.75 1°.1/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 45.33	+14 54.9	1.479	2.348	15.4	19.8
10 8	2 40.55	+14 0.0	1.425	2.358	11.2	19.5
10 18	2 33.46	+12 53.3	1.393	2.369	6.4	19.3
10 28	2 25.02	+11 40.5	1.387	2.380	1.7	19.0
11 7	2 16.47	+10 29.4	1.408	2.391	4.1	19.2
11 17	2 8.98	+ 9 27.5	1.456	2.403	8.8	19.5
11 27	2 3.51	+ 8 41.2	1.528	2.414	13.0	19.8
12 7	2 0.61	+ 8 13.6	1.621	2.427	16.5	20.1

124770 2001 SP_{244} 10 31.2 200°.44 1°.5/30.1 18

9 28	2 48.48	+12 24.8	1.884	2.740	13.2	20.5
10 8	2 42.58	+11 46.5	1.810	2.737	9.6	20.3
10 18	2 34.60	+11 0.4	1.760	2.733	5.6	20.1
10 28	2 25.33	+10 10.5	1.738	2.730	1.7	19.8
11 7	2 15.78	+ 9 22.0	1.745	2.725	3.9	19.9
11 17	2 7.01	+ 8 40.5	1.781	2.720	8.0	20.2
11 27	1 59.95	+ 8 10.8	1.842	2.715	11.8	20.4
12 7	1 55.19	+ 7 55.6	1.926	2.709	15.1	20.6

171184 2005 JB_{1} 10 31.2 239°.89 0°.0/30.9 18

9 28	2 45.56	+17 59.6	2.252	3.093	11.9	20.4
10 8	2 40.26	+17 2.2	2.160	3.078	8.8	20.2
10 18	2 33.19	+15 52.0	2.094	3.063	5.2	20.0
10 28	2 24.98	+14 32.5	2.056	3.048	1.3	19.7
11 7	2 16.49	+13 8.9	2.048	3.032	2.8	19.8
11 17	2 8.59	+11 47.6	2.070	3.015	6.7	20.0
11 27	2 2.09	+10 34.9	2.121	2.998	10.3	20.2
12 7	1 57.55	+ 9 35.6	2.196	2.980	13.4	20.4

133283 2003 SO_{21} 10 31.2 311°.90 1°.2/ 1.0 18

9 28	2 47.68	+18 37.3	1.689	2.538	14.7	20.4
10 8	2 42.29	+18 28.3	1.616	2.536	11.0	20.2
10 18	2 34.56	+18 6.4	1.565	2.534	6.8	19.9
10 28	2 25.33	+17 33.5	1.541	2.531	2.3	19.6
11 7	2 15.77	+16 53.7	1.544	2.529	3.1	19.7
11 17	2 7.06	+16 12.7	1.575	2.527	7.7	19.9
11 27	2 0.26	+15 36.8	1.631	2.525	11.8	20.2
12 7	1 56.04	+15 11.0	1.710	2.523	15.4	20.4

351184 2004 BJ_{150} 10 31.2 345°.38 4°.3/28.1 18

9 28	2 45.84	+ 4 51.5	1.727	2.599	13.4	20.5
10 8	2 40.71	+ 4 3.8	1.664	2.597	9.9	20.3
10 18	2 33.52	+ 3 15.2	1.625	2.596	6.3	20.1
10 28	2 25.06	+ 2 31.5	1.613	2.594	4.3	20.0
11 7	2 16.38	+ 1 58.7	1.627	2.593	6.2	20.1
11 17	2 8.51	+ 1 41.2	1.669	2.592	9.8	20.3
11 27	2 2.39	+ 1 41.7	1.735	2.591	13.3	20.5
12 7	1 58.57	+ 2 0.2	1.821	2.591	16.3	20.7

85784 1998 VV_{3} 10 31.2 272°.49 0°.7/31.9 17

9 28	2 43.32	+19 9.9	2.377	3.215	11.4	20.1
10 8	2 38.58	+18 35.6	2.286	3.201	8.5	19.9
10 18	2 32.19	+17 50.0	2.221	3.188	5.2	19.7
10 28	2 24.74	+16 55.2	2.183	3.174	1.6	19.4
11 7	2 17.02	+15 55.2	2.175	3.160	2.4	19.5
11 17	2 9.83	+14 55.0	2.196	3.145	6.0	19.7
11 27	2 3.94	+13 59.8	2.246	3.131	9.4	19.9
12 7	1 59.87	+13 14.1	2.319	3.117	12.3	20.0

274996 2009 TC_{23} 10 31.2 19°.16 0°.0/31.1 18

9 28	2 50.10	+13 34.5	1.194	2.070	17.8	20.0
10 8	2 44.64	+13 49.5	1.139	2.074	13.1	19.7
10 18	2 36.15	+13 55.7	1.104	2.080	7.7	19.5
10 28	2 25.74	+13 55.2	1.093	2.086	1.9	19.1
11 7	2 14.98	+13 52.1	1.107	2.092	4.1	19.3
11 17	2 5.50	+13 50.9	1.146	2.100	9.6	19.6
11 27	1 58.63	+13 57.0	1.208	2.108	14.6	19.9
12 7	1 55.06	+14 13.8	1.290	2.118	18.6	20.2

516037 2015 TZ_{50} 10 31.2 39°.35 1°.1/ 1.1 18

9 28	2 45.27	+19 57.1	1.785	2.632	14.2	21.2
10 8	2 40.34	+19 25.7	1.717	2.636	10.6	20.9
10 18	2 33.31	+18 39.9	1.672	2.640	6.5	20.7
10 28	2 25.01	+17 42.6	1.653	2.644	2.2	20.5
11 7	2 16.51	+16 39.0	1.662	2.648	2.9	20.5
11 17	2 8.86	+15 35.6	1.700	2.652	7.2	20.8
11 27	2 2.98	+14 39.4	1.763	2.656	11.1	21.0
12 7	1 59.46	+13 55.3	1.849	2.661	14.5	21.3

341729 2007 VJ_{229} 10 31.2 259°.20 0°.3/30.9 18

9 28	2 47.87	+14 18.6	1.867	2.721	13.4	20.8
10 8	2 42.21	+14 8.3	1.792	2.717	9.8	20.6
10 18	2 34.44	+13 50.1	1.741	2.713	5.8	20.3
10 28	2 25.32	+13 26.2	1.717	2.709	1.4	20.0
11 7	2 15.88	+13 0.5	1.721	2.705	3.2	20.2
11 17	2 7.19	+12 37.4	1.754	2.701	7.5	20.4
11 27	2 0.21	+12 21.5	1.813	2.697	11.4	20.6
12 7	1 55.57	+12 15.9	1.894	2.692	14.7	20.9

117840 2005 JW_{80} 10 31.2 127°.89 11°.2/19.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 47.14	−21 35.2	2.247	3.055	13.0	20.4
10 8	2 41.16	−23 6.3	2.225	3.067	11.8	20.4
10 18	2 33.55	−24 17.8	2.225	3.079	11.3	20.4
10 28	2 25.05	−25 3.0	2.249	3.090	11.5	20.4
11 7	2 16.56	−25 18.4	2.296	3.101	12.4	20.5
11 17	2 8.89	−25 3.5	2.364	3.112	13.7	20.6
11 27	2 2.76	−24 20.9	2.452	3.122	15.1	20.8
12 7	1 58.59	−23 15.1	2.556	3.132	16.2	20.9

451320 2010 VS_{48} 10 31.2 31°.73 1°.2/30.4 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.33	+12 54.7	1.472	2.344	15.2	20.4
10 8	2 40.45	+12 26.9	1.429	2.364	11.0	20.2
10 18	2 33.36	+11 51.1	1.408	2.384	6.3	20.0
10 28	2 25.02	+11 12.0	1.413	2.405	1.7	19.8
11 7	2 16.65	+10 35.2	1.444	2.427	4.0	20.0
11 17	2 9.38	+10 6.4	1.502	2.449	8.5	20.3
11 27	2 4.13	+ 9 49.7	1.584	2.472	12.4	20.6
12 7	2 1.39	+ 9 47.5	1.687	2.496	15.7	20.9

111911 2002 FE_{36} 10 31.2 59°.22 3°.7/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.98	+25 33.3	2.086	2.901	13.6	19.4
10 8	2 42.21	+25 53.7	2.014	2.906	10.7	19.2
10 18	2 34.40	+25 59.4	1.965	2.912	7.4	19.0
10 28	2 25.31	+25 49.9	1.942	2.918	4.5	18.9
11 7	2 15.95	+25 27.1	1.948	2.925	4.0	18.8
11 17	2 7.34	+24 54.9	1.982	2.931	6.6	19.0
11 27	2 0.41	+24 18.9	2.044	2.937	9.8	19.2
12 7	1 55.76	+23 44.9	2.129	2.944	12.7	19.4

446067 2013 CP_{151} 10 31.2 220°.75 0°.1/31.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.07	+15 47.3	2.019	2.867	12.7	21.6
10 8	2 41.49	+15 35.0	1.943	2.865	9.4	21.4
10 18	2 33.96	+15 13.9	1.892	2.863	5.6	21.1
10 28	2 25.20	+14 46.1	1.868	2.860	1.4	20.8
11 7	2 16.17	+14 15.4	1.874	2.858	2.8	20.9
11 17	2 7.85	+13 46.0	1.908	2.855	6.9	21.2
11 27	2 1.11	+13 22.5	1.968	2.853	10.6	21.4
12 7	1 56.54	+13 8.5	2.052	2.850	13.7	21.6

239960 2001 HS_{36} 10 31.2 89°.73 1°.6/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.46	+22 26.4	2.137	2.959	13.1	20.9
10 8	2 42.82	+21 48.8	2.089	2.993	9.8	20.7
10 18	2 34.48	+20 57.5	2.065	3.025	6.1	20.6
10 28	2 25.28	+19 55.2	2.070	3.058	2.5	20.4
11 7	2 16.16	+18 46.9	2.105	3.089	2.6	20.4
11 17	2 8.01	+17 38.3	2.170	3.120	6.1	20.7
11 27	2 1.55	+16 35.3	2.263	3.150	9.3	21.0
12 7	1 57.20	+15 42.7	2.381	3.179	12.1	21.2

352372 2007 VA_{255} 10 31.2 16°.84 1°.8/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.90	+19 38.8	1.474	2.330	16.2	21.0
10 8	2 41.95	+19 35.8	1.411	2.333	12.2	20.7
10 18	2 34.45	+19 18.0	1.369	2.337	7.6	20.5
10 28	2 25.34	+18 46.9	1.351	2.341	2.9	20.2
11 7	2 15.94	+18 7.2	1.360	2.345	3.4	20.3
11 17	2 7.55	+17 25.1	1.396	2.351	8.1	20.5
11 27	2 1.31	+16 47.9	1.456	2.356	12.5	20.8
12 7	1 57.88	+16 21.1	1.537	2.362	16.2	21.1

280860 2005 UH_{347} 10 31.2 200°.10 0°.7/30.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.09	+14 9.5	1.885	2.736	13.4	21.9
10 8	2 43.07	+13 43.4	1.810	2.734	9.8	21.7
10 18	2 34.94	+13 8.4	1.759	2.731	5.7	21.5
10 28	2 25.47	+12 27.8	1.735	2.727	1.4	21.2
11 7	2 15.71	+11 46.2	1.740	2.723	3.4	21.3
11 17	2 6.72	+11 8.8	1.774	2.718	7.7	21.6
11 27	1 59.47	+10 40.5	1.835	2.713	11.6	21.8
12 7	1 54.56	+10 24.8	1.918	2.708	14.8	22.0

243165 2007 TL_{98} 10 31.2 165°.48 0°.2/31.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.98	+14 58.2	1.974	2.823	12.9	21.1
10 8	2 42.14	+14 39.4	1.903	2.826	9.5	20.9
10 18	2 34.33	+14 11.9	1.857	2.828	5.6	20.7
10 28	2 25.31	+13 38.5	1.838	2.830	1.3	20.4
11 7	2 16.06	+13 3.4	1.848	2.831	3.0	20.5
11 17	2 7.58	+12 30.9	1.887	2.833	7.1	20.8
11 27	2 0.74	+12 5.9	1.952	2.834	10.8	21.0
12 7	1 56.11	+11 51.5	2.041	2.835	13.9	21.2

84785 2002 XZ_{74} 10 31.2 54°.11 4°.6/ 3.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.21	+26 9.8	1.325	2.163	18.7	18.7
10 8	2 44.59	+26 19.1	1.272	2.178	14.6	18.5
10 18	2 36.04	+26 5.3	1.239	2.193	10.0	18.3
10 28	2 25.74	+25 28.6	1.229	2.208	5.8	18.1
11 7	2 15.25	+24 33.4	1.244	2.224	5.1	18.1
11 17	2 6.12	+23 27.9	1.285	2.240	8.7	18.4
11 27	1 59.57	+22 22.4	1.351	2.256	12.9	18.7
12 7	1 56.23	+21 25.7	1.437	2.272	16.6	19.0

480449 2015 KV_{149} 10 31.2 63°.99 3°.8/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 51.00	+ 6 15.7	1.507	2.377	15.1	20.8
10 8	2 44.30	+ 5 36.1	1.476	2.408	10.9	20.6
10 18	2 35.46	+ 4 55.9	1.467	2.439	6.6	20.5
10 28	2 25.53	+ 4 20.9	1.485	2.470	3.8	20.4
11 7	2 15.76	+ 3 56.5	1.530	2.501	5.8	20.6
11 17	2 7.26	+ 3 46.4	1.602	2.532	9.6	20.9
11 27	2 0.89	+ 3 52.5	1.699	2.562	13.1	21.2
12 7	1 57.10	+ 4 14.3	1.816	2.592	16.1	21.4

91862 1999 US_{20} 10 31.2 335°.94 1°.1/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.16	+12 52.4	1.799	2.664	13.3	19.8
10 8	2 39.58	+12 27.6	1.725	2.656	9.7	19.5
10 18	2 32.94	+11 55.0	1.673	2.648	5.7	19.3
10 28	2 24.99	+11 18.3	1.649	2.641	1.5	19.0
11 7	2 16.72	+10 42.2	1.651	2.634	3.6	19.1
11 17	2 9.17	+10 11.7	1.682	2.627	7.9	19.4
11 27	2 3.26	+ 9 51.5	1.738	2.621	11.8	19.6
12 7	1 59.62	+ 9 44.4	1.815	2.616	15.1	19.8

327177 2005 JJ_{185} 10 31.2 72°.71 2°.3/29.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.06	+11 19.7	1.350	2.220	16.5	21.3
10 8	2 44.68	+10 35.3	1.311	2.245	11.9	21.1
10 18	2 35.82	+ 9 43.8	1.294	2.269	6.9	20.9
10 28	2 25.64	+ 8 51.3	1.302	2.293	2.5	20.6
11 7	2 15.53	+ 8 4.8	1.338	2.317	4.9	20.9
11 17	2 6.78	+ 7 30.4	1.400	2.341	9.6	21.2
11 27	2 0.39	+ 7 12.5	1.486	2.365	13.7	21.5
12 7	1 56.84	+ 7 12.2	1.592	2.388	17.1	21.8

485994 2012 KV_{34} 10 31.2 224°.59 2°.8/28.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.14	+ 5 26.5	2.767	3.622	9.5	22.4
10 8	2 38.88	+ 4 53.2	2.688	3.613	6.9	22.3
10 18	2 32.25	+ 4 19.0	2.636	3.605	4.3	22.1
10 28	2 24.79	+ 3 47.2	2.613	3.595	2.8	22.0
11 7	2 17.14	+ 3 21.2	2.620	3.586	4.1	22.0
11 17	2 9.95	+ 3 3.9	2.657	3.576	6.8	22.2
11 27	2 3.84	+ 2 57.4	2.721	3.566	9.4	22.4
12 7	1 59.26	+ 3 2.8	2.808	3.555	11.7	22.5

203050 2000 EN_{125} 10 31.2 232°.24 4°.9/26.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.06	+ 2 21.7	2.077	2.942	11.7	20.5
10 8	2 39.90	+ 1 11.3	2.007	2.935	8.8	20.3
10 18	2 32.99	+ 0 0.9	1.963	2.927	6.0	20.2
10 28	2 24.99	− 1 3.3	1.946	2.918	4.9	20.1
11 7	2 16.75	− 1 55.2	1.958	2.910	6.6	20.2
11 17	2 9.16	− 2 30.2	1.998	2.901	9.6	20.3
11 27	2 3.01	− 2 45.6	2.062	2.892	12.6	20.5
12 7	1 58.83	− 2 41.4	2.147	2.882	15.1	20.7

457282 2008 RZ_{99} 10 31.2 349°.27 5°.7/ 4.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.24	+30 9.3	2.143	2.934	14.1	21.0
10 8	2 43.35	+30 59.7	2.061	2.931	11.5	20.8
10 18	2 35.22	+31 34.3	2.002	2.928	8.7	20.6
10 28	2 25.57	+31 50.4	1.969	2.926	6.4	20.5
11 7	2 15.46	+31 47.8	1.963	2.924	5.8	20.5
11 17	2 6.00	+31 29.4	1.985	2.922	7.5	20.6
11 27	1 58.25	+31 0.4	2.034	2.921	10.2	20.7
12 7	1 52.92	+30 27.5	2.106	2.920	12.8	20.9

7850 Buenos Aires 10 31.2 167°.23 2°.8/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.48	+22 34.7	1.836	2.663	14.7	19.1
10 8	2 44.99	+22 43.9	1.763	2.666	11.3	18.9
10 18	2 36.14	+22 38.5	1.712	2.669	7.4	18.6
10 28	2 25.79	+22 18.4	1.687	2.672	3.7	18.4
11 7	2 15.12	+21 46.4	1.692	2.673	3.6	18.4
11 17	2 5.32	+21 7.5	1.724	2.675	7.2	18.6
11 27	1 57.47	+20 28.2	1.784	2.676	11.1	18.9
12 7	1 52.21	+19 54.4	1.866	2.677	14.4	19.1

19709 1999 TT_{105} 10 31.2 219°.50 0°.9/30.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.44	+14 10.3	2.294	3.147	11.3	18.2
10 8	2 38.62	+13 20.0	2.219	3.144	8.2	18.0
10 18	2 32.20	+12 21.3	2.168	3.141	4.7	17.8
10 28	2 24.81	+11 18.1	2.147	3.138	1.3	17.5
11 7	2 17.24	+10 15.3	2.154	3.135	3.1	17.7
11 17	2 10.27	+ 9 18.0	2.192	3.132	6.7	17.9
11 27	2 4.63	+ 8 30.8	2.256	3.129	9.9	18.1
12 7	2 0.79	+ 7 56.8	2.344	3.126	12.7	18.3

111717 2002 CE_{36} 10 31.2 10°.25 4°.7/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.37	+ 9 7.4	0.943	1.846	18.9	18.1
10 8	2 40.08	+ 7 52.9	0.897	1.847	13.8	17.8
10 18	2 33.62	+ 6 29.9	0.871	1.850	8.3	17.5
10 28	2 25.21	+ 5 9.3	0.866	1.854	4.7	17.3
11 7	2 16.54	+ 4 3.1	0.883	1.859	7.7	17.5
11 17	2 9.27	+ 3 20.7	0.923	1.866	13.0	17.8
11 27	2 4.71	+ 3 7.1	0.982	1.874	17.9	18.2
12 7	2 3.50	+ 3 21.8	1.058	1.883	22.0	18.5

8997 Davidblewett 10 31.2 127°.71 2°.3/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 48.95	+22 34.7	1.965	2.792	13.9	18.6
10 8	2 42.89	+22 22.2	1.897	2.802	10.5	18.4
10 18	2 34.79	+21 54.9	1.854	2.813	6.8	18.2
10 28	2 25.47	+21 14.4	1.837	2.822	3.1	18.0
11 7	2 15.97	+20 24.4	1.848	2.832	3.1	18.0
11 17	2 7.35	+19 30.4	1.889	2.841	6.7	18.3
11 27	2 0.49	+18 38.7	1.958	2.849	10.3	18.5
12 7	1 55.96	+17 55.0	2.049	2.858	13.4	18.7

515458 2013 YU_{15} 10 31.2 311°.30 2°.8/29.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.44	+10 8.6	1.342	2.222	16.0	21.2
10 8	2 41.96	+ 9 31.6	1.265	2.203	11.8	20.9
10 18	2 34.70	+ 8 46.5	1.209	2.185	7.0	20.6
10 28	2 25.52	+ 7 58.9	1.178	2.168	2.9	20.3
11 7	2 15.75	+ 7 16.2	1.172	2.151	5.6	20.5
11 17	2 6.82	+ 6 45.4	1.191	2.134	10.7	20.7
11 27	2 0.07	+ 6 32.4	1.233	2.118	15.5	20.9
12 7	1 56.33	+ 6 39.6	1.294	2.103	19.6	21.2

492987 2014 SX_{164} 10 31.2 339°.47 0°.3/31.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.07	+15 32.0	2.222	3.068	11.8	21.2
10 8	2 40.66	+15 34.2	2.146	3.066	8.7	21.0
10 18	2 33.46	+15 29.1	2.094	3.063	5.2	20.8
10 28	2 25.15	+15 18.4	2.069	3.061	1.4	20.5
11 7	2 16.58	+15 4.7	2.074	3.059	2.6	20.6
11 17	2 8.61	+14 51.1	2.109	3.057	6.3	20.8
11 27	2 2.07	+14 41.3	2.170	3.056	9.7	21.0
12 7	1 57.49	+14 38.3	2.256	3.054	12.6	21.2

178518 1999 TU_{207} 10 31.2 7°.61 19°.3/11.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 56.94	+45 37.2	0.954	1.729	28.6	19.1
10 8	2 52.56	+48 15.0	0.902	1.729	26.0	18.9
10 18	2 42.41	+50 12.6	0.863	1.730	23.2	18.8
10 28	2 27.65	+51 13.0	0.838	1.731	20.8	18.6
11 7	2 11.21	+51 6.2	0.829	1.733	19.5	18.6
11 17	1 56.80	+49 55.4	0.836	1.736	19.6	18.6
11 27	1 47.48	+47 57.7	0.861	1.740	21.1	18.7
12 7	1 44.48	+45 37.2	0.901	1.745	23.4	18.9

424589 2008 GV_{71} 10 31.2 113°.68 0°.7/30.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.50	+14 5.0	1.701	2.554	14.5	21.6
10 8	2 44.80	+13 40.5	1.646	2.571	10.6	21.4
10 18	2 35.90	+13 7.1	1.615	2.588	6.1	21.2
10 28	2 25.74	+12 28.6	1.612	2.604	1.5	20.9
11 7	2 15.50	+11 49.9	1.636	2.619	3.5	21.1
11 17	2 6.32	+11 16.3	1.690	2.634	7.9	21.4
11 27	1 59.13	+10 52.5	1.769	2.649	11.8	21.7
12 7	1 54.48	+10 41.5	1.871	2.663	15.1	21.9

99082 2001 FA_{23} 10 31.2 289°.67 3°.0/28.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.11	+ 9 1.6	2.179	3.044	11.3	19.3
10 8	2 37.76	+ 7 43.3	2.101	3.033	8.2	19.1
10 18	2 31.76	+ 6 18.8	2.049	3.022	5.0	18.9
10 28	2 24.75	+ 4 53.8	2.025	3.010	3.0	18.7
11 7	2 17.50	+ 3 34.7	2.031	2.999	4.9	18.8
11 17	2 10.82	+ 2 27.5	2.065	2.988	8.2	19.0
11 27	2 5.47	+ 1 36.8	2.125	2.977	11.4	19.2
12 7	2 1.94	+ 1 4.6	2.207	2.966	14.1	19.4

273802 2007 FG_{24} 10 31.2 174°.90 2°.2/29.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.37	+11 29.3	1.689	2.553	14.0	21.3
10 8	2 41.94	+10 36.7	1.623	2.554	10.2	21.0
10 18	2 34.33	+ 9 36.2	1.581	2.555	5.9	20.8
10 28	2 25.39	+ 8 33.0	1.565	2.556	2.3	20.6
11 7	2 16.22	+ 7 33.9	1.578	2.556	4.6	20.7
11 17	2 7.93	+ 6 45.2	1.618	2.556	8.8	21.0
11 27	2 1.48	+ 6 11.9	1.683	2.556	12.8	21.2
12 7	1 57.47	+ 5 56.4	1.770	2.556	16.1	21.4

452652 2005 UU_{258} 10 31.2 13°.85 0°.9/30.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.42	+13 56.6	1.764	2.627	13.6	21.5
10 8	2 39.73	+13 23.8	1.699	2.629	9.9	21.3
10 18	2 33.01	+12 42.2	1.657	2.632	5.7	21.1
10 28	2 25.06	+11 55.6	1.642	2.634	1.5	20.8
11 7	2 16.90	+11 9.4	1.655	2.638	3.5	20.9
11 17	2 9.55	+10 29.1	1.695	2.641	7.8	21.2
11 27	2 3.90	+ 9 59.5	1.761	2.646	11.6	21.5
12 7	2 0.52	+ 9 43.9	1.849	2.650	14.9	21.7

25138 Jaumann 10 31.2 349°.21 0°.3/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.77	+14 29.6	1.530	2.395	15.1	18.5
10 8	2 41.82	+14 19.7	1.461	2.391	11.2	18.2
10 18	2 34.42	+14 0.3	1.414	2.388	6.6	17.9
10 28	2 25.44	+13 34.2	1.393	2.385	1.6	17.6
11 7	2 16.09	+13 6.1	1.398	2.383	3.6	17.8
11 17	2 7.64	+12 41.4	1.430	2.381	8.4	18.0
11 27	2 1.20	+12 25.4	1.487	2.380	12.8	18.3
12 7	1 57.44	+12 21.8	1.565	2.379	16.5	18.5

224773 2006 FV_{48} 10 31.2 246°.94 1°.1/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 47.90	+17 38.5	2.324	3.159	11.7	19.8
10 8	2 41.97	+17 52.2	2.245	3.158	8.8	19.6
10 18	2 34.24	+17 57.8	2.191	3.156	5.4	19.4
10 28	2 25.37	+17 56.2	2.165	3.154	1.9	19.2
11 7	2 16.22	+17 49.2	2.168	3.152	2.5	19.2
11 17	2 7.66	+17 39.6	2.201	3.151	6.0	19.5
11 27	2 0.51	+17 31.2	2.263	3.149	9.3	19.7
12 7	1 55.34	+17 27.3	2.348	3.147	12.2	19.9

321200 2008 YR_{19} 10 31.2 345°.82 3°.5/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.53	+22 49.6	1.194	2.060	18.5	19.6
10 8	2 39.48	+22 55.0	1.122	2.047	14.3	19.3
10 18	2 33.40	+22 39.1	1.070	2.036	9.5	19.0
10 28	2 25.24	+22 2.2	1.039	2.025	4.7	18.7
11 7	2 16.48	+21 8.9	1.032	2.016	4.5	18.7
11 17	2 8.74	+20 7.4	1.049	2.009	9.3	18.9
11 27	2 3.45	+19 8.2	1.088	2.004	14.3	19.2
12 7	2 1.45	+18 20.4	1.147	1.999	18.8	19.5

313319 2002 EW_{80} 10 31.2 171°.90 3°.9/ 4.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.17	+29 3.9	2.625	3.413	11.9	21.1
10 8	2 41.35	+29 8.4	2.543	3.416	9.5	20.9
10 18	2 33.83	+28 58.2	2.485	3.418	6.9	20.8
10 28	2 25.27	+28 32.9	2.453	3.420	4.6	20.6
11 7	2 16.48	+27 54.4	2.451	3.421	4.0	20.6
11 17	2 8.31	+27 6.3	2.478	3.422	5.8	20.7
11 27	2 1.50	+26 13.7	2.534	3.423	8.3	20.9
12 7	1 56.59	+25 22.1	2.615	3.423	10.8	21.0

452739 2006 BC_{65} 10 31.2 262°.20 4°.6/27.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.79	+ 1 36.6	2.245	3.109	11.0	21.5
10 8	2 38.87	+ 0 42.1	2.179	3.105	8.2	21.3
10 18	2 32.37	− 0 11.0	2.138	3.101	5.7	21.2
10 28	2 24.91	− 0 57.5	2.125	3.097	4.6	21.1
11 7	2 17.26	− 1 32.6	2.141	3.093	6.1	21.2
11 17	2 10.21	− 1 52.7	2.184	3.088	8.8	21.3
11 27	2 4.48	− 1 55.9	2.252	3.084	11.6	21.5
12 7	2 0.54	− 1 42.2	2.342	3.080	14.0	21.7

333011 2011 OB_{55} 10 31.2 61°.32 2°.7/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.06	+ 9 27.8	1.537	2.408	14.8	20.8
10 8	2 42.37	+ 8 44.8	1.493	2.427	10.7	20.6
10 18	2 34.50	+ 7 57.2	1.472	2.447	6.3	20.4
10 28	2 25.42	+ 7 10.6	1.477	2.467	2.8	20.2
11 7	2 16.32	+ 6 31.2	1.510	2.486	5.0	20.4
11 17	2 8.32	+ 6 4.0	1.569	2.506	9.1	20.7
11 27	2 2.34	+ 5 52.4	1.653	2.526	12.9	21.0
12 7	1 58.86	+ 5 57.4	1.757	2.546	16.0	21.2

211810 2004 DN_{39} 10 31.2 94°.52 0°.4/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.14	+16 49.0	1.901	2.749	13.4	20.7
10 8	2 41.62	+16 32.0	1.833	2.754	9.9	20.5
10 18	2 34.09	+16 4.8	1.789	2.759	5.9	20.2
10 28	2 25.34	+15 29.8	1.773	2.764	1.6	20.0
11 7	2 16.38	+14 51.1	1.784	2.769	2.9	20.1
11 17	2 8.23	+14 13.8	1.824	2.774	7.0	20.3
11 27	2 1.76	+13 43.0	1.891	2.779	10.8	20.6
12 7	1 57.56	+13 22.3	1.981	2.783	14.0	20.8

457984 2009 VC_{116} 10 31.2 341°.84 3°.8/28.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.95	+ 2 18.8	2.109	2.967	11.9	20.9
10 8	2 42.74	+ 2 17.4	2.039	2.964	8.8	20.7
10 18	2 34.68	+ 2 19.0	1.994	2.961	5.7	20.5
10 28	2 25.49	+ 2 26.9	1.977	2.958	3.8	20.4
11 7	2 16.06	+ 2 43.8	1.989	2.955	5.2	20.5
11 17	2 7.32	+ 3 11.3	2.030	2.953	8.3	20.7
11 27	2 0.08	+ 3 50.4	2.098	2.951	11.4	20.9
12 7	1 54.91	+ 4 40.6	2.188	2.949	14.2	21.1

456134 2006 DT_{110} 10 31.2 249°.43 2°.6/28.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.60	+ 8 35.9	2.460	3.320	10.3	22.0
10 8	2 37.95	+ 7 35.4	2.382	3.311	7.5	21.8
10 18	2 31.82	+ 6 30.5	2.329	3.301	4.5	21.6
10 28	2 24.78	+ 5 25.6	2.306	3.292	2.6	21.5
11 7	2 17.54	+ 4 25.8	2.313	3.283	4.2	21.6
11 17	2 10.81	+ 3 35.5	2.348	3.273	7.2	21.8
11 27	2 5.27	+ 2 58.5	2.411	3.263	10.2	21.9
12 7	2 1.39	+ 2 36.5	2.496	3.253	12.7	22.1

287069 2002 RH_{24} 10 31.2 58°.74 0°.9/31.8 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.95	+18 28.3	1.204	2.068	18.5	20.5
10 8	2 45.63	+18 4.9	1.168	2.096	13.6	20.3
10 18	2 36.51	+17 25.4	1.152	2.124	8.1	20.1
10 28	2 25.90	+16 34.0	1.161	2.152	2.4	19.9
11 7	2 15.42	+15 37.9	1.195	2.181	3.7	20.0
11 17	2 6.52	+14 45.4	1.256	2.210	9.0	20.4
11 27	2 0.28	+14 4.1	1.340	2.238	13.5	20.8
12 7	1 57.18	+13 38.4	1.444	2.266	17.3	21.1

18149 Colombatti 10 31.2 108°.09 1°.0/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 46.32	+12 46.2	2.011	2.867	12.5	19.1
10 8	2 40.90	+12 21.2	1.943	2.870	9.1	18.9
10 18	2 33.63	+11 49.5	1.900	2.873	5.3	18.7
10 28	2 25.23	+11 14.3	1.885	2.877	1.4	18.5
11 7	2 16.64	+10 39.9	1.898	2.880	3.3	18.6
11 17	2 8.78	+10 10.7	1.940	2.883	7.2	18.9
11 27	2 2.47	+ 9 50.8	2.009	2.886	10.7	19.1
12 7	1 58.27	+ 9 42.5	2.100	2.889	13.7	19.3

490896 2011 BP_{85} 10 31.2 256°.65 6°.1/24.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.86	− 5 56.1	2.647	3.498	10.0	22.4
10 8	2 38.79	− 6 56.3	2.573	3.481	8.0	22.2
10 18	2 32.29	− 7 50.9	2.525	3.464	6.5	22.1
10 28	2 24.91	− 8 34.8	2.504	3.446	6.2	22.1
11 7	2 17.29	− 9 3.6	2.512	3.428	7.4	22.1
11 17	2 10.14	− 9 14.5	2.547	3.409	9.4	22.2
11 27	2 4.10	− 9 6.6	2.607	3.390	11.6	22.3
12 7	1 59.64	− 8 40.6	2.687	3.371	13.5	22.5

14352 1987 DK_{6} 10 31.2 123°.14 1°.6/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 53.65	+20 13.0	1.536	2.377	16.4	18.3
10 8	2 46.69	+19 57.4	1.479	2.393	12.3	18.1
10 18	2 37.15	+19 26.0	1.443	2.409	7.6	17.8
10 28	2 26.10	+18 40.9	1.434	2.423	2.8	17.6
11 7	2 14.92	+17 47.3	1.452	2.437	3.4	17.7
11 17	2 4.96	+16 52.5	1.499	2.450	8.0	18.0
11 27	1 57.32	+16 3.9	1.571	2.463	12.3	18.3
12 7	1 52.58	+15 27.2	1.666	2.475	15.9	18.5

39813 1997 XV_{4} 10 31.2 316°.98 2°.0/30.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.49	+12 12.6	1.257	2.136	16.9	17.9
10 8	2 42.80	+11 35.9	1.189	2.127	12.4	17.7
10 18	2 35.21	+10 48.6	1.141	2.118	7.3	17.3
10 28	2 25.69	+ 9 56.3	1.118	2.110	2.4	17.0
11 7	2 15.68	+ 9 6.6	1.120	2.102	5.1	17.2
11 17	2 6.71	+ 8 27.3	1.147	2.094	10.5	17.5
11 27	2 0.10	+ 8 4.8	1.197	2.087	15.5	17.7
12 7	1 56.63	+ 8 2.5	1.266	2.081	19.6	18.0

363741 2004 XA_{96} 10 31.2 3°.38 18°.7/24.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.60	−29 2.2	1.260	2.072	20.9	18.4
10 8	2 44.00	−29 42.5	1.233	2.070	19.7	18.3
10 18	2 35.59	−29 43.8	1.222	2.071	18.9	18.3
10 28	2 25.69	−28 57.1	1.228	2.074	18.8	18.3
11 7	2 15.89	−27 20.0	1.252	2.080	19.4	18.4
11 17	2 7.62	−24 57.1	1.295	2.088	20.7	18.5
11 27	2 1.95	−21 57.9	1.355	2.098	22.2	18.6
12 7	1 59.35	−18 34.5	1.431	2.110	23.7	18.8

60245 1999 VA_{190} 10 31.2 7°.36 1°.1/ 1.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.39	+20 14.1	1.316	2.178	17.4	19.1
10 8	2 41.85	+19 32.6	1.252	2.178	13.0	18.8
10 18	2 34.54	+18 31.3	1.208	2.179	8.0	18.6
10 28	2 25.49	+17 14.1	1.189	2.180	2.5	18.2
11 7	2 16.14	+15 49.1	1.195	2.181	3.6	18.3
11 17	2 7.92	+14 26.1	1.227	2.182	9.0	18.6
11 27	2 2.02	+13 15.1	1.283	2.184	13.8	18.9
12 7	1 59.13	+12 22.5	1.360	2.186	17.9	19.2

64028 2001 SJ_{163} 10 31.2 267°.26 0°.0/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.14	+15 56.8	1.607	2.465	14.9	19.3
10 8	2 42.80	+15 33.0	1.531	2.457	11.1	19.1
10 18	2 35.01	+14 57.3	1.478	2.450	6.6	18.8
10 28	2 25.63	+14 13.0	1.450	2.443	1.6	18.5
11 7	2 15.84	+13 25.2	1.451	2.435	3.5	18.6
11 17	2 6.90	+12 40.2	1.478	2.427	8.4	18.9
11 27	1 59.93	+12 4.6	1.531	2.420	12.8	19.1
12 7	1 55.63	+11 42.9	1.605	2.412	16.5	19.3

523350 2017 BL_{141} 10 31.2 134°.93 1°.5/29.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.86	+12 5.2	2.516	3.370	10.3	21.6
10 8	2 38.03	+11 7.9	2.449	3.376	7.5	21.4
10 18	2 31.81	+10 4.7	2.408	3.381	4.3	21.2
10 28	2 24.78	+ 8 59.5	2.397	3.387	1.6	21.1
11 7	2 17.65	+ 7 57.0	2.415	3.392	3.3	21.2
11 17	2 11.09	+ 7 1.6	2.463	3.397	6.4	21.4
11 27	2 5.73	+ 6 17.3	2.539	3.402	9.3	21.6
12 7	2 2.00	+ 5 46.2	2.638	3.407	11.8	21.8

193483 2000 XN_{46} 10 31.2 13°.62 6°.6/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.92	+24 54.0	1.220	2.065	19.6	18.3
10 8	2 47.21	+26 23.1	1.162	2.068	15.6	18.1
10 18	2 38.01	+27 34.5	1.123	2.074	11.2	17.8
10 28	2 26.42	+28 22.5	1.106	2.080	7.5	17.6
11 7	2 14.20	+28 45.6	1.114	2.088	7.0	17.7
11 17	2 3.24	+28 47.1	1.147	2.097	10.2	17.9
11 27	1 55.16	+28 35.4	1.203	2.107	14.3	18.1
12 7	1 50.85	+28 20.1	1.278	2.118	18.0	18.4

448557 2010 RT_{108} 10 31.2 69°.19 5°.1/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 52.29	+27 46.9	1.922	2.725	15.0	20.9
10 8	2 45.57	+28 31.6	1.859	2.741	12.0	20.8
10 18	2 36.50	+28 59.5	1.819	2.756	8.7	20.6
10 28	2 25.98	+29 8.5	1.805	2.772	5.8	20.5
11 7	2 15.18	+28 59.6	1.818	2.787	5.3	20.5
11 17	2 5.31	+28 36.6	1.860	2.803	7.4	20.6
11 27	1 57.42	+28 5.7	1.928	2.818	10.5	20.8
12 7	1 52.14	+27 33.8	2.020	2.834	13.3	21.1

458001 2009 WR_{70} 10 31.2 357°.32 0°.9/30.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.16	+13 23.2	1.625	2.495	14.2	21.1
10 8	2 39.03	+13 3.3	1.557	2.491	10.4	20.9
10 18	2 32.73	+12 34.9	1.513	2.488	6.0	20.7
10 28	2 25.05	+12 1.8	1.494	2.486	1.5	20.4
11 7	2 17.09	+11 29.0	1.502	2.485	3.6	20.5
11 17	2 9.92	+11 1.6	1.536	2.485	8.1	20.8
11 27	2 4.54	+10 44.5	1.595	2.486	12.2	21.0
12 7	2 1.56	+10 40.6	1.676	2.488	15.7	21.3

328000 2007 GW_{66} 10 31.2 318°.83 0°.6/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.25	+19 2.2	2.100	2.945	12.4	20.9
10 8	2 38.71	+18 21.7	2.022	2.940	9.3	20.7
10 18	2 32.39	+17 28.6	1.967	2.935	5.6	20.5
10 28	2 24.96	+16 26.0	1.939	2.930	1.7	20.2
11 7	2 17.30	+15 18.6	1.941	2.926	2.6	20.3
11 17	2 10.30	+14 12.3	1.971	2.921	6.5	20.5
11 27	2 4.75	+13 13.1	2.028	2.917	10.1	20.7
12 7	2 1.19	+12 25.5	2.110	2.913	13.2	20.9

113776 2002 TP_{184} 10 31.2 324°.99 1°.3/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.75	+20 4.3	1.766	2.613	14.3	19.3
10 8	2 40.86	+19 37.6	1.692	2.610	10.8	19.1
10 18	2 33.79	+18 56.1	1.640	2.607	6.7	18.9
10 28	2 25.34	+18 2.4	1.614	2.604	2.4	18.6
11 7	2 16.60	+17 1.4	1.616	2.601	3.0	18.6
11 17	2 8.67	+15 59.6	1.646	2.599	7.3	18.9
11 27	2 2.52	+15 4.1	1.702	2.596	11.4	19.1
12 7	1 58.79	+14 20.3	1.781	2.594	14.9	19.4

91544 1999 RM_{207} 10 31.2 331°.03 2°.1/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.47	+23 18.4	2.094	2.923	13.1	19.6
10 8	2 39.65	+22 51.3	2.016	2.921	10.0	19.4
10 18	2 32.96	+22 9.0	1.961	2.920	6.5	19.2
10 28	2 25.12	+21 13.3	1.933	2.919	3.0	19.0
11 7	2 17.06	+20 8.2	1.934	2.917	2.9	19.0
11 17	2 9.70	+18 59.6	1.963	2.916	6.3	19.2
11 27	2 3.87	+17 54.0	2.020	2.915	9.8	19.4
12 7	2 0.14	+16 57.0	2.101	2.914	12.9	19.6

216165 2006 SE_{383} 10 31.2 204°.56 0°.4/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.34	+14 22.6	2.235	3.081	11.7	21.8
10 8	2 41.58	+14 3.3	2.156	3.077	8.6	21.6
10 18	2 34.05	+13 36.6	2.103	3.074	5.0	21.4
10 28	2 25.40	+13 4.9	2.077	3.069	1.2	21.1
11 7	2 16.50	+12 31.9	2.082	3.065	2.8	21.2
11 17	2 8.22	+12 1.5	2.115	3.060	6.6	21.5
11 27	2 1.37	+11 38.0	2.177	3.054	10.0	21.7
12 7	1 56.51	+11 24.1	2.262	3.049	13.0	21.9

404798 2014 JQ_{60} 10 31.3 144°.90 0°.0/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.27	+16 59.8	2.273	3.114	11.8	21.8
10 8	2 40.67	+16 17.3	2.205	3.123	8.6	21.6
10 18	2 33.43	+15 25.0	2.162	3.132	5.1	21.4
10 28	2 25.23	+14 25.9	2.148	3.140	1.3	21.1
11 7	2 16.91	+13 24.9	2.163	3.147	2.6	21.2
11 17	2 9.29	+12 26.9	2.209	3.154	6.3	21.5
11 27	2 3.11	+11 36.8	2.282	3.161	9.6	21.7
12 7	1 58.83	+10 58.3	2.380	3.167	12.4	21.9

52581 1997 NB_{1} 10 31.3 143°.39 0°.0/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.75	+15 51.9	1.853	2.699	13.8	19.3
10 8	2 44.26	+15 30.3	1.788	2.709	10.1	19.1
10 18	2 35.66	+14 58.8	1.748	2.718	6.0	18.9
10 28	2 25.80	+14 20.1	1.735	2.727	1.5	18.6
11 7	2 15.77	+13 38.9	1.751	2.735	3.1	18.7
11 17	2 6.64	+13 0.2	1.796	2.743	7.4	19.0
11 27	1 59.34	+12 29.3	1.868	2.750	11.2	19.2
12 7	1 54.45	+12 9.9	1.962	2.756	14.4	19.5

142796 2002 UH_{20} 10 31.3 86°.92 0°.6/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.65	+18 28.0	1.856	2.703	13.7	19.9
10 8	2 41.27	+17 55.4	1.794	2.713	10.2	19.7
10 18	2 33.90	+17 10.4	1.755	2.724	6.1	19.5
10 28	2 25.36	+16 16.1	1.743	2.734	1.8	19.2
11 7	2 16.68	+15 17.7	1.760	2.745	2.8	19.3
11 17	2 8.87	+14 21.2	1.805	2.755	7.0	19.6
11 27	2 2.80	+13 32.4	1.876	2.765	10.8	19.9
12 7	1 59.00	+12 55.9	1.971	2.775	14.0	20.1

118864 2000 SQ_{351} 10 31.3 44°.30 6°.7/27.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 50.59	− 3 19.0	1.624	2.488	14.5	19.0
10 8	2 44.06	− 3 39.4	1.585	2.507	11.1	18.9
10 18	2 35.45	− 3 50.8	1.570	2.526	8.0	18.8
10 28	2 25.72	− 3 47.9	1.580	2.546	6.7	18.7
11 7	2 16.02	− 3 27.2	1.618	2.566	8.1	18.9
11 17	2 7.43	− 2 48.1	1.681	2.587	10.9	19.1
11 27	2 0.83	− 1 51.6	1.769	2.607	13.9	19.3
12 7	1 56.69	− 0 40.8	1.877	2.628	16.5	19.6

516312 2016 YF_{7} 10 31.3 280°.28 3°.1/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.12	+ 7 45.3	1.777	2.644	13.3	21.3
10 8	2 41.85	+ 7 8.9	1.698	2.630	9.8	21.1
10 18	2 34.40	+ 6 28.6	1.644	2.616	5.9	20.8
10 28	2 25.53	+ 5 49.3	1.616	2.603	3.1	20.6
11 7	2 16.26	+ 5 16.4	1.615	2.589	5.2	20.7
11 17	2 7.69	+ 4 54.8	1.642	2.575	9.1	20.9
11 27	2 0.82	+ 4 48.4	1.695	2.561	13.0	21.1
12 7	1 56.32	+ 4 58.5	1.768	2.548	16.3	21.3

338458 2003 FE_{20} 10 31.3 221°.89 0°.9/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.19	+16 54.7	1.940	2.778	13.6	21.1
10 8	2 45.52	+17 2.3	1.855	2.770	10.2	20.9
10 18	2 36.56	+17 0.7	1.794	2.761	6.2	20.7
10 28	2 26.08	+16 50.8	1.761	2.752	2.0	20.4
11 7	2 15.14	+16 34.9	1.758	2.742	2.9	20.4
11 17	2 4.90	+16 17.1	1.783	2.732	7.2	20.7
11 27	1 56.41	+16 2.0	1.836	2.721	11.2	20.9
12 7	1 50.39	+15 54.0	1.912	2.709	14.6	21.1

220737 2004 TJ_{17} 10 31.3 245°.96 0°.0/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.56	+15 35.1	2.211	3.058	11.8	20.8
10 8	2 40.32	+15 17.8	2.134	3.055	8.7	20.6
10 18	2 33.33	+14 52.3	2.082	3.052	5.1	20.3
10 28	2 25.24	+14 20.9	2.057	3.049	1.3	20.1
11 7	2 16.91	+13 47.1	2.062	3.046	2.6	20.2
11 17	2 9.20	+13 15.1	2.095	3.043	6.4	20.4
11 27	2 2.90	+12 49.2	2.157	3.040	9.9	20.6
12 7	1 58.56	+12 32.4	2.241	3.036	12.8	20.8

313154 2001 DY_{58} 10 31.3 145°.26 4°.7/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.61	− 3 31.9	2.828	3.671	9.7	20.6
10 8	2 41.99	− 3 50.5	2.770	3.680	7.4	20.5
10 18	2 34.07	− 4 3.7	2.739	3.688	5.5	20.4
10 28	2 25.40	− 4 8.2	2.737	3.697	4.7	20.3
11 7	2 16.66	− 4 1.4	2.766	3.704	5.7	20.4
11 17	2 8.51	− 3 42.2	2.824	3.712	7.7	20.6
11 27	2 1.54	− 3 10.3	2.909	3.719	9.8	20.7
12 7	1 56.17	− 2 26.6	3.018	3.725	11.7	20.9

42769 1998 TA_{1} 10 31.3 103°.45 0°.2/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.52	+15 8.8	2.427	3.271	11.0	19.7
10 8	2 40.01	+14 44.6	2.366	3.286	8.0	19.5
10 18	2 33.01	+14 13.3	2.330	3.300	4.7	19.3
10 28	2 25.14	+13 37.5	2.323	3.315	1.1	19.1
11 7	2 17.19	+13 0.6	2.346	3.329	2.5	19.2
11 17	2 9.90	+12 26.5	2.398	3.343	5.9	19.5
11 27	2 3.93	+11 58.8	2.479	3.357	8.9	19.7
12 7	1 59.73	+11 40.2	2.584	3.371	11.5	19.9

75961 2000 CZ_{98} 10 31.3 51°.02 2°.0/29.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.78	+10 28.2	1.944	2.808	12.5	18.7
10 8	2 39.69	+ 9 47.2	1.896	2.827	9.0	18.6
10 18	2 32.87	+ 9 1.6	1.873	2.847	5.2	18.4
10 28	2 25.11	+ 8 15.8	1.877	2.867	2.1	18.2
11 7	2 17.31	+ 7 34.7	1.910	2.888	4.0	18.4
11 17	2 10.34	+ 7 2.7	1.971	2.908	7.5	18.6
11 27	2 4.93	+ 6 43.1	2.058	2.929	10.8	18.9
12 7	2 1.54	+ 6 37.4	2.167	2.950	13.6	19.1

40388 1999 NY_{49} 10 31.3 106°.79 0°.0/31.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.43	+16 47.6	1.542	2.395	15.7	18.8
10 8	2 44.96	+16 7.9	1.489	2.413	11.5	18.6
10 18	2 36.12	+15 15.3	1.460	2.431	6.8	18.4
10 28	2 25.92	+14 14.3	1.457	2.449	1.6	18.1
11 7	2 15.68	+13 11.4	1.482	2.466	3.5	18.2
11 17	2 6.62	+12 13.7	1.534	2.482	8.2	18.6
11 27	1 59.75	+11 27.9	1.613	2.498	12.4	18.9
12 7	1 55.59	+10 57.7	1.713	2.513	15.9	19.1

220118 2002 TO_{47} 10 31.3 344°.82 0°.5/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.01	+14 9.5	1.043	1.930	18.9	19.3
10 8	2 43.10	+14 37.2	0.976	1.917	14.2	19.0
10 18	2 35.75	+14 56.0	0.929	1.905	8.5	18.6
10 28	2 25.96	+15 7.0	0.903	1.895	2.3	18.2
11 7	2 15.42	+15 13.3	0.900	1.887	4.3	18.3
11 17	2 5.97	+15 19.7	0.921	1.880	10.5	18.7
11 27	1 59.31	+15 32.1	0.963	1.874	16.1	19.0
12 7	1 56.36	+15 54.9	1.023	1.871	20.9	19.2

330837 2009 MQ_{2} 10 31.3 21°.11 7°.6/27.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.25	+ 1 55.1	0.926	1.831	19.1	19.6
10 8	2 41.32	+ 0 54.7	0.894	1.841	14.3	19.4
10 18	2 34.29	− 0 0.6	0.880	1.852	9.7	19.2
10 28	2 25.49	− 0 39.9	0.887	1.866	7.6	19.1
11 7	2 16.63	− 0 54.9	0.916	1.881	9.9	19.3
11 17	2 9.30	− 0 41.8	0.966	1.897	14.1	19.6
11 27	2 4.71	− 0 1.2	1.036	1.915	18.3	19.9
12 7	2 3.39	+ 1 2.6	1.123	1.934	21.8	20.2

137566 1999 VO_{104} 10 31.3 38°.35 1°.7/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.76	+10 30.8	1.171	2.050	17.9	19.7
10 8	2 45.84	+10 32.9	1.123	2.060	13.1	19.5
10 18	2 36.91	+10 29.3	1.095	2.071	7.6	19.2
10 28	2 26.16	+10 23.8	1.091	2.082	2.3	18.9
11 7	2 15.20	+10 21.0	1.112	2.094	4.8	19.1
11 17	2 5.64	+10 25.5	1.158	2.107	10.1	19.5
11 27	1 58.72	+10 41.0	1.227	2.120	14.9	19.8
12 7	1 55.09	+11 9.2	1.315	2.134	18.8	20.1

523165 2016 TT_{98} 10 31.3 53°.04 2°.6/29.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.57	+10 39.9	1.407	2.281	15.7	20.6
10 8	2 42.23	+ 9 49.6	1.363	2.299	11.3	20.4
10 18	2 34.54	+ 8 52.9	1.342	2.317	6.6	20.2
10 28	2 25.54	+ 7 55.9	1.346	2.335	2.7	20.0
11 7	2 16.51	+ 7 6.0	1.376	2.354	5.1	20.2
11 17	2 8.65	+ 6 29.2	1.433	2.373	9.5	20.5
11 27	2 2.93	+ 6 9.6	1.514	2.392	13.5	20.8
12 7	1 59.86	+ 6 8.5	1.615	2.412	16.9	21.0

121656 Jamesrogers 10 31.3 287°.53 4°.4/28.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.12	+ 1 17.5	2.164	3.022	11.6	18.8
10 8	2 42.26	+ 0 59.2	2.081	3.005	8.8	18.6
10 18	2 34.53	+ 0 43.6	2.023	2.987	5.9	18.4
10 28	2 25.58	+ 0 35.0	1.992	2.969	4.4	18.2
11 7	2 16.27	+ 0 37.1	1.991	2.951	5.8	18.3
11 17	2 7.52	+ 0 52.2	2.018	2.933	8.8	18.5
11 27	2 0.19	+ 1 21.8	2.071	2.915	11.9	18.6
12 7	1 54.86	+ 2 5.5	2.146	2.897	14.7	18.8

177728 2005 JE_{3} 10 31.3 98°.20 1°.6/30.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.61	+12 3.8	1.589	2.447	15.1	20.8
10 8	2 45.66	+11 32.0	1.543	2.470	10.9	20.6
10 18	2 36.46	+10 53.1	1.520	2.493	6.3	20.4
10 28	2 26.01	+10 11.7	1.524	2.516	1.9	20.2
11 7	2 15.58	+ 9 33.2	1.557	2.538	4.1	20.4
11 17	2 6.34	+ 9 2.9	1.617	2.559	8.5	20.7
11 27	1 59.23	+ 8 45.1	1.703	2.579	12.4	21.0
12 7	1 54.75	+ 8 41.8	1.811	2.599	15.6	21.2

393587 2003 SB_{338} 10 31.3 342°.63 0°.3/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.38	+19 24.2	1.295	2.168	16.9	20.0
10 8	2 38.31	+18 24.1	1.223	2.156	12.6	19.8
10 18	2 32.59	+17 2.7	1.172	2.146	7.6	19.4
10 28	2 25.13	+15 25.2	1.145	2.137	2.0	19.1
11 7	2 17.26	+13 41.1	1.143	2.128	3.8	19.2
11 17	2 10.35	+12 1.8	1.166	2.121	9.3	19.5
11 27	2 5.61	+10 38.1	1.213	2.115	14.3	19.8
12 7	2 3.74	+ 9 36.8	1.280	2.111	18.6	20.0

412361 2013 LH_{21} 10 31.3 69°.11 2°.0/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.00	+24 21.6	2.191	3.013	12.8	20.9
10 8	2 39.77	+23 35.5	2.133	3.035	9.7	20.7
10 18	2 32.90	+22 34.2	2.100	3.057	6.3	20.5
10 28	2 25.13	+21 20.6	2.094	3.079	2.9	20.3
11 7	2 17.36	+19 59.5	2.117	3.101	2.7	20.4
11 17	2 10.41	+18 37.3	2.170	3.123	5.9	20.6
11 27	2 4.98	+17 20.4	2.252	3.145	9.1	20.9
12 7	2 1.52	+16 13.9	2.358	3.166	11.8	21.1

362307 2009 TU_{21} 10 31.3 74°.29 0°.4/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.09	+14 31.7	2.132	2.982	12.1	20.6
10 8	2 40.60	+14 10.7	2.075	2.998	8.8	20.5
10 18	2 33.42	+13 42.4	2.042	3.013	5.1	20.3
10 28	2 25.28	+13 9.5	2.037	3.029	1.2	20.0
11 7	2 17.04	+12 36.1	2.061	3.044	2.8	20.2
11 17	2 9.55	+12 6.0	2.114	3.060	6.5	20.4
11 27	2 3.57	+11 43.3	2.194	3.075	9.8	20.7
12 7	1 59.55	+11 30.5	2.298	3.090	12.6	20.9

290117 2005 QL_{128} 10 31.3 310°.89 1°.7/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.65	+11 17.5	1.951	2.812	12.6	20.5
10 8	2 40.54	+10 45.7	1.880	2.809	9.2	20.3
10 18	2 33.53	+10 7.9	1.833	2.807	5.3	20.1
10 28	2 25.34	+ 9 27.8	1.814	2.804	1.9	19.9
11 7	2 16.90	+ 8 50.3	1.822	2.802	3.8	20.0
11 17	2 9.17	+ 8 19.9	1.860	2.800	7.7	20.2
11 27	2 3.00	+ 8 0.7	1.923	2.798	11.3	20.5
12 7	1 58.95	+ 7 54.9	2.008	2.795	14.4	20.7

484165 2006 US_{136} 10 31.3 351°.49 2°.3/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 40.92	+23 56.2	1.393	2.249	16.9	20.5
10 8	2 37.86	+23 9.1	1.320	2.241	13.0	20.2
10 18	2 32.27	+21 58.0	1.268	2.234	8.4	19.9
10 28	2 25.05	+20 26.1	1.240	2.228	3.6	19.7
11 7	2 17.49	+18 41.3	1.238	2.224	3.5	19.6
11 17	2 10.88	+16 54.3	1.262	2.221	8.3	19.9
11 27	2 6.36	+15 16.5	1.310	2.219	13.0	20.2
12 7	2 4.58	+13 56.4	1.380	2.218	17.0	20.4

386863 2011 DB_{13} 10 31.3 288°.97 4°.7/ 3.1 18

9 28	2 50.29	+25 48.5	1.475	2.307	17.4	21.0
10 8	2 44.91	+26 9.5	1.396	2.298	13.8	20.7
10 18	2 36.56	+26 10.7	1.337	2.290	9.6	20.5
10 28	2 26.17	+25 50.2	1.302	2.281	5.8	20.2
11 7	2 15.15	+25 10.1	1.293	2.272	5.2	20.2
11 17	2 5.08	+24 16.5	1.310	2.264	8.7	20.4
11 27	1 57.34	+23 18.7	1.352	2.255	13.1	20.6
12 7	1 52.79	+22 25.9	1.415	2.247	17.0	20.8

149694 2004 HY_{15} 10 31.3 98°.88 7°.0/26.3 17

9 28	2 48.83	− 0 59.0	1.598	2.468	14.4	20.1
10 8	2 42.89	− 2 19.7	1.558	2.484	11.0	19.9
10 18	2 34.84	− 3 34.9	1.541	2.499	8.0	19.8
10 28	2 25.64	− 4 36.1	1.551	2.514	7.1	19.8
11 7	2 16.41	− 5 16.7	1.587	2.529	8.8	19.9
11 17	2 8.25	− 5 32.9	1.648	2.543	11.8	20.1
11 27	2 2.02	− 5 24.2	1.733	2.557	14.8	20.4
12 7	1 58.23	− 4 53.2	1.836	2.571	17.4	20.6

229799 2008 SN_{18} 10 31.3 24°.26 0°.6/30.8 17

9 28	2 44.17	+14 10.3	2.053	2.909	12.2	20.9
10 8	2 39.36	+13 43.7	1.986	2.913	8.9	20.7
10 18	2 32.79	+13 9.4	1.944	2.917	5.2	20.5
10 28	2 25.15	+12 30.5	1.929	2.921	1.3	20.2
11 7	2 17.33	+11 51.4	1.942	2.925	3.0	20.4
11 17	2 10.21	+11 16.6	1.984	2.930	6.8	20.6
11 27	2 4.56	+10 50.1	2.052	2.935	10.3	20.9
12 7	2 0.91	+10 35.0	2.144	2.940	13.3	21.1

358173 2006 SL_{57} 10 31.3 33°.22 0°.8/30.6 15

9 28	2 44.96	+14 55.4	1.726	2.588	13.9	21.3
10 8	2 40.19	+14 10.6	1.663	2.592	10.2	21.1
10 18	2 33.37	+13 15.4	1.623	2.597	5.9	20.9
10 28	2 25.31	+12 14.1	1.610	2.602	1.5	20.6
11 7	2 17.06	+11 13.0	1.624	2.607	3.5	20.8
11 17	2 9.66	+10 18.4	1.666	2.613	7.9	21.1
11 27	2 4.02	+ 9 35.9	1.734	2.619	11.8	21.3
12 7	2 0.68	+ 9 9.0	1.824	2.625	15.1	21.5

373176 2012 DX_{33} 10 31.3 124°.73 3°.3/ 2.3 17

9 28	2 53.00	+23 8.9	1.468	2.305	17.2	21.3
10 8	2 46.58	+23 16.0	1.404	2.313	13.2	21.0
10 18	2 37.34	+23 4.6	1.362	2.321	8.7	20.8
10 28	2 26.32	+22 35.0	1.344	2.328	4.4	20.6
11 7	2 15.00	+21 50.9	1.353	2.336	4.1	20.6
11 17	2 4.84	+20 59.2	1.389	2.342	8.3	20.8
11 27	1 57.10	+20 8.5	1.450	2.349	12.7	21.1
12 7	1 52.46	+19 26.2	1.533	2.355	16.4	21.4

483100 2015 MH_{88} 10 31.3 29°.89 2°.2/29.8 16

9 28	2 45.97	+11 11.0	1.502	2.375	15.0	20.9
10 8	2 41.12	+10 30.6	1.447	2.382	10.9	20.7
10 18	2 33.98	+ 9 43.0	1.414	2.389	6.3	20.4
10 28	2 25.46	+ 8 53.6	1.406	2.397	2.4	20.2
11 7	2 16.77	+ 8 8.9	1.425	2.405	4.6	20.4
11 17	2 9.07	+ 7 34.8	1.471	2.414	9.1	20.7
11 27	2 3.35	+ 7 15.8	1.541	2.423	13.2	20.9
12 7	2 0.18	+ 7 13.9	1.632	2.432	16.6	21.2

196122 2002 TL_{193} 10 31.3 343°.33 4°.3/ 3.6 17

9 28	2 48.14	+27 13.1	2.238	3.041	13.2	20.1
10 8	2 42.45	+27 47.0	2.156	3.039	10.5	19.9
10 18	2 34.74	+28 6.8	2.097	3.036	7.6	19.8
10 28	2 25.69	+28 11.1	2.065	3.034	5.0	19.6
11 7	2 16.25	+28 0.8	2.061	3.032	4.5	19.6
11 17	2 7.43	+27 38.7	2.085	3.030	6.6	19.7
11 27	2 0.17	+27 10.0	2.137	3.029	9.5	19.9
12 7	1 55.11	+26 40.3	2.213	3.027	12.3	20.1

509420 2007 EQ_{47} 10 31.3 302°.61 1°.6/ 1.1 18

9 28	2 48.85	+18 27.6	1.427	2.285	16.5	21.7
10 8	2 43.87	+18 32.2	1.344	2.268	12.5	21.4
10 18	2 35.99	+18 23.1	1.281	2.250	7.8	21.1
10 28	2 26.06	+18 0.9	1.243	2.233	2.8	20.7
11 7	2 15.43	+17 29.5	1.231	2.217	3.6	20.7
11 17	2 5.61	+16 54.6	1.245	2.200	8.9	21.0
11 27	1 58.00	+16 23.9	1.284	2.184	13.8	21.2
12 7	1 53.48	+16 3.6	1.343	2.169	18.1	21.5

43706 Iphiklos 10 31.3 357°.47 1°.8/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 37.18	+ 7 31.0	3.861	4.717	7.0	19.1
10 8	2 33.61	+ 6 48.2	3.789	4.716	5.1	19.0
10 18	2 29.18	+ 6 3.8	3.745	4.716	3.1	18.8
10 28	2 24.25	+ 5 20.3	3.730	4.715	1.8	18.7
11 7	2 19.23	+ 4 40.3	3.746	4.715	2.9	18.8
11 17	2 14.51	+ 4 6.3	3.792	4.715	4.8	19.0
11 27	2 10.50	+ 3 40.2	3.866	4.715	6.8	19.1
12 7	2 7.49	+ 3 23.3	3.965	4.715	8.5	19.2

319333 2006 BR_{224} 10 31.3 131°.85 5°.9/24.9 18

9 28	2 43.21	− 4 15.8	2.537	3.394	10.2	20.9
10 8	2 38.27	− 5 29.5	2.488	3.402	8.0	20.8
10 18	2 32.00	− 6 37.8	2.465	3.409	6.3	20.7
10 28	2 24.95	− 7 35.0	2.470	3.416	6.0	20.7
11 7	2 17.83	− 8 16.8	2.503	3.423	7.2	20.8
11 17	2 11.28	− 8 40.4	2.564	3.430	9.2	20.9
11 27	2 5.91	− 8 44.9	2.648	3.437	11.3	21.1
12 7	2 2.13	− 8 31.3	2.754	3.443	13.1	21.3

451605 2012 DN_{12} 10 31.3 278°.34 5°.6/26.1 18

9 28	2 43.88	− 0 28.7	2.121	2.987	11.5	21.2
10 8	2 39.11	− 1 36.6	2.054	2.978	8.8	21.0
10 18	2 32.65	− 2 41.9	2.012	2.970	6.4	20.9
10 28	2 25.14	− 3 38.4	1.997	2.961	5.7	20.8
11 7	2 17.41	− 4 20.6	2.010	2.952	7.2	20.9
11 17	2 10.29	− 4 44.5	2.050	2.943	9.9	21.0
11 27	2 4.53	− 4 48.1	2.114	2.934	12.6	21.2
12 7	2 0.67	− 4 32.0	2.198	2.925	15.1	21.4

448560 2010 RZ_{124} 10 31.3 78°.40 0°.7/30.7 18

9 28	2 46.61	+13 36.0	1.970	2.824	12.7	21.1
10 8	2 41.19	+13 14.2	1.904	2.830	9.3	20.9
10 18	2 33.89	+12 45.1	1.863	2.836	5.4	20.7
10 28	2 25.45	+12 11.7	1.849	2.841	1.4	20.4
11 7	2 16.82	+11 38.3	1.864	2.847	3.2	20.5
11 17	2 8.95	+11 9.2	1.907	2.853	7.1	20.8
11 27	2 2.67	+10 48.7	1.977	2.858	10.7	21.0
12 7	1 58.54	+10 39.4	2.070	2.864	13.8	21.3

489345 2006 UE_{41} 10 31.3 46°.22 0°.0/31.2 18

9 28	2 48.78	+15 7.8	1.569	2.428	15.2	20.8
10 8	2 43.04	+15 2.9	1.520	2.447	11.1	20.6
10 18	2 35.04	+14 48.6	1.493	2.465	6.5	20.4
10 28	2 25.73	+14 27.6	1.492	2.484	1.6	20.2
11 7	2 16.33	+14 4.2	1.519	2.504	3.2	20.3
11 17	2 8.00	+13 43.2	1.573	2.524	7.8	20.6
11 27	2 1.72	+13 29.4	1.653	2.544	11.8	20.9
12 7	1 58.01	+13 26.0	1.754	2.565	15.2	21.2

226413 2003 QF_{101} 10 31.3 49°.89 3°.8/ 3.4 18

9 28	2 47.51	+26 9.4	2.101	2.914	13.6	20.0
10 8	2 41.95	+26 26.7	2.031	2.921	10.7	19.8
10 18	2 34.39	+26 28.9	1.983	2.929	7.5	19.7
10 28	2 25.59	+26 15.7	1.962	2.936	4.6	19.5
11 7	2 16.53	+25 48.9	1.968	2.944	4.1	19.5
11 17	2 8.23	+25 12.7	2.003	2.952	6.5	19.7
11 27	2 1.58	+24 32.9	2.066	2.961	9.6	19.9
12 7	1 57.17	+23 55.1	2.152	2.969	12.5	20.1

136005 2002 VB_{56} 10 31.3 70°.57 3°.2/28.8 18

9 28	2 46.19	+ 7 55.7	1.763	2.632	13.3	19.9
10 8	2 40.93	+ 7 2.2	1.710	2.643	9.7	19.7
10 18	2 33.73	+ 6 5.2	1.681	2.654	5.8	19.5
10 28	2 25.40	+ 5 10.5	1.679	2.665	3.3	19.4
11 7	2 16.97	+ 4 24.1	1.705	2.677	5.2	19.5
11 17	2 9.43	+ 3 51.0	1.758	2.688	8.9	19.8
11 27	2 3.60	+ 3 34.3	1.837	2.700	12.3	20.0
12 7	2 0.01	+ 3 34.9	1.937	2.711	15.3	20.2

487301 2014 QZ_{61} 10 31.3 200°.92 6°.3/ 6.2 17

9 28	2 49.51	+35 33.4	2.389	3.145	13.8	21.7
10 8	2 43.48	+35 58.0	2.303	3.142	11.6	21.5
10 18	2 35.35	+36 3.4	2.238	3.140	9.2	21.3
10 28	2 25.85	+35 47.4	2.198	3.137	7.1	21.2
11 7	2 15.99	+35 10.6	2.185	3.134	6.3	21.2
11 17	2 6.81	+34 16.6	2.201	3.130	7.4	21.2
11 27	1 59.29	+33 11.6	2.244	3.127	9.5	21.4
12 7	1 54.06	+32 3.1	2.311	3.123	11.9	21.5

265250 2004 EW_{40} 10 31.3 241°.58 1°.3/ 1.1 18

9 28	2 50.24	+19 5.8	1.733	2.576	14.7	20.8
10 8	2 44.37	+18 53.2	1.648	2.564	11.1	20.5
10 18	2 36.04	+18 26.9	1.586	2.552	6.9	20.2
10 28	2 26.05	+17 48.4	1.550	2.540	2.4	19.9
11 7	2 15.57	+17 1.7	1.542	2.527	3.2	20.0
11 17	2 5.84	+16 12.9	1.562	2.513	7.8	20.2
11 27	1 58.03	+15 28.7	1.608	2.499	12.1	20.5
12 7	1 52.87	+14 55.1	1.677	2.485	15.9	20.7

176684 2002 PA_{100} 10 31.3 60°.31 1°.3/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 51.65	+12 45.4	1.254	2.125	17.4	19.7
10 8	2 45.50	+12 26.4	1.211	2.144	12.7	19.5
10 18	2 36.59	+11 58.6	1.189	2.164	7.3	19.3
10 28	2 26.13	+11 26.5	1.191	2.183	2.0	19.0
11 7	2 15.63	+10 56.2	1.220	2.203	4.4	19.2
11 17	2 6.52	+10 33.6	1.274	2.223	9.5	19.6
11 27	1 59.93	+10 23.6	1.353	2.243	14.0	19.9
12 7	1 56.41	+10 28.6	1.451	2.263	17.7	20.2

155570 1999 WE_{24} 10 31.3 203°.59 2°.6/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.96	+ 5 12.2	2.709	3.558	9.9	20.7
10 8	2 41.75	+ 5 0.2	2.632	3.554	7.2	20.5
10 18	2 34.08	+ 4 48.2	2.581	3.549	4.5	20.3
10 28	2 25.51	+ 4 39.0	2.560	3.544	2.6	20.2
11 7	2 16.73	+ 4 35.0	2.569	3.539	3.9	20.3
11 17	2 8.47	+ 4 38.6	2.609	3.533	6.7	20.4
11 27	2 1.37	+ 4 51.4	2.677	3.527	9.4	20.6
12 7	1 55.92	+ 5 13.9	2.770	3.520	11.7	20.8

16542 1991 PK_{31} 10 31.3 357°.09 7°.1/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.70	+32 10.8	1.804	2.599	16.2	17.7
10 8	2 42.71	+33 3.8	1.727	2.596	13.4	17.5
10 18	2 35.14	+33 36.9	1.672	2.594	10.4	17.3
10 28	2 25.84	+33 46.8	1.640	2.592	7.9	17.2
11 7	2 16.02	+33 33.3	1.633	2.591	7.1	17.2
11 17	2 6.99	+33 0.0	1.653	2.591	8.7	17.2
11 27	1 59.97	+32 14.0	1.697	2.591	11.4	17.4
12 7	1 55.72	+31 23.7	1.765	2.593	14.3	17.6

343711 2011 EN_{25} 10 31.3 98°.56 1°.1/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.00	+12 11.5	1.696	2.551	14.4	20.5
10 8	2 45.23	+11 58.7	1.643	2.569	10.5	20.3
10 18	2 36.28	+11 39.3	1.614	2.587	6.1	20.1
10 28	2 26.05	+11 16.8	1.612	2.604	1.7	19.8
11 7	2 15.74	+10 55.2	1.639	2.621	3.7	20.0
11 17	2 6.48	+10 38.9	1.693	2.637	8.0	20.3
11 27	1 59.22	+10 31.8	1.774	2.653	11.9	20.6
12 7	1 54.48	+10 36.2	1.877	2.669	15.1	20.8

261832 2006 DO_{38} 10 31.3 265°.74 1°.9/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.99	+21 22.8	2.361	3.187	11.8	20.8
10 8	2 40.71	+21 21.5	2.272	3.177	9.0	20.6
10 18	2 33.65	+21 9.1	2.207	3.166	5.8	20.4
10 28	2 25.44	+20 46.1	2.170	3.156	2.7	20.2
11 7	2 16.89	+20 15.1	2.162	3.145	2.7	20.1
11 17	2 8.88	+19 39.7	2.183	3.134	5.9	20.3
11 27	2 2.23	+19 4.7	2.233	3.123	9.2	20.5
12 7	1 57.51	+18 34.6	2.306	3.112	12.1	20.7

365339 2009 SQ_{224} 10 31.3 78°.33 0°.8/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.50	+19 50.8	2.142	2.981	12.4	20.4
10 8	2 39.53	+19 8.7	2.077	2.992	9.2	20.2
10 18	2 32.86	+18 14.2	2.037	3.003	5.6	20.0
10 28	2 25.20	+17 10.4	2.024	3.014	1.8	19.7
11 7	2 17.44	+16 2.3	2.040	3.025	2.5	19.8
11 17	2 10.42	+14 55.5	2.085	3.036	6.2	20.1
11 27	2 4.88	+13 55.7	2.159	3.047	9.6	20.3
12 7	2 1.31	+13 7.2	2.256	3.057	12.5	20.5

431220 2006 SE_{251} 10 31.3 219°.48 2°.1/ 1.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.66	+20 11.9	1.723	2.559	15.1	21.8
10 8	2 46.18	+20 19.3	1.641	2.552	11.5	21.5
10 18	2 37.13	+20 13.3	1.582	2.545	7.3	21.3
10 28	2 26.35	+19 54.1	1.549	2.537	3.1	21.0
11 7	2 15.07	+19 24.7	1.545	2.529	3.4	21.0
11 17	2 4.60	+18 49.9	1.569	2.520	7.8	21.2
11 27	1 56.15	+18 16.4	1.619	2.511	12.0	21.5
12 7	1 50.46	+17 50.2	1.692	2.501	15.7	21.7

113503 2002 TA_{7} 10 31.3 171°.81 0°.9/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.39	+17 23.3	2.216	3.049	12.3	19.7
10 8	2 43.89	+17 29.2	2.140	3.052	9.2	19.5
10 18	2 35.50	+17 26.5	2.088	3.054	5.6	19.3
10 28	2 25.91	+17 16.1	2.066	3.056	1.8	19.0
11 7	2 16.05	+17 0.5	2.073	3.057	2.6	19.1
11 17	2 6.88	+16 43.1	2.110	3.058	6.3	19.3
11 27	1 59.24	+16 27.9	2.175	3.059	9.8	19.6
12 7	1 53.71	+16 18.5	2.264	3.059	12.7	19.8

452112 2014 QD_{400} 10 31.3 356°.65 5°.6/27.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.45	− 0 59.3	2.006	2.871	12.1	20.3
10 8	2 40.29	− 1 42.5	1.946	2.870	9.2	20.2
10 18	2 33.36	− 2 21.2	1.911	2.870	6.6	20.0
10 28	2 25.36	− 2 50.1	1.902	2.869	5.6	19.9
11 7	2 17.19	− 3 4.5	1.921	2.869	7.1	20.0
11 17	2 9.72	− 3 1.6	1.967	2.869	9.8	20.2
11 27	2 3.74	− 2 40.6	2.037	2.869	12.6	20.4
12 7	1 59.77	− 2 2.4	2.128	2.869	15.1	20.6

181097 2005 QG_{64} 10 31.3 69°.76 1°.7/30.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 46.14	+11 17.1	1.927	2.788	12.7	20.5
10 8	2 40.87	+10 44.5	1.865	2.794	9.2	20.3
10 18	2 33.72	+10 6.2	1.827	2.801	5.4	20.1
10 28	2 25.45	+ 9 26.0	1.816	2.807	1.9	19.9
11 7	2 17.02	+ 8 48.7	1.834	2.814	3.8	20.0
11 17	2 9.36	+ 8 18.8	1.880	2.820	7.6	20.3
11 27	2 3.31	+ 8 0.3	1.952	2.827	11.2	20.5
12 7	1 59.38	+ 7 55.0	2.047	2.834	14.1	20.7

95005 2001 YY_{154} 10 31.3 138°.72 2°.8/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 53.21	+ 6 41.3	1.818	2.673	13.6	19.6
10 8	2 46.10	+ 6 34.7	1.756	2.681	10.0	19.4
10 18	2 36.82	+ 6 27.2	1.718	2.689	6.0	19.2
10 28	2 26.24	+ 6 22.2	1.708	2.696	2.9	19.0
11 7	2 15.46	+ 6 23.0	1.728	2.703	4.7	19.2
11 17	2 5.60	+ 6 32.6	1.776	2.709	8.5	19.4
11 27	1 57.61	+ 6 52.8	1.850	2.715	12.2	19.6
12 7	1 52.08	+ 7 24.4	1.947	2.721	15.2	19.9

253514 2003 ST_{152} 10 31.3 350°.74 7°.6/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.06	+ 1 41.3	1.118	2.012	17.4	19.9
10 8	2 41.85	+ 0 23.6	1.066	2.007	13.2	19.6
10 18	2 34.72	− 0 52.3	1.034	2.003	9.2	19.4
10 28	2 25.75	− 1 55.2	1.025	2.000	7.6	19.3
11 7	2 16.44	− 2 35.1	1.040	1.998	10.0	19.4
11 17	2 8.31	− 2 45.8	1.076	1.997	14.1	19.7
11 27	2 2.64	− 2 25.9	1.133	1.996	18.3	19.9
12 7	2 0.11	− 1 38.2	1.207	1.997	21.9	20.2

382735 2003 AJ_{70} 10 31.3 325°.92 2°.1/30.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.26	+12 4.6	1.221	2.105	16.9	20.7
10 8	2 41.40	+11 30.1	1.147	2.088	12.5	20.4
10 18	2 34.59	+10 44.8	1.094	2.072	7.4	20.1
10 28	2 25.76	+ 9 54.0	1.065	2.056	2.4	19.8
11 7	2 16.31	+ 9 5.6	1.060	2.042	5.2	19.9
11 17	2 7.79	+ 8 27.6	1.079	2.028	10.7	20.2
11 27	2 1.59	+ 8 6.9	1.120	2.015	15.9	20.4
12 7	1 58.56	+ 8 6.9	1.180	2.004	20.2	20.7

362607 2010 XG_{73} 10 31.3 64°.89 1°.5/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.75	+12 32.9	1.959	2.820	12.6	20.5
10 8	2 39.77	+11 43.1	1.903	2.832	9.1	20.3
10 18	2 33.02	+10 46.2	1.871	2.845	5.2	20.1
10 28	2 25.27	+ 9 46.8	1.867	2.858	1.7	19.9
11 7	2 17.42	+ 8 50.5	1.892	2.871	3.7	20.0
11 17	2 10.37	+ 8 2.5	1.944	2.884	7.4	20.3
11 27	2 4.87	+ 7 27.1	2.023	2.897	10.9	20.5
12 7	2 1.40	+ 7 6.4	2.125	2.911	13.7	20.7

223957 2004 XO_{74} 10 31.3 327°.77 18°.5/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.92	−38 42.4	1.804	2.531	18.6	18.6
10 8	2 44.25	−40 11.9	1.766	2.503	18.5	18.5
10 18	2 35.95	−41 7.7	1.744	2.477	18.7	18.4
10 28	2 26.04	−41 20.2	1.737	2.451	19.3	18.4
11 7	2 15.86	−40 44.9	1.745	2.425	20.2	18.4
11 17	2 6.79	−39 21.8	1.766	2.401	21.2	18.5
11 27	1 59.93	−37 15.6	1.800	2.378	22.3	18.5
12 7	1 55.93	−34 34.2	1.846	2.355	23.3	18.6

316293 2010 RZ_{36} 10 31.3 235°.59 1°.1/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.51	+20 0.0	2.041	2.880	13.0	20.6
10 8	2 40.47	+19 32.7	1.965	2.880	9.7	20.4
10 18	2 33.53	+18 52.5	1.913	2.879	6.0	20.2
10 28	2 25.42	+18 1.7	1.888	2.878	2.1	19.9
11 7	2 17.07	+17 4.6	1.892	2.877	2.7	20.0
11 17	2 9.43	+16 6.8	1.924	2.876	6.5	20.2
11 27	2 3.35	+15 14.2	1.984	2.875	10.2	20.4
12 7	1 59.39	+14 31.6	2.067	2.874	13.3	20.6

247392 2002 AX_{33} 10 31.3 210°.18 1°.7/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.01	+21 20.9	2.261	3.090	12.2	20.6
10 8	2 40.72	+21 4.2	2.180	3.087	9.3	20.4
10 18	2 33.65	+20 35.1	2.124	3.085	5.9	20.1
10 28	2 25.46	+19 55.2	2.094	3.082	2.5	19.9
11 7	2 17.03	+19 7.7	2.094	3.078	2.6	19.9
11 17	2 9.22	+18 17.2	2.124	3.075	6.0	20.1
11 27	2 2.85	+17 29.2	2.181	3.072	9.4	20.4
12 7	1 58.46	+16 48.4	2.262	3.068	12.4	20.5

4747 Jujo 10 31.3 344°.54 3°.1/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.54	+ 5 52.5	1.833	2.699	13.0	16.4
10 8	2 42.07	+ 5 42.1	1.764	2.694	9.6	16.2
10 18	2 34.53	+ 5 31.4	1.718	2.690	5.9	16.0
10 28	2 25.70	+ 5 24.2	1.699	2.686	3.2	15.8
11 7	2 16.58	+ 5 24.1	1.709	2.682	4.9	15.9
11 17	2 8.19	+ 5 34.1	1.746	2.679	8.6	16.1
11 27	2 1.47	+ 5 56.3	1.808	2.677	12.2	16.4
12 7	1 57.03	+ 6 31.0	1.893	2.675	15.3	16.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
49542 1999 CT_{70}			10 31.3 260°.03		0°.2/31.6 18	
	h m	° ′			°	m
9 28	2 43.53	+17 14.3	2.462	3.303	10.9	19.2
10 8	2 38.76	+16 44.7	2.380	3.298	8.1	19.0
10 18	2 32.44	+16 5.9	2.323	3.292	4.8	18.8
10 28	2 25.16	+15 20.3	2.295	3.286	1.3	18.6
11 7	2 17.66	+14 31.7	2.296	3.280	2.3	18.6
11 17	2 10.70	+13 44.2	2.326	3.274	5.8	18.9
11 27	2 4.98	+13 2.4	2.385	3.268	9.0	19.1
12 7	2 0.99	+12 29.6	2.468	3.262	11.8	19.2
210304 2007 TN_{143}			10 31.3 326°.26		1°.1/30.6 18	
9 28	2 45.05	+14 6.7	1.524	2.393	15.0	20.2
10 8	2 40.70	+13 29.7	1.449	2.382	11.0	20.0
10 18	2 33.93	+12 41.5	1.397	2.372	6.5	19.7
10 28	2 25.58	+11 46.5	1.370	2.363	1.7	19.4
11 7	2 16.82	+10 51.2	1.370	2.353	4.0	19.5
11 17	2 8.88	+10 2.6	1.397	2.345	8.9	19.8
11 27	2 2.88	+ 9 27.0	1.447	2.337	13.3	20.0
12 7	1 59.51	+ 9 8.4	1.519	2.329	17.1	20.2
111934 2002 GG_{38}			10 31.3 357°.99		16°.9/ 5.3 18	
9 28	3 2.98	+37 25.0	0.978	1.782	26.2	18.1
10 8	2 57.02	+40 41.8	0.921	1.779	23.1	17.9
10 18	2 45.31	+43 32.1	0.880	1.777	20.0	17.7
10 28	2 28.77	+45 36.5	0.857	1.776	17.6	17.5
11 7	2 10.01	+46 41.5	0.854	1.776	16.9	17.5
11 17	1 52.65	+46 46.0	0.870	1.777	18.2	17.6
11 27	1 40.02	+46 4.4	0.904	1.779	20.7	17.8
12 7	1 33.77	+44 58.3	0.954	1.782	23.6	18.0
288027 2003 UJ_{231}			10 31.3 28°.94		0°.0/31.2 18	
9 28	2 43.29	+17 19.0	2.062	2.912	12.4	20.5
10 8	2 38.76	+16 35.7	1.994	2.916	9.1	20.3
10 18	2 32.49	+15 41.4	1.950	2.921	5.4	20.1
10 28	2 25.18	+14 39.7	1.934	2.926	1.4	19.9
11 7	2 17.71	+13 35.8	1.946	2.931	2.7	20.0
11 17	2 10.95	+12 35.1	1.987	2.936	6.6	20.2
11 27	2 5.65	+11 43.2	2.055	2.941	10.1	20.5
12 7	2 2.32	+11 3.9	2.147	2.947	13.1	20.7
208150 2000 FJ_{34}			10 31.3 187°.05		5°.7/26.2 18	A
9 28	2 46.70	− 2 19.9	2.308	3.164	11.1	20.7
10 8	2 41.01	− 3 17.5	2.247	3.164	8.5	20.5
10 18	2 33.72	− 4 10.8	2.211	3.163	6.4	20.4
10 28	2 25.49	− 4 54.3	2.204	3.162	5.7	20.4
11 7	2 17.10	− 5 23.2	2.224	3.160	7.1	20.5
11 17	2 9.34	− 5 34.7	2.273	3.158	9.4	20.6
11 27	2 2.93	− 5 27.7	2.346	3.155	11.9	20.8
12 7	1 58.34	− 5 3.0	2.441	3.152	14.1	20.9
18180 Irenesun			10 31.3 108°.74		0°.9/30.8 18	R
9 28	2 53.76	+13 29.6	1.463	2.322	16.1	18.2
10 8	2 46.85	+13 10.4	1.411	2.338	11.8	18.0
10 18	2 37.38	+12 42.3	1.381	2.354	6.9	17.8
10 28	2 26.41	+12 8.8	1.377	2.369	1.7	17.5
11 7	2 15.34	+11 35.5	1.401	2.385	3.9	17.7
11 17	2 5.49	+11 7.9	1.453	2.399	8.8	18.0
11 27	1 57.97	+10 51.2	1.529	2.413	13.1	18.3
12 7	1 53.34	+10 48.2	1.627	2.427	16.7	18.6
376601 2013 PY_{31}			10 31.3 21°.21		5°.0/26.3 18	
9 28	2 42.24	− 0 10.9	2.379	3.243	10.5	20.5
10 8	2 37.73	− 1 14.5	2.321	3.245	7.9	20.3
10 18	2 31.79	− 2 15.5	2.288	3.246	5.8	20.2
10 28	2 25.01	− 3 8.4	2.283	3.248	5.0	20.2
11 7	2 18.09	− 3 48.6	2.307	3.250	6.4	20.3
11 17	2 11.75	− 4 12.8	2.358	3.251	8.8	20.4
11 27	2 6.61	− 4 19.4	2.434	3.253	11.2	20.6
12 7	2 3.13	− 4 8.6	2.531	3.255	13.4	20.8
314422 2005 UO_{414}			10 31.3 75°.05		1°.0/30.5 18	
9 28	2 46.59	+12 40.4	1.997	2.852	12.5	20.9
10 8	2 41.14	+12 15.7	1.937	2.863	9.1	20.7
10 18	2 33.87	+11 44.6	1.901	2.874	5.3	20.5
10 28	2 25.54	+11 10.4	1.893	2.885	1.5	20.3
11 7	2 17.07	+10 37.4	1.914	2.896	3.3	20.4
11 17	2 9.38	+10 9.8	1.964	2.907	7.1	20.7
11 27	2 3.26	+ 9 51.4	2.040	2.918	10.6	20.9
12 7	1 59.23	+ 9 44.5	2.139	2.929	13.5	21.2
56156 1999 CG_{123}			10 31.3 357°.03		0°.0/31.1 18	
9 28	2 52.89	+11 59.3	1.201	2.075	17.9	18.2
10 8	2 47.07	+12 44.2	1.138	2.071	13.3	17.9
10 18	2 37.97	+13 24.8	1.094	2.069	7.9	17.6
10 28	2 26.66	+14 1.5	1.075	2.067	2.0	17.3
11 7	2 14.76	+14 35.2	1.081	2.066	4.0	17.4
11 17	2 4.00	+15 8.4	1.112	2.067	9.8	17.7
11 27	1 55.90	+15 44.3	1.167	2.068	14.9	18.0
12 7	1 51.31	+16 26.1	1.242	2.070	19.1	18.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
227207 2005 QK_{145}			10 31.3 38°.78		3°.2/29.9 18	
	h m	° ′			°	m
9 28	2 51.13	+ 8 15.9	1.060	1.947	18.7	19.3
10 8	2 45.34	+ 8 0.6	1.027	1.968	13.6	19.1
10 18	2 36.58	+ 7 42.2	1.015	1.992	8.0	18.9
10 28	2 26.21	+ 7 26.3	1.026	2.016	3.4	18.7
11 7	2 15.92	+ 7 18.7	1.061	2.040	5.8	18.9
11 17	2 7.24	+ 7 23.7	1.120	2.066	10.8	19.3
11 27	2 1.31	+ 7 43.9	1.201	2.092	15.4	19.6
12 7	1 58.62	+ 8 19.1	1.302	2.119	19.1	20.0
220471 2004 BL_{102}			10 31.3 272°.07		2°.1/ 1.7 18	
9 28	2 49.41	+21 4.0	1.549	2.395	16.1	20.4
10 8	2 44.12	+20 55.5	1.465	2.381	12.3	20.1
10 18	2 36.09	+20 30.3	1.402	2.366	7.9	19.9
10 28	2 26.20	+19 49.2	1.364	2.352	3.3	19.6
11 7	2 15.71	+18 56.3	1.353	2.338	3.6	19.5
11 17	2 6.04	+17 58.4	1.369	2.323	8.3	19.8
11 27	1 58.48	+17 4.0	1.410	2.308	13.0	20.0
12 7	1 53.83	+16 20.3	1.472	2.293	17.0	20.2
134492 1998 XR_{53}			10 31.3 3°.27		5°.3/28.6 18	
9 28	2 47.50	+ 2 29.4	1.364	2.245	15.7	18.2
10 8	2 42.52	+ 2 7.9	1.308	2.244	11.7	18.0
10 18	2 34.99	+ 1 49.7	1.274	2.244	7.7	17.7
10 28	2 25.87	+ 1 40.8	1.264	2.245	5.3	17.6
11 7	2 16.48	+ 1 46.4	1.279	2.247	7.2	17.7
11 17	2 8.12	+ 2 9.4	1.320	2.250	11.2	18.0
11 27	2 1.91	+ 2 50.7	1.383	2.254	15.1	18.2
12 7	1 58.49	+ 3 48.6	1.466	2.259	18.5	18.5
49551 1999 CV_{84}			10 31.3 249°.89		3°.1/29.1 18	
9 28	2 48.08	+ 6 12.7	2.040	2.900	12.1	19.1
10 8	2 42.34	+ 5 47.4	1.964	2.891	8.9	18.9
10 18	2 34.68	+ 5 20.7	1.912	2.882	5.5	18.7
10 28	2 25.80	+ 4 56.5	1.887	2.873	3.1	18.5
11 7	2 16.60	+ 4 39.0	1.892	2.864	4.8	18.6
11 17	2 8.05	+ 4 31.8	1.925	2.854	8.3	18.8
11 27	2 1.02	+ 4 37.5	1.985	2.844	11.7	19.0
12 7	1 56.09	+ 4 56.8	2.066	2.834	14.6	19.2
108317 2001 JT_{6}			10 31.3 240°.52		2°.7/ 2.9 18	
9 28	2 44.82	+25 7.4	2.397	3.211	12.1	19.5
10 8	2 39.83	+24 52.2	2.314	3.209	9.4	19.3
10 18	2 33.15	+24 22.9	2.255	3.206	6.3	19.1
10 28	2 25.40	+23 40.3	2.222	3.203	3.5	18.9
11 7	2 17.42	+22 47.3	2.219	3.200	3.1	18.9
11 17	2 10.05	+21 48.6	2.245	3.197	5.7	19.0
11 27	2 4.04	+20 49.7	2.299	3.193	8.8	19.2
12 7	1 59.93	+19 55.9	2.378	3.190	11.6	19.4
331454 2012 HF_{23}			10 31.3 358°.27		4°.6/27.7 18	
9 28	2 45.15	+ 1 43.6	2.085	2.951	11.7	20.4
10 8	2 40.06	+ 1 5.9	2.023	2.950	8.7	20.2
10 18	2 33.26	+ 0 30.5	1.985	2.949	5.9	20.0
10 28	2 25.43	+ 0 2.0	1.974	2.949	4.6	19.9
11 7	2 17.42	− 0 15.1	1.991	2.949	6.0	20.0
11 17	2 10.07	− 0 17.9	2.036	2.949	8.9	20.2
11 27	2 4.15	− 0 4.8	2.106	2.949	11.8	20.4
12 7	2 0.17	+ 0 23.8	2.198	2.950	14.4	20.6
376086 2010 VK_{53}			10 31.3 187°.14		1°.7/30.2 18	
9 28	2 51.24	+11 46.1	1.600	2.460	14.9	21.4
10 8	2 45.06	+11 15.5	1.531	2.460	10.9	21.2
10 18	2 36.43	+10 37.2	1.486	2.460	6.4	20.9
10 28	2 26.26	+ 9 55.4	1.468	2.459	2.1	20.6
11 7	2 15.77	+ 9 15.9	1.477	2.457	4.3	20.8
11 17	2 6.22	+ 8 44.3	1.514	2.456	8.9	21.1
11 27	1 58.70	+ 8 25.6	1.576	2.453	13.2	21.3
12 7	1 53.87	+ 8 22.4	1.659	2.451	16.7	21.5
307741 2003 UV_{239}			10 31.3 54°.69		1°.3/ 1.2 18	
9 28	2 51.11	+17 7.4	2.014	2.852	13.2	19.7
10 8	2 44.49	+17 36.0	1.955	2.869	9.8	19.5
10 18	2 35.89	+17 56.2	1.921	2.886	6.0	19.3
10 28	2 26.09	+18 8.3	1.914	2.904	2.2	19.1
11 7	2 16.12	+18 14.1	1.937	2.921	2.7	19.2
11 17	2 7.00	+18 16.3	1.989	2.939	6.5	19.4
11 27	1 59.59	+18 18.6	2.068	2.957	10.0	19.7
12 7	1 54.45	+18 24.5	2.172	2.975	12.9	19.9
285833 2001 DX_{77}			10 31.3 105°.83		1°.7/30.0 18	
9 28	2 48.66	+11 33.9	1.958	2.813	12.8	21.2
10 8	2 42.59	+10 54.3	1.905	2.831	9.3	21.0
10 18	2 34.70	+10 8.7	1.877	2.849	5.4	20.8
10 28	2 25.78	+ 9 21.6	1.876	2.867	1.9	20.6
11 7	2 16.80	+ 8 37.7	1.905	2.884	3.8	20.8
11 17	2 8.70	+ 8 1.8	1.962	2.901	7.5	21.0
11 27	2 2.27	+ 7 37.6	2.047	2.917	10.9	21.3
12 7	1 57.97	+ 7 27.0	2.154	2.933	13.8	21.5

208102 2000 BX_2 10 31.3 295°.99 3°.0/29.2 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 46.56	+ 8 21.7	1.762	2.630	13.4	20.2
10 8	2 41.45	+ 7 39.8	1.693	2.625	9.8	20.0
10 18	2 34.24	+ 6 53.6	1.647	2.620	5.9	19.7
10 28	2 25.71	+ 6 8.1	1.628	2.615	3.0	19.6
11 7	2 16.89	+ 5 29.0	1.636	2.610	5.0	19.7
11 17	2 8.83	+ 5 1.5	1.672	2.606	8.9	19.9
11 27	2 2.49	+ 4 49.2	1.733	2.601	12.7	20.1
12 7	1 58.46	+ 4 53.6	1.815	2.597	15.9	20.3

153634 2001 TS_{65} 10 31.3 341°.85 0°.5/31.0 18

9 28	2 44.67	+15 16.3	1.206	2.087	17.3	19.0
10 8	2 40.97	+14 50.6	1.138	2.076	12.9	18.7
10 18	2 34.36	+14 10.8	1.091	2.067	7.6	18.4
10 28	2 25.79	+13 21.5	1.066	2.058	1.9	18.0
11 7	2 16.70	+12 29.5	1.066	2.051	4.2	18.2
11 17	2 8.63	+11 43.3	1.090	2.044	9.9	18.5
11 27	2 2.92	+11 10.6	1.136	2.039	15.0	18.8
12 7	2 0.35	+10 56.2	1.202	2.035	19.4	19.0

172484 2003 SC_{108} 10 31.3 296°.61 3°.8/ 2.6 18

9 28	2 49.24	+24 14.9	1.363	2.207	17.9	19.9
10 8	2 44.31	+24 17.2	1.286	2.197	14.0	19.7
10 18	2 36.35	+23 58.4	1.228	2.188	9.4	19.4
10 28	2 26.30	+23 18.1	1.194	2.178	5.0	19.1
11 7	2 15.65	+22 20.0	1.186	2.169	4.5	19.0
11 17	2 5.98	+21 11.9	1.203	2.160	8.9	19.3
11 27	1 58.74	+20 4.4	1.245	2.151	13.7	19.5
12 7	1 54.77	+19 6.6	1.307	2.142	18.0	19.8

441184 2007 TB_{429} 10 31.3 74°.70 0°.0/31.3 18

9 28	2 48.35	+15 56.8	1.731	2.585	14.3	21.3
10 8	2 42.73	+15 39.2	1.670	2.594	10.5	21.0
10 18	2 34.95	+15 11.5	1.632	2.603	6.2	20.8
10 28	2 25.87	+14 36.4	1.620	2.612	1.6	20.5
11 7	2 16.61	+13 58.7	1.637	2.622	3.1	20.7
11 17	2 8.25	+13 23.5	1.681	2.631	7.5	21.0
11 27	2 1.75	+12 56.2	1.752	2.640	11.5	21.2
12 7	1 57.68	+12 40.2	1.844	2.649	14.8	21.5

515196 2011 UB_{319} 10 31.3 76°.32 2°.2/29.9 18

9 28	2 49.82	+ 8 35.6	1.836	2.695	13.3	20.9
10 8	2 43.57	+ 8 22.3	1.782	2.711	9.7	20.8
10 18	2 35.33	+ 8 6.4	1.753	2.726	5.7	20.6
10 28	2 25.95	+ 7 51.2	1.751	2.741	2.4	20.4
11 7	2 16.47	+ 7 40.5	1.778	2.756	4.2	20.5
11 17	2 7.90	+ 7 37.6	1.833	2.771	8.0	20.8
11 27	2 1.10	+ 7 45.1	1.914	2.786	11.5	21.0
12 7	1 56.59	+ 8 4.0	2.018	2.801	14.5	21.3

107868 2001 FT_{85} 10 31.3 27°.69 1°.1/30.7 18

9 28	2 45.40	+14 56.8	0.943	1.836	19.8	18.2
10 8	2 41.56	+14 15.4	0.907	1.852	14.5	17.9
10 18	2 34.56	+13 19.4	0.891	1.869	8.3	17.7
10 28	2 25.78	+12 16.4	0.896	1.888	2.1	17.4
11 7	2 16.95	+11 16.1	0.924	1.909	4.8	17.6
11 17	2 9.71	+10 27.8	0.975	1.930	10.6	18.0
11 27	2 5.24	+ 9 58.6	1.047	1.953	15.7	18.4
12 7	2 4.06	+ 9 50.7	1.138	1.977	19.8	18.8

14711 2000 CG_{36} 10 31.3 150°.42 3°.5/ 3.2 18

9 28	2 48.56	+26 0.9	2.013	2.827	14.1	18.5
10 8	2 42.86	+26 1.3	1.938	2.830	11.0	18.3
10 18	2 35.05	+25 45.3	1.885	2.833	7.6	18.1
10 28	2 25.92	+25 12.8	1.858	2.836	4.4	17.9
11 7	2 16.51	+24 26.7	1.860	2.839	3.9	17.9
11 17	2 7.89	+23 32.1	1.890	2.841	6.7	18.1
11 27	2 1.01	+22 35.7	1.947	2.843	10.1	18.3
12 7	1 56.46	+21 44.0	2.029	2.845	13.2	18.5

261544 2005 WR_{133} 10 31.3 259°.59 3°.2/28.7 17

9 28	2 46.84	+ 4 51.2	2.306	3.163	11.0	21.1
10 8	2 41.28	+ 4 25.3	2.225	3.150	8.1	20.9
10 18	2 34.02	+ 3 59.0	2.169	3.137	5.1	20.7
10 28	2 25.66	+ 3 36.0	2.141	3.124	3.3	20.5
11 7	2 17.01	+ 3 20.2	2.143	3.110	4.8	20.6
11 17	2 8.89	+ 3 14.6	2.173	3.096	7.8	20.8
11 27	2 2.09	+ 3 21.4	2.231	3.082	10.9	21.0
12 7	1 57.14	+ 3 41.3	2.311	3.068	13.6	21.1

8407 Houlahan 10 31.3 145°.08 4°.4/28.3 18

9 28	2 50.29	+ 5 25.8	1.656	2.522	14.2	18.0
10 8	2 44.11	+ 4 26.0	1.600	2.530	10.4	17.8
10 18	2 35.74	+ 3 24.6	1.568	2.538	6.6	17.6
10 28	2 26.08	+ 2 28.1	1.563	2.545	4.4	17.5
11 7	2 16.27	+ 1 43.4	1.586	2.552	6.4	17.6
11 17	2 7.44	+ 1 15.3	1.636	2.558	10.1	17.9
11 27	2 0.53	+ 1 6.7	1.711	2.563	13.6	18.1
12 7	1 56.11	+ 1 17.7	1.806	2.568	16.7	18.3

49022 1998 QV_{91} 10 31.3 357°.71 1°.7/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 42.11	+13 33.6	0.999	1.896	18.7	17.3
10 8	2 39.37	+12 55.8	0.944	1.890	13.7	17.0
10 18	2 33.50	+12 4.2	0.907	1.886	8.0	16.7
10 28	2 25.59	+11 5.4	0.892	1.884	2.3	16.4
11 7	2 17.25	+10 8.9	0.899	1.883	5.2	16.6
11 17	2 10.12	+ 9 24.2	0.930	1.885	11.1	16.9
11 27	2 5.58	+ 8 58.7	0.980	1.887	16.4	17.2
12 7	2 4.38	+ 8 55.9	1.049	1.892	20.8	17.5

368923 2006 UU_{265} 10 31.3 65°.58 3°.0/ 1.9 17

9 28	2 54.93	+21 15.4	1.281	2.129	18.6	20.1
10 8	2 48.08	+21 35.5	1.236	2.152	14.1	19.9
10 18	2 38.26	+21 37.9	1.212	2.175	9.0	19.7
10 28	2 26.72	+21 23.0	1.212	2.199	4.1	19.5
11 7	2 15.12	+20 54.9	1.239	2.222	4.1	19.6
11 17	2 5.02	+20 20.2	1.291	2.246	8.7	19.9
11 27	1 57.63	+19 47.2	1.368	2.269	13.1	20.2
12 7	1 53.55	+19 22.4	1.466	2.293	16.8	20.5

324830 2007 HU_{97} 10 31.3 198°.47 2°.3/29.2 18

9 28	2 45.33	+ 7 21.4	2.556	3.410	10.2	21.2
10 8	2 39.97	+ 6 52.8	2.482	3.408	7.4	21.0
10 18	2 33.15	+ 6 22.2	2.435	3.406	4.5	20.8
10 28	2 25.44	+ 5 52.9	2.417	3.403	2.4	20.6
11 7	2 17.54	+ 5 28.3	2.428	3.401	3.8	20.7
11 17	2 10.18	+ 5 11.5	2.469	3.398	6.7	20.9
11 27	2 4.00	+ 5 4.9	2.538	3.394	9.6	21.1
12 7	1 59.48	+ 5 9.7	2.630	3.391	12.0	21.3

220132 2002 TO_{87} 10 31.3 59°.10 2°.8/29.4 18

9 28	2 47.53	+11 41.2	1.327	2.204	16.3	19.9
10 8	2 42.50	+10 32.1	1.277	2.214	11.8	19.7
10 18	2 34.94	+ 9 13.6	1.248	2.224	6.9	19.4
10 28	2 25.90	+ 7 53.3	1.245	2.235	2.9	19.2
11 7	2 16.73	+ 6 40.3	1.268	2.246	5.5	19.4
11 17	2 8.74	+ 5 42.7	1.317	2.258	10.2	19.7
11 27	2 2.98	+ 5 6.0	1.390	2.269	14.5	20.0
12 7	2 0.01	+ 4 51.8	1.482	2.280	18.0	20.3

210840 2001 QQ_{87} 10 31.3 106°.37 5°.3/27.0 18

9 28	2 46.96	+ 0 34.3	2.000	2.864	12.2	20.4
10 8	2 41.32	− 0 25.4	1.952	2.877	9.2	20.3
10 18	2 33.96	− 1 21.8	1.929	2.889	6.4	20.1
10 28	2 25.63	− 2 9.1	1.932	2.901	5.3	20.1
11 7	2 17.23	− 2 42.1	1.964	2.913	6.9	20.2
11 17	2 9.63	− 2 57.6	2.023	2.925	9.6	20.4
11 27	2 3.58	− 2 54.2	2.107	2.936	12.4	20.6
12 7	1 59.54	− 2 33.0	2.212	2.947	14.8	20.8

211308 2002 SL_{29} 10 31.3 319°.34 1°.0/30.6 18

9 28	2 45.42	+13 46.6	1.631	2.497	14.4	20.1
10 8	2 40.89	+13 14.3	1.554	2.485	10.6	19.8
10 18	2 34.06	+12 32.0	1.499	2.474	6.2	19.5
10 28	2 25.72	+11 43.7	1.471	2.463	1.7	19.2
11 7	2 16.98	+10 55.1	1.469	2.452	3.8	19.3
11 17	2 8.98	+10 12.5	1.495	2.442	8.5	19.6
11 27	2 2.81	+ 9 41.6	1.545	2.433	12.8	19.8
12 7	1 59.15	+ 9 26.2	1.617	2.423	16.4	20.0

423247 2004 TB_{146} 10 31.3 359°.62 1°.9/ 1.1 17

9 28	2 44.92	+17 32.0	0.861	1.756	21.1	20.1
10 8	2 41.99	+17 52.9	0.808	1.751	15.9	19.8
10 18	2 35.31	+17 56.8	0.772	1.748	9.9	19.5
10 28	2 26.11	+17 44.9	0.756	1.747	3.5	19.1
11 7	2 16.29	+17 22.4	0.761	1.747	4.5	19.2
11 17	2 7.90	+16 57.3	0.787	1.750	10.9	19.6
11 27	2 2.63	+16 39.1	0.833	1.754	16.8	19.9
12 7	2 1.34	+16 34.3	0.896	1.761	21.6	20.2

52327 1992 EK_9 10 31.3 239°.01 1°.5/30.3 18

9 28	2 49.54	+11 55.6	1.742	2.600	13.9	20.1
10 8	2 43.78	+11 27.2	1.663	2.591	10.3	19.8
10 18	2 35.72	+10 51.3	1.609	2.582	6.0	19.6
10 28	2 26.15	+10 11.6	1.581	2.572	1.9	19.3
11 7	2 16.18	+ 9 33.4	1.581	2.562	4.0	19.4
11 17	2 6.97	+ 9 2.0	1.610	2.552	8.5	19.7
11 27	1 59.57	+ 8 42.1	1.664	2.541	12.6	19.9
12 7	1 54.68	+ 8 36.9	1.740	2.530	16.1	20.1

342200 2008 SG_{218} 10 31.3 45°.59 6°.8/ 4.7 18

9 28	2 52.60	+29 46.3	1.317	2.140	19.6	19.6
10 8	2 46.61	+30 28.3	1.271	2.161	15.8	19.5
10 18	2 37.52	+30 44.7	1.244	2.184	11.6	19.3
10 28	2 26.58	+30 33.2	1.240	2.206	7.9	19.1
11 7	2 15.47	+29 56.3	1.260	2.230	6.9	19.2
11 17	2 5.84	+29 1.5	1.305	2.254	9.3	19.4
11 27	1 58.96	+27 59.5	1.374	2.278	12.8	19.6
12 7	1 55.44	+27 0.5	1.465	2.303	16.2	19.9

46588 1992 *WR* 10 31.3 317°.41 1°.6/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 49.41	+11 22.0	1.265	2.142	17.0	17.9
10 8	2 44.47	+11 15.1	1.191	2.128	12.6	17.6
10 18	2 36.49	+11 1.1	1.139	2.114	7.4	17.2
10 28	2 26.40	+10 43.5	1.110	2.101	2.2	16.9
11 7	2 15.65	+10 27.6	1.106	2.089	4.7	17.0
11 17	2 5.84	+10 19.1	1.127	2.077	10.3	17.3
11 27	1 58.42	+10 23.1	1.172	2.066	15.4	17.6
12 7	1 54.25	+10 42.4	1.235	2.056	19.7	17.8

307962 2004 HH_{29} 10 31.3 204°.08 0°.0/31.2 18

9 28	2 46.44	+16 21.7	2.263	3.105	11.7	21.8
10 8	2 41.03	+15 53.0	2.184	3.102	8.7	21.6
10 18	2 33.88	+15 15.1	2.129	3.099	5.1	21.4
10 28	2 25.66	+14 30.6	2.103	3.095	1.3	21.1
11 7	2 17.19	+13 43.3	2.106	3.091	2.6	21.2
11 17	2 9.34	+12 58.0	2.139	3.086	6.4	21.5
11 27	2 2.88	+12 19.4	2.200	3.081	9.8	21.7
12 7	1 58.36	+11 50.8	2.285	3.076	12.7	21.9

494598 2017 BA_{110} 10 31.3 207°.78 5°.2/ 5.9 17

9 28	2 47.34	+34 16.4	2.670	3.429	12.4	21.1
10 8	2 41.71	+34 21.6	2.579	3.424	10.3	21.0
10 18	2 34.30	+34 9.3	2.511	3.420	8.0	20.8
10 28	2 25.77	+33 38.5	2.468	3.415	5.9	20.7
11 7	2 16.96	+32 50.5	2.454	3.410	5.2	20.6
11 17	2 8.75	+31 48.8	2.469	3.404	6.3	20.7
11 27	2 1.94	+30 39.2	2.512	3.399	8.5	20.8
12 7	1 57.11	+29 28.2	2.581	3.392	10.8	21.0

348721 2006 DJ_{70} 10 31.3 138°.51 6°.9/25.7 18

9 28	2 47.61	− 4 11.0	1.995	2.854	12.4	20.6
10 8	2 41.84	− 5 20.7	1.947	2.862	9.7	20.5
10 18	2 34.30	− 6 23.6	1.923	2.870	7.6	20.4
10 28	2 25.74	− 7 12.7	1.926	2.877	7.0	20.3
11 7	2 17.08	− 7 43.0	1.957	2.884	8.4	20.4
11 17	2 9.23	− 7 51.5	2.013	2.891	10.8	20.6
11 27	2 2.93	− 7 37.8	2.094	2.897	13.4	20.8
12 7	1 58.70	− 7 4.0	2.194	2.903	15.6	21.0

274680 2008 UL_{12} 10 31.3 338°.24 1°.5/ 2.4 18

9 28	2 39.23	+22 22.9	3.788	4.603	8.0	21.0
10 8	2 35.26	+22 14.1	3.701	4.598	6.1	20.8
10 18	2 30.30	+21 57.7	3.639	4.594	4.0	20.7
10 28	2 24.74	+21 34.6	3.606	4.590	2.0	20.5
11 7	2 19.03	+21 6.4	3.604	4.586	1.9	20.5
11 17	2 13.64	+20 35.3	3.632	4.582	3.8	20.7
11 27	2 9.03	+20 4.2	3.688	4.578	5.9	20.8
12 7	2 5.54	+19 35.7	3.772	4.575	7.9	20.9

160331 2003 QS_{57} 10 31.3 133°.99 6°.6/25.9 18

9 28	2 47.38	− 1 58.4	1.908	2.772	12.7	20.0
10 8	2 41.74	− 3 14.8	1.859	2.780	9.8	19.8
10 18	2 34.27	− 4 26.1	1.835	2.788	7.3	19.7
10 28	2 25.75	− 5 25.1	1.837	2.796	6.6	19.7
11 7	2 17.12	− 6 5.9	1.867	2.803	8.2	19.8
11 17	2 9.32	− 6 25.1	1.924	2.810	10.8	19.9
11 27	2 3.14	− 6 21.6	2.004	2.817	13.5	20.1
12 7	1 59.07	− 5 57.1	2.104	2.823	15.9	20.3

469818 2005 SF_{158} 10 31.3 49°.66 1°.5/ 1.3 18

9 28	2 50.66	+19 23.4	1.209	2.072	18.5	21.1
10 8	2 44.98	+19 11.2	1.168	2.094	13.8	20.9
10 18	2 36.44	+18 42.0	1.147	2.117	8.4	20.7
10 28	2 26.30	+17 59.0	1.150	2.140	2.9	20.5
11 7	2 16.14	+17 8.6	1.178	2.164	3.6	20.6
11 17	2 7.45	+16 18.9	1.232	2.188	8.8	20.9
11 27	2 1.37	+15 37.8	1.309	2.212	13.4	21.3
12 7	1 58.42	+15 10.8	1.407	2.236	17.2	21.6

455401 2003 BE_{46} 10 31.3 202°.09 14°.1/10.3 17

9 28	2 58.26	+45 2.0	1.271	2.016	24.2	21.0
10 8	2 52.25	+46 9.6	1.201	2.014	21.5	20.8
10 18	2 41.66	+46 38.9	1.144	2.012	18.5	20.6
10 28	2 27.79	+46 19.2	1.105	2.010	15.8	20.4
11 7	2 13.01	+45 6.3	1.086	2.007	14.2	20.3
11 17	1 59.94	+43 6.3	1.089	2.004	14.6	20.3
11 27	1 50.73	+40 35.6	1.114	2.000	16.7	20.4
12 7	1 46.33	+37 55.2	1.160	1.996	19.7	20.6

67143 2000 AY_{170} 10 31.3 6°.02 9°.1/25.9 18

9 28	2 42.13	− 1 41.5	1.094	1.993	17.2	16.7
10 8	2 38.94	− 3 2.6	1.053	1.993	13.4	16.5
10 18	2 33.03	− 4 15.7	1.032	1.995	10.1	16.3
10 28	2 25.48	− 5 9.5	1.032	1.999	9.2	16.3
11 7	2 17.72	− 5 35.0	1.055	2.005	11.2	16.4
11 17	2 11.13	− 5 28.0	1.100	2.012	14.7	16.6
11 27	2 6.86	− 4 49.3	1.164	2.021	18.4	16.9
12 7	2 5.48	− 3 43.6	1.244	2.031	21.5	17.2

327532 2006 BU_{145} 10 31.3 299°.14 0°.0/31.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 44.43	+16 36.0	2.033	2.884	12.6	20.9
10 8	2 39.88	+16 4.7	1.942	2.865	9.3	20.6
10 18	2 33.38	+15 22.3	1.874	2.845	5.6	20.4
10 28	2 25.58	+14 31.8	1.834	2.826	1.4	20.1
11 7	2 17.39	+13 37.4	1.822	2.807	2.9	20.1
11 17	2 9.76	+12 44.8	1.839	2.788	7.0	20.4
11 27	2 3.59	+11 59.7	1.882	2.769	10.9	20.6
12 7	1 59.51	+11 26.3	1.948	2.750	14.2	20.8

325534 2009 SW_{40} 10 31.3 57°.20 1°.2/ 1.3 18

9 28	2 47.14	+18 27.4	2.185	3.023	12.3	21.3
10 8	2 41.62	+18 29.9	2.113	3.026	9.2	21.1
10 18	2 34.26	+18 22.8	2.064	3.029	5.7	20.9
10 28	2 25.78	+18 7.5	2.042	3.032	2.1	20.7
11 7	2 17.05	+17 46.4	2.050	3.035	2.5	20.7
11 17	2 8.98	+17 23.3	2.087	3.038	6.2	21.0
11 27	2 2.39	+17 2.5	2.152	3.042	9.6	21.2
12 7	1 57.84	+16 47.6	2.240	3.045	12.5	21.4

474530 2003 UY_{351} 10 31.3 29°.43 1°.7/30.4 18

9 28	2 48.10	+11 24.4	1.291	2.168	16.6	20.5
10 8	2 43.02	+11 9.8	1.243	2.180	12.1	20.3
10 18	2 35.31	+10 48.3	1.217	2.193	7.0	20.1
10 28	2 26.05	+10 24.4	1.215	2.207	2.2	19.8
11 7	2 16.63	+10 3.5	1.239	2.221	4.5	20.0
11 17	2 8.42	+ 9 50.9	1.288	2.237	9.4	20.3
11 27	2 2.52	+ 9 50.7	1.360	2.253	13.8	20.6
12 7	1 59.50	+10 4.8	1.453	2.269	17.5	20.9

378215 2007 AZ_{12} 10 31.3 287°.62 4°.1/ 2.9 18

9 28	2 48.77	+25 32.8	1.497	2.331	17.1	21.1
10 8	2 43.92	+25 31.8	1.408	2.313	13.5	20.8
10 18	2 36.16	+25 9.5	1.340	2.295	9.3	20.6
10 28	2 26.35	+24 24.8	1.295	2.277	5.2	20.3
11 7	2 15.85	+23 21.1	1.277	2.259	4.6	20.2
11 17	2 6.17	+22 5.5	1.285	2.241	8.6	20.4
11 27	1 58.70	+20 48.5	1.318	2.223	13.2	20.6
12 7	1 54.33	+19 39.7	1.373	2.205	17.4	20.8

250664 2005 ND_{24} 10 31.3 207°.99 3°.8/ 4.0 18

9 28	2 47.79	+28 49.0	2.402	3.195	12.7	20.9
10 8	2 42.11	+28 38.6	2.313	3.190	10.1	20.7
10 18	2 34.58	+28 11.5	2.247	3.184	7.2	20.5
10 28	2 25.87	+27 27.6	2.208	3.178	4.6	20.3
11 7	2 16.89	+26 29.5	2.198	3.172	3.9	20.3
11 17	2 8.54	+25 21.9	2.217	3.165	6.1	20.4
11 27	2 1.68	+24 10.9	2.265	3.158	9.0	20.6
12 7	1 56.86	+23 3.2	2.339	3.150	11.8	20.8

513955 2014 EO_{4} 10 31.3 211°.14 4°.8/26.8 18

9 28	2 46.57	+ 2 28.4	2.217	3.077	11.3	22.6
10 8	2 41.09	+ 1 12.3	2.146	3.070	8.5	22.4
10 18	2 33.92	− 0 4.2	2.101	3.063	5.8	22.2
10 28	2 25.70	− 1 15.0	2.084	3.055	4.8	22.1
11 7	2 17.26	− 2 14.1	2.097	3.046	6.4	22.2
11 17	2 9.42	− 2 56.8	2.137	3.037	9.2	22.4
11 27	2 2.95	− 3 20.4	2.203	3.027	12.1	22.5
12 7	1 58.37	− 3 24.5	2.291	3.017	14.6	22.7

292852 2006 US_{334} 10 31.3 194°.81 2°.4/ 2.1 18

9 28	2 49.35	+22 59.7	1.593	2.430	16.1	20.8
10 8	2 43.87	+22 35.8	1.519	2.430	12.3	20.6
10 18	2 35.85	+21 52.8	1.467	2.429	7.9	20.3
10 28	2 26.22	+20 52.6	1.441	2.428	3.5	20.1
11 7	2 16.25	+19 40.3	1.442	2.426	3.5	20.1
11 17	2 7.24	+18 23.9	1.471	2.425	7.8	20.3
11 27	2 0.33	+17 12.3	1.525	2.423	12.2	20.6
12 7	1 56.20	+16 12.9	1.602	2.421	16.0	20.8

480524 2015 MV_{9} 10 31.3 150°.06 0°.2/31.2 18

9 28	2 47.89	+16 7.3	1.916	2.765	13.3	21.8
10 8	2 42.28	+15 30.5	1.848	2.770	9.8	21.6
10 18	2 34.69	+14 43.2	1.803	2.774	5.7	21.4
10 28	2 25.90	+13 48.7	1.787	2.779	1.4	21.1
11 7	2 16.91	+12 52.4	1.799	2.783	3.0	21.2
11 17	2 8.72	+11 59.8	1.840	2.787	7.2	21.5
11 27	2 2.22	+11 16.6	1.907	2.790	11.0	21.7
12 7	1 57.94	+10 46.3	1.998	2.793	14.1	21.9

292824 2006 UV_{270} 10 31.3 326°.68 1°.4/30.4 18

9 28	2 48.07	+10 59.0	1.814	2.674	13.4	20.6
10 8	2 42.59	+10 50.2	1.741	2.670	9.8	20.4
10 18	2 34.98	+10 36.4	1.692	2.665	5.8	20.1
10 28	2 26.00	+10 20.5	1.669	2.661	1.8	19.9
11 7	2 16.68	+10 6.4	1.675	2.657	3.7	20.0
11 17	2 8.11	+ 9 57.8	1.709	2.653	7.9	20.2
11 27	2 1.24	+ 9 58.4	1.769	2.649	11.8	20.5
12 7	1 56.72	+10 10.3	1.850	2.646	15.1	20.7

348371 2005 EC_{280} 10 31.3 264°.13 2°.9/29.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 50.05	+ 6 51.5	1.905	2.763	12.9	21.0
10 8	2 44.02	+ 6 36.6	1.823	2.750	9.5	20.7
10 18	2 35.84	+ 6 20.1	1.766	2.737	5.8	20.5
10 28	2 26.23	+ 6 5.6	1.736	2.723	2.9	20.3
11 7	2 16.20	+ 5 57.2	1.734	2.709	4.8	20.4
11 17	2 6.83	+ 5 58.1	1.762	2.695	8.6	20.6
11 27	1 59.10	+ 6 11.2	1.815	2.681	12.3	20.8
12 7	1 53.68	+ 6 37.4	1.890	2.666	15.5	21.0

327554 2006 CB_{20} 10 31.3 341°.10 0°.8/31.9 17

9 28	2 43.89	+18 0.9	1.696	2.553	14.3	21.1
10 8	2 39.75	+17 43.0	1.618	2.543	10.7	20.8
10 18	2 33.40	+17 12.3	1.564	2.534	6.5	20.6
10 28	2 25.61	+16 31.4	1.534	2.525	2.0	20.3
11 7	2 17.44	+15 44.8	1.532	2.518	3.0	20.3
11 17	2 10.00	+14 58.5	1.557	2.511	7.5	20.6
11 27	2 4.31	+14 18.8	1.607	2.504	11.7	20.8
12 7	2 1.04	+13 50.6	1.679	2.499	15.3	21.1

444939 2008 CW_{26} 10 31.3 273°.60 1°.7/ 1.6 18

9 28	2 47.84	+19 53.4	1.963	2.800	13.5	21.4
10 8	2 42.43	+19 52.2	1.881	2.793	10.2	21.2
10 18	2 34.90	+19 39.1	1.822	2.786	6.4	20.9
10 28	2 25.99	+19 15.0	1.790	2.778	2.6	20.7
11 7	2 16.70	+18 43.0	1.786	2.771	2.9	20.7
11 17	2 8.08	+18 7.5	1.811	2.764	6.8	20.9
11 27	2 1.11	+17 34.2	1.863	2.756	10.6	21.1
12 7	1 56.44	+17 7.9	1.938	2.749	13.9	21.3

163326 2002 JF_{124} 10 31.3 58°.21 7°.5/27.5 18

9 28	2 51.86	− 4 27.0	1.570	2.433	15.0	19.3
10 8	2 45.27	− 4 57.8	1.526	2.445	11.7	19.2
10 18	2 36.44	− 5 18.5	1.505	2.457	8.7	19.0
10 28	2 26.33	− 5 22.7	1.508	2.469	7.5	19.0
11 7	2 16.16	− 5 6.5	1.539	2.482	8.9	19.1
11 17	2 7.11	− 4 28.6	1.595	2.494	11.8	19.3
11 27	2 0.12	− 3 30.5	1.674	2.507	14.8	19.5
12 7	1 55.71	− 2 15.8	1.774	2.520	17.5	19.8

447408 2006 BF_{168} 10 31.3 288°.66 22°.5/13.4 17

9 28	2 52.39	−29 13.2	1.057	1.880	23.4	20.0
10 8	2 46.87	−31 55.5	1.041	1.876	22.6	19.9
10 18	2 37.84	−33 53.5	1.039	1.872	22.6	19.9
10 28	2 26.72	−34 51.9	1.053	1.868	23.3	20.0
11 7	2 15.46	−34 44.5	1.080	1.865	24.6	20.1
11 17	2 5.91	−33 33.9	1.120	1.861	26.2	20.2
11 27	1 59.43	−31 29.6	1.171	1.858	27.8	20.3
12 7	1 56.62	−28 44.6	1.232	1.854	29.3	20.5

255060 2005 TG_{167} 10 31.3 6°.78 0°.7/31.9 18

9 28	2 45.67	+17 24.3	1.654	2.511	14.6	20.4
10 8	2 41.01	+17 14.5	1.587	2.512	10.9	20.2
10 18	2 34.11	+16 53.0	1.542	2.513	6.6	19.9
10 28	2 25.79	+16 22.3	1.524	2.515	2.0	19.7
11 7	2 17.18	+15 46.6	1.532	2.517	3.0	19.7
11 17	2 9.41	+15 11.3	1.567	2.521	7.5	20.0
11 27	2 3.50	+14 42.3	1.628	2.524	11.7	20.3
12 7	2 0.05	+14 23.8	1.711	2.529	15.2	20.5

453536 2009 WT_{74} 10 31.4 141°.60 4°.6/27.3 18

9 28	2 46.65	− 1 46.1	2.617	3.469	10.1	20.7
10 8	2 40.83	− 2 14.4	2.558	3.474	7.7	20.6
10 18	2 33.63	− 2 38.3	2.525	3.480	5.5	20.5
10 28	2 25.63	− 2 53.9	2.521	3.485	4.6	20.4
11 7	2 17.52	− 2 58.4	2.546	3.490	5.8	20.5
11 17	2 9.99	− 2 49.8	2.600	3.495	8.0	20.7
11 27	2 3.66	− 2 27.5	2.680	3.500	10.3	20.8
12 7	1 58.96	− 1 52.2	2.782	3.504	12.3	21.0

280885 2005 WG_{89} 10 31.4 287°.25 2°.8/29.8 18

9 28	2 50.04	+ 8 26.7	1.555	2.423	14.8	20.6
10 8	2 44.35	+ 8 6.6	1.484	2.416	10.9	20.4
10 18	2 36.16	+ 7 42.8	1.435	2.409	6.5	20.1
10 28	2 26.35	+ 7 19.7	1.413	2.402	2.9	19.9
11 7	2 16.11	+ 7 2.2	1.417	2.395	5.0	20.0
11 17	2 6.75	+ 6 55.1	1.449	2.388	9.5	20.2
11 27	1 59.38	+ 7 1.7	1.505	2.381	13.7	20.5
12 7	1 54.72	+ 7 23.6	1.581	2.375	17.3	20.7

164053 2003 VP_{5} 10 31.4 50°.58 0°.2/31.5 18

9 28	2 47.58	+16 37.9	1.661	2.517	14.7	19.8
10 8	2 42.33	+16 14.9	1.598	2.522	10.8	19.6
10 18	2 34.84	+15 40.5	1.557	2.528	6.4	19.4
10 28	2 25.99	+14 57.6	1.542	2.534	1.7	19.1
11 7	2 16.89	+14 11.5	1.555	2.540	3.1	19.2
11 17	2 8.71	+13 28.0	1.595	2.546	7.7	19.5
11 27	2 2.42	+12 53.0	1.661	2.552	11.8	19.8
12 7	1 58.62	+12 30.7	1.749	2.558	15.3	20.0

387740 2003 GK_{57} 10 31.4 318°.55 4°.1/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 45.51	+ 8 2.2	1.425	2.305	15.2	20.9
10 8	2 41.16	+ 6 53.8	1.358	2.296	11.2	20.7
10 18	2 34.33	+ 5 38.7	1.312	2.286	6.9	20.4
10 28	2 25.89	+ 4 24.6	1.292	2.277	4.1	20.2
11 7	2 17.07	+ 3 20.5	1.297	2.269	6.5	20.3
11 17	2 9.13	+ 2 33.7	1.329	2.261	10.9	20.6
11 27	2 3.19	+ 2 9.4	1.383	2.253	15.1	20.8
12 7	1 59.95	+ 2 8.7	1.456	2.246	18.8	21.0

224267 2005 SP_{279} 10 31.4 301°.33 0°.4/31.1 18

9 28	2 49.86	+13 47.7	1.446	2.311	15.9	20.4
10 8	2 44.58	+13 45.1	1.367	2.297	11.8	20.1
10 18	2 36.50	+13 33.5	1.309	2.283	7.0	19.8
10 28	2 26.49	+13 15.5	1.277	2.269	1.8	19.4
11 7	2 15.85	+12 55.2	1.271	2.255	3.8	19.5
11 17	2 6.04	+12 38.1	1.291	2.242	9.1	19.8
11 27	1 58.37	+12 29.5	1.336	2.229	14.0	20.1
12 7	1 53.69	+12 33.6	1.401	2.216	18.1	20.3

343230 Corsini 10 31.4 330°.22 5°.0/28.5 18

9 28	2 46.46	+ 5 22.2	1.273	2.159	16.2	20.1
10 8	2 42.16	+ 4 37.5	1.206	2.146	12.1	19.8
10 18	2 35.06	+ 3 50.4	1.160	2.133	7.7	19.5
10 28	2 26.11	+ 3 8.6	1.137	2.122	5.0	19.3
11 7	2 16.65	+ 2 39.8	1.140	2.111	7.3	19.4
11 17	2 8.14	+ 2 30.1	1.166	2.101	11.9	19.7
11 27	2 1.85	+ 2 42.8	1.215	2.091	16.3	19.9
12 7	1 58.56	+ 3 17.7	1.282	2.083	20.2	20.1

441088 2007 RF_{202} 10 31.4 2°.37 0°.6/31.8 18

9 28	2 46.50	+17 33.5	1.502	2.363	15.7	21.1
10 8	2 41.83	+17 15.9	1.435	2.362	11.7	20.9
10 18	2 34.69	+16 44.9	1.390	2.362	7.0	20.6
10 28	2 25.98	+16 3.4	1.370	2.362	2.1	20.3
11 7	2 16.94	+15 16.7	1.377	2.363	3.3	20.4
11 17	2 8.84	+14 31.4	1.410	2.364	8.2	20.7
11 27	2 2.76	+13 54.2	1.468	2.366	12.6	21.0
12 7	1 59.39	+13 30.0	1.547	2.368	16.3	21.2

155093 2005 SP_{183} 10 31.4 131°.69 0°.5/31.7 16

9 28	2 50.40	+17 58.6	1.780	2.623	14.4	21.6
10 8	2 44.23	+17 29.4	1.717	2.635	10.6	21.3
10 18	2 35.89	+16 47.7	1.677	2.645	6.4	21.1
10 28	2 26.26	+15 56.5	1.664	2.656	1.8	20.9
11 7	2 16.47	+15 1.1	1.680	2.665	3.0	21.0
11 17	2 7.62	+14 7.5	1.725	2.675	7.4	21.3
11 27	2 0.66	+13 21.9	1.796	2.683	11.3	21.5
12 7	1 56.16	+12 48.7	1.890	2.691	14.6	21.8

265842 2005 YC_{65} 10 31.4 29°.74 1°.3/30.4 18

9 28	2 45.63	+12 7.8	2.021	2.878	12.3	20.6
10 8	2 40.58	+11 41.3	1.953	2.881	9.0	20.4
10 18	2 33.71	+11 8.7	1.910	2.884	5.2	20.1
10 28	2 25.73	+10 33.4	1.895	2.886	1.6	19.9
11 7	2 17.55	+ 9 59.6	1.908	2.889	3.4	20.0
11 17	2 10.06	+ 9 31.6	1.949	2.892	7.2	20.3
11 27	2 4.08	+ 9 13.3	2.017	2.895	10.7	20.5
12 7	2 0.14	+ 9 7.0	2.108	2.899	13.7	20.7

490525 2009 UF_{141} 10 31.4 326°.26 0°.6/31.6 17

9 28	2 56.14	+12 9.0	1.768	2.614	14.4	20.0
10 8	2 49.06	+13 14.0	1.671	2.590	10.8	19.8
10 18	2 39.19	+14 18.7	1.598	2.567	6.6	19.5
10 28	2 27.24	+15 21.9	1.553	2.545	1.9	19.1
11 7	2 14.40	+16 22.6	1.538	2.523	3.3	19.2
11 17	2 2.04	+17 20.5	1.553	2.502	8.1	19.4
11 27	1 51.53	+18 16.9	1.596	2.482	12.5	19.6
12 7	1 43.83	+19 14.1	1.662	2.462	16.3	19.8

323650 2005 BC_{17} 10 31.4 66°.92 4°.9/ 3.6 18

9 28	2 51.85	+27 7.3	1.273	2.108	19.4	20.4
10 8	2 46.15	+27 10.7	1.219	2.122	15.3	20.2
10 18	2 37.35	+26 49.0	1.184	2.137	10.6	20.0
10 28	2 26.68	+26 2.0	1.172	2.151	6.2	19.8
11 7	2 15.79	+24 54.8	1.186	2.166	5.3	19.8
11 17	2 6.33	+23 36.7	1.225	2.180	8.9	20.0
11 27	1 59.58	+22 19.1	1.288	2.195	13.3	20.3
12 7	1 56.18	+21 11.9	1.372	2.210	17.1	20.6

228051 2008 HQ_{36} 10 31.4 72°.53 4°.6/28.4 18

9 28	2 48.77	+ 6 31.8	1.415	2.291	15.5	20.2
10 8	2 43.24	+ 5 22.8	1.371	2.307	11.3	20.0
10 18	2 35.35	+ 4 11.4	1.350	2.322	7.1	19.8
10 28	2 26.14	+ 3 5.5	1.354	2.337	4.6	19.7
11 7	2 16.86	+ 2 12.9	1.384	2.352	6.7	19.9
11 17	2 8.74	+ 1 39.3	1.440	2.367	10.7	20.1
11 27	2 2.74	+ 1 27.6	1.520	2.383	14.5	20.4
12 7	1 59.39	+ 1 37.6	1.619	2.398	17.6	20.7

423026 2003 TH_{38} 10 31.4 120°.02 2°.0/ 1.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 51.71	+22 40.3	1.586	2.421	16.2	21.8
10 8	2 45.42	+22 6.2	1.525	2.435	12.3	21.6
10 18	2 36.68	+21 13.3	1.487	2.449	7.8	21.4
10 28	2 26.49	+20 4.5	1.475	2.463	3.2	21.1
11 7	2 16.18	+18 46.0	1.491	2.476	3.3	21.2
11 17	2 7.02	+17 26.1	1.535	2.488	7.7	21.5
11 27	2 0.05	+16 13.5	1.605	2.500	11.9	21.7
12 7	1 55.84	+15 14.6	1.698	2.511	15.5	22.0

484036 2006 DB_{218} 10 31.4 159°.80 1°.7/ 1.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.07	+20 28.4	2.503	3.328	11.3	22.1
10 8	2 41.44	+20 33.1	2.426	3.330	8.6	21.9
10 18	2 34.16	+20 28.1	2.372	3.332	5.5	21.7
10 28	2 25.86	+20 14.1	2.347	3.334	2.4	21.5
11 7	2 17.32	+19 53.3	2.352	3.335	2.5	21.5
11 17	2 9.35	+19 28.8	2.386	3.337	5.5	21.8
11 27	2 2.69	+19 4.6	2.449	3.338	8.6	22.0
12 7	1 57.86	+18 44.6	2.537	3.339	11.3	22.1

10115 1992 SK 10 31.4 140°.03 13°.3/ 3.7 17 A

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	3 39.66	+30 20.9	0.710	1.522	32.8	18.5
10 8	3 24.96	+33 6.5	0.670	1.551	26.7	18.3
10 18	3 2.04	+35 18.0	0.644	1.576	20.1	18.0
10 28	2 33.20	+36 27.8	0.638	1.598	14.6	17.9
11 7	2 3.52	+36 23.0	0.655	1.616	13.6	17.9
11 17	1 38.46	+35 18.0	0.695	1.630	17.4	18.2
11 27	1 21.25	+33 45.4	0.756	1.641	22.5	18.5
12 7	1 12.27	+32 15.3	0.832	1.649	27.2	18.9

479413 2013 YR_{65} 10 31.4 124°.10 7°.3/25.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.42	− 5 3.7	1.908	2.765	13.0	21.1
10 8	2 43.24	− 6 6.8	1.863	2.777	10.2	20.9
10 18	2 35.20	− 7 1.5	1.843	2.788	8.0	20.8
10 28	2 26.11	− 7 41.2	1.849	2.799	7.4	20.8
11 7	2 16.97	− 8 0.8	1.883	2.810	8.7	20.9
11 17	2 8.71	− 7 58.0	1.942	2.820	11.2	21.1
11 27	2 2.13	− 7 33.1	2.026	2.830	13.7	21.3
12 7	1 57.71	− 6 48.5	2.129	2.839	16.0	21.5

289630 2005 GM_{62} 10 31.4 147°.31 2°.1/ 1.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.85	+21 7.7	1.670	2.505	15.6	21.5
10 8	2 46.30	+21 1.9	1.603	2.513	11.8	21.2
10 18	2 37.27	+20 40.7	1.558	2.520	7.5	21.0
10 28	2 26.69	+20 5.4	1.539	2.527	3.2	20.8
11 7	2 15.84	+19 20.0	1.549	2.533	3.3	20.8
11 17	2 5.99	+18 30.7	1.587	2.539	7.6	21.1
11 27	1 58.26	+17 44.6	1.651	2.544	11.7	21.3
12 7	1 53.27	+17 7.8	1.738	2.549	15.3	21.6

260267 2004 SD_{35} 10 31.4 90°.93 0°.5/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.81	+15 44.9	2.137	2.987	12.1	20.8
10 8	2 39.86	+14 54.1	2.073	2.996	8.8	20.6
10 18	2 33.23	+13 53.7	2.034	3.005	5.1	20.4
10 28	2 25.64	+12 47.8	2.022	3.014	1.3	20.1
11 7	2 17.92	+11 41.6	2.040	3.023	2.9	20.2
11 17	2 10.92	+10 40.7	2.087	3.032	6.6	20.5
11 27	2 5.35	+ 9 49.9	2.162	3.041	10.0	20.7
12 7	2 1.71	+ 9 12.5	2.260	3.050	12.9	20.9

167348 2003 WV_{8} 10 31.4 83°.47 2°.1/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 53.56	+19 48.4	1.783	2.617	14.8	19.7
10 8	2 46.56	+20 8.5	1.728	2.637	11.1	19.5
10 18	2 37.29	+20 16.4	1.696	2.658	7.0	19.3
10 28	2 26.68	+20 12.6	1.691	2.678	3.0	19.1
11 7	2 15.93	+19 59.4	1.715	2.699	3.2	19.1
11 17	2 6.22	+19 41.2	1.767	2.719	7.0	19.4
11 27	1 58.51	+19 23.3	1.847	2.738	10.8	19.7
12 7	1 53.39	+19 10.3	1.949	2.758	13.9	19.9

392402 2010 KQ_{127} 10 31.4 304°.97 0°.1/31.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.07	+20 6.0	1.737	2.586	14.4	20.3
10 8	2 40.49	+18 31.4	1.660	2.581	10.7	20.0
10 18	2 33.80	+16 37.3	1.607	2.577	6.4	19.8
10 28	2 25.81	+14 29.6	1.581	2.573	1.6	19.5
11 7	2 17.60	+12 17.7	1.585	2.569	3.3	19.6
11 17	2 10.23	+10 12.3	1.618	2.565	8.0	19.9
11 27	2 4.62	+ 8 22.8	1.678	2.561	12.2	20.1
12 7	2 1.37	+ 6 55.5	1.761	2.557	15.7	20.3

405250 2003 SE_{206} 10 31.4 111°.83 6°.1/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.95	+36 28.5	2.551	3.296	13.3	21.1
10 8	2 43.72	+36 53.1	2.479	3.309	11.1	21.0
10 18	2 35.57	+36 58.9	2.428	3.322	8.9	20.8
10 28	2 26.25	+36 44.4	2.403	3.335	6.9	20.7
11 7	2 16.72	+36 10.3	2.405	3.348	6.1	20.7
11 17	2 7.92	+35 20.2	2.435	3.360	7.0	20.8
11 27	2 0.71	+34 19.9	2.493	3.372	8.8	20.9
12 7	1 55.66	+33 16.1	2.576	3.384	10.9	21.1

485321 2011 BN_{53} 10 31.4 270°.86 0°.1/31.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 45.15	+16 11.6	2.362	3.205	11.3	22.6
10 8	2 40.17	+15 50.8	2.274	3.192	8.4	22.4
10 18	2 33.50	+15 21.5	2.210	3.179	5.0	22.2
10 28	2 25.75	+14 45.8	2.174	3.166	1.3	21.9
11 7	2 17.68	+14 7.2	2.168	3.153	2.5	21.9
11 17	2 10.12	+13 29.7	2.192	3.139	6.1	22.2
11 27	2 3.85	+12 57.6	2.242	3.126	9.5	22.4
12 7	1 59.41	+12 34.4	2.317	3.112	12.4	22.5

378027 2006 SX_{326} 10 31.4 346°.47 0°.0/31.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.39	+14 47.9	1.187	2.062	17.9	20.8
10 8	2 44.60	+14 52.6	1.122	2.057	13.4	20.5
10 18	2 36.67	+14 46.3	1.077	2.052	8.0	20.2
10 28	2 26.62	+14 31.4	1.056	2.048	2.1	19.8
11 7	2 16.02	+14 12.5	1.059	2.044	4.0	19.9
11 17	2 6.53	+13 55.7	1.086	2.042	9.8	20.3
11 27	1 59.59	+13 47.4	1.137	2.040	15.0	20.6
12 7	1 56.02	+13 52.1	1.206	2.039	19.3	20.8

192296 1991 TA_{16} 10 31.4 38°.52 2°.9/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.27	+10 19.0	1.056	1.944	18.7	19.8
10 8	2 44.15	+ 9 42.8	1.021	1.963	13.5	19.6
10 18	2 36.08	+ 9 0.0	1.007	1.984	7.9	19.4
10 28	2 26.38	+ 8 17.5	1.015	2.006	3.1	19.2
11 7	2 16.69	+ 7 43.3	1.048	2.028	5.7	19.4
11 17	2 8.55	+ 7 23.4	1.104	2.052	10.8	19.8
11 27	2 3.07	+ 7 21.7	1.183	2.075	15.4	20.1
12 7	2 0.78	+ 7 38.7	1.280	2.100	19.2	20.4

331373 2012 DY_{58} 10 31.4 161°.16 0°.9/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.85	+12 39.0	2.714	3.560	9.9	21.8
10 8	2 39.62	+12 10.9	2.642	3.564	7.2	21.6
10 18	2 33.02	+11 37.7	2.596	3.567	4.2	21.4
10 28	2 25.60	+11 1.9	2.579	3.571	1.2	21.2
11 7	2 18.04	+10 26.8	2.593	3.574	2.6	21.3
11 17	2 11.00	+ 9 55.8	2.637	3.577	5.7	21.5
11 27	2 5.09	+ 9 31.9	2.709	3.580	8.5	21.7
12 7	2 0.75	+ 9 17.3	2.805	3.582	11.0	21.9

437434 2013 XM_{25} 10 31.4 328°.78 1°.2/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.15	+18 56.9	1.297	2.162	17.4	21.1
10 8	2 42.81	+18 41.5	1.225	2.152	13.1	20.8
10 18	2 35.56	+18 9.1	1.173	2.144	8.1	20.5
10 28	2 26.34	+17 22.0	1.145	2.135	2.7	20.1
11 7	2 16.58	+16 26.1	1.142	2.128	3.6	20.2
11 17	2 7.80	+15 29.5	1.164	2.121	9.1	20.5
11 27	2 1.37	+14 41.0	1.210	2.114	14.2	20.7
12 7	1 58.07	+14 7.5	1.276	2.108	18.5	21.0

313981 2004 TJ_{80} 10 31.4 189°.60 2°.8/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.91	+24 8.6	2.443	3.254	12.0	21.1
10 8	2 42.17	+24 16.3	2.361	3.254	9.3	20.9
10 18	2 34.68	+24 11.8	2.302	3.253	6.3	20.8
10 28	2 26.06	+23 55.1	2.272	3.252	3.5	20.6
11 7	2 17.15	+23 28.1	2.271	3.250	3.2	20.6
11 17	2 8.84	+22 54.3	2.299	3.249	5.8	20.7
11 27	2 1.91	+22 18.4	2.356	3.247	8.8	20.9
12 7	1 56.92	+21 45.3	2.437	3.245	11.5	21.1

92198 1999 XH_{239} 10 31.4 60°.94 2°.0/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.68	+19 47.4	2.070	2.902	13.1	19.1
10 8	2 43.62	+20 7.9	2.002	2.910	9.9	18.9
10 18	2 35.57	+20 18.2	1.958	2.919	6.3	18.7
10 28	2 26.28	+20 18.3	1.941	2.927	2.8	18.5
11 7	2 16.74	+20 10.4	1.953	2.936	2.9	18.5
11 17	2 7.94	+19 57.6	1.994	2.945	6.4	18.7
11 27	2 0.77	+19 44.3	2.062	2.954	9.8	19.0
12 7	1 55.82	+19 34.8	2.155	2.963	12.8	19.2

148279 2000 GF_{87} 10 31.4 194°.66 1°.7/30.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.31	+10 46.5	1.910	2.762	13.2	20.3
10 8	2 44.90	+10 24.5	1.836	2.760	9.7	20.1
10 18	2 36.37	+ 9 57.1	1.786	2.758	5.7	19.8
10 28	2 26.50	+ 9 27.6	1.764	2.755	2.0	19.6
11 7	2 16.32	+ 9 0.4	1.771	2.751	3.9	19.7
11 17	2 6.90	+ 8 39.8	1.808	2.747	7.9	19.9
11 27	1 59.19	+ 8 29.6	1.871	2.742	11.7	20.2
12 7	1 53.82	+ 8 32.0	1.956	2.737	14.9	20.4

57179 2001 QW_{25} 10 31.4 4°.17 8°.7/26.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.66	+ 0 0.8	0.973	1.878	18.3	17.4
10 8	2 39.68	− 1 12.7	0.931	1.876	14.0	17.1
10 18	2 33.69	− 2 20.0	0.908	1.877	10.2	16.9
10 28	2 25.83	− 3 9.3	0.905	1.879	8.8	16.8
11 7	2 17.70	− 3 31.0	0.925	1.883	11.0	17.0
11 17	2 10.85	− 3 20.3	0.965	1.889	15.0	17.2
11 27	2 6.53	− 2 37.7	1.024	1.896	19.0	17.5
12 7	2 5.38	− 1 28.1	1.099	1.906	22.5	17.8

186984 2004 SV_{16} 10 31.4 85°.00 3°.0/29.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 47.85	+ 5 52.6	2.118	2.976	11.8	19.9
10 8	2 42.05	+ 5 31.4	2.059	2.985	8.6	19.7
10 18	2 34.53	+ 5 9.7	2.025	2.995	5.3	19.6
10 28	2 26.00	+ 4 51.1	2.019	3.004	3.0	19.4
11 7	2 17.34	+ 4 39.3	2.042	3.013	4.6	19.5
11 17	2 9.40	+ 4 37.1	2.094	3.022	7.7	19.8
11 27	2 2.95	+ 4 46.4	2.172	3.031	10.8	20.0
12 7	1 58.48	+ 5 7.9	2.273	3.040	13.5	20.2

103408 2000 AK_{140} 10 31.4 11°.36 4°.4/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.42	+ 9 39.1	1.002	1.902	18.4	18.3
10 8	2 40.21	+ 8 23.0	0.956	1.904	13.4	18.1
10 18	2 33.99	+ 6 57.8	0.929	1.908	8.1	17.8
10 28	2 25.91	+ 5 34.1	0.924	1.913	4.4	17.6
11 7	2 17.58	+ 4 23.6	0.943	1.919	7.3	17.8
11 17	2 10.56	+ 3 35.6	0.984	1.927	12.4	18.1
11 27	2 6.08	+ 3 15.4	1.045	1.936	17.2	18.4
12 7	2 4.78	+ 3 22.9	1.124	1.946	21.2	18.7

3556 Lixiaohua 10 31.4 7°.60 2°.2/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.23	+23 17.4	1.648	2.494	15.2	16.6
10 8	2 38.57	+22 42.0	1.581	2.496	11.6	16.4
10 18	2 32.74	+21 47.9	1.536	2.499	7.5	16.2
10 28	2 25.58	+20 38.0	1.516	2.503	3.3	15.9
11 7	2 18.19	+19 18.1	1.522	2.507	3.1	15.9
11 17	2 11.66	+17 56.1	1.556	2.513	7.2	16.2
11 27	2 6.93	+16 40.4	1.616	2.520	11.2	16.4
12 7	2 4.59	+15 37.6	1.698	2.528	14.7	16.7

480958 2003 TM_{48} 10 31.4 349°.90 0°.8/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.73	+18 29.0	1.366	2.233	16.6	20.6
10 8	2 40.83	+18 2.3	1.297	2.227	12.4	20.3
10 18	2 34.29	+17 19.2	1.250	2.221	7.5	20.1
10 28	2 26.03	+16 23.2	1.226	2.217	2.3	19.7
11 7	2 17.36	+15 20.7	1.228	2.214	3.4	19.8
11 17	2 9.65	+14 19.8	1.255	2.211	8.7	20.1
11 27	2 4.08	+13 28.9	1.307	2.210	13.4	20.4
12 7	2 1.37	+12 53.7	1.379	2.209	17.5	20.6

153466 2001 RC_{11} 10 31.4 54°.52 0°.7/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.44	+17 43.6	1.306	2.168	17.4	19.6
10 8	2 44.78	+17 25.6	1.260	2.187	12.9	19.4
10 18	2 36.42	+16 53.2	1.236	2.207	7.7	19.1
10 28	2 26.52	+16 9.9	1.235	2.227	2.3	18.9
11 7	2 16.54	+15 22.0	1.261	2.247	3.5	19.0
11 17	2 7.89	+14 36.7	1.313	2.267	8.6	19.4
11 27	2 1.65	+14 0.9	1.389	2.288	13.1	19.7
12 7	1 58.38	+13 39.3	1.486	2.308	16.8	20.0

356845 2011 WQ_{3} 10 31.4 306°.21 1°.3/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.36	+19 3.9	1.827	2.672	14.0	21.0
10 8	2 42.24	+18 55.1	1.749	2.666	10.5	20.8
10 18	2 34.92	+18 33.9	1.694	2.660	6.5	20.6
10 28	2 26.18	+18 1.9	1.665	2.655	2.4	20.3
11 7	2 17.07	+17 22.8	1.664	2.649	2.9	20.3
11 17	2 8.69	+16 41.9	1.691	2.644	7.1	20.6
11 27	2 2.04	+16 5.1	1.744	2.639	11.1	20.8
12 7	1 57.78	+15 37.4	1.820	2.634	14.6	21.0

265930 2006 BK_{158} 10 31.4 175°.30 0°.6/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.78	+14 0.3	2.701	3.544	10.0	21.6
10 8	2 39.62	+13 32.0	2.626	3.546	7.3	21.4
10 18	2 33.06	+12 57.6	2.576	3.547	4.3	21.2
10 28	2 25.67	+12 19.6	2.556	3.548	1.1	21.0
11 7	2 18.11	+11 41.2	2.566	3.548	2.5	21.1
11 17	2 11.06	+11 6.0	2.606	3.549	5.6	21.3
11 27	2 5.15	+10 37.4	2.674	3.549	8.5	21.5
12 7	2 0.82	+10 17.8	2.767	3.549	11.0	21.6

291652 2006 HE_{51} 10 31.4 188°.82 3°.6/ 2.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 53.23	+24 5.8	1.523	2.354	17.0	21.1
10 8	2 47.02	+24 12.0	1.449	2.353	13.2	20.8
10 18	2 37.95	+23 59.2	1.397	2.353	8.9	20.6
10 28	2 26.99	+23 27.1	1.369	2.352	4.7	20.3
11 7	2 15.57	+22 39.1	1.368	2.350	4.3	20.3
11 17	2 5.18	+21 41.7	1.395	2.348	8.3	20.6
11 27	1 57.11	+20 44.0	1.447	2.346	12.7	20.8
12 7	1 52.12	+19 54.2	1.521	2.343	16.5	21.0

347253 2011 KU_{8} 10 31.4 93°.92 0°.7/31.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.14	+19 27.2	1.806	2.646	14.4	21.8
10 8	2 43.90	+18 43.0	1.755	2.671	10.6	21.6
10 18	2 35.66	+17 45.2	1.728	2.695	6.4	21.4
10 28	2 26.32	+16 37.7	1.728	2.719	1.9	21.2
11 7	2 16.99	+15 26.5	1.757	2.742	2.8	21.3
11 17	2 8.69	+14 18.2	1.815	2.765	7.0	21.6
11 27	2 2.27	+13 19.3	1.900	2.787	10.8	21.9
12 7	1 58.20	+12 34.1	2.008	2.808	13.9	22.2

139818 2001 RN_{26} 10 31.4 51°.49 1°.1/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 48.26	+18 20.1	1.754	2.601	14.4	20.0
10 8	2 42.81	+18 14.1	1.691	2.610	10.7	19.8
10 18	2 35.19	+17 56.3	1.651	2.618	6.6	19.6
10 28	2 26.24	+17 28.7	1.637	2.627	2.2	19.3
11 7	2 17.07	+16 55.2	1.651	2.637	2.9	19.4
11 17	2 8.79	+16 20.9	1.693	2.646	7.2	19.7
11 27	2 2.33	+15 51.2	1.761	2.655	11.1	19.9
12 7	1 58.31	+15 30.7	1.852	2.665	14.4	20.2

34788 2001 RE_{114} 10 31.4 293°.81 6°.5/26.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.29	+ 2 29.4	1.477	2.356	14.8	19.2
10 8	2 41.77	+ 1 2.7	1.406	2.340	11.2	19.0
10 18	2 34.79	− 0 25.9	1.358	2.324	7.9	18.8
10 28	2 26.18	− 1 46.8	1.335	2.308	6.6	18.6
11 7	2 17.13	− 2 50.5	1.339	2.293	8.8	18.7
11 17	2 8.87	− 3 29.9	1.367	2.277	12.5	18.9
11 27	2 2.55	− 3 41.3	1.417	2.262	16.4	19.1
12 7	1 58.87	− 3 25.4	1.485	2.247	19.7	19.3

305866 2009 EZ_{28} 10 31.4 260°.09 2°.0/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.24	+19 58.8	1.895	2.730	14.0	21.1
10 8	2 44.35	+20 13.0	1.815	2.725	10.6	20.8
10 18	2 36.19	+20 15.6	1.758	2.720	6.8	20.6
10 28	2 26.54	+20 7.0	1.728	2.715	2.9	20.4
11 7	2 16.45	+19 49.3	1.726	2.710	3.1	20.4
11 17	2 7.08	+19 26.6	1.752	2.704	7.0	20.6
11 27	1 59.46	+19 4.1	1.805	2.699	10.9	20.8
12 7	1 54.29	+18 46.8	1.882	2.693	14.3	21.0

166587 2002 RS_{160} 10 31.4 203°.25 0°.3/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.87	+16 54.0	2.010	2.854	12.9	20.7
10 8	2 42.36	+16 31.3	1.934	2.852	9.6	20.4
10 18	2 34.89	+15 58.2	1.881	2.850	5.7	20.2
10 28	2 26.18	+15 17.2	1.856	2.848	1.6	19.9
11 7	2 17.19	+14 32.5	1.860	2.845	2.7	20.0
11 17	2 8.89	+13 49.1	1.893	2.842	6.9	20.3
11 27	2 2.19	+13 12.3	1.953	2.839	10.6	20.5
12 7	1 57.66	+12 46.0	2.036	2.835	13.8	20.7

473613 2015 XT_{274} 10 31.4 135°.30 2°.1/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.32	+ 8 9.9	2.629	3.482	10.0	21.7
10 8	2 39.97	+ 7 40.1	2.565	3.490	7.3	21.5
10 18	2 33.26	+ 7 7.9	2.527	3.498	4.3	21.3
10 28	2 25.73	+ 6 36.7	2.518	3.505	2.1	21.2
11 7	2 18.09	+ 6 9.7	2.539	3.512	3.5	21.3
11 17	2 11.00	+ 5 49.9	2.589	3.519	6.4	21.5
11 27	2 5.07	+ 5 39.6	2.667	3.526	9.1	21.7
12 7	2 0.74	+ 5 40.2	2.769	3.532	11.4	21.9

222216 2000 EB_{160} 10 31.4 0°.65 4°.7/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.44	+26 48.4	1.755	2.578	15.4	19.1
10 8	2 41.79	+27 15.2	1.682	2.577	12.3	18.9
10 18	2 34.76	+27 24.4	1.630	2.576	8.8	18.7
10 28	2 26.18	+27 15.1	1.602	2.576	5.6	18.5
11 7	2 17.19	+26 48.8	1.601	2.576	4.9	18.5
11 17	2 9.00	+26 10.3	1.626	2.578	7.5	18.7
11 27	2 2.70	+25 26.3	1.677	2.580	11.0	18.9
12 7	1 58.97	+24 44.1	1.751	2.583	14.3	19.1

320248 2007 LD_{10} 10 31.4 128°.88 2°.9/28.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.58	+ 7 10.6	2.544	3.402	10.1	20.9
10 8	2 38.73	+ 6 6.6	2.483	3.410	7.3	20.8
10 18	2 32.54	+ 5 0.1	2.449	3.419	4.5	20.6
10 28	2 25.56	+ 3 55.7	2.443	3.426	2.9	20.5
11 7	2 18.47	+ 2 58.1	2.468	3.434	4.4	20.6
11 17	2 11.96	+ 2 11.2	2.522	3.441	7.1	20.8
11 27	2 6.61	+ 1 38.1	2.603	3.448	9.7	21.0
12 7	2 2.84	+ 1 19.9	2.706	3.455	12.0	21.2

339293 2004 XT_{42} 10 31.4 64°.31 3°.2/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.59	+25 51.9	1.706	2.533	15.7	19.9
10 8	2 42.53	+25 25.6	1.633	2.534	12.2	19.7
10 18	2 35.13	+24 38.8	1.582	2.536	8.2	19.5
10 28	2 26.26	+23 32.8	1.556	2.538	4.3	19.3
11 7	2 17.12	+22 12.7	1.557	2.539	3.7	19.2
11 17	2 8.91	+20 46.2	1.586	2.541	7.3	19.5
11 27	2 2.64	+19 22.4	1.642	2.543	11.3	19.7
12 7	1 58.96	+18 9.2	1.720	2.545	14.8	19.9

311788 2006 UZ_{66} 10 31.4 322°.75 1°.9/30.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.05	+13 13.8	1.477	2.352	15.0	21.3
10 8	2 39.61	+12 21.1	1.388	2.324	11.1	21.0
10 18	2 33.66	+11 15.3	1.321	2.297	6.6	20.7
10 28	2 25.96	+10 1.6	1.279	2.271	2.2	20.4
11 7	2 17.63	+ 8 48.0	1.263	2.245	4.7	20.5
11 17	2 9.95	+ 7 43.0	1.273	2.220	9.8	20.7
11 27	2 4.15	+ 6 54.6	1.307	2.195	14.5	20.9
12 7	2 1.04	+ 6 27.3	1.360	2.172	18.7	21.1

454589 2014 PX_{37} 10 31.4 98°.30 2°.1/29.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 46.26	+ 9 14.4	2.290	3.145	11.2	21.7
10 8	2 40.79	+ 8 40.5	2.233	3.160	8.1	21.5
10 18	2 33.78	+ 8 3.3	2.202	3.173	4.8	21.3
10 28	2 25.89	+ 7 26.5	2.199	3.187	2.1	21.2
11 7	2 17.90	+ 6 54.0	2.225	3.201	3.7	21.3
11 17	2 10.59	+ 6 29.3	2.280	3.214	6.9	21.5
11 27	2 4.64	+ 6 15.3	2.363	3.227	9.9	21.8
12 7	2 0.50	+ 6 13.4	2.469	3.240	12.4	22.0

490566 2009 WM_{39} 10 31.4 3°.52 2°.6/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.47	+24 47.0	2.118	2.941	13.2	20.7
10 8	2 39.87	+24 25.8	2.041	2.941	10.2	20.5
10 18	2 33.42	+23 48.8	1.987	2.941	6.8	20.3
10 28	2 25.82	+22 57.5	1.959	2.941	3.5	20.1
11 7	2 17.99	+21 55.5	1.959	2.942	3.1	20.1
11 17	2 10.85	+20 48.3	1.989	2.943	6.2	20.3
11 27	2 5.22	+19 42.5	2.046	2.944	9.5	20.5
12 7	2 1.65	+18 44.0	2.127	2.945	12.6	20.7

278201 2007 EL_{30} 10 31.4 241°.26 2°.3/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.91	+10 42.9	1.832	2.691	13.4	22.0
10 8	2 43.34	+ 9 55.1	1.750	2.678	9.8	21.8
10 18	2 35.60	+ 8 59.8	1.692	2.665	5.8	21.5
10 28	2 26.42	+ 8 1.8	1.661	2.651	2.4	21.3
11 7	2 16.83	+ 7 7.1	1.659	2.637	4.5	21.4
11 17	2 7.93	+ 6 21.8	1.686	2.622	8.7	21.6
11 27	2 0.72	+ 5 50.7	1.738	2.606	12.6	21.8
12 7	1 55.86	+ 5 36.8	1.811	2.591	16.0	22.0

521445 2015 NP_{28} 10 31.4 43°.24 2°.4/ 2.1 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.24	+21 49.2	1.794	2.631	14.6	21.5
10 8	2 42.89	+21 48.8	1.725	2.635	11.1	21.3
10 18	2 35.30	+21 33.9	1.678	2.639	7.2	21.1
10 28	2 26.32	+21 5.5	1.657	2.643	3.3	20.8
11 7	2 17.06	+20 27.1	1.664	2.648	3.2	20.8
11 17	2 8.63	+19 43.8	1.698	2.652	7.0	21.1
11 27	2 2.03	+19 2.1	1.759	2.657	10.9	21.3
12 7	1 57.89	+18 27.7	1.843	2.662	14.2	21.6

348783 2006 KJ_{86} 10 31.4 143°.82 6°.0/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.30	− 2 2.9	2.026	2.883	12.3	21.0
10 8	2 43.16	− 2 54.3	1.973	2.891	9.5	20.8
10 18	2 35.24	− 3 40.4	1.945	2.898	7.0	20.7
10 28	2 26.27	− 4 15.3	1.944	2.905	6.0	20.6
11 7	2 17.19	− 4 34.5	1.971	2.912	7.4	20.7
11 17	2 8.90	− 4 35.2	2.025	2.918	10.0	20.9
11 27	2 2.19	− 4 16.7	2.104	2.924	12.7	21.1
12 7	1 57.54	− 3 40.7	2.204	2.929	15.1	21.3

181607 2006 WG_{60} 10 31.4 259°.78 3°.2/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.07	+ 6 46.7	2.069	2.931	11.9	20.3
10 8	2 40.98	+ 6 1.6	1.993	2.922	8.7	20.1
10 18	2 34.07	+ 5 13.6	1.943	2.913	5.4	19.9
10 28	2 26.01	+ 4 27.6	1.920	2.904	3.2	19.8
11 7	2 17.66	+ 3 48.6	1.925	2.895	5.0	19.8
11 17	2 9.93	+ 3 20.9	1.959	2.885	8.3	20.0
11 27	2 3.64	+ 3 7.9	2.018	2.876	11.6	20.2
12 7	1 59.34	+ 3 10.6	2.100	2.866	14.5	20.4

335411 2005 TZ_{129} 10 31.4 97°.01 0°.9/31.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 55.98	+16 51.6	1.692	2.531	15.2	21.3
10 8	2 48.36	+17 1.6	1.641	2.556	11.2	21.1
10 18	2 38.40	+17 1.1	1.613	2.580	6.8	20.9
10 28	2 27.09	+16 51.6	1.612	2.603	2.1	20.7
11 7	2 15.71	+16 36.1	1.641	2.626	3.0	20.8
11 17	2 5.49	+16 19.1	1.698	2.648	7.4	21.1
11 27	1 57.41	+16 5.6	1.782	2.670	11.4	21.4
12 7	1 52.04	+15 59.6	1.889	2.690	14.6	21.7

395539 2011 UO_{160} 10 31.4 339°.45 3°.8/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.35	+ 6 39.4	1.599	2.473	14.2	20.1
10 8	2 41.60	+ 5 59.2	1.533	2.468	10.4	19.9
10 18	2 34.59	+ 5 16.3	1.489	2.462	6.5	19.6
10 28	2 26.16	+ 4 36.4	1.472	2.457	3.8	19.4
11 7	2 17.40	+ 4 5.5	1.480	2.453	5.8	19.6
11 17	2 9.45	+ 3 48.6	1.516	2.449	9.8	19.8
11 27	2 3.33	+ 3 48.8	1.575	2.445	13.6	20.0
12 7	1 59.68	+ 4 7.0	1.655	2.442	16.9	20.2

75323 1999 XY_{47} 10 31.4 102°.68 2°.9/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.46	+ 8 23.0	1.485	2.351	15.5	18.9
10 8	2 46.07	+ 7 59.4	1.430	2.361	11.3	18.6
10 18	2 37.19	+ 7 32.3	1.397	2.370	6.8	18.4
10 28	2 26.81	+ 7 6.5	1.390	2.379	3.0	18.2
11 7	2 16.23	+ 6 47.1	1.410	2.388	5.1	18.4
11 17	2 6.74	+ 6 38.7	1.458	2.396	9.5	18.6
11 27	1 59.42	+ 6 44.5	1.530	2.405	13.6	18.9
12 7	1 54.89	+ 7 5.3	1.622	2.413	17.1	19.2

315079 2007 DB_{60} 10 31.4 153°.44 6°.4/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 51.61	+38 37.2	2.830	3.552	12.6	20.8
10 8	2 44.96	+39 12.5	2.749	3.559	10.7	20.6
10 18	2 36.40	+39 30.0	2.690	3.566	8.8	20.5
10 28	2 26.62	+39 27.6	2.656	3.572	7.2	20.4
11 7	2 16.52	+39 5.1	2.649	3.578	6.4	20.4
11 17	2 7.06	+38 25.3	2.671	3.583	7.1	20.4
11 27	1 59.09	+37 33.0	2.721	3.588	8.6	20.5
12 7	1 53.22	+36 34.7	2.795	3.593	10.5	20.7

510519 2012 BB_{155} 10 31.4 30°.75 1°.7/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 38.02	+ 6 52.7	4.111	4.964	6.7	21.2
10 8	2 34.34	+ 6 20.5	4.041	4.966	4.8	21.0
10 18	2 29.86	+ 5 47.3	3.999	4.968	2.9	20.9
10 28	2 24.90	+ 5 15.2	3.986	4.970	1.7	20.8
11 7	2 19.85	+ 4 46.5	4.004	4.973	2.7	20.9
11 17	2 15.10	+ 4 23.2	4.051	4.975	4.5	21.0
11 27	2 10.99	+ 4 6.9	4.127	4.977	6.4	21.2
12 7	2 7.83	+ 3 58.5	4.228	4.979	8.0	21.3

270770 2002 RK_{152} 10 31.4 351°.85 3°.2/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.94	+23 43.2	1.151	2.014	19.3	19.6
10 8	2 41.51	+23 26.4	1.085	2.008	14.9	19.3
10 18	2 34.95	+22 44.7	1.038	2.004	9.8	19.0
10 28	2 26.31	+21 39.7	1.013	2.000	4.7	18.7
11 7	2 17.17	+20 18.2	1.012	1.998	4.3	18.7
11 17	2 9.18	+18 50.9	1.035	1.996	9.3	19.0
11 27	2 3.77	+17 30.0	1.081	1.996	14.5	19.3
12 7	2 1.69	+16 25.2	1.146	1.996	19.0	19.6

262473 2006 UH_{167} 10 31.4 248°.91 2°.1/30.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.71	+10 50.0	1.540	2.405	15.1	21.3
10 8	2 44.99	+10 22.1	1.467	2.397	11.1	21.0
10 18	2 36.71	+ 9 47.2	1.416	2.389	6.6	20.7
10 28	2 26.74	+ 9 9.7	1.391	2.381	2.4	20.5
11 7	2 16.32	+ 8 35.3	1.393	2.373	4.6	20.6
11 17	2 6.77	+ 8 9.7	1.422	2.365	9.3	20.9
11 27	1 59.25	+ 7 57.8	1.476	2.356	13.7	21.1
12 7	1 54.50	+ 8 1.9	1.551	2.347	17.5	21.3

181799 1998 OD_{4} 10 31.4 51°.27 1°.0/ 1.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.97	+18 55.5	1.212	2.077	18.3	19.7
10 8	2 44.61	+18 28.4	1.168	2.096	13.6	19.4
10 18	2 36.42	+17 44.2	1.144	2.115	8.2	19.2
10 28	2 26.61	+16 47.1	1.144	2.135	2.5	18.9
11 7	2 16.74	+15 44.6	1.170	2.156	3.6	19.0
11 17	2 8.27	+14 45.4	1.221	2.176	8.9	19.4
11 27	2 2.34	+13 57.6	1.295	2.197	13.6	19.8
12 7	1 59.51	+13 26.3	1.390	2.218	17.5	20.1

510060 2010 GL_{145} 10 31.4 135°.60 2°.7/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.99	+ 9 15.1	2.233	3.088	11.4	22.4
10 8	2 41.35	+ 8 5.4	2.175	3.101	8.3	22.2
10 18	2 34.13	+ 6 51.2	2.143	3.114	5.0	22.0
10 28	2 26.01	+ 5 37.7	2.140	3.126	2.7	21.9
11 7	2 17.81	+ 4 30.7	2.167	3.138	4.4	22.1
11 17	2 10.32	+ 3 35.0	2.223	3.148	7.6	22.3
11 27	2 4.25	+ 2 54.2	2.307	3.159	10.6	22.5
12 7	2 0.03	+ 2 30.0	2.413	3.168	13.1	22.7

147079 2002 SS_{30} 10 31.4 37°.95 2°.6/30.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.23	+ 9 22.2	1.138	2.020	18.1	19.2
10 8	2 45.65	+ 9 9.9	1.094	2.032	13.2	19.0
10 18	2 37.11	+ 8 52.9	1.070	2.046	7.8	18.8
10 28	2 26.81	+ 8 36.2	1.070	2.061	2.9	18.5
11 7	2 16.36	+ 8 25.5	1.095	2.076	5.3	18.7
11 17	2 7.33	+ 8 25.6	1.144	2.092	10.5	19.1
11 27	2 0.92	+ 8 39.8	1.216	2.108	15.1	19.4
12 7	1 57.73	+ 9 9.1	1.307	2.125	19.0	19.7

218103 2002 NJ_{49} 10 31.4 146°.13 11°.2/12.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	3 2.10	+49 33.1	2.132	2.786	17.9	21.4
10 8	2 53.69	+50 26.6	2.060	2.799	16.1	21.3
10 18	2 41.97	+50 51.1	2.005	2.811	14.2	21.2
10 28	2 28.10	+50 40.2	1.971	2.823	12.4	21.1
11 7	2 13.81	+49 52.2	1.959	2.833	11.4	21.0
11 17	2 0.88	+48 31.0	1.973	2.843	11.4	21.0
11 27	1 50.77	+46 45.7	2.011	2.851	12.4	21.1
12 7	1 44.23	+44 48.5	2.073	2.859	14.0	21.3

398805 2013 BN_{31} 10 31.4 7°.47 2°.8/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.34	+22 14.1	1.759	2.593	14.9	21.2
10 8	2 43.82	+22 24.0	1.685	2.593	11.5	21.0
10 18	2 35.94	+22 19.4	1.634	2.593	7.5	20.8
10 28	2 26.54	+22 0.4	1.609	2.594	3.7	20.6
11 7	2 16.76	+21 29.8	1.611	2.594	3.5	20.5
11 17	2 7.81	+20 52.6	1.641	2.595	7.3	20.8
11 27	2 0.75	+20 15.3	1.697	2.595	11.2	21.0
12 7	1 56.27	+19 43.9	1.776	2.596	14.6	21.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V
12819 Susumutakahasi		10 31.4 134.°59	0.°1/31.3 18			
	h m	° ′			°	m
9 28	2 44.39	+16 24.5	2.363	3.207	11.3	18.0
10 8	2 39.53	+15 44.3	2.290	3.210	8.3	17.8
10 18	2 33.12	+14 55.0	2.243	3.213	4.9	17.6
10 28	2 25.77	+13 59.7	2.224	3.215	1.2	17.3
11 7	2 18.25	+13 2.7	2.234	3.218	2.5	17.5
11 17	2 11.34	+12 8.8	2.274	3.221	6.0	17.7
11 27	2 5.72	+11 22.4	2.342	3.223	9.3	17.9
12 7	2 1.87	+10 47.0	2.434	3.226	12.0	18.1
324928 2007 WC_{11}		10 31.4 352.°51	3.°3/29.3 15			
9 28	2 46.87	+11 19.1	1.178	2.062	17.4	20.8
10 8	2 42.60	+10 8.9	1.119	2.060	12.7	20.6
10 18	2 35.43	+ 8 47.2	1.081	2.058	7.5	20.3
10 28	2 26.43	+ 7 22.7	1.067	2.056	3.4	20.0
11 7	2 17.07	+ 6 5.7	1.078	2.056	6.2	20.2
11 17	2 8.85	+ 5 5.8	1.113	2.055	11.3	20.5
11 27	2 3.05	+ 4 29.9	1.170	2.055	16.1	20.8
12 7	2 0.34	+ 4 19.7	1.245	2.056	20.2	21.0
20774 2000 RP_3		10 31.4 64.°97	0.°0/31.3 18			
9 28	2 47.24	+15 28.4	1.952	2.802	13.0	18.0
10 8	2 41.89	+15 11.2	1.887	2.809	9.6	17.8
10 18	2 34.62	+14 45.1	1.846	2.816	5.7	17.5
10 28	2 26.19	+14 13.0	1.832	2.824	1.4	17.3
11 7	2 17.55	+13 38.8	1.847	2.831	2.8	17.4
11 17	2 9.69	+13 7.1	1.890	2.839	6.9	17.7
11 27	2 3.43	+12 42.4	1.960	2.846	10.5	17.9
12 7	1 59.34	+12 27.9	2.053	2.854	13.6	18.1
106936 2000 YF_{66}		10 31.4 95.°36	3.°7/ 2.9 18			
9 28	2 53.58	+25 20.1	1.485	2.313	17.5	19.9
10 8	2 47.04	+25 13.1	1.431	2.333	13.5	19.7
10 18	2 37.81	+24 45.2	1.397	2.352	9.1	19.5
10 28	2 27.01	+23 57.1	1.389	2.370	4.8	19.3
11 7	2 16.09	+22 54.0	1.407	2.389	4.2	19.3
11 17	2 6.46	+21 43.8	1.453	2.407	8.0	19.6
11 27	1 59.25	+20 35.9	1.524	2.424	12.1	19.9
12 7	1 55.03	+19 38.0	1.618	2.441	15.6	20.1
412767 2014 OO_{386}		10 31.4 44.°93	0.°5/31.9 18			
9 28	2 45.61	+18 0.1	1.874	2.723	13.5	20.9
10 8	2 40.73	+17 31.2	1.814	2.734	10.0	20.7
10 18	2 33.94	+16 50.8	1.777	2.746	6.0	20.5
10 28	2 26.01	+16 2.0	1.767	2.758	1.8	20.3
11 7	2 17.93	+15 9.5	1.785	2.771	2.7	20.4
11 17	2 10.67	+14 19.1	1.832	2.783	6.8	20.6
11 27	2 5.07	+13 36.1	1.905	2.796	10.5	20.9
12 7	2 1.64	+13 4.6	2.001	2.809	13.6	21.1
408001 2012 DU_{88}		10 31.4 152.°53	1.°4/30.1 18			
9 28	2 45.75	+10 53.1	2.447	3.298	10.7	21.4
10 8	2 40.46	+10 25.4	2.378	3.302	7.8	21.2
10 18	2 33.66	+ 9 53.3	2.334	3.305	4.5	21.0
10 28	2 25.94	+ 9 19.8	2.318	3.309	1.6	20.8
11 7	2 18.05	+ 8 48.5	2.333	3.312	3.2	21.0
11 17	2 10.74	+ 8 22.9	2.377	3.314	6.4	21.2
11 27	2 4.68	+ 8 6.1	2.448	3.317	9.4	21.4
12 7	2 0.35	+ 7 59.9	2.543	3.319	12.0	21.6
487265 2014 PO_{48}		10 31.4 24.°47	4.°3/ 3.7 17			
9 28	2 48.19	+26 38.4	1.953	2.767	14.4	20.6
10 8	2 42.84	+27 2.0	1.881	2.771	11.4	20.4
10 18	2 35.32	+27 9.6	1.832	2.776	8.1	20.2
10 28	2 26.40	+27 0.2	1.808	2.781	5.1	20.0
11 7	2 17.16	+26 35.7	1.812	2.787	4.5	20.0
11 17	2 8.69	+26 0.1	1.843	2.793	6.9	20.2
11 27	2 1.98	+25 19.8	1.901	2.799	10.2	20.4
12 7	1 57.65	+24 41.0	1.983	2.806	13.2	20.6
227158 2005 QW_{11}		10 31.4 37.°90	6.°1/28.5 18			
9 28	2 49.38	+ 4 4.4	1.028	1.921	18.6	19.2
10 8	2 44.20	+ 3 8.5	1.001	1.943	13.7	19.0
10 18	2 36.14	+ 2 15.2	0.994	1.967	8.8	18.9
10 28	2 26.56	+ 1 33.6	1.009	1.992	6.1	18.8
11 7	2 17.09	+ 1 11.3	1.048	2.017	8.3	19.0
11 17	2 9.19	+ 1 12.0	1.110	2.043	12.5	19.3
11 27	2 3.95	+ 1 36.4	1.194	2.070	16.6	19.7
12 7	2 1.82	+ 2 21.5	1.295	2.098	20.0	20.0
90173 2003 AF_{17}		10 31.4 147.°38	0.°4/31.2 18			
9 28	2 53.98	+14 41.5	1.389	2.248	16.8	19.5
10 8	2 47.53	+14 25.6	1.327	2.253	12.4	19.2
10 18	2 38.24	+13 58.9	1.286	2.259	7.3	18.9
10 28	2 27.17	+13 24.4	1.271	2.263	1.9	18.6
11 7	2 15.77	+12 47.7	1.283	2.268	3.8	18.8
11 17	2 5.53	+12 15.1	1.322	2.272	9.1	19.1
11 27	1 57.68	+11 53.0	1.385	2.275	13.8	19.4
12 7	1 52.92	+11 45.1	1.470	2.278	17.7	19.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
67469 2000 RX		10 31.4 320.°36	3.°0/ 2.1 18			
	h m	° ′			°	m
9 28	2 50.16	+21 22.5	1.240	2.097	18.5	18.8
10 8	2 45.35	+21 35.0	1.167	2.088	14.3	18.5
10 18	2 37.30	+21 29.2	1.115	2.080	9.3	18.2
10 28	2 27.00	+21 4.9	1.085	2.072	4.3	17.9
11 7	2 16.03	+20 25.8	1.080	2.065	4.3	17.9
11 17	2 6.11	+19 39.1	1.100	2.058	9.3	18.2
11 27	1 58.76	+18 54.1	1.143	2.052	14.5	18.5
12 7	1 54.87	+18 19.3	1.207	2.046	18.9	18.7
471084 2009 XY_6		10 31.4 11.°98	2.°8/ 2.1 16			
9 28	2 44.47	+22 1.1	1.045	1.920	19.9	20.8
10 8	2 41.23	+21 50.2	0.993	1.923	15.2	20.5
10 18	2 34.79	+21 16.2	0.958	1.928	9.7	20.3
10 28	2 26.33	+20 21.6	0.945	1.934	4.2	20.0
11 7	2 17.51	+19 13.6	0.955	1.942	4.1	20.0
11 17	2 10.02	+18 2.8	0.989	1.951	9.5	20.4
11 27	2 5.21	+17 0.3	1.044	1.961	14.6	20.7
12 7	2 3.77	+16 14.1	1.119	1.973	19.0	21.0
100557 1997 GW_3		10 31.4 126.°94	1.°0/30.7 17			
9 28	2 51.07	+14 18.8	1.838	2.687	13.8	20.3
10 8	2 44.67	+13 35.1	1.780	2.703	10.0	20.1
10 18	2 36.24	+12 42.2	1.747	2.718	5.8	19.8
10 28	2 26.64	+11 44.5	1.741	2.733	1.6	19.6
11 7	2 16.95	+10 47.5	1.765	2.747	3.4	19.8
11 17	2 8.20	+ 9 57.1	1.818	2.761	7.6	20.0
11 27	2 1.28	+ 9 18.3	1.897	2.774	11.3	20.3
12 7	1 56.69	+ 8 54.1	1.999	2.786	14.4	20.5
54839 2001 NQ_{21}		10 31.4 354.°61	5.°8/ 4.4 18			
9 28	2 47.30	+28 53.8	1.555	2.377	17.2	17.4
10 8	2 42.81	+29 22.3	1.482	2.373	13.9	17.2
10 18	2 35.59	+29 29.6	1.428	2.370	10.2	17.0
10 28	2 26.56	+29 13.5	1.398	2.367	6.9	16.8
11 7	2 17.02	+28 35.8	1.393	2.365	6.0	16.8
11 17	2 8.39	+27 42.0	1.413	2.365	8.5	16.9
11 27	2 1.92	+26 41.0	1.459	2.365	12.1	17.1
12 7	1 58.39	+25 41.9	1.526	2.365	15.6	17.3
308977 2006 TU_{103}		10 31.4 301.°42	0.°4/31.1 18			
9 28	2 48.60	+13 44.0	1.914	2.766	13.1	20.5
10 8	2 43.04	+13 36.6	1.840	2.764	9.7	20.3
10 18	2 35.41	+13 22.1	1.790	2.762	5.7	20.0
10 28	2 26.47	+13 2.8	1.767	2.759	1.5	19.7
11 7	2 17.22	+12 42.3	1.773	2.757	3.0	19.9
11 17	2 8.67	+12 24.5	1.807	2.755	7.2	20.1
11 27	2 1.77	+12 13.6	1.868	2.752	11.1	20.3
12 7	1 57.13	+12 12.5	1.951	2.750	14.3	20.6
238881 2005 YM_{40}		10 31.4 272.°33	1.°7/ 1.6 18			
9 28	2 49.33	+20 5.1	1.669	2.513	15.2	21.1
10 8	2 44.03	+19 57.2	1.586	2.502	11.5	20.8
10 18	2 36.22	+19 34.7	1.525	2.490	7.3	20.5
10 28	2 26.72	+18 58.8	1.490	2.479	2.9	20.2
11 7	2 16.72	+18 13.5	1.483	2.468	3.2	20.2
11 17	2 7.48	+17 24.6	1.503	2.457	7.8	20.5
11 27	2 0.17	+16 39.4	1.548	2.445	12.1	20.7
12 7	1 55.54	+16 4.1	1.616	2.434	15.9	20.9
210285 2007 TS_{52}		10 31.4 276.°60	0.°1/31.4 18			
9 28	2 47.20	+16 6.7	1.812	2.665	13.8	21.0
10 8	2 42.15	+15 37.7	1.735	2.659	10.2	20.8
10 18	2 34.95	+14 57.6	1.681	2.652	6.1	20.5
10 28	2 26.37	+14 9.6	1.654	2.645	1.6	20.2
11 7	2 17.44	+13 18.7	1.654	2.639	3.1	20.3
11 17	2 9.24	+12 30.6	1.683	2.632	7.5	20.6
11 27	2 2.75	+11 51.2	1.738	2.626	11.6	20.8
12 7	1 58.59	+11 24.7	1.815	2.619	15.0	21.0
350575 2001 DE_{62}		10 31.4 275.°10	6.°8/25.9 18			
9 28	2 46.38	− 0 45.6	1.760	2.630	13.3	20.7
10 8	2 41.51	− 2 7.2	1.693	2.618	10.3	20.5
10 18	2 34.55	− 3 26.4	1.649	2.606	7.6	20.3
10 28	2 26.26	− 4 35.2	1.631	2.594	6.9	20.2
11 7	2 17.64	− 5 25.9	1.640	2.582	8.6	20.3
11 17	2 9.73	− 5 53.5	1.675	2.569	11.7	20.5
11 27	2 3.47	− 5 55.9	1.733	2.557	14.8	20.7
12 7	1 59.49	− 5 34.0	1.810	2.545	17.6	20.8
266184 2006 VM_{86}		10 31.5 355.°57	4.°7/29.1 18			
9 28	2 49.58	+ 5 24.7	1.216	2.099	17.0	19.9
10 8	2 44.55	+ 4 53.6	1.158	2.097	12.6	19.7
10 18	2 36.62	+ 4 21.7	1.121	2.095	7.9	19.4
10 28	2 26.83	+ 3 55.8	1.108	2.093	4.8	19.2
11 7	2 16.64	+ 3 42.5	1.119	2.092	7.0	19.4
11 17	2 7.58	+ 3 46.6	1.155	2.092	11.6	19.6
11 27	2 0.93	+ 4 10.7	1.213	2.093	16.1	19.9
12 7	1 57.41	+ 4 54.0	1.289	2.094	19.9	20.2

9860 Archaeopteryx 10 31.5 81°.62 4°.0/27.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 44.18	+ 3 43.9	2.261	3.125	11.0	18.2
10 8	2 39.37	+ 2 44.7	2.204	3.131	8.1	18.1
10 18	2 33.06	+ 1 45.5	2.173	3.138	5.4	17.9
10 28	2 25.85	+ 0 51.7	2.169	3.145	4.0	17.8
11 7	2 18.52	+ 0 7.9	2.194	3.152	5.5	17.9
11 17	2 11.83	− 0 22.0	2.248	3.159	8.2	18.1
11 27	2 6.42	− 0 35.8	2.327	3.166	10.9	18.3
12 7	2 2.77	− 0 33.3	2.427	3.173	13.3	18.5

101332 1998 SB_{168} 10 31.5 72°.33 5°.4/ 4.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.60	+28 16.3	1.442	2.263	18.3	19.3
10 8	2 46.61	+28 32.0	1.385	2.278	14.5	19.1
10 18	2 37.74	+28 24.4	1.348	2.293	10.3	18.9
10 28	2 27.10	+27 52.5	1.334	2.307	6.5	18.7
11 7	2 16.22	+26 59.7	1.346	2.322	5.6	18.7
11 17	2 6.61	+25 53.6	1.385	2.337	8.5	18.9
11 27	1 59.49	+24 44.1	1.449	2.352	12.3	19.2
12 7	1 55.51	+23 40.8	1.534	2.367	15.9	19.5

69974 1998 WH_5 10 31.5 276°.79 6°.6/23.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.80	− 3 46.3	2.359	3.220	10.7	19.1
10 8	2 38.46	− 5 32.1	2.291	3.206	8.5	18.9
10 18	2 32.58	− 7 14.8	2.249	3.192	6.9	18.8
10 28	2 25.75	− 8 46.9	2.236	3.178	6.8	18.8
11 7	2 18.68	−10 2.0	2.250	3.164	8.3	18.8
11 17	2 12.10	−10 55.5	2.292	3.149	10.5	19.0
11 27	2 6.72	−11 25.3	2.356	3.135	12.8	19.1
12 7	2 3.01	−11 31.9	2.441	3.121	14.8	19.2

160158 2001 RS_{121} 10 31.5 91°.46 0°.0/31.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 53.96	+15 34.9	1.269	2.131	17.8	20.1
10 8	2 47.60	+15 19.3	1.217	2.145	13.2	19.9
10 18	2 38.30	+14 51.2	1.186	2.158	7.8	19.6
10 28	2 27.25	+14 14.2	1.179	2.171	2.0	19.3
11 7	2 16.00	+13 34.3	1.199	2.184	3.8	19.4
11 17	2 6.09	+12 58.5	1.245	2.197	9.3	19.8
11 27	1 58.77	+12 33.4	1.315	2.210	14.0	20.1
12 7	1 54.66	+12 23.0	1.406	2.222	18.0	20.4

378555 2008 CW_{152} 10 31.5 258°.81 1°.6/ 1.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.34	+21 3.2	1.514	2.361	16.3	20.9
10 8	2 44.22	+20 33.3	1.434	2.351	12.4	20.7
10 18	2 36.41	+19 44.7	1.375	2.341	7.8	20.4
10 28	2 26.80	+18 39.7	1.342	2.331	2.9	20.1
11 7	2 16.70	+17 24.0	1.335	2.321	3.3	20.1
11 17	2 7.48	+16 6.1	1.355	2.310	8.3	20.4
11 27	2 0.39	+14 55.3	1.401	2.299	13.1	20.6
12 7	1 56.18	+13 59.0	1.468	2.288	17.1	20.8

100048 1991 TE_{14} 10 31.5 31°.90 8°.7/ 5.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 58.93	+35 49.1	2.023	2.773	16.1	18.3
10 8	2 51.27	+37 33.8	1.953	2.783	13.7	18.2
10 18	2 40.66	+38 59.4	1.905	2.793	11.3	18.0
10 28	2 27.95	+39 59.8	1.882	2.803	9.3	17.9
11 7	2 14.49	+40 31.7	1.886	2.814	8.7	17.9
11 17	2 1.80	+40 36.8	1.917	2.825	9.7	18.0
11 27	1 51.27	+40 21.0	1.974	2.836	11.6	18.2
12 7	1 43.82	+39 53.1	2.054	2.848	13.8	18.3

388593 2007 RX_{145} 10 31.5 43°.53 13°.4/ 3.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	3 12.03	+29 26.1	0.936	1.760	25.6	20.0
10 8	3 3.69	+32 51.3	0.882	1.767	21.5	19.7
10 18	2 49.46	+35 57.4	0.847	1.774	17.2	19.5
10 28	2 30.49	+38 23.9	0.833	1.782	14.0	19.4
11 7	2 9.61	+39 55.8	0.843	1.790	13.6	19.4
11 17	1 50.48	+40 32.2	0.874	1.798	16.1	19.6
11 27	1 36.21	+40 27.5	0.926	1.807	19.7	19.8
12 7	1 28.24	+40 2.4	0.994	1.817	23.3	20.1

151429 2002 FT_{13} 10 31.5 108°.93 0°.1/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.94	+15 39.3	2.373	3.212	11.4	19.8
10 8	2 42.11	+15 29.4	2.309	3.225	8.4	19.6
10 18	2 34.67	+15 12.3	2.270	3.238	5.0	19.5
10 28	2 26.29	+14 49.8	2.260	3.251	1.3	19.2
11 7	2 17.77	+14 25.1	2.279	3.264	2.4	19.3
11 17	2 9.91	+14 1.5	2.329	3.276	5.9	19.6
11 27	2 3.42	+13 42.6	2.406	3.288	9.0	19.8
12 7	1 58.79	+13 31.1	2.508	3.300	11.7	20.0

369663 2011 GS_{72} 10 31.5 308°.74 2°.0/29.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.53	+12 19.5	2.097	2.959	11.8	20.6
10 8	2 38.51	+11 6.4	2.009	2.939	8.6	20.3
10 18	2 32.74	+ 9 43.7	1.946	2.920	5.1	20.1
10 28	2 25.82	+ 8 16.5	1.911	2.901	2.1	19.9
11 7	2 18.59	+ 6 51.3	1.905	2.882	4.1	20.0
11 17	2 11.89	+ 5 34.9	1.928	2.863	7.8	20.2
11 27	2 6.52	+ 4 33.1	1.977	2.845	11.4	20.4
12 7	2 3.07	+ 3 49.2	2.049	2.827	14.4	20.5

108460 2001 KP_{53} 10 31.5 291°.81 3°.8/29.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 50.52	+ 4 28.8	1.780	2.643	13.5	19.3
10 8	2 44.52	+ 4 12.2	1.712	2.639	10.0	19.1
10 18	2 36.33	+ 3 56.4	1.667	2.636	6.3	18.9
10 28	2 26.76	+ 3 45.6	1.648	2.632	3.8	18.7
11 7	2 16.87	+ 3 43.9	1.658	2.629	5.5	18.8
11 17	2 7.77	+ 3 54.3	1.696	2.625	9.2	19.1
11 27	2 0.43	+ 4 18.6	1.759	2.622	12.8	19.3
12 7	1 55.48	+ 4 56.9	1.843	2.618	15.9	19.5

93802 2000 WW_{48} 10 31.5 306°.63 10°.0/23.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.68	−12 45.1	1.931	2.777	13.3	18.7
10 8	2 41.64	−13 55.6	1.866	2.758	11.4	18.6
10 18	2 34.62	−14 53.2	1.824	2.739	10.2	18.4
10 28	2 26.32	−15 29.8	1.807	2.719	10.2	18.4
11 7	2 17.69	−15 39.6	1.814	2.700	11.5	18.5
11 17	2 9.71	−15 20.2	1.844	2.682	13.6	18.6
11 27	2 3.29	−14 32.1	1.896	2.663	15.9	18.7
12 7	1 59.04	−13 19.0	1.966	2.645	18.0	18.8

344217 2001 RJ_{57} 10 31.5 4°.50 1°.1/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.91	+13 13.9	1.145	2.029	17.9	20.2
10 8	2 42.79	+12 58.7	1.088	2.028	13.2	19.9
10 18	2 35.67	+12 33.0	1.051	2.028	7.8	19.6
10 28	2 26.62	+12 1.4	1.037	2.029	2.1	19.3
11 7	2 17.17	+11 30.4	1.047	2.032	4.4	19.4
11 17	2 8.89	+11 6.6	1.082	2.036	10.0	19.8
11 27	2 3.09	+10 56.2	1.138	2.040	15.1	20.1
12 7	2 0.49	+11 2.2	1.214	2.046	19.2	20.4

226316 2003 DU_{11} 10 31.5 319°.90 0°.6/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.37	+17 8.5	1.327	2.194	16.9	20.6
10 8	2 43.09	+16 55.4	1.249	2.179	12.7	20.3
10 18	2 35.92	+16 27.9	1.192	2.165	7.8	20.0
10 28	2 26.73	+15 48.3	1.159	2.151	2.3	19.6
11 7	2 16.90	+15 2.1	1.151	2.137	3.6	19.7
11 17	2 7.94	+14 16.6	1.169	2.125	9.2	20.0
11 27	2 1.24	+13 39.9	1.210	2.113	14.3	20.2
12 7	1 57.64	+13 17.9	1.271	2.101	18.7	20.5

22991 Jeffreyklus 10 31.5 21°.05 1°.0/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.01	+13 37.9	1.143	2.023	18.2	18.1
10 8	2 44.27	+13 21.6	1.090	2.027	13.4	17.8
10 18	2 36.50	+12 54.3	1.057	2.033	7.9	17.5
10 28	2 26.83	+12 20.6	1.047	2.039	2.0	17.2
11 7	2 16.84	+11 47.0	1.061	2.046	4.4	17.4
11 17	2 8.12	+11 20.5	1.100	2.054	10.0	17.7
11 27	2 1.96	+11 7.1	1.162	2.062	15.0	18.0
12 7	1 59.05	+11 10.1	1.242	2.071	19.1	18.3

24952 1997 QJ_4 10 31.5 344°.99 0°.5/ 5.4 08 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 27.00	+29 33.1	30.230	30.992	1.2	22.6
10 8	2 26.01	+29 32.0	30.137	30.989	1.0	22.6
10 18	2 24.91	+29 29.6	30.070	30.987	0.7	22.6
10 28	2 23.75	+29 26.1	30.031	30.984	0.5	22.5
11 7	2 22.58	+29 21.6	30.021	30.981	0.5	22.5
11 17	2 21.44	+29 16.2	30.041	30.979	0.6	22.6
11 27	2 20.38	+29 10.3	30.090	30.976	0.8	22.6
12 7	2 19.43	+29 4.1	30.166	30.974	1.1	22.6

226500 2003 SH_{309} 10 31.5 60°.15 1°.9/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.07	+21 31.9	2.082	2.913	13.1	19.9
10 8	2 41.73	+21 25.3	2.020	2.927	9.9	19.7
10 18	2 34.55	+21 6.1	1.982	2.942	6.3	19.5
10 28	2 26.29	+20 35.7	1.970	2.956	2.8	19.3
11 7	2 17.88	+19 57.6	1.987	2.971	2.8	19.3
11 17	2 10.23	+19 16.2	2.033	2.986	6.1	19.6
11 27	2 4.16	+18 37.0	2.106	3.001	9.5	19.8
12 7	2 0.18	+18 4.3	2.204	3.016	12.4	20.1

371362 2006 PO_{14} 10 31.5 72°.63 6°.1/ 4.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 53.38	+29 44.3	1.339	2.159	19.5	20.2
10 8	2 47.38	+29 59.8	1.285	2.175	15.6	20.0
10 18	2 38.28	+29 48.9	1.249	2.191	11.3	19.8
10 28	2 27.30	+29 10.3	1.237	2.207	7.4	19.6
11 7	2 16.08	+28 7.8	1.249	2.223	6.2	19.6
11 17	2 6.28	+26 50.0	1.287	2.239	9.0	19.8
11 27	1 59.18	+25 28.5	1.350	2.255	12.9	20.1
12 7	1 55.43	+24 14.1	1.435	2.271	16.6	20.4

198513 2004 XK_{87} 10 31.5 307°.52 0°.7/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.80	+15 0.0	1.552	2.416	15.1	20.6
10 8	2 42.22	+14 24.2	1.475	2.404	11.2	20.3
10 18	2 35.19	+13 36.2	1.419	2.393	6.6	20.1
10 28	2 26.52	+12 40.3	1.390	2.382	1.7	19.7
11 7	2 17.40	+11 42.5	1.387	2.371	3.7	19.8
11 17	2 9.08	+10 50.0	1.411	2.361	8.7	20.1
11 27	2 2.68	+10 9.7	1.460	2.350	13.2	20.3
12 7	1 58.92	+ 9 45.7	1.530	2.341	17.0	20.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
51032 2000 GE_{119}			10 31.5 338°.14		0°.8/ 1.1 18	
	h m	° ′			°	m
9 28	2 47.45	+17 58.6	1.698	2.550	14.6	19.3
10 8	2 42.50	+17 45.4	1.625	2.546	10.9	19.1
10 18	2 35.25	+17 19.9	1.574	2.543	6.7	18.8
10 28	2 26.52	+16 44.3	1.549	2.540	2.1	18.5
11 7	2 17.43	+16 2.8	1.551	2.537	3.0	18.6
11 17	2 9.14	+15 21.2	1.581	2.534	7.5	18.9
11 27	2 2.68	+14 45.6	1.637	2.532	11.7	19.1
12 7	1 58.72	+14 20.8	1.715	2.530	15.2	19.3
150455 2000 HC_{54}			10 31.5 146°.11		0°.8/30.9 17	
9 28	2 51.38	+13 38.9	1.895	2.743	13.4	21.1
10 8	2 44.98	+13 14.9	1.830	2.752	9.9	20.9
10 18	2 36.52	+12 43.1	1.789	2.760	5.8	20.6
10 28	2 26.82	+12 6.7	1.776	2.768	1.5	20.4
11 7	2 16.93	+11 30.0	1.793	2.776	3.3	20.5
11 17	2 7.88	+10 58.0	1.838	2.783	7.4	20.8
11 27	2 0.59	+10 34.9	1.910	2.789	11.2	21.0
12 7	1 55.63	+10 23.8	2.005	2.794	14.3	21.3
345354 2005 YW_{291}			10 31.5 117°.27		1°.3/ 1.5 18	
9 28	2 51.53	+19 36.3	1.955	2.787	13.7	20.9
10 8	2 45.03	+19 24.0	1.894	2.804	10.3	20.7
10 18	2 36.52	+18 59.7	1.857	2.821	6.4	20.5
10 28	2 26.81	+18 25.0	1.848	2.837	2.3	20.3
11 7	2 16.98	+17 43.9	1.867	2.852	2.7	20.3
11 17	2 8.04	+17 1.3	1.916	2.867	6.6	20.6
11 27	2 0.89	+16 22.9	1.992	2.881	10.3	20.9
12 7	1 56.04	+15 53.1	2.092	2.895	13.3	21.1
385674 2005 SW_{183}			10 31.5 339°.61		3°.7/ 2.1 18	
9 28	2 49.52	+20 40.8	1.202	2.064	18.7	20.0
10 8	2 45.08	+21 23.8	1.130	2.052	14.5	19.7
10 18	2 37.32	+21 52.0	1.077	2.042	9.6	19.4
10 28	2 27.16	+22 3.3	1.046	2.032	4.8	19.1
11 7	2 16.19	+21 59.1	1.040	2.023	4.7	19.1
11 17	2 6.20	+21 44.1	1.057	2.016	9.6	19.4
11 27	1 58.80	+21 26.1	1.098	2.009	14.6	19.6
12 7	1 54.98	+21 13.1	1.158	2.004	19.1	19.9
397585 2007 VX_{4}			10 31.5 10°.01		1°.3/30.7 18	
9 28	2 49.92	+11 30.1	1.770	2.627	13.8	21.4
10 8	2 44.13	+11 21.4	1.701	2.628	10.1	21.2
10 18	2 36.14	+11 7.2	1.655	2.628	6.0	21.0
10 28	2 26.76	+10 50.3	1.636	2.628	1.8	20.7
11 7	2 17.06	+10 34.6	1.646	2.628	3.6	20.8
11 17	2 8.17	+10 24.1	1.683	2.628	7.9	21.1
11 27	2 1.06	+10 22.5	1.747	2.629	11.9	21.3
12 7	1 56.37	+10 32.2	1.833	2.629	15.2	21.6
328143 2008 BB_{51}			10 31.5 54°.10		3°.4/29.4 17	
9 28	2 49.63	+ 9 45.4	1.205	2.085	17.3	20.4
10 8	2 44.35	+ 8 48.2	1.162	2.101	12.6	20.2
10 18	2 36.35	+ 7 44.5	1.141	2.116	7.5	20.0
10 28	2 26.78	+ 6 42.1	1.143	2.132	3.5	19.8
11 7	2 17.14	+ 5 49.6	1.171	2.149	6.0	20.0
11 17	2 8.83	+ 5 13.7	1.224	2.165	10.7	20.3
11 27	2 2.94	+ 4 58.8	1.300	2.182	15.1	20.6
12 7	2 0.04	+ 5 5.3	1.395	2.199	18.7	20.9
89445 2001 WS_{78}			10 31.5 118°.03		0°.1/31.4 17	
9 28	2 51.04	+16 13.5	1.888	2.731	13.7	20.4
10 8	2 44.66	+15 39.7	1.831	2.749	10.0	20.3
10 18	2 36.28	+14 55.6	1.797	2.767	5.9	20.0
10 28	2 26.77	+14 4.7	1.792	2.784	1.5	19.8
11 7	2 17.16	+13 12.1	1.816	2.800	2.9	19.9
11 17	2 8.49	+12 23.3	1.869	2.816	7.1	20.2
11 27	2 1.60	+11 43.6	1.949	2.831	10.8	20.5
12 7	1 57.01	+11 16.5	2.052	2.845	13.9	20.7
224890 2007 CN_{11}			10 31.5 1°.17		1°.9/30.5 18	
9 28	2 44.63	+12 42.1	1.033	1.926	18.6	19.7
10 8	2 41.34	+12 11.6	0.978	1.923	13.7	19.5
10 18	2 34.94	+11 29.6	0.943	1.921	8.0	19.2
10 28	2 26.50	+10 42.3	0.929	1.921	2.4	18.8
11 7	2 17.65	+ 9 57.9	0.939	1.922	5.1	19.0
11 17	2 10.00	+ 9 24.8	0.971	1.925	10.9	19.3
11 27	2 4.94	+ 9 9.5	1.025	1.930	16.1	19.7
12 7	2 3.19	+ 9 14.7	1.096	1.935	20.4	19.9
339125 2004 RB_{304}			10 31.5 118°.86		1°.0/ 1.2 18	
9 28	2 50.17	+19 32.1	1.811	2.651	14.4	21.8
10 8	2 44.19	+19 1.2	1.749	2.664	10.7	21.6
10 18	2 36.09	+18 16.6	1.711	2.677	6.5	21.4
10 28	2 26.74	+17 21.3	1.699	2.689	2.2	21.1
11 7	2 17.24	+16 20.4	1.715	2.701	2.8	21.2
11 17	2 8.67	+15 20.2	1.761	2.712	7.1	21.5
11 27	2 1.96	+14 27.2	1.833	2.724	10.9	21.8
12 7	1 57.64	+13 46.2	1.929	2.734	14.2	22.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
312985 1999 TF_{45}			10 31.5 78°.64		2°.6/ 2.5 18	
	h m	° ′			°	m
9 28	2 50.04	+22 13.7	2.122	2.945	13.2	20.3
10 8	2 43.99	+22 32.5	2.055	2.955	10.1	20.2
10 18	2 35.96	+22 39.2	2.011	2.966	6.6	20.0
10 28	2 26.72	+22 34.0	1.994	2.977	3.4	19.8
11 7	2 17.24	+22 18.7	2.006	2.987	3.2	19.8
11 17	2 8.50	+21 56.9	2.047	2.998	6.2	20.0
11 27	2 1.38	+21 33.4	2.116	3.009	9.5	20.2
12 7	1 56.45	+21 13.0	2.209	3.020	12.4	20.5
475363 2006 DE_{32}			10 31.5 40°.70		10°.8/ 7.0 18	
9 28	2 57.39	+37 2.1	1.443	2.219	20.4	19.8
10 8	2 50.86	+38 41.9	1.387	2.232	17.4	19.7
10 18	2 40.69	+39 54.4	1.350	2.246	14.3	19.5
10 28	2 28.05	+40 32.1	1.334	2.261	11.8	19.4
11 7	2 14.74	+40 32.5	1.341	2.276	10.8	19.4
11 17	2 2.76	+39 59.8	1.373	2.292	11.7	19.5
11 27	1 53.77	+39 4.5	1.427	2.309	14.0	19.7
12 7	1 48.64	+37 59.3	1.502	2.325	16.7	19.9
319158 2005 YJ_{75}			10 31.5 194°.14		6°.8/25.5 18	
9 28	2 47.26	− 7 46.8	2.418	3.263	11.0	20.7
10 8	2 41.59	− 8 33.2	2.360	3.262	8.9	20.5
10 18	2 34.40	− 9 11.2	2.328	3.261	7.3	20.4
10 28	2 26.30	− 9 35.6	2.322	3.260	6.9	20.4
11 7	2 18.05	− 9 42.7	2.344	3.258	8.0	20.5
11 17	2 10.41	− 9 30.6	2.393	3.256	9.9	20.6
11 27	2 4.05	− 8 59.5	2.467	3.254	12.0	20.7
12 7	1 59.45	− 8 11.1	2.561	3.252	14.0	20.9
403985 2012 BG_{109}			10 31.5 101°.94		3°.2/ 3.3 18	
9 28	2 48.39	+25 34.6	2.232	3.042	13.0	21.5
10 8	2 42.73	+25 38.9	2.161	3.051	10.1	21.3
10 18	2 35.21	+25 28.7	2.113	3.060	7.0	21.2
10 28	2 26.54	+25 4.3	2.092	3.069	4.0	21.0
11 7	2 17.65	+24 28.1	2.099	3.078	3.5	21.0
11 17	2 9.47	+23 44.3	2.136	3.087	6.1	21.2
11 27	2 2.84	+22 58.5	2.200	3.095	9.1	21.4
12 7	1 58.30	+22 16.2	2.289	3.104	11.9	21.6
35491 1998 FQ_{27}			10 31.5 118°.59		2°.1/ 2.2 18	
9 28	2 51.35	+22 23.3	2.092	2.912	13.4	19.2
10 8	2 44.83	+22 9.8	2.030	2.931	10.2	19.0
10 18	2 36.39	+21 42.6	1.992	2.950	6.5	18.8
10 28	2 26.83	+21 3.2	1.982	2.968	3.0	18.7
11 7	2 17.17	+20 15.2	2.001	2.985	2.8	18.7
11 17	2 8.38	+19 23.7	2.050	3.002	6.2	18.9
11 27	2 1.29	+18 34.6	2.127	3.018	9.6	19.2
12 7	1 56.42	+17 52.9	2.229	3.033	12.6	19.4
255 Oppavia			10 31.5 237°.58		2°.2/ 2.1 18	
9 28	2 50.30	+21 1.8	2.064	2.891	13.3	15.0
10 8	2 44.38	+21 14.9	1.980	2.885	10.2	14.8
10 18	2 36.33	+21 16.3	1.920	2.879	6.6	14.6
10 28	2 26.87	+21 6.3	1.887	2.873	3.1	14.4
11 7	2 17.01	+20 46.9	1.883	2.867	3.1	14.4
11 17	2 7.78	+20 21.7	1.908	2.860	6.6	14.6
11 27	2 0.16	+19 55.9	1.961	2.853	10.2	14.8
12 7	1 54.83	+19 34.4	2.037	2.846	13.4	15.0
83375 2001 SC_{12}			10 31.5 283°.41		2°.3/ 1.9 18	
9 28	2 50.59	+20 26.5	1.937	2.769	13.8	19.0
10 8	2 44.79	+20 48.2	1.849	2.757	10.6	18.8
10 18	2 36.68	+20 58.8	1.784	2.745	6.9	18.6
10 28	2 26.99	+20 58.0	1.746	2.732	3.2	18.3
11 7	2 16.76	+20 47.4	1.736	2.720	3.2	18.3
11 17	2 7.14	+20 30.4	1.755	2.707	7.0	18.5
11 27	1 59.21	+20 12.1	1.800	2.695	10.9	18.7
12 7	1 53.71	+19 57.7	1.869	2.682	14.3	18.9
226053 2002 GD_{118}			10 31.5 6°.91		2°.3/28.1 18	
9 28	2 38.70	+ 3 31.0	4.088	4.942	6.7	19.8
10 8	2 34.92	+ 3 2.0	4.020	4.943	4.9	19.7
10 18	2 30.33	+ 2 33.3	3.978	4.943	3.2	19.6
10 28	2 25.25	+ 2 7.5	3.966	4.944	2.3	19.5
11 7	2 20.08	+ 1 46.5	3.985	4.944	3.2	19.6
11 17	2 15.19	+ 1 32.1	4.033	4.945	4.9	19.7
11 27	2 10.97	+ 1 25.6	4.108	4.945	6.6	19.8
12 7	2 7.68	+ 1 27.8	4.209	4.946	8.2	20.0
485203 2010 UC_{36}			10 31.5 203°.56		3°.2/ 3.5 17	
9 28	2 46.98	+26 15.4	2.291	3.100	12.8	21.5
10 8	2 41.74	+26 8.7	2.209	3.098	10.0	21.3
10 18	2 34.66	+25 46.8	2.151	3.097	6.9	21.1
10 28	2 26.42	+25 10.2	2.119	3.096	4.0	21.0
11 7	2 17.91	+24 21.4	2.115	3.094	3.5	20.9
11 17	2 10.04	+23 25.1	2.141	3.092	6.0	21.1
11 27	2 3.63	+22 27.1	2.195	3.091	9.1	21.3
12 7	1 59.25	+21 33.2	2.273	3.089	12.0	21.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
156644 2002 JJ_{33}			10 31.5	87°.32	0°.8/30.7	18
	h m	° ′			°	m
9 28	2 45.32	+14 11.8	2.253	3.102	11.5	19.7
10 8	2 40.28	+13 29.0	2.192	3.115	8.4	19.6
10 18	2 33.66	+12 38.7	2.157	3.128	4.9	19.4
10 28	2 26.13	+11 44.7	2.149	3.141	1.3	19.1
11 7	2 18.50	+10 51.4	2.172	3.154	2.9	19.3
11 17	2 11.54	+10 3.6	2.223	3.166	6.4	19.5
11 27	2 5.95	+ 9 25.2	2.302	3.179	9.6	19.8
12 7	2 2.18	+ 8 59.0	2.405	3.191	12.3	20.0
514698 2006 GE_{28}			10 31.5	188°.80	1°.6/30.1	18
9 28	2 48.13	+12 0.0	2.142	2.993	12.0	22.7
10 8	2 42.50	+11 14.4	2.068	2.992	8.8	22.5
10 18	2 35.07	+10 21.8	2.019	2.991	5.1	22.2
10 28	2 26.53	+ 9 26.4	1.999	2.989	1.8	22.0
11 7	2 17.76	+ 8 33.1	2.008	2.987	3.6	22.1
11 17	2 9.65	+ 7 46.9	2.046	2.984	7.3	22.4
11 27	2 3.01	+ 7 12.1	2.112	2.981	10.7	22.6
12 7	1 58.37	+ 6 51.3	2.201	2.977	13.6	22.8
358127 2006 QS_{32}			10 31.5	21°.05	9°.6/ 7.5	17
9 28	2 50.38	+37 10.4	1.513	2.293	19.4	20.2
10 8	2 45.42	+38 9.3	1.450	2.300	16.5	20.0
10 18	2 37.34	+38 40.5	1.405	2.308	13.4	19.8
10 28	2 27.18	+38 39.0	1.382	2.317	10.8	19.7
11 7	2 16.53	+38 4.7	1.381	2.326	9.6	19.7
11 17	2 7.03	+37 2.9	1.405	2.336	10.5	19.7
11 27	2 0.10	+35 43.9	1.453	2.347	13.0	19.9
12 7	1 56.52	+34 19.8	1.522	2.359	15.8	20.1
111414 2001 XN_{189}			10 31.5	236°.80	2°.4/29.5	18
9 28	2 46.32	+ 8 59.5	2.138	2.997	11.7	20.0
10 8	2 41.19	+ 8 21.9	2.065	2.993	8.6	19.8
10 18	2 34.31	+ 7 40.2	2.017	2.989	5.1	19.6
10 28	2 26.34	+ 6 58.5	1.997	2.985	2.4	19.4
11 7	2 18.13	+ 6 21.5	2.006	2.982	4.1	19.6
11 17	2 10.53	+ 5 53.1	2.044	2.978	7.6	19.8
11 27	2 4.34	+ 5 36.9	2.108	2.974	10.8	20.0
12 7	2 0.09	+ 5 34.5	2.194	2.969	13.7	20.2
94386 2001 SL_{108}			10 31.5	274°.87	4°.8/ 3.4	18
9 28	2 52.00	+26 17.7	1.339	2.174	18.7	18.5
10 8	2 46.65	+26 30.5	1.267	2.170	14.8	18.2
10 18	2 38.11	+26 20.4	1.214	2.167	10.3	18.0
10 28	2 27.41	+25 46.1	1.185	2.164	6.1	17.7
11 7	2 16.13	+24 50.6	1.180	2.161	5.3	17.7
11 17	2 5.96	+23 41.7	1.202	2.157	9.0	17.9
11 27	1 58.34	+22 30.3	1.247	2.154	13.6	18.1
12 7	1 54.13	+21 26.8	1.314	2.151	17.8	18.4
223098 2002 UF_{33}			10 31.5	340°.10	2°.7/ 1.8	18
9 28	2 51.36	+19 49.3	1.313	2.169	17.8	20.1
10 8	2 46.13	+20 16.4	1.243	2.163	13.6	19.8
10 18	2 37.80	+20 29.1	1.192	2.158	8.8	19.5
10 28	2 27.34	+20 26.8	1.166	2.154	3.9	19.3
11 7	2 16.25	+20 11.9	1.165	2.150	4.0	19.3
11 17	2 6.17	+19 49.8	1.190	2.147	8.9	19.5
11 27	1 58.55	+19 27.9	1.238	2.144	13.8	19.8
12 7	1 54.25	+19 13.0	1.307	2.142	18.0	20.1
349151 2007 NH_{6}			10 31.5	124°.29	4°.8/ 3.6	18
9 28	2 55.51	+26 50.5	1.910	2.713	15.2	20.8
10 8	2 48.37	+27 33.3	1.840	2.723	12.0	20.6
10 18	2 38.76	+28 0.0	1.793	2.733	8.6	20.4
10 28	2 27.54	+28 8.4	1.772	2.742	5.6	20.3
11 7	2 15.94	+27 59.2	1.779	2.751	5.0	20.3
11 17	2 5.22	+27 36.0	1.815	2.760	7.4	20.4
11 27	1 56.51	+27 5.2	1.878	2.769	10.7	20.7
12 7	1 50.49	+26 33.8	1.965	2.777	13.7	20.9
267850 2003 UX_{278}			10 31.5	328°.67	0°.6/31.1	17
9 28	2 49.84	+11 37.8	2.137	2.985	12.1	20.0
10 8	2 43.87	+11 53.0	2.058	2.980	8.9	19.7
10 18	2 35.96	+12 4.5	2.004	2.975	5.3	19.5
10 28	2 26.80	+12 13.7	1.978	2.970	1.4	19.2
11 7	2 17.29	+12 22.6	1.981	2.965	2.9	19.3
11 17	2 8.38	+12 33.6	2.014	2.960	6.7	19.6
11 27	2 0.94	+12 49.3	2.075	2.956	10.3	19.8
12 7	1 55.59	+13 11.5	2.159	2.952	13.3	20.0
241751 2001 BD_{11}			10 31.5	266°.29	5°.1/ 4.9	18
9 28	2 48.78	+31 10.2	1.914	2.709	15.4	19.8
10 8	2 43.62	+30 58.3	1.819	2.694	12.5	19.6
10 18	2 36.05	+30 23.6	1.745	2.678	9.3	19.4
10 28	2 26.86	+29 25.0	1.695	2.662	6.2	19.2
11 7	2 17.18	+28 5.2	1.673	2.646	5.2	19.1
11 17	2 8.24	+26 30.5	1.679	2.629	7.5	19.2
11 27	2 1.15	+24 50.3	1.713	2.613	11.0	19.3
12 7	1 56.63	+23 14.3	1.770	2.596	14.4	19.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
513224 2005 UA_{394}			10 31.5	31°.85	1°.6/30.6	18
	h m	° ′			°	m
9 28	2 47.83	+13 17.7	1.141	2.023	18.0	21.1
10 8	2 43.28	+12 41.7	1.096	2.035	13.1	20.8
10 18	2 35.87	+11 54.9	1.072	2.049	7.7	20.6
10 28	2 26.77	+11 3.3	1.071	2.063	2.2	20.3
11 7	2 17.51	+10 14.9	1.095	2.078	4.6	20.5
11 17	2 9.59	+ 9 37.2	1.143	2.094	10.0	20.8
11 27	2 4.15	+ 9 15.9	1.214	2.111	14.7	21.2
12 7	2 1.78	+ 9 13.5	1.304	2.129	18.6	21.5
242245 2003 SJ_{220}			10 31.5	75°.91	3°.2/ 2.8	18
9 28	2 54.26	+23 22.6	2.271	3.077	12.9	20.3
10 8	2 46.95	+24 5.6	2.210	3.099	10.0	20.1
10 18	2 37.69	+24 36.9	2.173	3.121	6.8	20.0
10 28	2 27.23	+24 55.2	2.165	3.143	3.9	19.8
11 7	2 16.57	+25 1.4	2.187	3.164	3.6	19.8
11 17	2 6.69	+24 58.1	2.239	3.185	6.1	20.0
11 27	1 58.47	+24 49.7	2.319	3.207	9.1	20.3
12 7	1 52.47	+24 40.6	2.425	3.228	11.7	20.5
5464 Weller			10 31.5	3°.07	0°.4/31.7	18
9 28	2 53.02	+12 52.2	1.338	2.203	16.9	15.7
10 8	2 47.16	+13 40.5	1.273	2.202	12.6	15.5
10 18	2 38.32	+14 24.0	1.230	2.202	7.6	15.2
10 28	2 27.47	+15 2.5	1.211	2.203	2.1	14.9
11 7	2 16.09	+15 36.9	1.219	2.205	3.6	15.0
11 17	2 5.73	+16 9.1	1.253	2.208	8.9	15.3
11 27	1 57.77	+16 42.4	1.312	2.212	13.7	15.6
12 7	1 53.02	+17 20.0	1.392	2.217	17.6	15.9
400561 2008 WK_{80}			10 31.5	280°.86	3°.0/29.4	18
9 28	2 48.55	+ 8 20.0	1.741	2.606	13.7	21.5
10 8	2 43.35	+ 7 42.4	1.657	2.587	10.1	21.2
10 18	2 35.86	+ 6 59.8	1.596	2.568	6.2	20.9
10 28	2 26.82	+ 6 17.2	1.562	2.549	3.1	20.7
11 7	2 17.27	+ 5 40.4	1.555	2.530	5.1	20.8
11 17	2 8.36	+ 5 14.6	1.576	2.511	9.3	21.0
11 27	2 1.15	+ 5 4.1	1.622	2.492	13.3	21.2
12 7	1 56.39	+ 5 10.9	1.689	2.472	16.8	21.4
147728 2005 MD_{33}			10 31.5	111°.17	1°.9/30.2	17
9 28	2 51.91	+11 53.8	1.690	2.546	14.4	20.8
10 8	2 45.43	+11 7.3	1.639	2.565	10.5	20.6
10 18	2 36.81	+10 13.5	1.612	2.584	6.1	20.4
10 28	2 26.99	+ 9 17.6	1.612	2.603	2.2	20.2
11 7	2 17.10	+ 8 25.7	1.641	2.620	4.2	20.3
11 17	2 8.27	+ 7 43.5	1.698	2.637	8.3	20.6
11 27	2 1.38	+ 7 15.4	1.781	2.654	12.1	20.9
12 7	1 56.96	+ 7 3.3	1.885	2.670	15.3	21.2
43876 1994 XV_{4}			10 31.5	332°.24	6°.7/ 5.8	18
9 28	2 46.53	+33 5.5	1.596	2.398	17.7	17.6
10 8	2 42.38	+33 12.8	1.513	2.388	14.6	17.4
10 18	2 35.48	+32 53.8	1.450	2.378	11.2	17.2
10 28	2 26.73	+32 6.2	1.409	2.369	8.0	17.0
11 7	2 17.46	+30 52.2	1.393	2.361	6.8	16.9
11 17	2 9.09	+29 18.7	1.404	2.353	8.7	17.0
11 27	2 2.90	+27 36.6	1.439	2.346	12.1	17.2
12 7	1 59.64	+25 57.3	1.497	2.340	15.7	17.4
400463 2008 FB_{116}			10 31.5	301°.91	1°.2/30.6	18
9 28	2 47.03	+12 22.1	1.978	2.834	12.6	21.4
10 8	2 41.87	+11 57.2	1.905	2.831	9.3	21.2
10 18	2 34.79	+11 25.6	1.856	2.829	5.4	20.9
10 28	2 26.50	+10 50.8	1.835	2.826	1.6	20.7
11 7	2 17.93	+10 17.0	1.842	2.824	3.4	20.8
11 17	2 10.03	+ 9 48.7	1.877	2.821	7.3	21.1
11 27	2 3.68	+ 9 30.0	1.939	2.819	11.0	21.3
12 7	1 59.44	+ 9 23.4	2.024	2.817	14.1	21.5
374692 2006 QK_{185}			10 31.5	329°.38	4°.3/28.8	18
9 28	2 43.02	+ 9 52.5	1.070	1.967	17.7	20.1
10 8	2 40.30	+ 8 39.1	1.000	1.947	13.1	19.8
10 18	2 34.48	+ 7 12.9	0.949	1.927	8.0	19.5
10 28	2 26.51	+ 5 43.5	0.921	1.909	4.4	19.2
11 7	2 17.85	+ 4 22.9	0.916	1.893	7.4	19.3
11 17	2 10.14	+ 3 22.4	0.934	1.877	12.8	19.6
11 27	2 4.86	+ 2 50.2	0.972	1.863	18.1	19.8
12 7	2 2.89	+ 2 48.5	1.026	1.850	22.6	20.1
35563 1998 GK_{3}			10 31.5	143°.36	7°.2/25.8	18
9 28	2 49.61	− 5 29.9	2.026	2.879	12.5	18.9
10 8	2 43.49	− 6 35.4	1.978	2.888	9.9	18.7
10 18	2 35.60	− 7 32.9	1.955	2.897	7.8	18.6
10 28	2 26.68	− 8 15.7	1.959	2.905	7.3	18.6
11 7	2 17.66	− 8 39.0	1.990	2.913	8.6	18.7
11 17	2 9.45	− 8 40.3	2.047	2.920	10.9	18.9
11 27	2 2.81	− 8 19.6	2.129	2.926	13.4	19.0
12 7	1 58.24	− 7 39.1	2.230	2.933	15.5	19.2

127414 2002 LQ_{57} 10 31.5 68°.81 5°.0/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 46.62	+33 50.7	2.219	2.993	14.2	19.4
10 8	2 41.53	+33 22.5	2.142	3.001	11.6	19.2
10 18	2 34.53	+32 32.4	2.087	3.008	8.7	19.1
10 28	2 26.41	+31 20.7	2.057	3.015	6.0	18.9
11 7	2 18.15	+29 51.1	2.056	3.023	5.0	18.9
11 17	2 10.70	+28 9.7	2.084	3.031	6.5	19.0
11 27	2 4.90	+26 24.9	2.140	3.038	9.2	19.2
12 7	2 1.25	+24 44.7	2.222	3.046	11.9	19.4

451155 2009 SS_{76} 10 31.5 258°.01 2°.3/29.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.85	+ 8 26.0	2.287	3.144	11.1	21.4
10 8	2 40.76	+ 7 55.6	2.214	3.140	8.1	21.2
10 18	2 34.03	+ 7 22.2	2.165	3.137	4.9	21.0
10 28	2 26.29	+ 6 49.3	2.145	3.133	2.4	20.8
11 7	2 18.32	+ 6 20.9	2.154	3.129	3.9	20.9
11 17	2 10.91	+ 6 0.5	2.192	3.125	7.2	21.1
11 27	2 4.81	+ 5 51.0	2.256	3.121	10.3	21.3
12 7	2 0.52	+ 5 53.9	2.344	3.117	13.0	21.5

421695 2014 PV_{6} 10 31.5 234°.62 2°.0/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.39	+10 48.3	2.114	2.973	11.8	21.2
10 8	2 40.52	+ 9 59.8	2.043	2.971	8.6	21.0
10 18	2 33.93	+ 9 5.4	1.996	2.969	5.1	20.8
10 28	2 26.27	+ 8 9.4	1.978	2.967	2.1	20.6
11 7	2 18.39	+ 7 16.9	1.988	2.965	3.9	20.7
11 17	2 11.15	+ 6 32.9	2.027	2.963	7.4	20.9
11 27	2 5.30	+ 6 1.4	2.092	2.961	10.8	21.1
12 7	2 1.39	+ 5 44.6	2.181	2.959	13.6	21.3

426085 2012 DR_{39} 10 31.5 150°.53 0°.5/31.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.03	+15 30.5	1.723	2.572	14.6	22.4
10 8	2 45.69	+14 52.7	1.659	2.580	10.7	22.1
10 18	2 37.08	+14 4.0	1.618	2.588	6.3	21.9
10 28	2 27.11	+13 8.1	1.604	2.596	1.6	21.6
11 7	2 16.94	+12 10.8	1.619	2.603	3.3	21.8
11 17	2 7.71	+11 18.5	1.662	2.609	7.9	22.0
11 27	2 0.42	+10 37.1	1.732	2.614	11.9	22.3
12 7	1 55.66	+10 10.3	1.824	2.619	15.3	22.5

25641 2000 AT_{65} 10 31.5 8°.99 10°.2/25.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.39	− 7 47.2	1.348	2.222	16.3	17.3
10 8	2 42.62	− 8 51.6	1.305	2.224	13.2	17.1
10 18	2 35.38	− 9 41.9	1.283	2.226	10.9	17.0
10 28	2 26.67	−10 8.7	1.283	2.230	10.3	16.9
11 7	2 17.78	−10 5.9	1.308	2.234	11.8	17.0
11 17	2 9.97	− 9 31.8	1.354	2.239	14.5	17.2
11 27	2 4.28	− 8 28.6	1.422	2.246	17.5	17.4
12 7	2 1.30	− 7 1.7	1.507	2.253	20.1	17.7

228009 2007 RL_{162} 10 31.5 0°.73 1°.2/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.23	+21 53.3	4.123	4.937	7.4	19.8
10 8	2 35.39	+21 38.8	4.039	4.937	5.6	19.7
10 18	2 30.67	+21 17.2	3.981	4.937	3.6	19.5
10 28	2 25.40	+20 49.8	3.952	4.937	1.7	19.4
11 7	2 20.02	+20 18.1	3.954	4.937	1.6	19.4
11 17	2 14.94	+19 44.3	3.986	4.937	3.5	19.5
11 27	2 10.56	+19 10.9	4.048	4.938	5.5	19.6
12 7	2 7.20	+18 40.4	4.136	4.938	7.3	19.8

45629 2000 DT_{99} 10 31.5 35°.28 4°.9/27.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.23	+ 1 0.4	2.110	2.975	11.6	17.9
10 8	2 40.32	+ 0 11.6	2.053	2.979	8.7	17.7
10 18	2 33.77	− 0 34.6	2.021	2.983	6.1	17.6
10 28	2 26.23	− 1 13.0	2.017	2.988	4.9	17.5
11 7	2 18.55	− 1 39.0	2.040	2.993	6.3	17.6
11 17	2 11.53	− 1 49.4	2.090	2.998	9.0	17.8
11 27	2 5.90	− 1 42.7	2.166	3.003	11.8	18.0
12 7	2 2.15	− 1 19.4	2.263	3.008	14.2	18.2

489962 2008 SE_{37} 10 31.5 306°.28 2°.1/29.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.43	+10 20.4	2.327	3.185	10.9	21.5
10 8	2 38.97	+ 9 25.9	2.254	3.182	7.9	21.3
10 18	2 32.98	+ 8 26.1	2.206	3.179	4.7	21.1
10 28	2 26.04	+ 7 25.3	2.187	3.176	2.2	21.0
11 7	2 18.90	+ 6 28.3	2.197	3.172	3.8	21.1
11 17	2 12.31	+ 5 39.8	2.236	3.169	7.0	21.3
11 27	2 6.96	+ 5 3.6	2.302	3.166	10.1	21.5
12 7	2 3.34	+ 4 41.8	2.390	3.163	12.8	21.6

39497 1981 EB_{18} 10 31.5 156°.97 1°.4/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.59	+12 41.6	2.072	2.922	12.4	20.0
10 8	2 42.85	+11 58.4	2.004	2.928	9.0	19.8
10 18	2 35.30	+11 7.9	1.962	2.934	5.3	19.6
10 28	2 26.65	+10 14.1	1.948	2.939	1.7	19.4
11 7	2 17.82	+ 9 22.1	1.963	2.943	3.4	19.5
11 17	2 9.71	+ 8 36.9	2.007	2.947	7.2	19.8
11 27	2 3.14	+ 8 2.7	2.079	2.951	10.7	20.0
12 7	1 58.63	+ 7 42.3	2.173	2.954	13.6	20.2

267967 2004 FV_{86} 10 31.5 272°.46 1°.9/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 52.57	+10 10.2	1.494	2.358	15.6	20.5
10 8	2 46.57	+10 3.6	1.422	2.352	11.5	20.2
10 18	2 37.88	+ 9 51.9	1.372	2.345	6.8	19.9
10 28	2 27.39	+ 9 38.8	1.348	2.339	2.3	19.7
11 7	2 16.41	+ 9 28.6	1.351	2.333	4.4	19.8
11 17	2 6.33	+ 9 25.6	1.381	2.326	9.3	20.1
11 27	1 58.37	+ 9 33.7	1.436	2.320	13.8	20.3
12 7	1 53.30	+ 9 55.1	1.511	2.313	17.6	20.5

329333 2001 CF_{46} 10 31.5 289°.29 11°.5/19.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.12	−21 15.0	2.198	3.008	13.2	20.1
10 8	2 41.86	−22 37.0	2.144	2.990	12.1	20.0
10 18	2 34.77	−23 41.4	2.111	2.971	11.6	19.9
10 28	2 26.52	−24 20.5	2.103	2.952	11.9	19.9
11 7	2 18.02	−24 29.5	2.116	2.933	12.9	19.9
11 17	2 10.15	−24 6.7	2.152	2.915	14.4	20.0
11 27	2 3.74	−23 13.7	2.206	2.896	16.0	20.1
12 7	1 59.34	−21 54.8	2.277	2.877	17.6	20.2

20104 1995 OU 10 31.5 82°.22 2°.2/ 2.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 53.29	+21 9.3	1.692	2.526	15.5	19.0
10 8	2 46.58	+21 10.7	1.642	2.550	11.7	18.8
10 18	2 37.57	+20 57.7	1.613	2.574	7.4	18.6
10 28	2 27.25	+20 31.3	1.611	2.598	3.2	18.4
11 7	2 16.84	+19 55.6	1.637	2.622	3.2	18.5
11 17	2 7.55	+19 16.0	1.692	2.645	7.1	18.8
11 27	2 0.35	+18 38.9	1.773	2.668	11.0	19.1
12 7	1 55.77	+18 9.7	1.877	2.690	14.2	19.3

476981 2008 YT_{54} 10 31.5 341°.95 2°.8/ 1.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.08	+19 13.7	1.104	1.982	18.8	20.4
10 8	2 41.30	+19 42.4	1.029	1.962	14.5	20.0
10 18	2 35.25	+19 56.1	0.972	1.943	9.3	19.7
10 28	2 26.80	+19 54.2	0.936	1.925	4.1	19.4
11 7	2 17.45	+19 39.3	0.924	1.910	4.3	19.3
11 17	2 8.98	+19 17.3	0.934	1.896	9.8	19.6
11 27	2 3.06	+18 56.5	0.966	1.885	15.3	19.8
12 7	2 0.70	+18 44.5	1.016	1.876	20.1	20.1

51513 2001 FY_{99} 10 31.5 85°.75 5°.4/28.5 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.47	+ 2 44.4	1.445	2.315	15.6	18.2
10 8	2 46.13	+ 2 0.8	1.400	2.329	11.6	18.0
10 18	2 37.37	+ 1 19.6	1.376	2.343	7.7	17.8
10 28	2 27.20	+ 0 47.6	1.379	2.357	5.5	17.7
11 7	2 16.95	+ 0 30.7	1.408	2.371	7.3	17.8
11 17	2 7.85	+ 0 32.4	1.462	2.385	10.9	18.1
11 27	2 0.94	+ 0 53.7	1.541	2.398	14.6	18.4
12 7	1 56.76	+ 1 33.3	1.639	2.411	17.7	18.6

284779 2008 XH_{49} 10 31.5 45°.23 6°.8/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.74	+33 13.8	1.591	2.388	17.9	20.7
10 8	2 44.57	+33 27.7	1.527	2.397	14.7	20.5
10 18	2 36.67	+33 15.6	1.481	2.407	11.2	20.4
10 28	2 27.07	+32 35.8	1.458	2.416	8.0	20.2
11 7	2 17.16	+31 31.0	1.461	2.426	6.8	20.2
11 17	2 8.36	+30 8.2	1.490	2.437	8.6	20.3
11 27	2 1.86	+28 38.0	1.544	2.447	11.7	20.5
12 7	1 58.31	+27 10.8	1.622	2.458	15.0	20.7

481658 2007 VU_{232} 10 31.5 38°.25 1°.9/30.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.07	+10 18.5	1.681	2.544	14.1	21.3
10 8	2 43.59	+ 9 59.1	1.618	2.548	10.3	21.0
10 18	2 35.90	+ 9 34.7	1.579	2.552	6.1	20.8
10 28	2 26.85	+ 9 9.2	1.566	2.557	2.2	20.6
11 7	2 17.55	+ 8 47.1	1.581	2.562	4.1	20.7
11 17	2 9.10	+ 8 32.8	1.624	2.566	8.4	21.0
11 27	2 2.50	+ 8 30.0	1.691	2.572	12.3	21.2
12 7	1 58.33	+ 8 40.4	1.781	2.577	15.6	21.5

161948 2007 GU_{29} 10 31.5 190°.58 0°.2/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.19	+14 34.6	2.586	3.425	10.6	20.8
10 8	2 41.63	+14 23.1	2.507	3.424	7.8	20.6
10 18	2 34.53	+14 5.3	2.454	3.423	4.6	20.4
10 28	2 26.48	+13 43.2	2.430	3.421	1.2	20.2
11 7	2 18.21	+13 19.6	2.435	3.419	2.3	20.3
11 17	2 10.45	+12 57.5	2.471	3.417	5.7	20.5
11 27	2 3.90	+12 40.3	2.536	3.415	8.7	20.7
12 7	1 59.05	+12 30.6	2.625	3.412	11.4	20.9

487427 2014 QF_{426} 10 31.5 10°.75 4°.8/ 4.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.45	+29 8.4	2.075	2.876	14.2	20.3
10 8	2 42.37	+29 27.2	1.998	2.877	11.4	20.1
10 18	2 35.20	+29 28.8	1.944	2.879	8.3	19.9
10 28	2 26.68	+29 12.1	1.914	2.881	5.6	19.8
11 7	2 17.83	+28 38.9	1.912	2.883	4.9	19.7
11 17	2 9.68	+27 53.3	1.938	2.885	6.9	19.8
11 27	2 3.19	+27 1.7	1.991	2.888	9.8	20.0
12 7	1 58.98	+26 10.7	2.067	2.892	12.7	20.2

510150 2010 VC_{173} 10 31.5 317°.95 1°.8/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 47.08	+21 24.4	1.257	2.118	18.1	21.4
10 8	2 43.06	+20 52.6	1.183	2.107	13.8	21.1
10 18	2 36.04	+19 58.7	1.128	2.097	8.7	20.8
10 28	2 26.96	+18 45.1	1.097	2.087	3.3	20.4
11 7	2 17.31	+17 19.2	1.091	2.077	3.7	20.4
11 17	2 8.67	+15 51.3	1.110	2.068	9.2	20.7
11 27	2 2.43	+14 32.8	1.152	2.059	14.5	21.0
12 7	1 59.40	+13 32.4	1.215	2.051	19.0	21.2

145622 2006 QM_{95} 10 31.5 38°.35 2°.4/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.39	+ 9 1.6	1.798	2.661	13.4	20.0
10 8	2 42.98	+ 8 33.9	1.733	2.663	9.8	19.8
10 18	2 35.51	+ 8 2.2	1.692	2.664	5.8	19.5
10 28	2 26.75	+ 7 30.8	1.677	2.666	2.6	19.3
11 7	2 17.75	+ 7 4.3	1.691	2.668	4.4	19.5
11 17	2 9.52	+ 6 47.2	1.732	2.670	8.3	19.7
11 27	2 3.00	+ 6 42.6	1.799	2.672	12.0	19.9
12 7	1 58.77	+ 6 52.1	1.887	2.674	15.2	20.2

485308 2011 AX_{67} 10 31.5 33°.61 6°.8/25.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.42	− 5 41.7	2.203	3.059	11.5	21.4
10 8	2 40.43	− 6 42.9	2.149	3.060	9.2	21.3
10 18	2 33.83	− 7 36.7	2.120	3.061	7.3	21.2
10 28	2 26.29	− 8 17.3	2.118	3.063	6.9	21.2
11 7	2 18.60	− 8 40.0	2.143	3.064	8.2	21.3
11 17	2 11.55	− 8 42.3	2.194	3.065	10.3	21.4
11 27	2 5.85	− 8 23.9	2.268	3.067	12.6	21.6
12 7	2 1.97	− 7 46.5	2.363	3.068	14.7	21.7

286102 2001 TY_{90} 10 31.5 349°.47 2°.3/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.14	+21 28.8	1.687	2.530	15.1	20.3
10 8	2 42.41	+21 27.6	1.613	2.526	11.5	20.1
10 18	2 35.34	+21 11.4	1.560	2.523	7.5	19.8
10 28	2 26.74	+20 41.2	1.533	2.520	3.4	19.6
11 7	2 17.75	+20 0.7	1.533	2.518	3.3	19.6
11 17	2 9.55	+19 15.3	1.561	2.516	7.3	19.8
11 27	2 3.22	+18 32.0	1.613	2.515	11.4	20.0
12 7	1 59.43	+17 56.8	1.689	2.514	15.0	20.3

78988 2003 UQ_{86} 10 31.5 28°.74 3°.7/29.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.05	+ 7 48.1	1.384	2.264	15.6	18.6
10 8	2 42.35	+ 7 0.5	1.335	2.272	11.4	18.4
10 18	2 35.23	+ 6 9.2	1.307	2.281	6.9	18.2
10 28	2 26.68	+ 5 20.9	1.305	2.291	3.8	18.0
11 7	2 17.95	+ 4 42.6	1.328	2.302	5.9	18.2
11 17	2 10.28	+ 4 19.7	1.376	2.314	10.1	18.5
11 27	2 4.68	+ 4 15.6	1.448	2.326	14.1	18.7
12 7	2 1.74	+ 4 30.5	1.540	2.338	17.5	19.0

378596 2008 EH_{48} 10 31.5 137°.29 1°.7/ 1.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 53.68	+18 58.4	1.624	2.465	15.7	21.0
10 8	2 47.20	+19 6.0	1.557	2.471	11.8	20.7
10 18	2 38.15	+19 0.8	1.512	2.477	7.4	20.5
10 28	2 27.47	+18 43.8	1.494	2.483	2.8	20.2
11 7	2 16.45	+18 18.2	1.503	2.488	3.2	20.3
11 17	2 6.41	+17 49.1	1.540	2.493	7.7	20.6
11 27	1 58.48	+17 22.7	1.604	2.498	12.0	20.8
12 7	1 53.35	+17 4.4	1.689	2.502	15.6	21.1

54541 2000 QW_{58} 10 31.5 159°.07 1°.1/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.59	+18 5.2	1.908	2.744	13.9	18.9
10 8	2 46.08	+18 6.5	1.836	2.749	10.4	18.7
10 18	2 37.36	+17 57.2	1.788	2.753	6.4	18.5
10 28	2 27.27	+17 38.5	1.768	2.758	2.2	18.2
11 7	2 16.87	+17 13.4	1.776	2.761	2.8	18.2
11 17	2 7.28	+16 46.2	1.814	2.764	6.9	18.5
11 27	1 59.48	+16 22.2	1.878	2.767	10.8	18.8
12 7	1 54.10	+16 5.7	1.966	2.769	14.0	19.0

97464 2000 CH_{26} 10 31.5 200°.76 1°.5/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.91	+21 16.9	2.666	3.487	10.8	20.1
10 8	2 40.73	+21 2.6	2.582	3.485	8.2	19.9
10 18	2 34.03	+20 37.9	2.524	3.482	5.2	19.8
10 28	2 26.38	+20 4.0	2.493	3.479	2.3	19.5
11 7	2 18.51	+19 23.5	2.492	3.476	2.3	19.5
11 17	2 11.14	+18 40.3	2.521	3.473	5.2	19.7
11 27	2 4.96	+17 58.5	2.579	3.469	8.2	19.9
12 7	2 0.47	+17 22.2	2.663	3.465	10.8	20.1

361420 2006 WE_{181} 10 31.5 238°.93 0°.8/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.42	+19 21.1	2.018	2.858	13.1	21.2
10 8	2 41.47	+18 49.3	1.942	2.857	9.8	21.0
10 18	2 34.61	+18 4.7	1.890	2.856	6.0	20.7
10 28	2 26.55	+17 10.1	1.865	2.855	2.0	20.5
11 7	2 18.23	+16 9.9	1.869	2.854	2.6	20.5
11 17	2 10.61	+15 10.0	1.901	2.853	6.6	20.8
11 27	2 4.54	+14 16.2	1.961	2.852	10.3	21.0
12 7	2 0.59	+13 33.4	2.044	2.851	13.4	21.2

154142 2002 FW 10 31.5 134°.61 2°.7/28.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 44.89	+ 6 52.6	2.823	3.675	9.4	21.1
10 8	2 39.70	+ 5 50.1	2.766	3.689	6.8	21.0
10 18	2 33.29	+ 4 45.8	2.735	3.703	4.2	20.8
10 28	2 26.18	+ 3 43.7	2.734	3.716	2.7	20.7
11 7	2 19.00	+ 2 47.9	2.763	3.728	4.0	20.8
11 17	2 12.35	+ 2 2.2	2.823	3.740	6.5	21.0
11 27	2 6.78	+ 1 28.9	2.910	3.752	8.9	21.2
12 7	2 2.67	+ 1 9.3	3.021	3.763	11.0	21.4

39238 2000 YE_{62} 10 31.5 177°.34 1°.2/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.86	+12 5.9	2.565	3.412	10.4	19.6
10 8	2 40.64	+11 33.4	2.491	3.413	7.6	19.4
10 18	2 33.95	+10 55.5	2.443	3.414	4.4	19.2
10 28	2 26.38	+10 15.2	2.423	3.414	1.4	19.0
11 7	2 18.62	+ 9 36.3	2.434	3.415	2.9	19.1
11 17	2 11.39	+ 9 2.3	2.475	3.415	6.1	19.3
11 27	2 5.35	+ 8 36.6	2.544	3.414	9.0	19.5
12 7	2 0.96	+ 8 21.3	2.637	3.414	11.6	19.7

506083 2015 VZ_{152} 10 31.5 182°.26 14°.1/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 59.97	+46 3.2	1.361	2.089	23.5	21.1
10 8	2 53.68	+47 15.7	1.290	2.090	21.0	20.9
10 18	2 42.90	+47 51.7	1.234	2.091	18.3	20.7
10 28	2 28.91	+47 40.5	1.196	2.091	15.7	20.5
11 7	2 14.00	+46 38.0	1.179	2.090	14.2	20.5
11 17	2 0.73	+44 49.3	1.183	2.089	14.4	20.5
11 27	1 51.21	+42 29.4	1.209	2.088	16.3	20.6
12 7	1 46.37	+39 57.7	1.257	2.086	18.9	20.8

174697 2003 UC_{58} 10 31.5 297°.55 4°.2/ 3.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.74	+24 49.0	1.365	2.205	18.1	20.1
10 8	2 45.76	+24 59.0	1.289	2.197	14.2	19.9
10 18	2 37.69	+24 48.1	1.232	2.188	9.7	19.6
10 28	2 27.47	+24 15.1	1.198	2.180	5.4	19.3
11 7	2 16.60	+23 23.4	1.190	2.172	4.7	19.3
11 17	2 6.71	+22 20.0	1.207	2.164	8.9	19.5
11 27	1 59.25	+21 15.3	1.249	2.156	13.6	19.7
12 7	1 55.08	+20 18.8	1.311	2.149	17.8	20.0

330223 2006 HV_{77} 10 31.5 182°.87 1°.4/ 1.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.02	+19 28.4	2.678	3.501	10.7	21.4
10 8	2 42.27	+19 34.4	2.597	3.502	8.1	21.3
10 18	2 34.97	+19 32.0	2.541	3.502	5.1	21.1
10 28	2 26.67	+19 21.9	2.514	3.501	2.1	20.9
11 7	2 18.12	+19 6.0	2.517	3.501	2.2	20.9
11 17	2 10.08	+18 46.9	2.550	3.500	5.2	21.1
11 27	2 3.24	+18 28.4	2.612	3.499	8.2	21.3
12 7	1 58.12	+18 13.7	2.699	3.498	10.8	21.5

173125 1993 PB_{2} 10 31.5 202°.28 4°.8/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 53.55	+27 35.9	1.618	2.432	16.9	20.8
10 8	2 47.44	+27 45.7	1.540	2.430	13.5	20.5
10 18	2 38.49	+27 34.5	1.482	2.427	9.6	20.3
10 28	2 27.66	+27 0.8	1.449	2.423	5.9	20.1
11 7	2 16.32	+26 7.1	1.442	2.420	5.1	20.0
11 17	2 5.93	+24 59.9	1.463	2.415	8.2	20.2
11 27	1 57.78	+23 48.5	1.510	2.410	12.2	20.4
12 7	1 52.66	+22 42.4	1.580	2.405	15.9	20.7

266167 2006 UN_{219} 10 31.5 329°.25 0°.7/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.13	+15 46.4	1.313	2.177	17.3	20.3
10 8	2 46.68	+16 0.3	1.243	2.171	13.0	20.0
10 18	2 38.18	+16 3.5	1.194	2.166	7.9	19.7
10 28	2 27.60	+15 57.3	1.169	2.161	2.4	19.4
11 7	2 16.43	+15 45.1	1.170	2.156	3.6	19.5
11 17	2 6.25	+15 32.0	1.197	2.152	9.1	19.8
11 27	1 58.48	+15 24.3	1.247	2.148	14.1	20.0
12 7	1 53.97	+15 26.6	1.318	2.145	18.3	20.3

44208 1998 OY_{6} 10 31.5 218°.96 6°.2/ 5.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.19	+33 20.3	2.053	2.828	15.1	18.8
10 8	2 45.34	+33 39.9	1.967	2.824	12.5	18.6
10 18	2 37.11	+33 39.0	1.902	2.819	9.7	18.4
10 28	2 27.30	+33 15.1	1.861	2.814	7.1	18.2
11 7	2 17.03	+32 29.4	1.848	2.808	6.2	18.2
11 17	2 7.51	+31 26.2	1.863	2.802	7.7	18.2
11 27	1 59.84	+30 13.0	1.904	2.797	10.5	18.4
12 7	1 54.73	+28 58.6	1.970	2.790	13.4	18.6

402190 2004 TA_{149} 10 31.5 333°.21 1°.6/ 1.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.04	+19 22.1	1.754	2.602	14.3	21.2
10 8	2 41.63	+19 22.3	1.671	2.589	10.9	21.0
10 18	2 34.94	+19 10.0	1.611	2.577	6.9	20.7
10 28	2 26.73	+18 46.3	1.576	2.566	2.7	20.4
11 7	2 18.04	+18 14.6	1.569	2.555	3.0	20.4
11 17	2 10.02	+17 39.8	1.589	2.544	7.3	20.7
11 27	2 3.72	+17 7.8	1.634	2.535	11.4	20.9
12 7	1 59.86	+16 43.9	1.702	2.526	15.0	21.1

210288 2007 TN_{60} 10 31.5 350°.90 1°.8/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 47.41	+20 19.7	1.514	2.366	16.0	20.6
10 8	2 42.83	+20 8.9	1.443	2.363	12.2	20.4
10 18	2 35.71	+19 42.3	1.393	2.360	7.7	20.1
10 28	2 26.93	+19 1.5	1.368	2.357	3.0	19.9
11 7	2 17.74	+18 11.4	1.370	2.356	3.2	19.9
11 17	2 9.44	+17 18.7	1.398	2.354	7.9	20.1
11 27	2 3.19	+16 31.0	1.451	2.354	12.4	20.4
12 7	1 59.68	+15 54.6	1.526	2.353	16.2	20.7

66098 1998 SV_{12} 10 31.5 313°.78 11°.4/17.7 18

9 28	2 43.00	−15 53.4	1.967	2.810	13.2	18.4
10 8	2 39.07	−18 7.8	1.914	2.791	11.9	18.3
10 18	2 33.27	−20 8.4	1.885	2.772	11.4	18.2
10 28	2 26.26	−21 45.1	1.880	2.753	12.0	18.2
11 7	2 18.92	−22 50.5	1.899	2.735	13.4	18.3
11 17	2 12.18	−23 20.9	1.939	2.717	15.3	18.4
11 27	2 6.88	−23 16.7	1.997	2.700	17.2	18.5
12 7	2 3.61	−22 41.5	2.070	2.682	18.8	18.6

235148 2003 QA_{103} 10 31.5 68°.37 1°.3/30.6 18

9 28	2 49.92	+13 16.4	1.565	2.426	15.1	20.5
10 8	2 44.18	+12 37.9	1.518	2.446	11.0	20.3
10 18	2 36.21	+11 50.9	1.494	2.467	6.4	20.1
10 28	2 27.00	+11 0.3	1.496	2.487	1.9	19.9
11 7	2 17.73	+10 12.1	1.526	2.508	3.8	20.1
11 17	2 9.54	+ 9 32.2	1.583	2.529	8.3	20.4
11 27	2 3.35	+ 9 5.3	1.665	2.549	12.2	20.7
12 7	1 59.69	+ 8 53.8	1.769	2.569	15.5	20.9

397842 2008 SQ_{281} 10 31.5 186°.12 1°.9/30.4 18

9 28	2 53.57	+ 8 44.3	1.951	2.801	13.1	21.6
10 8	2 46.73	+ 8 43.6	1.878	2.801	9.6	21.3
10 18	2 37.77	+ 8 40.4	1.830	2.800	5.7	21.1
10 28	2 27.45	+ 8 37.4	1.810	2.799	2.2	20.9
11 7	2 16.81	+ 8 37.6	1.819	2.798	3.9	21.0
11 17	2 6.92	+ 8 43.9	1.858	2.797	7.8	21.2
11 27	1 58.73	+ 8 58.7	1.923	2.795	11.5	21.5
12 7	1 52.87	+ 9 23.5	2.012	2.792	14.6	21.7

402402 2005 YJ_{123} 10 31.5 336°.71 3°.1/29.6 18

9 28	2 48.26	+ 6 10.5	1.813	2.678	13.2	19.8
10 8	2 43.00	+ 5 58.3	1.740	2.670	9.7	19.6
10 18	2 35.62	+ 5 45.4	1.692	2.663	6.0	19.3
10 28	2 26.89	+ 5 35.7	1.670	2.656	3.2	19.2
11 7	2 17.81	+ 5 33.0	1.676	2.650	4.9	19.3
11 17	2 9.43	+ 5 40.5	1.709	2.645	8.6	19.5
11 27	2 2.70	+ 6 0.5	1.768	2.640	12.3	19.7
12 7	1 58.25	+ 6 33.4	1.849	2.635	15.5	19.9

489950 2008 RD_{114} 10 31.5 10°.46 2°.9/ 2.7 17

9 28	2 47.46	+23 3.2	2.027	2.854	13.5	21.5
10 8	2 42.35	+23 17.7	1.953	2.855	10.4	21.3
10 18	2 35.21	+23 19.0	1.902	2.857	7.0	21.1
10 28	2 26.78	+23 7.3	1.877	2.859	3.7	20.9
11 7	2 18.03	+22 44.7	1.880	2.862	3.4	20.9
11 17	2 9.96	+22 15.2	1.912	2.865	6.4	21.1
11 27	2 3.49	+21 44.0	1.970	2.868	9.9	21.3
12 7	1 59.24	+21 16.4	2.052	2.872	12.9	21.5

213949 2003 WJ_{127} 10 31.5 286°.63 4°.2/28.9 18

9 28	2 50.82	+ 3 36.6	1.850	2.710	13.2	20.5
10 8	2 45.03	+ 3 13.4	1.760	2.686	9.9	20.2
10 18	2 36.95	+ 2 50.8	1.694	2.661	6.5	20.0
10 28	2 27.29	+ 2 33.5	1.655	2.636	4.3	19.8
11 7	2 17.05	+ 2 26.3	1.644	2.611	6.0	19.8
11 17	2 7.36	+ 2 32.8	1.661	2.586	9.7	20.0
11 27	1 59.29	+ 2 55.3	1.703	2.560	13.4	20.2
12 7	1 53.60	+ 3 34.2	1.766	2.535	16.7	20.3

330919 2009 SC_{108} 10 31.5 324°.52 0°.7/30.9 18

9 28	2 43.75	+15 47.9	2.096	2.948	12.2	20.9
10 8	2 39.46	+14 52.0	2.018	2.942	8.9	20.7
10 18	2 33.42	+13 45.4	1.965	2.937	5.2	20.4
10 28	2 26.29	+12 32.2	1.940	2.932	1.4	20.2
11 7	2 18.92	+11 18.0	1.944	2.927	3.0	20.3
11 17	2 12.17	+10 8.9	1.976	2.922	6.9	20.5
11 27	2 6.81	+ 9 10.6	2.036	2.917	10.4	20.7
12 7	2 3.39	+ 8 26.8	2.118	2.913	13.5	20.9

403463 2009 SE_{352} 10 31.5 354°.17 11°.7/ 8.4 17

9 28	2 45.24	+39 1.8	1.395	2.180	20.6	19.9
10 8	2 42.22	+40 26.2	1.322	2.169	18.0	19.7
10 18	2 35.86	+41 22.4	1.266	2.160	15.3	19.5
10 28	2 27.07	+41 43.1	1.229	2.153	12.9	19.4
11 7	2 17.41	+41 25.6	1.213	2.148	11.7	19.3
11 17	2 8.72	+40 33.1	1.219	2.145	12.4	19.3
11 27	2 2.67	+39 15.5	1.247	2.143	14.5	19.5
12 7	2 0.24	+37 46.0	1.295	2.144	17.3	19.6

69715 1998 HG_{104} 10 31.6 93°.33 3°.1/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 55.22	+ 5 37.9	1.796	2.649	13.8	19.0
10 8	2 47.80	+ 5 34.7	1.745	2.669	10.2	18.8
10 18	2 38.27	+ 5 31.8	1.720	2.689	6.2	18.6
10 28	2 27.55	+ 5 32.5	1.722	2.708	3.2	18.5
11 7	2 16.76	+ 5 39.8	1.753	2.727	4.8	18.6
11 17	2 6.99	+ 5 56.0	1.813	2.746	8.4	18.9
11 27	1 59.14	+ 6 22.6	1.900	2.765	11.9	19.1
12 7	1 53.74	+ 6 59.7	2.009	2.783	14.8	19.4

78693 2002 TY_{167} 10 31.6 77°.52 2°.0/ 2.8 18

9 28	2 44.80	+24 26.1	2.379	3.196	12.1	18.9
10 8	2 40.04	+23 48.4	2.304	3.202	9.2	18.8
10 18	2 33.67	+22 56.1	2.254	3.208	6.1	18.6
10 28	2 26.35	+21 51.4	2.231	3.215	3.0	18.4
11 7	2 18.88	+20 38.2	2.237	3.221	2.6	18.4
11 17	2 12.05	+19 22.0	2.274	3.227	5.5	18.6
11 27	2 6.57	+18 8.9	2.338	3.233	8.7	18.8
12 7	2 2.93	+17 3.9	2.429	3.240	11.4	19.0

71695 2000 FO_{44} 10 31.6 189°.34 0°.4/31.2 18

9 28	2 45.97	+14 2.2	2.759	3.599	9.9	19.6
10 8	2 40.69	+13 45.0	2.680	3.598	7.3	19.5
10 18	2 34.00	+13 22.2	2.627	3.597	4.3	19.3
10 28	2 26.44	+12 55.6	2.604	3.595	1.1	19.0
11 7	2 18.68	+12 28.3	2.610	3.594	2.3	19.1
11 17	2 11.40	+12 3.2	2.647	3.592	5.4	19.3
11 27	2 5.23	+11 43.4	2.712	3.590	8.3	19.5
12 7	2 0.63	+11 31.3	2.803	3.587	10.8	19.7

88930 2001 TR_{23} 10 31.6 209°.08 0°.7/30.9 18

9 28	2 46.27	+15 12.1	2.186	3.034	11.9	20.1
10 8	2 41.23	+14 25.7	2.109	3.031	8.8	19.9
10 18	2 34.44	+13 29.9	2.056	3.027	5.1	19.7
10 28	2 26.57	+12 28.4	2.032	3.024	1.4	19.4
11 7	2 18.46	+11 25.9	2.037	3.020	2.9	19.5
11 17	2 10.98	+10 28.0	2.071	3.016	6.7	19.8
11 27	2 4.89	+ 9 39.5	2.133	3.012	10.2	20.0
12 7	2 0.73	+ 9 4.1	2.219	3.007	13.1	20.2

91752 1999 TB_{189} 10 31.6 330°.13 5°.9/ 5.5 18

9 28	2 48.77	+32 14.8	2.089	2.873	14.6	19.2
10 8	2 43.50	+32 40.2	2.006	2.869	12.1	19.0
10 18	2 36.00	+32 46.5	1.945	2.866	9.2	18.8
10 28	2 27.02	+32 31.9	1.908	2.863	6.8	18.7
11 7	2 17.62	+31 57.3	1.898	2.860	5.9	18.6
11 17	2 8.91	+31 6.7	1.916	2.857	7.4	18.7
11 27	2 1.93	+30 6.7	1.960	2.854	10.1	18.9
12 7	1 57.36	+29 5.1	2.028	2.852	12.9	19.1

515540 2014 GB_{43} 10 31.6 235°.64 0°.3/31.3 18

9 28	2 50.51	+14 27.3	2.134	2.976	12.4	22.4
10 8	2 44.51	+14 13.2	2.045	2.963	9.2	22.1
10 18	2 36.50	+13 51.4	1.980	2.950	5.5	21.9
10 28	2 27.16	+13 23.9	1.944	2.936	1.4	21.6
11 7	2 17.39	+12 54.3	1.937	2.921	2.8	21.7
11 17	2 8.19	+12 26.7	1.960	2.906	6.9	21.9
11 27	2 0.47	+12 5.4	2.010	2.890	10.6	22.1
12 7	1 54.89	+11 53.8	2.084	2.874	13.8	22.3

188340 2003 SL_{32} 10 31.6 50°.45 2°.6/ 2.2 18

9 28	2 53.10	+20 29.3	1.921	2.749	14.1	19.0
10 8	2 46.40	+21 8.1	1.865	2.769	10.7	18.8
10 18	2 37.55	+21 35.7	1.833	2.790	7.0	18.7
10 28	2 27.40	+21 51.4	1.827	2.812	3.4	18.5
11 7	2 17.06	+21 56.7	1.851	2.833	3.3	18.5
11 17	2 7.62	+21 54.6	1.904	2.855	6.6	18.8
11 27	2 0.01	+21 49.6	1.984	2.877	10.1	19.0
12 7	1 54.84	+21 46.3	2.087	2.899	13.0	19.3

406261 2007 DN_{117} 10 31.6 206°.25 1°.2/30.4 18

9 28	2 44.78	+13 14.7	2.294	3.146	11.3	20.7
10 8	2 40.04	+12 26.4	2.221	3.145	8.2	20.5
10 18	2 33.70	+11 30.6	2.172	3.144	4.8	20.3
10 28	2 26.39	+10 31.3	2.152	3.143	1.5	20.1
11 7	2 18.87	+ 9 33.1	2.161	3.142	3.1	20.2
11 17	2 11.93	+ 8 41.0	2.200	3.141	6.6	20.4
11 27	2 6.29	+ 7 59.3	2.265	3.139	9.9	20.6
12 7	2 2.44	+ 7 30.6	2.355	3.138	12.6	20.8

210213 Hasler–Gloor 10 31.6 64°.17 2°.9/ 3.1 17

9 28	2 50.77	+26 27.6	1.574	2.398	16.9	20.5
10 8	2 44.80	+25 37.6	1.529	2.429	12.9	20.3
10 18	2 36.55	+24 25.9	1.506	2.460	8.5	20.1
10 28	2 27.10	+22 55.9	1.508	2.492	4.2	20.0
11 7	2 17.75	+21 15.4	1.539	2.522	3.5	20.0
11 17	2 9.68	+19 33.6	1.598	2.553	7.2	20.3
11 27	2 3.77	+18 0.2	1.683	2.584	11.1	20.6
12 7	2 0.48	+16 41.9	1.792	2.614	14.4	20.9

328766 2009 UR_{100} 10 31.6 262°.26 2°.6/29.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 48.12	+ 6 14.4	2.318	3.172	11.1	20.1
10 8	2 42.46	+ 6 1.4	2.245	3.169	8.2	19.9
10 18	2 35.14	+ 5 47.7	2.197	3.166	5.0	19.7
10 28	2 26.78	+ 5 36.3	2.177	3.163	2.7	19.6
11 7	2 18.18	+ 5 30.5	2.187	3.160	4.1	19.7
11 17	2 10.14	+ 5 32.7	2.226	3.157	7.2	19.9
11 27	2 3.43	+ 5 45.0	2.292	3.154	10.3	20.1
12 7	1 58.56	+ 6 8.0	2.382	3.151	12.9	20.2

469775 2005 QD_{82} 10 31.6 35°.58 3°.9/ 2.6 18

9 28	2 52.22	+22 15.5	1.103	1.963	20.2	20.2
10 8	2 46.88	+22 47.4	1.060	1.980	15.5	20.0
10 18	2 38.25	+22 59.1	1.035	1.998	10.2	19.7
10 28	2 27.63	+22 50.1	1.033	2.017	5.2	19.5
11 7	2 16.79	+22 24.3	1.054	2.038	4.7	19.6
11 17	2 7.47	+21 49.2	1.100	2.059	9.2	19.9
11 27	2 1.04	+21 14.0	1.169	2.080	13.9	20.2
12 7	1 58.11	+20 46.7	1.258	2.103	17.9	20.5

507638 2013 KD_{13} 10 31.6 69°.27 2°.1/30.5 17

9 28	2 55.03	+11 8.8	1.160	2.033	18.4	21.3
10 8	2 48.50	+10 47.9	1.120	2.054	13.4	21.1
10 18	2 38.99	+10 19.7	1.099	2.074	7.9	20.8
10 28	2 27.79	+ 9 49.4	1.103	2.094	2.6	20.6
11 7	2 16.54	+ 9 23.4	1.132	2.114	4.9	20.8
11 17	2 6.81	+ 9 7.5	1.187	2.135	10.2	21.2
11 27	1 59.79	+ 9 5.9	1.265	2.155	14.8	21.5
12 7	1 56.05	+ 9 20.4	1.363	2.175	18.6	21.8

484224 2007 DY_{110} 10 31.6 262°.04 0°.8/ 1.2 17

9 28	2 47.05	+18 13.0	2.236	3.073	12.1	22.3
10 8	2 41.90	+17 58.7	2.149	3.062	9.0	22.1
10 18	2 34.92	+17 34.2	2.086	3.052	5.6	21.9
10 28	2 26.75	+17 1.4	2.050	3.041	1.8	21.6
11 7	2 18.23	+16 23.3	2.044	3.030	2.4	21.6
11 17	2 10.25	+15 44.3	2.068	3.019	6.2	21.9
11 27	2 3.66	+15 9.2	2.118	3.007	9.7	22.1
12 7	1 59.04	+14 42.1	2.193	2.996	12.8	22.2

95849 2003 FZ_{120} 10 31.6 95°.34 3°.9/28.6 18

9 28	2 49.07	+ 7 39.5	1.657	2.524	14.1	20.4
10 8	2 43.46	+ 6 25.9	1.609	2.541	10.3	20.2
10 18	2 35.78	+ 5 8.7	1.585	2.557	6.3	20.0
10 28	2 26.93	+ 3 55.1	1.588	2.572	3.9	19.9
11 7	2 18.01	+ 2 52.2	1.619	2.588	5.8	20.1
11 17	2 10.08	+ 2 5.9	1.677	2.603	9.5	20.3
11 27	2 3.99	+ 1 39.5	1.760	2.618	13.0	20.6
12 7	2 0.25	+ 1 33.5	1.864	2.633	16.0	20.8

79914 1999 CK_{3} 10 31.6 319°.59 3°.4/ 3.2 18

9 28	2 46.65	+25 32.3	1.753	2.581	15.3	18.7
10 8	2 42.13	+25 19.6	1.671	2.572	12.0	18.5
10 18	2 35.27	+24 47.8	1.610	2.563	8.2	18.2
10 28	2 26.87	+23 57.5	1.574	2.555	4.5	18.0
11 7	2 18.04	+22 52.4	1.565	2.547	3.8	18.0
11 17	2 9.97	+21 39.1	1.584	2.539	7.2	18.2
11 27	2 3.73	+20 26.0	1.629	2.532	11.2	18.4
12 7	2 0.02	+19 20.9	1.696	2.525	14.8	18.6

260002 2004 FJ_{116} 10 31.6 200°.96 2°.4/29.6 18

9 28	2 48.63	+ 7 45.6	2.356	3.207	11.0	21.3
10 8	2 42.82	+ 7 18.1	2.281	3.204	8.1	21.1
10 18	2 35.36	+ 6 48.0	2.231	3.200	4.9	20.9
10 28	2 26.85	+ 6 18.9	2.209	3.196	2.5	20.7
11 7	2 18.10	+ 5 54.5	2.218	3.192	4.0	20.8
11 17	2 9.92	+ 5 38.0	2.256	3.186	7.1	21.0
11 27	2 3.05	+ 5 32.2	2.321	3.181	10.2	21.2
12 7	1 58.03	+ 5 38.4	2.410	3.175	12.9	21.4

326606 2002 RR_{37} 10 31.6 57°.39 1°.3/30.7 13 C

9 28	2 50.80	+15 6.4	1.199	2.071	18.0	20.9
10 8	2 45.25	+14 8.9	1.161	2.095	13.1	20.7
10 18	2 36.99	+12 58.6	1.145	2.120	7.6	20.5
10 28	2 27.26	+11 42.6	1.153	2.145	2.1	20.2
11 7	2 17.57	+10 30.0	1.186	2.170	4.4	20.4
11 17	2 9.32	+ 9 29.6	1.246	2.195	9.6	20.8
11 27	2 3.56	+ 8 47.5	1.328	2.220	14.1	21.2
12 7	2 0.78	+ 8 26.3	1.431	2.246	17.8	21.5

333278 1997 TF_{11} 10 31.6 14°.37 2°.1/30.3 18

9 28	2 44.43	+13 26.4	1.072	1.962	18.3	19.7
10 8	2 41.09	+12 33.6	1.023	1.967	13.4	19.4
10 18	2 34.82	+11 28.1	0.995	1.973	7.8	19.1
10 28	2 26.74	+10 17.2	0.988	1.980	2.5	18.8
11 7	2 18.40	+ 9 10.9	1.006	1.989	5.1	19.0
11 17	2 11.30	+ 8 18.3	1.047	1.999	10.6	19.4
11 27	2 6.66	+ 7 46.4	1.110	2.010	15.5	19.7
12 7	2 5.10	+ 7 37.4	1.191	2.023	19.6	20.0

10510 Maxschreier 10 31.6 165°.71 1°.7/30.4 18

9 28	2 50.99	+13 27.2	1.555	2.415	15.3	18.5
10 8	2 45.23	+12 33.1	1.490	2.418	11.2	18.3
10 18	2 37.03	+11 28.2	1.448	2.421	6.6	18.0
10 28	2 27.32	+10 18.0	1.432	2.424	2.1	17.7
11 7	2 17.34	+ 9 9.9	1.444	2.426	4.3	17.9
11 17	2 8.33	+ 8 11.2	1.484	2.427	9.0	18.2
11 27	2 1.36	+ 7 28.2	1.549	2.428	13.2	18.4
12 7	1 57.06	+ 7 4.0	1.635	2.429	16.8	18.7

43554 2001 FW_{44} 10 31.6 303°.52 1°.8/ 1.9 17

9 28	2 48.41	+19 46.9	2.144	2.976	12.7	19.1
10 8	2 43.01	+19 58.1	2.060	2.969	9.6	18.9
10 18	2 35.64	+19 59.1	2.000	2.962	6.2	18.6
10 28	2 26.97	+19 50.4	1.967	2.954	2.6	18.4
11 7	2 17.90	+19 34.0	1.963	2.947	2.7	18.4
11 17	2 9.41	+19 13.5	1.988	2.940	6.3	18.6
11 27	2 2.41	+18 53.2	2.040	2.933	9.8	18.8
12 7	1 57.52	+18 37.5	2.116	2.927	12.9	19.0

161657 2006 BM_{268} 10 31.6 121°.61 0°.9/30.9 18

9 28	2 53.05	+12 16.0	2.062	2.905	12.7	20.0
10 8	2 46.11	+12 5.2	2.004	2.923	9.3	19.9
10 18	2 37.28	+11 48.8	1.971	2.941	5.4	19.7
10 28	2 27.36	+11 29.4	1.966	2.957	1.5	19.4
11 7	2 17.32	+11 10.5	1.991	2.973	3.1	19.6
11 17	2 8.12	+10 55.4	2.046	2.989	6.9	19.8
11 27	2 0.58	+10 47.7	2.129	3.004	10.3	20.1
12 7	1 55.23	+10 49.5	2.235	3.018	13.2	20.3

128231 2003 SH_{140} 10 31.6 172°.34 6°.1/ 7.9 18

9 28	2 49.79	+39 28.6	2.958	3.674	12.2	20.4
10 8	2 43.74	+39 44.2	2.871	3.677	10.4	20.3
10 18	2 35.93	+39 41.8	2.805	3.679	8.6	20.2
10 28	2 27.02	+39 19.7	2.765	3.681	6.9	20.1
11 7	2 17.85	+38 38.5	2.752	3.682	6.1	20.0
11 17	2 9.29	+37 41.0	2.767	3.684	6.7	20.0
11 27	2 2.13	+36 32.5	2.811	3.684	8.2	20.1
12 7	1 56.91	+35 19.1	2.881	3.685	10.0	20.3

475280 2005 WJ_{149} 10 31.6 17°.33 2°.3/ 1.9 18

9 28	2 48.46	+20 15.6	1.204	2.068	18.5	20.7
10 8	2 44.04	+20 19.6	1.147	2.073	14.0	20.5
10 18	2 36.61	+20 5.9	1.110	2.078	8.9	20.2
10 28	2 27.25	+19 36.0	1.096	2.084	3.7	19.9
11 7	2 17.50	+18 54.9	1.106	2.092	3.8	20.0
11 17	2 8.96	+18 10.2	1.141	2.100	8.9	20.3
11 27	2 2.93	+17 30.5	1.199	2.109	13.8	20.6
12 7	2 0.12	+17 2.5	1.278	2.119	17.9	20.9

480649 2015 OG_{1} 10 31.6 204°.18 5°.4/ 5.3 18

9 28	2 50.88	+32 9.1	2.058	2.840	14.9	21.4
10 8	2 45.05	+32 10.2	1.972	2.836	12.2	21.2
10 18	2 36.92	+31 50.5	1.908	2.833	9.1	21.0
10 28	2 27.32	+31 8.5	1.869	2.828	6.4	20.8
11 7	2 17.33	+30 6.3	1.857	2.824	5.4	20.7
11 17	2 8.13	+28 49.2	1.874	2.819	7.2	20.8
11 27	2 0.74	+27 25.3	1.918	2.814	10.2	21.0
12 7	1 55.83	+26 3.2	1.987	2.808	13.2	21.2

255902 2006 SD_{308} 10 31.6 20°.99 1°.5/ 1.7 18

9 28	2 47.17	+20 22.9	1.707	2.552	14.8	20.8
10 8	2 42.36	+20 4.6	1.638	2.554	11.2	20.6
10 18	2 35.32	+19 31.7	1.592	2.557	7.0	20.4
10 28	2 26.88	+18 46.3	1.572	2.561	2.7	20.1
11 7	2 18.15	+17 53.1	1.579	2.565	2.9	20.1
11 17	2 10.26	+16 58.4	1.614	2.569	7.2	20.4
11 27	2 4.21	+16 9.0	1.674	2.573	11.3	20.7
12 7	2 0.60	+15 30.3	1.757	2.578	14.7	20.9

513306 2007 CW_{20} 10 31.6 271°.53 0°.2/31.7 18

9 28	2 49.83	+16 59.1	1.587	2.441	15.3	22.1
10 8	2 44.65	+16 36.4	1.504	2.427	11.5	21.8
10 18	2 36.88	+16 0.5	1.443	2.413	7.0	21.5
10 28	2 27.35	+15 13.9	1.407	2.399	2.0	21.2
11 7	2 17.26	+14 21.9	1.399	2.384	3.3	21.2
11 17	2 7.92	+13 31.0	1.418	2.370	8.4	21.5
11 27	2 0.55	+12 48.6	1.462	2.355	13.0	21.7
12 7	1 55.92	+12 20.0	1.528	2.341	16.9	22.0

267987 2004 GU_{56} 10 31.6 92°.19 0°.9/ 1.2 16

9 28	2 52.84	+18 29.3	1.614	2.458	15.6	21.7
10 8	2 46.38	+18 9.6	1.562	2.479	11.6	21.5
10 18	2 37.58	+17 36.7	1.533	2.500	7.0	21.3
10 28	2 27.45	+16 53.4	1.530	2.520	2.2	21.1
11 7	2 17.24	+16 4.9	1.555	2.541	3.0	21.2
11 17	2 8.15	+15 17.5	1.608	2.560	7.5	21.5
11 27	2 1.15	+14 37.4	1.688	2.580	11.6	21.8
12 7	1 56.81	+14 9.1	1.790	2.599	15.0	22.1

203231 2001 FT_{172} 10 31.6 170°.83 5°.1/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 48.84	− 1 39.4	2.516	3.365	10.5	21.2
10 8	2 42.79	− 2 30.5	2.456	3.369	8.1	21.1
10 18	2 35.25	− 3 17.7	2.421	3.373	5.9	20.9
10 28	2 26.83	− 3 56.4	2.416	3.376	5.1	20.9
11 7	2 18.28	− 4 22.3	2.440	3.379	6.3	21.0
11 17	2 10.32	− 4 33.0	2.492	3.381	8.6	21.1
11 27	2 3.62	− 4 27.3	2.570	3.382	10.9	21.3
12 7	1 58.63	− 4 5.9	2.671	3.382	13.0	21.4

296220 2009 CC_{28} 10 31.6 264°.03 0°.8/30.9 18

9 28	2 48.28	+13 52.1	1.846	2.701	13.5	21.2
10 8	2 43.06	+13 25.1	1.769	2.694	9.9	20.9
10 18	2 35.72	+12 49.4	1.715	2.687	5.9	20.7
10 28	2 27.01	+12 8.3	1.688	2.680	1.6	20.4
11 7	2 17.94	+11 26.6	1.690	2.673	3.3	20.5
11 17	2 9.57	+10 49.6	1.719	2.666	7.6	20.8
11 27	2 2.85	+10 22.1	1.775	2.659	11.6	21.0
12 7	1 58.44	+10 7.6	1.853	2.652	14.9	21.2

73083 2002 GK_{15} 10 31.6 140°.39 1°.7/30.3 18 R

9 28	2 48.93	+12 8.3	1.802	2.660	13.6	20.1
10 8	2 43.44	+11 28.0	1.737	2.664	9.9	19.9
10 18	2 35.88	+10 40.2	1.696	2.668	5.8	19.6
10 28	2 27.04	+ 9 49.3	1.681	2.672	2.0	19.4
11 7	2 17.97	+ 9 1.0	1.695	2.676	3.9	19.5
11 17	2 9.72	+ 8 20.5	1.737	2.679	8.0	19.8
11 27	2 3.19	+ 7 52.6	1.805	2.682	11.8	20.0
12 7	1 58.96	+ 7 39.8	1.895	2.685	15.0	20.3

199884 2007 EP_{218} 10 31.6 42°.63 6°.3/ 3.7 18

9 28	2 56.25	+26 14.9	1.274	2.106	19.6	19.4
10 8	2 49.80	+27 23.7	1.225	2.124	15.6	19.2
10 18	2 40.04	+28 11.5	1.196	2.143	11.1	19.0
10 28	2 28.19	+28 34.3	1.190	2.162	7.3	18.9
11 7	2 15.98	+28 32.7	1.209	2.182	6.5	18.9
11 17	2 5.19	+28 12.0	1.253	2.203	9.4	19.1
11 27	1 57.25	+27 41.4	1.321	2.224	13.3	19.4
12 7	1 52.87	+27 10.5	1.410	2.246	16.8	19.7

215181 2000 HE_{3} 10 31.6 246°.89 0°.0/31.5 18

9 28	2 48.52	+16 6.9	2.140	2.982	12.3	21.4
10 8	2 43.08	+15 46.7	2.052	2.970	9.2	21.1
10 18	2 35.69	+15 17.2	1.988	2.957	5.5	20.9
10 28	2 27.03	+14 40.5	1.952	2.943	1.5	20.6
11 7	2 17.99	+14 0.5	1.945	2.930	2.6	20.7
11 17	2 9.50	+13 21.6	1.967	2.916	6.7	20.9
11 27	2 2.47	+12 48.8	2.017	2.902	10.4	21.1
12 7	1 57.51	+12 25.8	2.091	2.887	13.6	21.3

514992 2009 HH_{27} 10 31.6 191°.41 0°.3/31.9 18

9 28	2 48.99	+16 44.0	2.266	3.103	11.9	22.3
10 8	2 43.24	+16 29.3	2.188	3.102	8.9	22.1
10 18	2 35.69	+16 5.7	2.133	3.101	5.3	21.8
10 28	2 27.01	+15 35.2	2.107	3.099	1.5	21.6
11 7	2 18.06	+15 1.1	2.111	3.096	2.4	21.6
11 17	2 9.72	+14 27.5	2.145	3.094	6.2	21.9
11 27	2 2.79	+13 58.7	2.206	3.091	9.6	22.1
12 7	1 57.84	+13 38.2	2.292	3.087	12.5	22.3

469460 2002 QP_{74} 10 31.6 80°.61 3°.1/29.8 16

9 28	2 53.18	+ 9 0.1	1.396	2.264	16.2	21.4
10 8	2 46.76	+ 8 21.0	1.353	2.285	11.8	21.2
10 18	2 37.86	+ 7 37.6	1.333	2.306	7.0	21.0
10 28	2 27.56	+ 6 55.7	1.337	2.326	3.2	20.8
11 7	2 17.23	+ 6 21.6	1.369	2.346	5.3	21.0
11 17	2 8.15	+ 6 0.5	1.428	2.366	9.7	21.3
11 27	2 1.34	+ 5 55.7	1.510	2.386	13.7	21.6
12 7	1 57.35	+ 6 7.9	1.613	2.406	17.1	21.8

183874 2004 CR_{43} 10 31.6 122°.93 2°.6/29.7 18

9 28	2 50.84	+10 14.6	1.666	2.527	14.4	20.6
10 8	2 44.87	+ 9 22.3	1.610	2.539	10.5	20.4
10 18	2 36.71	+ 8 23.9	1.578	2.550	6.2	20.2
10 28	2 27.27	+ 7 25.1	1.572	2.561	2.8	20.0
11 7	2 17.68	+ 6 32.1	1.595	2.571	4.7	20.2
11 17	2 9.05	+ 5 50.9	1.645	2.582	8.8	20.4
11 27	2 2.33	+ 5 25.7	1.721	2.591	12.6	20.7
12 7	1 58.06	+ 5 18.0	1.818	2.600	15.8	20.9

121762 1999 YW_{8} 10 31.6 183°.54 4°.2/27.9 18

9 28	2 46.61	+ 1 26.0	2.417	3.273	10.6	20.1
10 8	2 41.28	+ 0 49.1	2.351	3.273	8.0	19.9
10 18	2 34.43	+ 0 14.2	2.311	3.273	5.4	19.7
10 28	2 26.66	− 0 14.4	2.300	3.273	4.2	19.7
11 7	2 18.71	− 0 32.9	2.317	3.272	5.5	19.7
11 17	2 11.33	− 0 38.7	2.363	3.272	8.0	19.9
11 27	2 5.18	− 0 30.2	2.435	3.271	10.6	20.1
12 7	2 0.76	− 0 7.5	2.529	3.271	13.0	20.2

355072 2006 SQ_{241} 10 31.6 46°.27 1°.2/30.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 47.55	+13 23.7	1.686	2.547	14.2	21.3
10 8	2 42.52	+12 49.8	1.627	2.556	10.4	21.1
10 18	2 35.36	+12 7.3	1.591	2.564	6.1	20.8
10 28	2 26.92	+11 20.7	1.581	2.573	1.7	20.6
11 7	2 18.28	+10 35.2	1.599	2.582	3.6	20.7
11 17	2 10.51	+ 9 56.7	1.644	2.591	7.9	21.0
11 27	2 4.54	+ 9 29.8	1.715	2.600	11.8	21.3
12 7	2 0.94	+ 9 17.3	1.808	2.610	15.1	21.5

107793 2001 FG_{54} 10 31.6 146°.95 0°.5/31.1 18

9 28	2 47.60	+16 28.3	2.182	3.024	12.1	19.7
10 8	2 42.14	+15 31.0	2.113	3.032	8.9	19.5
10 18	2 34.98	+14 23.2	2.070	3.039	5.2	19.3
10 28	2 26.80	+13 9.0	2.055	3.047	1.3	19.1
11 7	2 18.49	+11 53.9	2.070	3.053	2.8	19.2
11 17	2 10.88	+10 43.7	2.115	3.060	6.6	19.5
11 27	2 4.73	+ 9 43.8	2.188	3.065	10.0	19.7
12 7	2 0.53	+ 8 57.9	2.284	3.071	12.9	19.9

441931 2010 JS_{43} 10 31.6 123°.10 4°.8/28.3 18

9 28	2 49.99	+ 2 1.9	1.905	2.765	12.8	21.0
10 8	2 44.03	+ 1 23.2	1.848	2.772	9.6	20.8
10 18	2 36.15	+ 0 46.7	1.815	2.779	6.5	20.6
10 28	2 27.12	+ 0 17.7	1.810	2.785	4.8	20.5
11 7	2 17.93	+ 0 0.9	1.832	2.792	6.3	20.6
11 17	2 9.54	− 0 0.7	1.883	2.798	9.3	20.8
11 27	2 2.79	+ 0 14.4	1.958	2.804	12.5	21.0
12 7	1 58.22	+ 0 45.4	2.055	2.809	15.2	21.2

482717 2013 DU_{15} 10 31.6 246°.36 4°.0/27.7 18

9 28	2 46.04	+ 5 50.0	2.132	2.994	11.6	22.4
10 8	2 41.14	+ 4 31.6	2.054	2.981	8.6	22.2
10 18	2 34.49	+ 3 9.4	2.001	2.969	5.6	22.0
10 28	2 26.71	+ 1 49.5	1.976	2.955	4.0	21.9
11 7	2 18.64	+ 0 38.5	1.981	2.942	5.8	22.0
11 17	2 11.13	− 0 18.1	2.014	2.928	8.9	22.2
11 27	2 4.98	− 0 56.2	2.073	2.914	12.0	22.3
12 7	2 0.75	− 1 14.4	2.153	2.899	14.8	22.5

189086 2001 OT_{89} 10 31.6 152°.79 3°.6/29.0 18

9 28	2 51.46	+ 6 28.8	1.850	2.708	13.3	20.5
10 8	2 45.18	+ 5 42.8	1.789	2.715	9.8	20.3
10 18	2 36.86	+ 4 54.5	1.753	2.723	6.1	20.1
10 28	2 27.33	+ 4 9.3	1.745	2.729	3.6	19.9
11 7	2 17.61	+ 3 32.7	1.766	2.735	5.3	20.1
11 17	2 8.74	+ 3 9.0	1.814	2.741	8.9	20.3
11 27	2 1.61	+ 3 1.2	1.888	2.745	12.3	20.5
12 7	1 56.77	+ 3 9.8	1.985	2.749	15.3	20.7

380771 2005 UW_{209} 10 31.6 323°.08 1°.3/ 1.3 18

9 28	2 47.60	+18 18.2	1.285	2.151	17.4	20.6
10 8	2 43.59	+18 15.1	1.205	2.134	13.2	20.3
10 18	2 36.55	+17 56.6	1.146	2.117	8.3	20.0
10 28	2 27.36	+17 24.1	1.110	2.101	2.8	19.6
11 7	2 17.43	+16 42.4	1.099	2.086	3.6	19.6
11 17	2 8.34	+15 58.7	1.113	2.071	9.2	19.9
11 27	2 1.56	+15 21.3	1.150	2.058	14.5	20.2
12 7	1 57.99	+14 57.2	1.207	2.045	19.0	20.4

274175 2008 GC_{65} 10 31.6 87°.62 1°.1/30.9 17

9 28	2 52.76	+13 13.3	1.481	2.340	15.9	21.1
10 8	2 46.52	+12 51.9	1.428	2.356	11.6	20.8
10 18	2 37.78	+12 21.8	1.398	2.371	6.8	20.6
10 28	2 27.58	+11 47.0	1.394	2.386	1.9	20.3
11 7	2 17.22	+11 13.0	1.417	2.401	3.8	20.5
11 17	2 8.00	+10 45.4	1.468	2.415	8.6	20.8
11 27	2 0.96	+10 28.9	1.543	2.430	12.8	21.1
12 7	1 56.70	+10 26.3	1.640	2.444	16.3	21.4

12056 Yoshigeru 10 31.6 97°.36 4°.2/29.0 18

9 28	2 52.99	+ 6 11.2	1.467	2.334	15.6	17.8
10 8	2 46.56	+ 5 21.7	1.421	2.352	11.4	17.6
10 18	2 37.74	+ 4 30.6	1.399	2.369	7.1	17.4
10 28	2 27.55	+ 3 44.6	1.402	2.386	4.3	17.3
11 7	2 17.30	+ 3 10.1	1.432	2.403	6.2	17.5
11 17	2 8.21	+ 2 51.8	1.489	2.419	10.2	17.7
11 27	2 1.30	+ 2 52.3	1.570	2.435	14.0	18.0
12 7	1 57.09	+ 3 11.3	1.672	2.450	17.2	18.3

253602 2003 UE_{20} 10 31.6 55°.08 0°.3/31.5 16

9 28	2 57.38	+13 40.6	1.091	1.961	19.6	20.1
10 8	2 50.29	+13 49.6	1.058	1.990	14.3	19.9
10 18	2 40.07	+13 48.5	1.046	2.019	8.4	19.7
10 28	2 28.15	+13 40.1	1.057	2.048	2.2	19.4
11 7	2 16.34	+13 29.4	1.093	2.078	4.0	19.6
11 17	2 6.27	+13 21.8	1.154	2.108	9.6	20.1
11 27	1 59.15	+13 22.6	1.239	2.138	14.4	20.4
12 7	1 55.47	+13 34.7	1.344	2.168	18.2	20.8

366058 2012 CA_{25} 10 31.6 101°.32 2°.8/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 47.32	+25 42.7	2.331	3.140	12.6	20.9
10 8	2 41.97	+25 28.2	2.261	3.151	9.7	20.7
10 18	2 34.90	+24 59.0	2.214	3.163	6.6	20.5
10 28	2 26.80	+24 16.2	2.195	3.174	3.7	20.4
11 7	2 18.54	+23 22.9	2.205	3.185	3.1	20.3
11 17	2 10.98	+22 23.9	2.244	3.196	5.7	20.5
11 27	2 4.87	+21 24.8	2.311	3.207	8.7	20.7
12 7	2 0.71	+20 31.0	2.403	3.217	11.5	20.9

286908 2002 PE_{73} 10 31.6 26°.94 2°.6/ 2.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.97	+24 52.5	1.310	2.161	18.1	19.5
10 8	2 41.17	+24 4.1	1.257	2.173	13.8	19.3
10 18	2 34.74	+22 51.3	1.224	2.187	9.0	19.0
10 28	2 26.77	+21 18.3	1.215	2.202	4.1	18.8
11 7	2 18.66	+19 33.9	1.232	2.217	3.6	18.8
11 17	2 11.72	+17 49.0	1.274	2.234	8.1	19.1
11 27	2 7.04	+16 14.7	1.342	2.251	12.6	19.4
12 7	2 5.16	+14 58.8	1.431	2.270	16.5	19.7

450747 2007 HH_{59} 10 31.6 153°.22 4°.8/27.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.41	− 2 45.3	2.763	3.610	9.7	21.3
10 8	2 41.65	− 3 19.9	2.705	3.616	7.5	21.2
10 18	2 34.56	− 3 49.9	2.673	3.622	5.6	21.1
10 28	2 26.70	− 4 11.4	2.670	3.628	4.8	21.0
11 7	2 18.74	− 4 21.3	2.696	3.634	5.8	21.1
11 17	2 11.31	− 4 17.8	2.751	3.639	7.9	21.3
11 27	2 5.02	− 4 0.1	2.832	3.644	10.0	21.4
12 7	2 0.26	− 3 28.9	2.936	3.648	11.9	21.6

333063 2011 UQ_{9} 10 31.6 255°.86 0°.1/31.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.22	+17 2.7	1.930	2.777	13.3	21.2
10 8	2 42.21	+16 30.7	1.854	2.775	9.8	21.0
10 18	2 35.20	+15 47.5	1.803	2.772	5.9	20.8
10 28	2 26.93	+14 56.0	1.778	2.769	1.6	20.5
11 7	2 18.36	+14 1.0	1.782	2.767	2.8	20.6
11 17	2 10.50	+13 8.3	1.814	2.764	7.0	20.8
11 27	2 4.24	+12 23.6	1.873	2.761	10.8	21.0
12 7	2 0.17	+11 50.9	1.955	2.759	14.1	21.3

217151 2002 NX_{52} 10 31.6 109°.12 3°.7/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 53.28	+ 7 13.6	1.652	2.512	14.5	21.1
10 8	2 46.52	+ 6 19.6	1.607	2.534	10.6	20.9
10 18	2 37.62	+ 5 23.2	1.586	2.556	6.5	20.7
10 28	2 27.53	+ 4 30.3	1.591	2.576	3.7	20.6
11 7	2 17.42	+ 3 47.2	1.626	2.596	5.6	20.8
11 17	2 8.40	+ 3 18.7	1.688	2.616	9.3	21.0
11 27	2 1.37	+ 3 7.4	1.775	2.634	12.9	21.3
12 7	1 56.83	+ 3 13.8	1.883	2.652	15.8	21.6

67465 2000 QL_{209} 10 31.6 86°.89 0°.3/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 54.53	+17 42.8	1.351	2.205	17.5	20.1
10 8	2 47.91	+17 11.5	1.306	2.229	12.9	19.9
10 18	2 38.61	+16 25.7	1.282	2.252	7.7	19.7
10 28	2 27.80	+15 29.4	1.284	2.275	2.2	19.4
11 7	2 16.98	+14 29.6	1.312	2.298	3.4	19.5
11 17	2 7.53	+13 34.1	1.368	2.320	8.6	19.9
11 27	2 0.55	+12 50.1	1.448	2.341	13.0	20.2
12 7	1 56.57	+12 21.8	1.549	2.363	16.7	20.5

487769 2015 RQ_{205} 10 31.6 319°.54 1°.7/30.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.01	+11 21.7	1.931	2.789	12.8	21.4
10 8	2 42.01	+10 50.0	1.859	2.787	9.4	21.2
10 18	2 35.06	+10 12.1	1.811	2.784	5.5	21.0
10 28	2 26.89	+ 9 31.9	1.791	2.781	2.0	20.7
11 7	2 18.44	+ 8 54.2	1.799	2.779	3.7	20.8
11 17	2 10.67	+ 8 23.6	1.835	2.777	7.6	21.1
11 27	2 4.46	+ 8 4.2	1.897	2.774	11.3	21.3
12 7	2 0.37	+ 7 58.3	1.981	2.772	14.4	21.5

219212 1999 VD_{76} 10 31.6 196°.48 0°.5/31.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.74	+15 29.6	1.674	2.526	14.7	21.4
10 8	2 45.05	+14 52.8	1.601	2.525	10.9	21.1
10 18	2 37.00	+14 4.4	1.552	2.523	6.5	20.9
10 28	2 27.44	+13 8.1	1.529	2.520	1.7	20.5
11 7	2 17.53	+12 9.9	1.534	2.518	3.4	20.7
11 17	2 8.47	+11 16.3	1.567	2.515	8.1	20.9
11 27	2 1.33	+10 33.8	1.626	2.511	12.4	21.2
12 7	1 56.75	+10 6.4	1.707	2.507	15.9	21.4

278110 2007 BN_{81} 10 31.6 193°.03 1°.8/30.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.04	+11 49.1	1.951	2.803	12.9	22.2
10 8	2 44.20	+11 3.0	1.877	2.802	9.5	21.9
10 18	2 36.35	+10 9.5	1.828	2.800	5.6	21.7
10 28	2 27.25	+ 9 12.9	1.807	2.797	2.0	21.5
11 7	2 17.86	+ 8 18.7	1.815	2.794	3.9	21.6
11 17	2 9.20	+ 7 32.4	1.851	2.790	7.8	21.8
11 27	2 2.16	+ 6 58.8	1.914	2.785	11.5	22.0
12 7	1 57.32	+ 6 40.4	2.000	2.780	14.7	22.2

487274 2014 PR_{63} 10 31.6 74°.55 5°.6/ 5.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 50.09	+31 53.6	2.133	2.915	14.4	21.7
10 8	2 44.37	+32 17.4	2.061	2.924	11.8	21.5
10 18	2 36.51	+32 22.5	2.011	2.933	8.9	21.4
10 28	2 27.29	+32 7.4	1.987	2.942	6.5	21.2
11 7	2 17.78	+31 33.5	1.989	2.951	5.6	21.2
11 17	2 9.05	+30 44.9	2.019	2.960	7.1	21.3
11 27	2 2.05	+29 48.3	2.077	2.970	9.7	21.5
12 7	1 57.40	+28 50.7	2.158	2.979	12.3	21.7

295447 2008 OW_{20} 10 31.6 72°.84 1°.1/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.42	+13 9.6	2.240	3.092	11.5	21.2
10 8	2 40.53	+12 32.3	2.176	3.101	8.4	21.0
10 18	2 34.05	+11 48.4	2.137	3.109	4.9	20.8
10 28	2 26.61	+11 1.4	2.126	3.118	1.5	20.6
11 7	2 19.03	+10 15.7	2.145	3.127	3.0	20.7
11 17	2 12.08	+ 9 35.4	2.192	3.135	6.5	21.0
11 27	2 6.48	+ 9 4.6	2.267	3.144	9.7	21.2
12 7	2 2.70	+ 8 45.7	2.365	3.153	12.4	21.4

102861 1999 WZ_{2} 10 31.6 205°.80 2°.1/30.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.78	+10 32.9	1.689	2.547	14.3	19.8
10 8	2 45.78	+10 2.2	1.617	2.544	10.5	19.5
10 18	2 37.43	+ 9 25.2	1.568	2.541	6.3	19.3
10 28	2 27.56	+ 8 46.3	1.547	2.537	2.4	19.0
11 7	2 17.33	+ 8 10.8	1.553	2.532	4.4	19.2
11 17	2 7.92	+ 7 43.9	1.587	2.528	8.7	19.4
11 27	2 0.38	+ 7 30.0	1.647	2.522	12.8	19.6
12 7	1 55.40	+ 7 31.4	1.728	2.517	16.3	19.9

47289 1999 VD_{188} 10 31.6 154°.58 3°.0/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.33	+ 8 24.8	1.609	2.471	14.7	19.5
10 8	2 46.16	+ 7 51.9	1.546	2.475	10.8	19.3
10 18	2 37.62	+ 7 15.0	1.507	2.479	6.5	19.1
10 28	2 27.60	+ 6 39.0	1.494	2.482	3.1	18.9
11 7	2 17.31	+ 6 9.6	1.509	2.485	5.1	19.0
11 17	2 7.96	+ 5 51.5	1.551	2.488	9.2	19.2
11 27	2 0.59	+ 5 48.3	1.619	2.490	13.2	19.5
12 7	1 55.83	+ 6 1.0	1.707	2.492	16.6	19.7

356076 2009 DD_{97} 10 31.6 131°.36 4°.0/28.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.39	+ 5 5.5	2.045	2.907	12.0	21.2
10 8	2 42.05	+ 4 4.5	1.987	2.914	8.9	21.0
10 18	2 34.97	+ 3 2.3	1.954	2.922	5.7	20.8
10 28	2 26.87	+ 2 4.6	1.949	2.929	4.0	20.7
11 7	2 18.62	+ 1 16.9	1.973	2.936	5.6	20.9
11 17	2 11.08	+ 0 43.5	2.024	2.942	8.6	21.1
11 27	2 5.03	+ 0 27.1	2.102	2.949	11.7	21.3
12 7	2 0.96	+ 0 28.1	2.201	2.955	14.3	21.5

434229 2003 SG_{273} 10 31.6 37°.53 4°.3/ 3.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.22	+24 42.6	1.163	2.013	20.0	19.7
10 8	2 46.59	+24 58.1	1.130	2.043	15.4	19.6
10 18	2 37.95	+24 50.4	1.116	2.074	10.3	19.4
10 28	2 27.65	+24 20.6	1.125	2.107	5.6	19.2
11 7	2 17.40	+23 34.0	1.158	2.140	4.8	19.3
11 17	2 8.75	+22 39.3	1.216	2.174	8.6	19.6
11 27	2 2.86	+21 46.3	1.298	2.208	12.9	19.9
12 7	2 0.21	+21 2.8	1.401	2.243	16.6	20.3

167175 2003 SO_{266} 10 31.6 80°.80 0°.9/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 53.22	+18 9.4	1.750	2.590	14.8	20.4
10 8	2 46.48	+17 58.4	1.703	2.618	10.9	20.2
10 18	2 37.60	+17 35.7	1.680	2.646	6.6	20.0
10 28	2 27.55	+17 3.7	1.683	2.674	2.2	19.8
11 7	2 17.49	+16 26.7	1.716	2.701	2.8	19.9
11 17	2 8.50	+15 50.0	1.776	2.728	7.0	20.2
11 27	2 1.49	+15 19.0	1.864	2.754	10.8	20.5
12 7	1 56.96	+14 57.6	1.975	2.780	13.9	20.8

220772 2004 TJ_{131} 10 31.6 313°.48 1°.8/30.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.24	+10 39.8	1.936	2.797	12.6	19.7
10 8	2 41.57	+10 15.4	1.853	2.781	9.3	19.5
10 18	2 34.90	+ 9 45.5	1.793	2.766	5.5	19.2
10 28	2 26.90	+ 9 13.6	1.760	2.750	2.1	19.0
11 7	2 18.49	+ 8 44.2	1.755	2.735	3.8	19.1
11 17	2 10.65	+ 8 21.7	1.778	2.721	7.8	19.3
11 27	2 4.31	+ 8 10.0	1.827	2.706	11.6	19.5
12 7	2 0.10	+ 8 11.6	1.898	2.692	14.8	19.7

134133 2005 AP_{13} 10 31.6 330°.70 1°.7/ 1.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.75	+19 35.1	1.889	2.732	13.7	19.8
10 8	2 42.08	+19 38.9	1.806	2.720	10.4	19.5
10 18	2 35.26	+19 31.1	1.745	2.710	6.6	19.3
10 28	2 27.01	+19 12.5	1.711	2.699	2.7	19.0
11 7	2 18.31	+18 46.0	1.704	2.689	2.9	19.0
11 17	2 10.23	+18 16.0	1.725	2.680	6.8	19.2
11 27	2 3.77	+17 47.8	1.773	2.671	10.7	19.5
12 7	1 59.61	+17 26.3	1.843	2.663	14.2	19.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
129002 2004 TR_{256}			10 31.6 326°.25		1°.7/ 2.1 18	
	h m	° ′			°	m
9 28	2 44.82	+20 33.5	2.558	3.386	11.0	20.1
10 8	2 40.21	+20 42.0	2.464	3.370	8.4	19.9
10 18	2 33.97	+20 41.3	2.395	3.354	5.4	19.7
10 28	2 26.64	+20 32.0	2.353	3.339	2.5	19.4
11 7	2 18.96	+20 15.7	2.340	3.324	2.4	19.4
11 17	2 11.69	+19 55.4	2.357	3.309	5.4	19.6
11 27	2 5.59	+19 34.8	2.401	3.295	8.5	19.8
12 7	2 1.21	+19 17.6	2.470	3.281	11.3	19.9
162123 1998 SW_{67}			10 31.6 85°.36		2°.9/ 3.2 18	
9 28	2 49.61	+25 56.0	1.816	2.635	15.2	20.1
10 8	2 43.97	+25 22.6	1.756	2.653	11.7	20.0
10 18	2 36.19	+24 30.1	1.719	2.672	7.8	19.8
10 28	2 27.20	+23 20.6	1.708	2.690	4.1	19.6
11 7	2 18.12	+21 59.5	1.725	2.708	3.4	19.6
11 17	2 10.03	+20 34.3	1.771	2.726	6.7	19.8
11 27	2 3.83	+19 13.0	1.844	2.743	10.4	20.1
12 7	2 0.04	+18 2.6	1.941	2.760	13.6	20.3
448366 2009 HF_{60}			10 31.6 232°.20		18°.4/26.9 15	
9 28	3 9.56	−24 32.1	1.146	1.954	22.9	20.9
10 8	2 59.75	−25 18.3	1.100	1.950	20.7	20.8
10 18	2 46.00	−25 26.8	1.070	1.945	19.0	20.7
10 28	2 29.87	−24 43.4	1.059	1.940	18.4	20.6
11 7	2 13.54	−23 2.7	1.070	1.935	19.3	20.7
11 17	1 59.15	−20 29.3	1.101	1.929	21.4	20.8
11 27	1 48.29	−17 15.9	1.152	1.924	23.9	20.9
12 7	1 41.61	−13 38.2	1.221	1.917	26.3	21.1
12939 4206 *P–L*			10 31.6 63°.27		7°.5/ 4.8 18	
9 28	2 58.02	+30 4.5	1.325	2.137	20.1	17.8
10 8	2 51.19	+31 9.1	1.274	2.156	16.3	17.6
10 18	2 40.95	+31 49.1	1.242	2.175	12.2	17.4
10 28	2 28.54	+31 59.9	1.232	2.195	8.6	17.3
11 7	2 15.77	+31 42.1	1.248	2.214	7.6	17.3
11 17	2 4.45	+31 1.8	1.289	2.234	9.8	17.4
11 27	1 56.06	+30 9.6	1.354	2.253	13.3	17.7
12 7	1 51.32	+29 16.7	1.440	2.273	16.7	18.0
136024 2002 VK_{87}			10 31.6 45°.11		2°.6/ 2.7 18	
9 28	2 47.89	+23 36.0	1.690	2.524	15.4	18.9
10 8	2 42.95	+23 18.6	1.625	2.533	11.8	18.7
10 18	2 35.74	+22 43.5	1.583	2.541	7.8	18.5
10 28	2 27.12	+21 52.6	1.565	2.550	3.8	18.3
11 7	2 18.28	+20 50.4	1.575	2.560	3.3	18.3
11 17	2 10.35	+19 43.9	1.613	2.569	7.1	18.5
11 27	2 4.34	+18 40.8	1.677	2.579	11.0	18.8
12 7	2 0.82	+17 47.6	1.764	2.589	14.5	19.0
459321 2012 HX_{8}			10 31.6 13°.62		6°.1/26.7 18	
9 28	2 46.17	− 2 53.5	2.088	2.948	11.9	20.3
10 8	2 41.17	− 3 41.1	2.031	2.950	9.2	20.1
10 18	2 34.48	− 4 22.9	1.999	2.952	6.9	20.0
10 28	2 26.77	− 4 53.5	1.994	2.953	6.1	19.9
11 7	2 18.90	− 5 8.3	2.016	2.956	7.4	20.0
11 17	2 11.69	− 5 4.8	2.065	2.958	9.9	20.2
11 27	2 5.89	− 4 42.4	2.138	2.961	12.4	20.3
12 7	2 2.00	− 4 2.5	2.232	2.964	14.7	20.5
6453 1991 *NY*			10 31.6 51°.92		1°.4/30.7 18	
9 28	2 51.86	+14 44.5	1.284	2.150	17.4	16.8
10 8	2 45.74	+13 43.5	1.256	2.188	12.5	16.6
10 18	2 37.19	+12 31.8	1.251	2.225	7.2	16.5
10 28	2 27.44	+11 16.7	1.271	2.263	2.0	16.2
11 7	2 17.91	+10 6.7	1.317	2.300	4.2	16.5
11 17	2 9.85	+ 9 9.2	1.390	2.338	9.0	16.9
11 27	2 4.16	+ 8 29.4	1.488	2.375	13.2	17.2
12 7	2 1.24	+ 8 9.2	1.606	2.412	16.5	17.5
219184 1999 TX_{210}			10 31.6 318°.10		7°.1/ 5.1 18	
9 28	2 49.64	+31 57.8	1.851	2.643	16.0	19.2
10 8	2 44.82	+32 50.4	1.749	2.616	13.3	19.0
10 18	2 37.27	+33 25.0	1.668	2.589	10.5	18.7
10 28	2 27.66	+33 37.3	1.611	2.563	8.0	18.5
11 7	2 17.15	+33 25.9	1.579	2.538	7.2	18.4
11 17	2 7.12	+32 53.1	1.573	2.513	8.9	18.5
11 27	1 58.95	+32 5.3	1.593	2.488	12.0	18.6
12 7	1 53.61	+31 11.5	1.635	2.464	15.2	18.8
499921 2011 HC_{8}			10 31.6 89°.55		3°.1/29.1 18	
9 28	2 50.07	+17 49.0	1.080	1.954	19.4	20.2
10 8	2 45.16	+15 0.7	1.028	1.965	14.1	19.9
10 18	2 37.21	+11 46.3	0.998	1.975	8.1	19.6
10 28	2 27.51	+ 8 21.6	0.995	1.985	3.2	19.4
11 7	2 17.74	+ 5 7.5	1.018	1.995	6.7	19.6
11 17	2 9.45	+ 2 22.6	1.068	2.005	12.4	20.0
11 27	2 3.84	+ 0 18.5	1.141	2.015	17.4	20.3
12 7	2 1.43	− 1 2.5	1.232	2.025	21.3	20.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
454061 2012 JD_{25}			10 31.6 244°.27		0°.1/31.5 17	
	h m	° ′			°	m
9 28	2 45.43	+16 43.8	2.789	3.623	10.0	22.2
10 8	2 40.45	+16 2.1	2.692	3.606	7.4	22.0
10 18	2 34.02	+15 11.5	2.621	3.589	4.4	21.8
10 28	2 26.67	+14 14.5	2.580	3.571	1.2	21.5
11 7	2 19.05	+13 14.8	2.569	3.553	2.2	21.6
11 17	2 11.84	+12 16.5	2.589	3.534	5.5	21.8
11 27	2 5.70	+11 24.1	2.638	3.515	8.5	21.9
12 7	2 1.12	+10 41.1	2.712	3.496	11.1	22.1
405254 2003 SR_{264}			10 31.6 325°.94		0°.8/ 1.2 17	
9 28	2 48.84	+16 25.2	2.051	2.893	12.8	20.3
10 8	2 43.43	+16 37.7	1.969	2.886	9.6	20.1
10 18	2 36.01	+16 42.3	1.912	2.879	5.9	19.9
10 28	2 27.24	+16 40.0	1.881	2.872	1.9	19.6
11 7	2 18.08	+16 33.1	1.880	2.865	2.6	19.6
11 17	2 9.50	+16 24.7	1.907	2.859	6.6	19.9
11 27	2 2.45	+16 18.7	1.961	2.853	10.2	20.1
12 7	1 57.56	+16 18.5	2.039	2.847	13.4	20.3
445369 2010 OP_{126}			10 31.6 97°.13		6°.3/ 6.2 18	
9 28	2 55.14	+34 31.4	2.221	2.977	14.7	21.2
10 8	2 47.98	+35 6.6	2.160	3.001	12.1	21.1
10 18	2 38.62	+35 21.8	2.120	3.025	9.5	21.0
10 28	2 27.92	+35 15.0	2.106	3.048	7.2	20.9
11 7	2 17.01	+34 47.2	2.120	3.071	6.3	20.9
11 17	2 7.03	+34 2.2	2.162	3.093	7.4	21.0
11 27	1 58.94	+33 6.9	2.232	3.114	9.6	21.1
12 7	1 53.33	+32 8.8	2.326	3.135	11.9	21.3
298143 2002 SN_{25}			10 31.6 347°.98		2°.5/30.2 18	
9 28	2 46.34	+10 7.0	1.387	2.265	15.7	19.6
10 8	2 42.22	+ 9 42.1	1.320	2.256	11.5	19.4
10 18	2 35.53	+ 9 11.1	1.274	2.249	6.9	19.1
10 28	2 27.15	+ 8 38.9	1.253	2.243	2.7	18.8
11 7	2 18.32	+ 8 11.4	1.257	2.238	4.9	19.0
11 17	2 10.36	+ 7 54.2	1.287	2.234	9.6	19.2
11 27	2 4.44	+ 7 51.9	1.340	2.231	14.1	19.5
12 7	2 1.28	+ 8 6.4	1.413	2.229	17.9	19.7
513722 2012 TK_{38}			10 31.6 229°.73		2°.1/ 2.2 18	
9 28	2 50.32	+21 45.5	1.805	2.638	14.7	21.7
10 8	2 44.79	+21 34.2	1.724	2.632	11.2	21.5
10 18	2 36.92	+21 7.6	1.666	2.626	7.3	21.2
10 28	2 27.51	+20 26.9	1.633	2.620	3.2	21.0
11 7	2 17.67	+19 35.7	1.629	2.613	3.1	21.0
11 17	2 8.60	+18 40.0	1.653	2.607	7.2	21.2
11 27	2 1.34	+17 46.8	1.703	2.600	11.2	21.4
12 7	1 56.60	+17 2.4	1.777	2.592	14.8	21.6
42301 2001 UR_{163}			10 31.6 80°.54		0°.0/31.9 16	
9 28	2 25.99	+15 15.6	52.632	53.465	0.6	21.5
10 8	2 25.43	+15 13.0	52.558	53.471	0.4	21.4
10 18	2 24.82	+15 10.1	52.511	53.478	0.3	21.4
10 28	2 24.19	+15 7.0	52.493	53.484	0.1	21.4
11 7	2 23.54	+15 3.8	52.506	53.491	0.1	21.4
11 17	2 22.91	+15 0.6	52.549	53.498	0.3	21.4
11 27	2 22.32	+14 57.6	52.621	53.504	0.5	21.4
12 7	2 21.79	+14 54.9	52.721	53.511	0.6	21.5
241884 2001 VB_{34}			10 31.6 354°.06		2°.4/ 2.6 18	
9 28	2 45.23	+23 37.1	1.656	2.496	15.4	19.6
10 8	2 41.15	+23 8.6	1.582	2.493	11.9	19.4
10 18	2 34.77	+22 21.1	1.530	2.490	7.8	19.2
10 28	2 26.92	+21 16.7	1.502	2.488	3.6	18.9
11 7	2 18.74	+20 0.7	1.502	2.487	3.2	18.9
11 17	2 11.38	+18 40.8	1.529	2.486	7.3	19.1
11 27	2 5.86	+17 25.4	1.581	2.486	11.4	19.4
12 7	2 2.84	+16 21.8	1.657	2.486	15.0	19.6
169913 2002 RL_{272}			10 31.6 308°.26		1°.2/30.8 18	
9 28	2 47.02	+13 34.2	1.676	2.538	14.2	20.6
10 8	2 42.41	+12 58.3	1.598	2.527	10.5	20.4
10 18	2 35.53	+12 12.6	1.543	2.516	6.2	20.1
10 28	2 27.14	+11 21.2	1.514	2.505	1.8	19.8
11 7	2 18.33	+10 29.9	1.512	2.495	3.7	19.9
11 17	2 10.23	+ 9 44.9	1.538	2.485	8.3	20.2
11 27	2 3.90	+ 9 11.9	1.588	2.475	12.5	20.4
12 7	2 0.01	+ 8 54.6	1.661	2.465	16.1	20.6
472759 2015 FX_{116}			10 31.6 303°.56		2°.5/ 2.0 18	
9 28	2 51.15	+20 50.7	1.343	2.195	17.7	21.3
10 8	2 46.15	+20 57.6	1.267	2.185	13.6	21.0
10 18	2 38.08	+20 47.7	1.211	2.176	8.8	20.7
10 28	2 27.88	+20 21.0	1.180	2.167	3.9	20.4
11 7	2 17.01	+19 41.2	1.173	2.159	3.8	20.4
11 17	2 7.08	+18 55.1	1.193	2.150	8.9	20.6
11 27	1 59.54	+18 11.5	1.236	2.142	13.8	20.9
12 7	1 55.24	+17 37.9	1.300	2.134	18.1	21.2

247841 2003 SQ_{283} 10 31.6 336°.83 9°.8/ 7.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 49.28	+39 17.2	1.815	2.570	17.5	19.5
10 8	2 44.73	+40 23.2	1.727	2.555	15.3	19.3
10 18	2 37.27	+41 5.7	1.658	2.541	12.9	19.1
10 28	2 27.68	+41 19.1	1.610	2.529	10.8	18.9
11 7	2 17.28	+41 1.3	1.586	2.516	9.8	18.8
11 17	2 7.59	+40 14.6	1.587	2.505	10.5	18.9
11 27	2 0.06	+39 6.6	1.611	2.495	12.6	19.0
12 7	1 55.61	+37 47.8	1.658	2.485	15.1	19.1

512777 2016 UR_{66} 10 31.6 75°.53 4°.0/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.71	+ 6 7.6	1.582	2.449	14.6	20.9
10 8	2 44.81	+ 5 22.8	1.536	2.466	10.7	20.7
10 18	2 36.73	+ 4 36.7	1.513	2.483	6.7	20.5
10 28	2 27.41	+ 3 55.4	1.516	2.500	4.0	20.4
11 7	2 18.00	+ 3 24.6	1.547	2.517	5.8	20.5
11 17	2 9.63	+ 3 8.5	1.605	2.534	9.6	20.8
11 27	2 3.22	+ 3 9.7	1.687	2.551	13.2	21.0
12 7	1 59.29	+ 3 27.9	1.790	2.568	16.2	21.3

258774 2002 JQ_{61} 10 31.6 74°.56 4°.6/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 53.08	+ 5 38.1	1.314	2.187	16.7	19.7
10 8	2 46.89	+ 4 53.8	1.271	2.204	12.3	19.5
10 18	2 38.08	+ 4 8.9	1.250	2.221	7.7	19.3
10 28	2 27.78	+ 3 30.2	1.254	2.238	4.7	19.1
11 7	2 17.40	+ 3 4.4	1.284	2.255	6.7	19.3
11 17	2 8.30	+ 2 55.9	1.339	2.271	10.8	19.6
11 27	2 1.55	+ 3 6.9	1.418	2.288	14.8	19.9
12 7	1 57.71	+ 3 36.5	1.517	2.305	18.2	20.2

310833 2002 XT_{38} 10 31.6 342°.84 0°.5/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 54.13	+ 9 33.7	1.274	2.145	17.3	19.2
10 8	2 48.56	+10 37.1	1.195	2.127	13.0	18.9
10 18	2 39.68	+11 42.3	1.138	2.112	7.8	18.6
10 28	2 28.37	+12 49.2	1.105	2.097	2.1	18.2
11 7	2 16.11	+13 57.0	1.099	2.084	3.9	18.3
11 17	2 4.65	+15 5.3	1.118	2.073	9.7	18.6
11 27	1 55.61	+16 14.9	1.162	2.063	14.9	18.8
12 7	1 50.03	+17 27.3	1.226	2.055	19.3	19.1

141678 2002 JM_{111} 10 31.6 87°.14 3°.2/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 54.58	+24 3.7	1.450	2.282	17.6	19.8
10 8	2 48.05	+23 57.6	1.399	2.304	13.5	19.6
10 18	2 38.81	+23 31.6	1.368	2.325	8.9	19.4
10 28	2 27.98	+22 46.8	1.363	2.346	4.5	19.2
11 7	2 17.04	+21 48.5	1.384	2.367	3.9	19.2
11 17	2 7.41	+20 44.4	1.432	2.387	7.9	19.5
11 27	2 0.21	+19 43.4	1.506	2.407	12.1	19.8
12 7	1 56.01	+18 52.9	1.603	2.427	15.7	20.1

263320 2008 CV_{44} 10 31.6 212°.95 3°.0/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.25	+23 53.6	2.183	2.997	13.1	20.9
10 8	2 44.44	+24 7.1	2.100	2.995	10.2	20.7
10 18	2 36.60	+24 7.4	2.041	2.992	6.9	20.5
10 28	2 27.43	+23 54.5	2.008	2.988	3.8	20.3
11 7	2 17.88	+23 30.0	2.005	2.985	3.4	20.3
11 17	2 8.96	+22 57.6	2.030	2.982	6.3	20.5
11 27	2 1.58	+22 22.8	2.084	2.978	9.6	20.7
12 7	1 56.38	+21 50.7	2.161	2.974	12.6	20.9

352875 2008 XO_{43} 10 31.6 354°.48 0°.3/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.12	+14 13.6	1.317	2.189	16.7	20.1
10 8	2 43.70	+14 10.1	1.252	2.185	12.4	19.8
10 18	2 36.49	+13 56.7	1.207	2.181	7.4	19.5
10 28	2 27.44	+13 36.4	1.186	2.178	2.0	19.2
11 7	2 17.90	+13 13.9	1.191	2.177	3.7	19.3
11 17	2 9.34	+12 55.0	1.221	2.176	9.0	19.6
11 27	2 3.00	+12 45.3	1.275	2.176	13.8	19.9
12 7	1 59.65	+12 48.7	1.349	2.177	17.9	20.2

235764 2004 VN_{11} 10 31.6 346°.25 2°.0/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.00	+11 50.8	1.321	2.198	16.3	20.2
10 8	2 42.83	+11 21.3	1.254	2.191	12.0	19.9
10 18	2 35.95	+10 43.0	1.209	2.185	7.1	19.6
10 28	2 27.29	+10 0.8	1.188	2.180	2.4	19.3
11 7	2 18.17	+ 9 21.4	1.193	2.175	4.6	19.5
11 17	2 9.98	+ 8 51.6	1.222	2.172	9.7	19.8
11 27	2 3.95	+ 8 36.8	1.275	2.169	14.4	20.0
12 7	2 0.83	+ 8 39.9	1.347	2.167	18.4	20.3

321070 2008 SM_{58} 10 31.6 115°.83 0°.3/31.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.93	+13 36.5	4.383	5.220	6.6	21.1
10 8	2 35.97	+13 24.8	4.304	5.221	4.8	21.0
10 18	2 31.19	+13 9.8	4.253	5.221	2.8	20.8
10 28	2 25.93	+12 52.9	4.230	5.222	0.7	20.6
11 7	2 20.55	+12 35.7	4.239	5.223	1.5	20.7
11 17	2 15.44	+12 19.8	4.279	5.223	3.5	20.9
11 27	2 10.96	+12 7.0	4.348	5.224	5.5	21.0
12 7	2 7.39	+11 58.8	4.443	5.224	7.1	21.2

383115 2005 SW_{256} 10 31.6 346°.27 0°.0/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 47.97	+14 32.8	1.126	2.007	18.3	19.9
10 8	2 44.07	+14 41.2	1.060	1.997	13.7	19.6
10 18	2 36.95	+14 38.9	1.013	1.988	8.3	19.3
10 28	2 27.61	+14 28.2	0.988	1.980	2.3	18.9
11 7	2 17.59	+14 13.7	0.988	1.974	3.9	19.0
11 17	2 8.60	+14 1.5	1.011	1.969	9.9	19.3
11 27	2 2.15	+13 57.8	1.056	1.965	15.3	19.6
12 7	1 59.13	+14 7.1	1.120	1.963	19.8	19.9

351023 2003 SH_{38} 10 31.6 54°.66 4°.9/ 4.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.53	+28 20.3	1.484	2.305	17.9	20.3
10 8	2 45.85	+28 23.9	1.435	2.327	14.1	20.1
10 18	2 37.52	+28 4.4	1.405	2.350	10.0	19.9
10 28	2 27.65	+27 22.0	1.399	2.373	6.2	19.8
11 7	2 17.67	+26 21.0	1.419	2.396	5.1	19.8
11 17	2 8.94	+25 9.2	1.466	2.420	7.9	20.0
11 27	2 2.55	+23 56.4	1.538	2.443	11.6	20.3
12 7	1 59.08	+22 51.1	1.633	2.467	15.0	20.6

158206 2001 SL_{52} 10 31.6 339°.11 4°.7/28.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.14	+ 7 16.5	1.290	2.174	16.2	19.2
10 8	2 42.18	+ 6 9.1	1.227	2.166	12.0	18.9
10 18	2 35.55	+ 4 55.9	1.185	2.159	7.5	18.7
10 28	2 27.18	+ 3 45.4	1.168	2.152	4.7	18.5
11 7	2 18.39	+ 2 46.9	1.175	2.147	7.1	18.6
11 17	2 10.55	+ 2 8.0	1.207	2.141	11.5	18.9
11 27	2 4.85	+ 1 53.3	1.261	2.137	15.9	19.1
12 7	2 2.00	+ 2 3.6	1.334	2.133	19.6	19.4

311786 2006 UW_{62} 10 31.6 18°.08 5°.0/ 4.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.94	+27 3.1	1.286	2.130	18.8	20.0
10 8	2 42.17	+27 11.6	1.232	2.139	14.8	19.7
10 18	2 35.56	+26 56.0	1.197	2.150	10.4	19.5
10 28	2 27.17	+26 16.3	1.185	2.162	6.3	19.3
11 7	2 18.48	+25 17.2	1.196	2.176	5.2	19.3
11 17	2 10.97	+24 7.0	1.233	2.191	8.5	19.5
11 27	2 5.84	+22 56.3	1.293	2.207	12.6	19.8
12 7	2 3.74	+21 54.1	1.374	2.224	16.4	20.1

168158 2006 HQ_{49} 10 31.6 117°.90 7°.2/26.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.44	− 5 0.0	1.934	2.788	13.0	19.8
10 8	2 44.31	− 5 57.4	1.889	2.800	10.2	19.7
10 18	2 36.35	− 6 46.5	1.867	2.812	7.9	19.6
10 28	2 27.32	− 7 20.9	1.872	2.823	7.2	19.5
11 7	2 18.22	− 7 36.0	1.904	2.833	8.5	19.6
11 17	2 9.95	− 7 29.4	1.963	2.844	10.9	19.8
11 27	2 3.34	− 7 1.5	2.046	2.854	13.4	20.0
12 7	1 58.85	− 6 14.7	2.148	2.864	15.7	20.2

364988 2008 JZ_{10} 10 31.6 23°.74 6°.5/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.76	− 1 54.2	1.795	2.663	13.2	20.2
10 8	2 41.82	− 2 47.8	1.744	2.667	10.2	20.0
10 18	2 34.96	− 3 35.7	1.717	2.673	7.5	19.8
10 28	2 26.97	− 4 11.3	1.715	2.678	6.5	19.8
11 7	2 18.81	− 4 29.4	1.740	2.685	8.0	19.9
11 17	2 11.45	− 4 27.2	1.791	2.691	10.7	20.1
11 27	2 5.72	− 4 4.0	1.866	2.698	13.6	20.3
12 7	2 2.13	− 3 21.8	1.960	2.705	16.1	20.5

353117 2009 FE_{24} 10 31.6 174°.08 0°.8/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.97	+17 36.9	2.260	3.091	12.2	21.3
10 8	2 44.76	+17 36.6	2.183	3.093	9.1	21.1
10 18	2 36.69	+17 27.4	2.131	3.095	5.6	20.8
10 28	2 27.45	+17 10.6	2.107	3.097	1.9	20.6
11 7	2 17.93	+16 48.8	2.112	3.098	2.4	20.6
11 17	2 9.04	+16 25.5	2.148	3.098	6.1	20.9
11 27	2 1.62	+16 4.8	2.212	3.098	9.5	21.1
12 7	1 56.23	+15 50.5	2.300	3.098	12.4	21.3

522146 2016 AH_{249} 10 31.6 328°.81 2°.9/ 3.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.51	+25 17.9	1.970	2.795	13.9	20.6
10 8	2 40.43	+24 56.7	1.883	2.783	10.9	20.4
10 18	2 34.30	+24 18.0	1.817	2.771	7.4	20.1
10 28	2 26.84	+23 22.6	1.778	2.760	4.0	19.9
11 7	2 19.00	+22 14.5	1.766	2.749	3.3	19.9
11 17	2 11.80	+20 59.6	1.783	2.739	6.6	20.0
11 27	2 6.17	+19 45.5	1.826	2.729	10.2	20.2
12 7	2 2.74	+18 38.9	1.893	2.719	13.6	20.4

81786 2000 JT_{79} 10 31.6 226°.58 6°.2/26.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.94	− 2 58.9	2.210	3.065	11.5	20.2
10 8	2 42.50	− 3 59.6	2.142	3.057	9.0	20.0
10 18	2 35.33	− 4 55.8	2.099	3.048	6.9	19.8
10 28	2 27.10	− 5 41.4	2.084	3.040	6.2	19.8
11 7	2 18.61	− 6 11.4	2.097	3.031	7.5	19.9
11 17	2 10.71	− 6 22.5	2.137	3.021	10.0	20.0
11 27	2 4.17	− 6 13.4	2.201	3.011	12.6	20.2
12 7	1 59.52	− 5 45.2	2.286	3.001	14.9	20.3

132368 2002 GT_{68} 10 31.6 162°.41 6°.3/26.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 48.21	− 1 50.7	2.052	2.910	12.1	20.3
10 8	2 42.70	− 3 7.8	1.997	2.915	9.4	20.1
10 18	2 35.43	− 4 20.6	1.967	2.919	7.1	20.0
10 28	2 27.11	− 5 22.4	1.965	2.922	6.3	20.0
11 7	2 18.64	− 6 7.3	1.990	2.925	7.8	20.1
11 17	2 10.87	− 6 31.7	2.043	2.928	10.3	20.2
11 27	2 4.60	− 6 34.1	2.119	2.930	13.0	20.4
12 7	2 0.30	− 6 15.9	2.216	2.932	15.3	20.6

193414 2000 WQ_{65} 10 31.6 84°.67 2°.0/30.4 18

9 28	2 52.13	+10 0.5	1.651	2.510	14.5	19.6
10 8	2 45.91	+ 9 43.0	1.597	2.524	10.6	19.4
10 18	2 37.45	+ 9 21.0	1.565	2.538	6.3	19.2
10 28	2 27.67	+ 8 58.2	1.561	2.551	2.3	19.0
11 7	2 17.71	+ 8 39.2	1.584	2.564	4.2	19.1
11 17	2 8.74	+ 8 28.1	1.635	2.578	8.4	19.4
11 27	2 1.71	+ 8 28.2	1.712	2.591	12.2	19.7
12 7	1 57.20	+ 8 41.1	1.811	2.604	15.5	19.9

139044 2001 EK_{7} 10 31.6 139°.02 2°.8/29.8 18

9 28	2 51.77	+ 9 35.3	1.643	2.504	14.5	19.8
10 8	2 45.71	+ 8 50.4	1.584	2.512	10.6	19.6
10 18	2 37.37	+ 8 0.0	1.548	2.520	6.4	19.3
10 28	2 27.65	+ 7 9.5	1.538	2.527	2.9	19.1
11 7	2 17.73	+ 6 25.0	1.557	2.534	4.9	19.3
11 17	2 8.75	+ 5 52.1	1.603	2.540	9.0	19.6
11 27	2 1.71	+ 5 34.6	1.675	2.546	12.9	19.8
12 7	1 57.20	+ 5 34.3	1.768	2.551	16.2	20.0

509563 2008 CG_{21} 10 31.6 330°.72 9°.2/ 2.6 18

9 28	2 45.10	+24 18.7	0.875	1.754	22.4	20.4
10 8	2 43.73	+26 8.4	0.784	1.711	18.5	20.0
10 18	2 38.01	+27 49.3	0.708	1.668	14.0	19.6
10 28	2 28.28	+29 12.5	0.651	1.628	10.1	19.2
11 7	2 16.01	+30 9.6	0.612	1.589	9.8	19.0
11 17	2 3.72	+30 36.5	0.593	1.553	14.2	19.0
11 27	1 54.44	+30 39.0	0.590	1.519	20.2	19.2
12 7	1 50.43	+30 29.8	0.602	1.489	26.1	19.3

366314 2013 CD_{180} 10 31.6 333°.55 2°.7/ 2.4 18

9 28	2 50.66	+21 51.0	1.818	2.650	14.6	20.2
10 8	2 45.06	+22 7.6	1.742	2.648	11.3	20.0
10 18	2 37.12	+22 10.7	1.688	2.646	7.4	19.8
10 28	2 27.63	+22 0.4	1.660	2.644	3.7	19.6
11 7	2 17.72	+21 38.8	1.660	2.643	3.4	19.5
11 17	2 8.55	+21 10.3	1.688	2.641	7.1	19.8
11 27	2 1.20	+20 40.6	1.742	2.640	10.9	20.0
12 7	1 56.37	+20 15.6	1.819	2.639	14.3	20.2

25415 Jocelyn 10 31.6 14°.13 0°.6/31.3 18

9 28	2 50.98	+14 14.3	1.345	2.211	16.8	18.2
10 8	2 45.72	+14 0.1	1.282	2.212	12.4	17.9
10 18	2 37.66	+13 35.4	1.240	2.213	7.4	17.6
10 28	2 27.80	+13 3.8	1.223	2.215	2.0	17.3
11 7	2 17.52	+12 30.6	1.231	2.216	3.8	17.4
11 17	2 8.30	+12 2.2	1.266	2.218	9.1	17.8
11 27	2 1.36	+11 44.5	1.325	2.221	13.8	18.0
12 7	1 57.43	+11 41.2	1.404	2.223	17.8	18.3

420506 2012 FQ_{37} 10 31.6 127°.50 3°.4/28.3 18

9 28	2 45.66	+ 4 23.5	2.477	3.333	10.4	21.4
10 8	2 40.60	+ 3 37.5	2.416	3.340	7.7	21.3
10 18	2 34.11	+ 2 51.4	2.381	3.347	5.0	21.1
10 28	2 26.77	+ 2 9.3	2.374	3.353	3.4	21.0
11 7	2 19.30	+ 1 35.4	2.397	3.360	4.8	21.1
11 17	2 12.40	+ 1 12.7	2.449	3.366	7.4	21.3
11 27	2 6.69	+ 1 3.5	2.527	3.372	10.0	21.5
12 7	2 2.62	+ 1 8.2	2.628	3.377	12.3	21.7

291948 2006 QV_{40} 10 31.6 49°.30 3°.6/29.6 16

9 28	2 50.15	+ 9 59.2	1.125	2.009	18.1	20.7
10 8	2 45.08	+ 8 58.0	1.086	2.025	13.2	20.5
10 18	2 37.16	+ 7 49.8	1.067	2.043	7.8	20.2
10 28	2 27.61	+ 6 43.1	1.072	2.061	3.7	20.1
11 7	2 17.99	+ 5 47.1	1.101	2.079	6.1	20.3
11 17	2 9.78	+ 5 9.1	1.155	2.098	11.0	20.6
11 27	2 4.09	+ 4 53.4	1.231	2.117	15.5	20.9
12 7	2 1.46	+ 5 0.2	1.326	2.136	19.2	21.2

325117 2008 EK_{50} 10 31.6 74°.78 0°.0/31.6 16

9 28	2 53.75	+15 49.0	1.378	2.236	17.0	21.0
10 8	2 47.40	+15 29.1	1.333	2.258	12.5	20.8
10 18	2 38.43	+14 57.4	1.309	2.280	7.4	20.6
10 28	2 27.96	+14 17.7	1.310	2.302	2.0	20.3
11 7	2 17.43	+13 35.8	1.338	2.323	3.4	20.5
11 17	2 8.18	+12 58.2	1.393	2.345	8.5	20.9
11 27	2 1.30	+12 30.9	1.472	2.366	12.9	21.2
12 7	1 57.33	+12 17.4	1.573	2.387	16.5	21.5

217699 1999 TD_{50} 10 31.6 54°.64 3°.9/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 44.60	+ 6 57.2	1.992	2.858	12.1	20.3
10 8	2 40.12	+ 5 31.0	1.934	2.865	8.9	20.1
10 18	2 33.94	+ 4 1.3	1.902	2.871	5.6	19.9
10 28	2 26.76	+ 2 34.7	1.897	2.878	3.9	19.8
11 7	2 19.42	+ 1 18.4	1.922	2.885	5.6	20.0
11 17	2 12.79	+ 0 17.8	1.974	2.892	8.8	20.2
11 27	2 7.59	− 0 23.3	2.051	2.899	11.9	20.4
12 7	2 4.32	− 0 44.1	2.150	2.906	14.5	20.6

100782 1998 FC_{57} 10 31.7 228°.19 3°.0/29.4 18

9 28	2 50.43	+10 10.2	1.767	2.625	13.8	20.1
10 8	2 44.82	+ 9 3.4	1.687	2.615	10.1	19.9
10 18	2 36.96	+ 7 48.3	1.632	2.603	6.1	19.6
10 28	2 27.63	+ 6 30.8	1.603	2.591	3.0	19.4
11 7	2 17.88	+ 5 18.3	1.604	2.578	5.1	19.5
11 17	2 8.85	+ 4 17.9	1.632	2.565	9.2	19.7
11 27	2 1.57	+ 3 35.2	1.687	2.550	13.2	19.9
12 7	1 56.70	+ 3 12.7	1.762	2.536	16.6	20.1

164432 2006 CF_{23} 10 31.7 195°.15 3°.8/28.3 18

9 28	2 47.58	+ 6 46.0	2.011	2.872	12.2	20.6
10 8	2 42.37	+ 5 31.5	1.943	2.871	9.0	20.4
10 18	2 35.32	+ 4 13.3	1.900	2.869	5.7	20.2
10 28	2 27.15	+ 2 57.3	1.885	2.866	3.8	20.1
11 7	2 18.74	+ 1 50.3	1.899	2.863	5.6	20.2
11 17	2 11.01	+ 0 57.8	1.941	2.860	8.8	20.4
11 27	2 4.77	+ 0 23.4	2.008	2.857	12.1	20.6
12 7	2 0.55	+ 0 8.6	2.098	2.853	14.9	20.8

197480 2004 BE_{8} 10 31.7 108°.79 6°.2/ 6.3 18

9 28	2 52.87	+34 31.2	2.134	2.897	15.0	20.1
10 8	2 46.46	+34 51.1	2.066	2.913	12.4	19.9
10 18	2 37.83	+34 50.0	2.019	2.928	9.6	19.8
10 28	2 27.83	+34 26.4	1.997	2.944	7.2	19.7
11 7	2 17.60	+33 41.6	2.003	2.958	6.2	19.6
11 17	2 8.27	+32 40.3	2.037	2.973	7.4	19.7
11 27	2 0.81	+31 30.0	2.097	2.987	9.8	19.9
12 7	1 55.82	+30 18.7	2.183	3.000	12.3	20.1

439302 2012 VZ_{30} 10 31.7 88°.12 2°.0/30.4 18

9 28	2 51.99	+10 17.4	1.697	2.555	14.3	20.5
10 8	2 45.76	+ 9 56.3	1.644	2.570	10.4	20.3
10 18	2 37.37	+ 9 30.4	1.614	2.586	6.2	20.1
10 28	2 27.70	+ 9 3.6	1.611	2.601	2.3	19.9
11 7	2 17.90	+ 8 40.5	1.636	2.616	4.1	20.0
11 17	2 9.07	+ 8 25.2	1.690	2.631	8.2	20.3
11 27	2 2.13	+ 8 21.2	1.769	2.646	12.0	20.6
12 7	1 57.65	+ 8 30.1	1.870	2.661	15.1	20.8

88854 2001 SD_{235} 10 31.7 202°.45 1°.0/ 1.4 18

9 28	2 52.76	+18 25.0	2.066	2.896	13.2	20.1
10 8	2 46.35	+18 19.9	1.982	2.892	9.9	19.8
10 18	2 37.81	+18 4.1	1.923	2.887	6.2	19.6
10 28	2 27.87	+17 38.9	1.891	2.881	2.2	19.3
11 7	2 17.55	+17 7.3	1.889	2.875	2.6	19.4
11 17	2 7.89	+16 33.5	1.917	2.868	6.7	19.6
11 27	1 59.85	+16 2.9	1.973	2.860	10.4	19.8
12 7	1 54.09	+15 39.8	2.052	2.852	13.7	20.0

452047 2014 OD_{240} 10 31.7 13°.57 0°.4/31.4 17

9 28	2 47.35	+14 27.9	1.802	2.658	13.7	21.2
10 8	2 42.46	+14 14.2	1.735	2.661	10.1	21.0
10 18	2 35.50	+13 52.3	1.692	2.663	6.0	20.7
10 28	2 27.24	+13 24.9	1.674	2.666	1.6	20.5
11 7	2 18.69	+12 56.1	1.685	2.670	3.0	20.6
11 17	2 10.91	+12 30.5	1.723	2.674	7.3	20.8
11 27	2 4.79	+12 12.6	1.788	2.678	11.1	21.1
12 7	2 0.96	+12 5.6	1.874	2.683	14.4	21.3

180845 2005 GG_{114} 10 31.7 9°.20 2°.4/30.4 18

9 28	2 46.73	+11 49.5	1.005	1.898	19.0	19.5
10 8	2 43.14	+11 13.6	0.955	1.899	14.0	19.2
10 18	2 36.35	+10 27.2	0.923	1.901	8.3	18.9
10 28	2 27.51	+ 9 37.3	0.913	1.905	2.9	18.6
11 7	2 18.28	+ 8 52.6	0.927	1.910	5.4	18.8
11 17	2 10.34	+ 8 21.4	0.963	1.916	11.1	19.1
11 27	2 5.06	+ 8 9.5	1.020	1.923	16.3	19.4
12 7	2 3.13	+ 8 19.1	1.095	1.932	20.6	19.7

326809 2003 SK_{418} 10 31.7 48°.90 4°.8/27.5 18

9 28	2 45.34	+ 1 47.3	2.137	3.001	11.5	20.4
10 8	2 40.58	+ 0 50.6	2.082	3.007	8.6	20.3
10 18	2 34.20	− 0 4.3	2.051	3.013	6.0	20.1
10 28	2 26.86	− 0 52.0	2.047	3.019	4.8	20.1
11 7	2 19.37	− 1 27.6	2.072	3.025	6.2	20.2
11 17	2 12.54	− 1 47.6	2.124	3.032	8.8	20.3
11 27	2 7.05	− 1 50.3	2.201	3.038	11.6	20.5
12 7	2 3.40	− 1 35.8	2.299	3.045	14.0	20.7

128968 2004 TW_{159} 10 31.7 315°.46 0°.8/ 1.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 46.58	+17 44.6	1.863	2.711	13.6	19.5
10 8	2 42.13	+17 36.7	1.769	2.689	10.3	19.2
10 18	2 35.48	+17 17.7	1.699	2.667	6.4	19.0
10 28	2 27.28	+16 49.1	1.654	2.645	2.1	18.6
11 7	2 18.54	+16 14.3	1.637	2.623	2.8	18.7
11 17	2 10.33	+15 38.3	1.648	2.602	7.2	18.9
11 27	2 3.69	+15 6.6	1.685	2.581	11.3	19.1
12 7	1 59.38	+14 44.2	1.744	2.561	15.0	19.3

229623 2006 DD_{128} 10 31.7 15°.36 1°.5/30.5 18

9 28	2 46.30	+11 39.1	1.859	2.720	13.1	20.5
10 8	2 41.59	+11 11.7	1.794	2.723	9.6	20.3
10 18	2 34.94	+10 38.2	1.753	2.726	5.6	20.0
10 28	2 27.08	+10 2.4	1.739	2.730	1.9	19.8
11 7	2 18.99	+ 9 28.9	1.753	2.734	3.6	19.9
11 17	2 11.63	+ 9 2.3	1.794	2.739	7.6	20.2
11 27	2 5.85	+ 8 46.5	1.861	2.744	11.2	20.4
12 7	2 2.21	+ 8 43.7	1.951	2.749	14.3	20.7

152817 1999 TO_{301} 10 31.7 162°.39 0°.2/31.9 18

9 28	2 46.88	+16 55.3	2.328	3.167	11.6	20.7
10 8	2 41.73	+16 31.9	2.253	3.168	8.6	20.6
10 18	2 34.92	+15 59.7	2.202	3.170	5.2	20.3
10 28	2 27.08	+15 20.7	2.180	3.171	1.5	20.1
11 7	2 19.02	+14 38.8	2.188	3.173	2.3	20.2
11 17	2 11.55	+13 58.1	2.224	3.174	5.9	20.4
11 27	2 5.41	+13 22.9	2.289	3.175	9.2	20.6
12 7	2 1.12	+12 56.7	2.378	3.176	12.1	20.8

116119 2003 WU_{137} 10 31.7 15°.12 4°.9/29.5 18

9 28	2 51.34	+ 4 59.0	1.107	1.993	18.1	18.7
10 8	2 46.28	+ 4 36.7	1.056	1.995	13.5	18.4
10 18	2 38.12	+ 4 15.0	1.025	1.999	8.5	18.1
10 28	2 28.00	+ 4 0.5	1.018	2.003	5.0	18.0
11 7	2 17.53	+ 3 59.6	1.034	2.009	7.1	18.1
11 17	2 8.34	+ 4 16.2	1.074	2.015	11.8	18.4
11 27	2 1.75	+ 4 51.9	1.135	2.022	16.5	18.7
12 7	1 58.47	+ 5 45.5	1.216	2.030	20.4	19.0

239417 2007 TR_{92} 10 31.7 23°.04 5°.2/29.1 18

9 28	2 47.07	+ 5 8.7	1.081	1.975	17.9	18.6
10 8	2 42.89	+ 4 28.5	1.048	1.990	13.1	18.4
10 18	2 35.91	+ 3 49.0	1.034	2.008	8.3	18.2
10 28	2 27.35	+ 3 18.0	1.043	2.027	5.2	18.1
11 7	2 18.72	+ 3 2.4	1.075	2.048	7.3	18.2
11 17	2 11.44	+ 3 6.2	1.131	2.070	11.6	18.6
11 27	2 6.59	+ 3 30.7	1.208	2.094	15.7	18.9
12 7	2 4.71	+ 4 14.1	1.304	2.118	19.2	19.2

443215 2014 DQ_{90} 10 31.7 60°.61 2°.4/30.0 18

9 28	2 48.81	+10 5.2	1.710	2.573	13.9	21.1
10 8	2 43.56	+ 9 28.0	1.647	2.577	10.2	20.9
10 18	2 36.16	+ 8 45.2	1.608	2.580	6.1	20.7
10 28	2 27.44	+ 8 1.7	1.595	2.584	2.6	20.5
11 7	2 18.47	+ 7 22.8	1.610	2.588	4.4	20.6
11 17	2 10.33	+ 6 53.9	1.652	2.592	8.5	20.8
11 27	2 3.97	+ 6 38.7	1.720	2.596	12.3	21.1
12 7	1 59.96	+ 6 39.2	1.809	2.600	15.6	21.3

244757 2003 SJ_{82} 10 31.7 358°.78 4°.9/ 3.3 18

9 28	2 54.66	+25 6.3	1.648	2.467	16.4	19.8
10 8	2 48.44	+26 0.9	1.573	2.467	13.0	19.6
10 18	2 39.39	+26 40.3	1.520	2.466	9.2	19.4
10 28	2 28.39	+27 1.5	1.492	2.466	5.8	19.2
11 7	2 16.77	+27 4.3	1.491	2.466	5.2	19.2
11 17	2 5.99	+26 52.1	1.517	2.466	8.2	19.3
11 27	1 57.36	+26 31.2	1.569	2.467	11.9	19.6
12 7	1 51.73	+26 9.3	1.643	2.467	15.4	19.8

503317 2016 AA_{131} 10 31.7 99°.92 15°.9/12.5 17

9 28	3 2.08	+47 44.0	1.195	1.926	26.1	21.0
10 8	2 55.96	+49 15.7	1.138	1.935	23.4	20.8
10 18	2 44.75	+50 6.6	1.095	1.944	20.6	20.7
10 28	2 29.94	+50 4.1	1.067	1.953	17.9	20.5
11 7	2 14.22	+49 3.7	1.058	1.962	16.2	20.5
11 17	2 0.58	+47 11.3	1.069	1.970	16.1	20.5
11 27	1 51.29	+44 44.2	1.101	1.978	17.6	20.6
12 7	1 47.22	+42 4.1	1.152	1.986	20.0	20.8

16626 Thumper 10 31.7 292°.24 1°.6/30.4 18 R

9 28	2 47.27	+11 32.0	2.020	2.876	12.4	18.3
10 8	2 42.23	+11 1.7	1.947	2.873	9.1	18.0
10 18	2 35.31	+10 25.4	1.898	2.870	5.4	17.8
10 28	2 27.22	+ 9 46.7	1.877	2.868	1.9	17.6
11 7	2 18.84	+ 9 10.0	1.884	2.865	3.5	17.7
11 17	2 11.11	+ 8 39.9	1.920	2.862	7.3	17.9
11 27	2 4.86	+ 8 20.3	1.982	2.859	10.9	18.1
12 7	2 0.66	+ 8 13.4	2.067	2.856	13.9	18.4

97601 2000 EK_{67} 10 31.7 74°.81 1°.7/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 49.94	+20 26.7	1.827	2.664	14.4	19.6
10 8	2 44.34	+20 19.8	1.765	2.676	10.8	19.5
10 18	2 36.60	+19 59.6	1.725	2.688	6.8	19.2
10 28	2 27.57	+19 27.8	1.712	2.700	2.8	19.0
11 7	2 18.32	+18 48.2	1.726	2.711	2.8	19.0
11 17	2 9.93	+18 5.9	1.769	2.723	6.8	19.3
11 27	2 3.35	+17 27.0	1.839	2.735	10.5	19.6
12 7	1 59.13	+16 56.4	1.932	2.747	13.8	19.8

449208 2013 CD_{69} 10 31.7 154°.84 0°.7/ 1.3 18

9 28	2 48.44	+18 33.9	2.291	3.123	12.0	21.9
10 8	2 42.89	+18 9.7	2.218	3.129	8.9	21.7
10 18	2 35.62	+17 35.1	2.169	3.134	5.5	21.5
10 28	2 27.30	+16 52.4	2.148	3.139	1.8	21.3
11 7	2 18.77	+16 5.2	2.158	3.143	2.3	21.3
11 17	2 10.89	+15 18.0	2.197	3.147	5.9	21.6
11 27	2 4.41	+14 35.8	2.263	3.151	9.3	21.8
12 7	1 59.86	+14 2.3	2.355	3.154	12.1	22.0

149138 2002 EV_{89} 10 31.7 145°.90 1°.9/ 2.8 18

9 28	2 47.74	+23 23.3	2.923	3.729	10.4	20.9
10 8	2 42.06	+23 8.9	2.849	3.740	7.9	20.8
10 18	2 35.00	+22 43.7	2.799	3.751	5.2	20.6
10 28	2 27.12	+22 8.9	2.778	3.761	2.6	20.5
11 7	2 19.09	+21 26.8	2.788	3.770	2.3	20.5
11 17	2 11.60	+20 41.1	2.829	3.779	4.8	20.7
11 27	2 5.26	+19 55.7	2.899	3.788	7.4	20.8
12 7	2 0.52	+19 14.5	2.995	3.796	9.8	21.0

49411 1998 XT_{51} 10 31.7 197°.11 0°.3/31.9 18

9 28	2 47.91	+16 5.4	2.762	3.593	10.2	19.1
10 8	2 42.31	+16 3.3	2.679	3.591	7.6	19.0
10 18	2 35.22	+15 54.7	2.623	3.589	4.6	18.8
10 28	2 27.20	+15 41.0	2.595	3.586	1.4	18.5
11 7	2 18.93	+15 24.4	2.598	3.583	2.0	18.6
11 17	2 11.13	+15 7.5	2.631	3.580	5.2	18.8
11 27	2 4.46	+14 53.5	2.693	3.576	8.1	19.0
12 7	1 59.40	+14 45.0	2.781	3.573	10.7	19.2

407942 2012 CG_{45} 10 31.7 113°.66 4°.6/27.2 18

9 28	2 45.54	+ 1 26.7	2.341	3.200	10.8	20.9
10 8	2 40.61	+ 0 23.7	2.286	3.208	8.1	20.7
10 18	2 34.19	− 0 37.5	2.256	3.216	5.7	20.6
10 28	2 26.90	− 1 31.7	2.255	3.224	4.6	20.5
11 7	2 19.50	− 2 14.2	2.282	3.232	6.0	20.6
11 17	2 12.69	− 2 41.5	2.337	3.239	8.5	20.8
11 27	2 7.14	− 2 51.7	2.418	3.246	11.0	21.0
12 7	2 3.29	− 2 45.2	2.521	3.254	13.2	21.1

460309 2014 QN_{379} 10 31.7 354°.95 4°.5/ 3.9 17

9 28	2 49.29	+26 33.7	1.937	2.750	14.6	21.4
10 8	2 44.11	+27 9.4	1.859	2.748	11.6	21.2
10 18	2 36.64	+27 29.9	1.803	2.745	8.3	21.0
10 28	2 27.64	+27 33.6	1.772	2.744	5.4	20.8
11 7	2 18.17	+27 21.4	1.768	2.742	4.7	20.7
11 17	2 9.38	+26 56.7	1.792	2.742	7.1	20.9
11 27	2 2.32	+26 25.4	1.842	2.741	10.4	21.1
12 7	1 57.70	+25 53.7	1.916	2.742	13.5	21.3

515815 2015 MF_{57} 10 31.7 60°.08 7°.4/ 6.9 18

9 28	2 51.11	+35 46.5	1.769	2.543	17.3	21.0
10 8	2 45.76	+36 2.3	1.693	2.545	14.4	20.8
10 18	2 37.73	+35 52.4	1.636	2.547	11.4	20.6
10 28	2 27.95	+35 14.2	1.602	2.549	8.6	20.4
11 7	2 17.77	+34 9.3	1.594	2.551	7.4	20.4
11 17	2 8.56	+32 43.6	1.612	2.553	8.6	20.5
11 27	2 1.51	+31 7.0	1.657	2.555	11.4	20.6
12 7	1 57.33	+29 30.4	1.725	2.557	14.4	20.8

323700 2005 GR_{119} 10 31.7 129°.79 7°.4/28.1 18

9 28	3 0.02	− 6 10.3	1.775	2.614	14.6	21.0
10 8	2 51.48	− 6 31.8	1.726	2.629	11.5	20.8
10 18	2 40.72	− 6 42.2	1.701	2.644	8.7	20.7
10 28	2 28.70	− 6 36.0	1.704	2.658	7.4	20.6
11 7	2 16.64	− 6 10.0	1.735	2.671	8.6	20.7
11 17	2 5.69	− 5 23.6	1.794	2.684	11.3	20.9
11 27	1 56.81	− 4 18.8	1.878	2.696	14.1	21.1
12 7	1 50.54	− 2 59.1	1.984	2.707	16.6	21.3

320124 2007 EZ_{182} 10 31.7 37°.74 0°.4/31.3 18

9 28	2 45.19	+16 20.9	2.121	2.969	12.2	20.2
10 8	2 40.63	+15 33.7	2.050	2.972	9.0	20.0
10 18	2 34.33	+14 36.4	2.004	2.975	5.3	19.8
10 28	2 27.00	+13 32.5	1.986	2.978	1.4	19.5
11 7	2 19.46	+12 27.3	1.997	2.981	2.7	19.7
11 17	2 12.57	+11 26.3	2.036	2.984	6.5	19.9
11 27	2 7.09	+10 34.6	2.103	2.988	10.0	20.1
12 7	2 3.53	+ 9 56.0	2.193	2.991	13.0	20.3

234694 2002 GG_{125} 10 31.7 19°.49 0°.6/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 47.93	+18 30.7	1.496	2.352	15.9	19.5
10 8	2 43.31	+17 57.2	1.431	2.355	11.9	19.3
10 18	2 36.20	+17 8.5	1.387	2.357	7.2	19.0
10 28	2 27.54	+16 8.0	1.369	2.360	2.2	18.7
11 7	2 18.56	+15 2.3	1.377	2.363	3.1	18.8
11 17	2 10.52	+13 58.9	1.413	2.367	8.1	19.1
11 27	2 4.52	+13 5.5	1.473	2.371	12.5	19.4
12 7	2 1.19	+12 27.3	1.554	2.376	16.3	19.6

225473 2000 FK_{47} 10 31.7 161°.83 2°.1/30.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 53.14	+ 9 28.4	1.964	2.813	13.0	21.0
10 8	2 46.52	+ 9 5.1	1.897	2.819	9.5	20.8
10 18	2 37.87	+ 8 37.8	1.855	2.825	5.7	20.6
10 28	2 27.97	+ 8 10.0	1.841	2.830	2.3	20.3
11 7	2 17.84	+ 7 45.9	1.856	2.834	4.0	20.5
11 17	2 8.49	+ 7 29.4	1.900	2.838	7.8	20.7
11 27	2 0.82	+ 7 23.8	1.972	2.841	11.3	20.9
12 7	1 55.40	+ 7 30.7	2.066	2.843	14.4	21.2

225763 2001 SH_{231} 10 31.7 296°.28 2°.3/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 54.66	+18 15.8	1.513	2.358	16.4	19.6
10 8	2 48.79	+18 55.2	1.423	2.338	12.6	19.4
10 18	2 39.86	+19 24.9	1.354	2.319	8.1	19.1
10 28	2 28.65	+19 43.8	1.311	2.299	3.5	18.7
11 7	2 16.50	+19 52.4	1.295	2.280	3.7	18.7
11 17	2 4.98	+19 53.6	1.306	2.261	8.6	18.9
11 27	1 55.59	+19 53.0	1.342	2.242	13.4	19.2
12 7	1 49.35	+19 56.4	1.400	2.223	17.7	19.4

301448 2009 DA_{88} 10 31.7 334°.98 1°.2/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.43	+19 0.2	1.715	2.561	14.7	21.0
10 8	2 43.52	+18 48.1	1.640	2.558	11.1	20.8
10 18	2 36.30	+18 22.9	1.588	2.554	6.9	20.6
10 28	2 27.58	+17 46.4	1.561	2.551	2.5	20.3
11 7	2 18.47	+17 2.9	1.562	2.548	2.9	20.3
11 17	2 10.13	+16 18.1	1.591	2.546	7.3	20.6
11 27	2 3.61	+15 38.4	1.646	2.543	11.5	20.8
12 7	1 59.56	+15 8.8	1.722	2.541	15.0	21.0

72321 2001 BJ_{48} 10 31.7 112°.79 1°.4/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.70	+14 9.6	1.950	2.800	13.0	18.9
10 8	2 43.18	+13 5.9	1.892	2.815	9.5	18.8
10 18	2 35.82	+11 53.1	1.858	2.830	5.5	18.6
10 28	2 27.39	+10 36.3	1.853	2.844	1.7	18.3
11 7	2 18.87	+ 9 21.7	1.877	2.857	3.5	18.5
11 17	2 11.17	+ 8 15.6	1.930	2.871	7.4	18.8
11 27	2 5.08	+ 7 23.1	2.009	2.884	10.9	19.0
12 7	2 1.09	+ 6 47.0	2.112	2.896	13.9	19.2

5468 Hamatonbetsu 10 31.7 194°.89 4°.6/26.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.73	+ 0 0.0	2.660	3.511	9.9	17.8
10 8	2 41.40	− 0 57.4	2.592	3.509	7.5	17.6
10 18	2 34.67	− 1 52.8	2.550	3.506	5.4	17.5
10 28	2 27.10	− 2 41.4	2.537	3.502	4.6	17.4
11 7	2 19.34	− 3 19.1	2.554	3.498	5.8	17.5
11 17	2 12.07	− 3 42.7	2.599	3.493	8.1	17.7
11 27	2 5.92	− 3 50.5	2.671	3.488	10.4	17.8
12 7	2 1.34	− 3 42.5	2.765	3.482	12.5	18.0

139693 2001 QG_{215} 10 31.7 71°.71 0°.8/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.98	+18 10.4	1.894	2.737	13.7	19.9
10 8	2 43.65	+17 58.0	1.825	2.741	10.2	19.7
10 18	2 36.25	+17 34.4	1.778	2.745	6.3	19.4
10 28	2 27.55	+17 1.6	1.759	2.749	2.1	19.2
11 7	2 18.58	+16 23.6	1.767	2.753	2.6	19.2
11 17	2 10.36	+15 45.1	1.804	2.757	6.8	19.5
11 27	2 3.82	+15 11.6	1.868	2.761	10.6	19.7
12 7	1 59.54	+14 47.4	1.955	2.765	13.8	20.0

509303 2006 VR_{143} 10 31.7 14°.04 0°.8/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.54	+16 1.4	0.953	1.840	20.3	20.6
10 8	2 44.74	+16 13.9	0.905	1.844	15.2	20.4
10 18	2 37.46	+16 12.4	0.875	1.850	9.2	20.1
10 28	2 27.95	+15 59.1	0.866	1.857	2.8	19.7
11 7	2 18.00	+15 39.5	0.880	1.867	4.0	19.8
11 17	2 9.47	+15 20.7	0.916	1.877	10.1	20.2
11 27	2 3.84	+15 10.0	0.973	1.889	15.6	20.6
12 7	2 1.84	+15 12.6	1.049	1.903	20.1	20.9

432316 2009 TK_{29} 10 31.7 118°.69 2°.6/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.01	+23 9.3	1.606	2.438	16.2	21.3
10 8	2 46.22	+22 55.7	1.540	2.446	12.4	21.1
10 18	2 37.91	+22 24.2	1.495	2.454	8.1	20.9
10 28	2 28.03	+21 36.0	1.476	2.462	3.8	20.7
11 7	2 17.85	+20 35.8	1.485	2.469	3.4	20.7
11 17	2 8.68	+19 30.7	1.521	2.476	7.5	20.9
11 27	2 1.62	+18 28.9	1.583	2.483	11.7	21.2
12 7	1 57.30	+17 37.4	1.667	2.489	15.3	21.4

422212 2014 RX_{55} 10 31.7 108°.16 1°.1/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 45.14	+13 27.0	2.363	3.212	11.1	21.5
10 8	2 40.41	+12 38.1	2.295	3.218	8.1	21.3
10 18	2 34.15	+11 42.2	2.252	3.223	4.7	21.1
10 28	2 26.97	+10 42.9	2.237	3.228	1.5	20.9
11 7	2 19.63	+ 9 44.9	2.252	3.233	3.0	21.0
11 17	2 12.88	+ 8 52.9	2.296	3.238	6.3	21.2
11 27	2 7.38	+ 8 10.8	2.368	3.243	9.5	21.5
12 7	2 3.62	+ 7 41.5	2.464	3.248	12.1	21.6

236517 2006 GH_{49} 10 31.7 122°.13 5°.9/27.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.37	− 5 40.3	2.485	3.328	10.8	20.1
10 8	2 43.34	− 6 6.8	2.427	3.333	8.5	19.9
10 18	2 35.82	− 6 25.9	2.395	3.337	6.6	19.8
10 28	2 27.42	− 6 33.5	2.391	3.341	5.9	19.8
11 7	2 18.89	− 6 26.5	2.415	3.345	6.9	19.9
11 17	2 10.97	− 6 3.6	2.468	3.350	8.9	20.0
11 27	2 4.32	− 5 24.9	2.546	3.354	11.1	20.1
12 7	1 59.41	− 4 32.0	2.646	3.357	13.1	20.3

451630 2012 GR_{12} 10 31.7 275°.01 6°.4/26.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.73	− 6 18.5	2.309	3.152	11.5	20.5
10 8	2 44.58	− 6 43.8	2.236	3.141	9.2	20.3
10 18	2 36.68	− 7 0.9	2.188	3.129	7.2	20.2
10 28	2 27.69	− 7 5.1	2.167	3.117	6.5	20.1
11 7	2 18.42	− 6 52.8	2.175	3.105	7.6	20.2
11 17	2 9.73	− 6 22.5	2.211	3.093	9.8	20.3
11 27	2 2.39	− 5 34.4	2.272	3.081	12.2	20.5
12 7	1 56.95	− 4 30.3	2.355	3.069	14.5	20.6

156661 2002 JK_{80} 10 31.7 229°.90 0°.3/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.43	+15 40.8	2.241	3.080	12.0	20.6
10 8	2 43.76	+15 42.9	2.163	3.078	8.9	20.4
10 18	2 36.26	+15 37.9	2.109	3.076	5.4	20.2
10 28	2 27.58	+15 26.9	2.083	3.074	1.6	19.9
11 7	2 18.59	+15 12.7	2.086	3.072	2.4	20.0
11 17	2 10.19	+14 58.4	2.119	3.070	6.2	20.2
11 27	2 3.18	+14 47.7	2.180	3.067	9.6	20.5
12 7	1 58.17	+14 43.6	2.265	3.065	12.5	20.7

219932 2002 GS_{96} 10 31.7 60°.94 0°.3/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.84	+16 52.8	2.026	2.874	12.7	19.6
10 8	2 41.12	+16 1.7	1.964	2.884	9.3	19.4
10 18	2 34.64	+14 59.9	1.925	2.895	5.5	19.2
10 28	2 27.12	+13 51.4	1.914	2.906	1.5	18.9
11 7	2 19.46	+12 41.6	1.933	2.917	2.7	19.0
11 17	2 12.53	+11 36.6	1.980	2.929	6.6	19.3
11 27	2 7.09	+10 41.8	2.054	2.940	10.2	19.6
12 7	2 3.65	+10 0.6	2.152	2.951	13.1	19.8

516767 2009 US_{66} 10 31.7 75°.99 0°.7/31.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.50	+12 20.1	2.182	3.029	12.0	21.2
10 8	2 43.73	+12 17.6	2.116	3.037	8.8	21.0
10 18	2 36.18	+12 10.2	2.075	3.045	5.2	20.8
10 28	2 27.56	+11 59.8	2.062	3.053	1.4	20.6
11 7	2 18.72	+11 49.5	2.078	3.061	2.8	20.7
11 17	2 10.55	+11 42.2	2.124	3.070	6.5	21.0
11 27	2 3.82	+11 40.9	2.197	3.078	9.8	21.2
12 7	1 59.08	+11 47.8	2.294	3.086	12.6	21.4

203982 2003 SK_{235} 10 31.7 43°.06 9°.4/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 53.07	+38 1.9	1.581	2.350	19.2	19.6
10 8	2 47.58	+38 51.4	1.518	2.360	16.4	19.5
10 18	2 39.00	+39 12.9	1.473	2.370	13.3	19.3
10 28	2 28.39	+39 1.8	1.449	2.381	10.6	19.2
11 7	2 17.32	+38 18.1	1.449	2.392	9.4	19.1
11 17	2 7.42	+37 7.6	1.474	2.404	10.2	19.2
11 27	2 0.07	+35 40.8	1.523	2.416	12.6	19.4
12 7	1 56.02	+34 9.6	1.595	2.428	15.3	19.6

398657 2012 UL_{42} 10 31.7 96°.85 4°.8/ 1.7 14 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	3 11.20	+17 27.6	1.070	1.914	21.8	20.6
10 8	3 2.06	+19 31.9	1.008	1.920	16.8	20.3
10 18	2 48.27	+21 29.9	0.966	1.926	11.1	20.0
10 28	2 31.06	+23 12.2	0.948	1.932	5.8	19.8
11 7	2 12.73	+24 32.0	0.958	1.939	6.0	19.8
11 17	1 55.93	+25 27.9	0.995	1.945	11.3	20.1
11 27	1 42.88	+26 6.5	1.055	1.951	16.6	20.5
12 7	1 34.70	+26 37.3	1.135	1.956	21.0	20.8

471115 2010 CE_{63} 10 31.7 46°.53 9°.7/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 57.54	+35 26.1	1.441	2.224	20.1	19.6
10 8	2 51.07	+36 50.3	1.388	2.242	16.9	19.5
10 18	2 41.17	+37 47.6	1.353	2.260	13.6	19.3
10 28	2 29.00	+38 11.8	1.341	2.278	10.8	19.2
11 7	2 16.31	+38 1.8	1.352	2.298	9.7	19.2
11 17	2 4.96	+37 22.6	1.388	2.317	10.8	19.3
11 27	1 56.47	+36 24.6	1.448	2.337	13.3	19.5
12 7	1 51.64	+35 20.0	1.529	2.357	16.1	19.8

281739 2008 YW_{20} 10 31.7 121°.13 3°.0/ 4.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 45.62	+27 21.0	2.849	3.643	10.9	20.7
10 8	2 40.70	+27 16.6	2.768	3.646	8.6	20.5
10 18	2 34.32	+26 59.4	2.711	3.650	6.1	20.4
10 28	2 27.05	+26 29.8	2.681	3.653	3.8	20.2
11 7	2 19.57	+25 49.9	2.681	3.657	3.2	20.2
11 17	2 12.59	+25 2.9	2.710	3.660	5.0	20.3
11 27	2 6.77	+24 13.3	2.769	3.663	7.5	20.5
12 7	2 2.57	+23 25.7	2.853	3.666	9.9	20.6

139975 2001 SH_{18} 10 31.7 39°.24 1°.1/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.19	+17 54.7	1.782	2.626	14.3	19.5
10 8	2 44.68	+17 59.1	1.715	2.631	10.7	19.2
10 18	2 36.95	+17 52.8	1.670	2.636	6.6	19.0
10 28	2 27.80	+17 37.1	1.652	2.642	2.3	18.8
11 7	2 18.34	+17 15.2	1.661	2.647	2.8	18.8
11 17	2 9.68	+16 51.5	1.699	2.653	7.0	19.1
11 27	2 2.82	+16 31.1	1.763	2.659	11.0	19.3
12 7	1 58.39	+16 18.4	1.850	2.665	14.3	19.6

100876 1998 HK_{86} 10 31.7 159°.43 0°.0/31.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.57	+18 14.3	1.816	2.656	14.3	21.0
10 8	2 45.56	+17 21.9	1.747	2.663	10.6	20.8
10 18	2 37.39	+16 15.5	1.701	2.669	6.4	20.6
10 28	2 27.90	+14 59.2	1.683	2.675	1.8	20.3
11 7	2 18.20	+13 39.3	1.694	2.680	2.9	20.4
11 17	2 9.38	+12 23.1	1.735	2.684	7.4	20.7
11 27	2 2.38	+11 17.7	1.802	2.687	11.4	20.9
12 7	1 57.78	+10 27.6	1.893	2.690	14.7	21.2

266587 2008 HN_{49} 10 31.7 116°.56 2°.3/ 2.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 54.43	+22 8.0	1.773	2.598	15.2	21.2
10 8	2 47.71	+22 3.0	1.712	2.615	11.6	21.0
10 18	2 38.67	+21 42.9	1.674	2.632	7.5	20.8
10 28	2 28.25	+21 8.6	1.663	2.649	3.4	20.6
11 7	2 17.64	+20 24.0	1.681	2.665	3.2	20.6
11 17	2 8.05	+19 35.0	1.727	2.680	7.0	20.8
11 27	2 0.46	+18 48.2	1.800	2.694	10.8	21.1
12 7	1 55.47	+18 9.5	1.896	2.708	14.1	21.4

324203 2006 AE_{89} 10 31.7 205°.64 5°.3/26.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.51	− 1 0.7	2.392	3.250	10.7	21.0
10 8	2 40.66	− 2 2.8	2.330	3.248	8.2	20.9
10 18	2 34.31	− 3 1.8	2.292	3.246	6.0	20.7
10 28	2 27.06	− 3 52.3	2.283	3.245	5.3	20.7
11 7	2 19.61	− 4 29.8	2.302	3.242	6.6	20.8
11 17	2 12.71	− 4 50.9	2.349	3.240	8.9	20.9
11 27	2 7.03	− 4 54.0	2.421	3.238	11.3	21.1
12 7	2 3.01	− 4 39.7	2.514	3.235	13.5	21.2

212285 2005 LW_{28} 10 31.7 197°.35 0°.3/ 1.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.35	+17 55.4	2.118	2.957	12.6	20.8
10 8	2 43.04	+17 22.5	2.040	2.955	9.4	20.6
10 18	2 35.86	+16 38.5	1.986	2.953	5.7	20.4
10 28	2 27.51	+15 45.9	1.960	2.951	1.7	20.1
11 7	2 18.87	+14 49.2	1.963	2.948	2.5	20.2
11 17	2 10.89	+13 53.7	1.995	2.945	6.5	20.4
11 27	2 4.39	+13 4.8	2.054	2.942	10.1	20.7
12 7	1 59.94	+12 26.9	2.138	2.938	13.2	20.9

47923 2000 GJ_{111} 10 31.7 357°.57 1°.5/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.65	+20 33.2	2.252	3.082	12.2	19.0
10 8	2 41.75	+20 24.3	2.174	3.082	9.3	18.8
10 18	2 35.08	+20 4.3	2.120	3.082	5.9	18.6
10 28	2 27.29	+19 34.3	2.094	3.081	2.5	18.4
11 7	2 19.23	+18 57.4	2.096	3.081	2.4	18.4
11 17	2 11.76	+18 17.8	2.127	3.081	5.8	18.6
11 27	2 5.68	+17 40.3	2.186	3.081	9.2	18.9
12 7	2 1.52	+17 9.2	2.270	3.082	12.1	19.1

487902 2015 TF_{177} 10 31.7 147°.28 4°.0/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.88	+ 3 7.6	2.223	3.080	11.4	21.7
10 8	2 42.49	+ 2 30.6	2.159	3.083	8.5	21.5
10 18	2 35.44	+ 1 54.6	2.120	3.085	5.6	21.3
10 28	2 27.39	+ 1 23.9	2.109	3.087	4.0	21.2
11 7	2 19.15	+ 1 2.7	2.127	3.089	5.4	21.3
11 17	2 11.52	+ 0 54.1	2.174	3.091	8.2	21.5
11 27	2 5.25	+ 0 59.9	2.246	3.093	11.0	21.7
12 7	2 0.84	+ 1 20.1	2.341	3.095	13.5	21.9

242654 2005 PY_{8} 10 31.7 9°.45 0°.7/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.61	+13 49.8	1.169	2.047	18.0	20.0
10 8	2 45.11	+13 43.2	1.112	2.047	13.4	19.8
10 18	2 37.56	+13 26.2	1.075	2.049	8.0	19.5
10 28	2 28.04	+13 2.3	1.060	2.052	2.1	19.1
11 7	2 18.09	+12 37.2	1.071	2.056	4.0	19.3
11 17	2 9.28	+12 17.2	1.106	2.061	9.7	19.6
11 27	2 2.97	+12 8.3	1.163	2.067	14.7	19.9
12 7	1 59.89	+12 14.1	1.240	2.073	18.9	20.2

452454 2003 SE_{341} 10 31.7 67°.63 1°.8/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 48.11	+21 22.0	2.138	2.966	12.9	21.4
10 8	2 42.79	+21 13.4	2.075	2.980	9.7	21.2
10 18	2 35.66	+20 52.6	2.035	2.995	6.2	21.0
10 28	2 27.46	+20 21.1	2.023	3.009	2.8	20.8
11 7	2 19.08	+19 42.2	2.039	3.023	2.6	20.8
11 17	2 11.43	+19 0.2	2.084	3.038	5.9	21.1
11 27	2 5.30	+18 20.5	2.156	3.052	9.3	21.3
12 7	2 1.20	+17 47.4	2.253	3.066	12.2	21.5

476890 2008 VY_{77} 10 31.7 49°.25 5°.3/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 55.35	+ 1 3.1	1.453	2.317	15.9	20.3
10 8	2 48.57	+ 0 58.8	1.404	2.329	11.9	20.1
10 18	2 39.26	+ 1 0.0	1.377	2.342	7.9	19.9
10 28	2 28.45	+ 1 11.5	1.376	2.355	5.3	19.8
11 7	2 17.48	+ 1 36.7	1.401	2.368	6.9	19.9
11 17	2 7.66	+ 2 16.9	1.454	2.382	10.5	20.2
11 27	2 0.07	+ 3 11.9	1.531	2.395	14.3	20.4
12 7	1 55.30	+ 4 19.6	1.628	2.409	17.4	20.7

97998 2000 QY_{189} 10 31.7 337°.21 6°.0/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.94	+ 4 7.1	1.161	2.046	17.5	18.8
10 8	2 45.34	+ 3 13.1	1.102	2.040	13.1	18.5
10 18	2 37.71	+ 2 18.2	1.064	2.035	8.7	18.3
10 28	2 28.10	+ 1 31.5	1.048	2.030	6.0	18.1
11 7	2 18.00	+ 1 1.6	1.057	2.025	8.3	18.2
11 17	2 9.00	+ 0 54.7	1.089	2.021	12.7	18.5
11 27	2 2.43	+ 1 13.2	1.143	2.018	17.2	18.7
12 7	1 59.06	+ 1 55.8	1.214	2.016	21.1	19.0

124928 2001 TR_{71} 10 31.7 359°.11 1°.1/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.74	+14 19.9	1.093	1.973	18.8	19.6
10 8	2 45.40	+13 50.8	1.034	1.971	13.9	19.3
10 18	2 37.83	+13 8.2	0.995	1.970	8.3	19.0
10 28	2 28.14	+12 17.3	0.978	1.970	2.3	18.7
11 7	2 17.95	+11 26.0	0.985	1.970	4.5	18.8
11 17	2 8.97	+10 42.9	1.016	1.971	10.4	19.2
11 27	2 2.62	+10 15.8	1.069	1.972	15.8	19.5
12 7	1 59.68	+10 8.4	1.141	1.974	20.2	19.8

120938 1998 SB_{162} 10 31.7 30°.01 3°.7/28.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.27	+ 6 29.9	1.916	2.783	12.5	19.5
10 8	2 40.78	+ 5 32.0	1.859	2.790	9.2	19.3
10 18	2 34.50	+ 4 31.9	1.826	2.796	5.8	19.1
10 28	2 27.16	+ 3 35.1	1.820	2.803	3.7	19.0
11 7	2 19.64	+ 2 47.5	1.842	2.810	5.3	19.1
11 17	2 12.83	+ 2 13.7	1.892	2.818	8.6	19.3
11 27	2 7.51	+ 1 56.6	1.966	2.826	11.8	19.5
12 7	2 4.19	+ 1 56.9	2.062	2.834	14.6	19.8

456106 2006 BS_{250} 10 31.7 130°.35 6°.6/24.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.16	− 7 48.2	2.674	3.519	10.1	21.2
10 8	2 40.22	− 9 4.9	2.630	3.529	8.2	21.1
10 18	2 33.98	−10 13.9	2.612	3.539	6.9	21.0
10 28	2 26.99	−11 10.0	2.621	3.549	6.7	21.0
11 7	2 19.91	−11 48.9	2.658	3.558	7.8	21.1
11 17	2 13.37	−12 8.4	2.722	3.567	9.5	21.3
11 27	2 7.95	−12 8.0	2.810	3.575	11.3	21.4
12 7	2 4.04	−11 49.2	2.917	3.584	12.9	21.6

182355 2001 QL_{61} 10 31.7 106°.21 3°.8/28.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.01	+ 7 33.4	1.626	2.491	14.5	20.8
10 8	2 45.16	+ 6 28.5	1.576	2.506	10.6	20.6
10 18	2 37.15	+ 5 20.1	1.550	2.520	6.5	20.4
10 28	2 27.88	+ 4 15.0	1.550	2.535	3.9	20.2
11 7	2 18.51	+ 3 20.1	1.579	2.549	5.8	20.4
11 17	2 10.12	+ 2 41.0	1.634	2.562	9.5	20.6
11 27	2 3.65	+ 2 21.0	1.714	2.576	13.1	20.9
12 7	1 59.61	+ 2 20.7	1.815	2.589	16.2	21.1

269859 2000 EQ_{4} 10 31.7 291°.69 0°.7/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.26	+17 39.6	1.458	2.314	16.3	21.4
10 8	2 45.42	+17 25.2	1.376	2.299	12.3	21.1
10 18	2 37.77	+16 56.6	1.314	2.284	7.6	20.8
10 28	2 28.17	+16 15.9	1.277	2.268	2.4	20.5
11 7	2 17.89	+15 27.9	1.267	2.253	3.3	20.5
11 17	2 8.38	+14 39.6	1.283	2.238	8.7	20.8
11 27	2 0.97	+13 58.7	1.323	2.223	13.6	21.0
12 7	1 56.52	+13 31.3	1.385	2.208	17.8	21.3

107877 2001 FZ_{88} 10 31.7 50°.58 0°.8/31.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.91	+15 33.9	1.131	2.004	18.8	18.6
10 8	2 46.44	+14 52.6	1.095	2.029	13.7	18.4
10 18	2 38.08	+13 57.9	1.080	2.054	8.1	18.2
10 28	2 28.14	+12 56.0	1.088	2.080	2.1	17.9
11 7	2 18.22	+11 55.4	1.121	2.106	4.1	18.1
11 17	2 9.81	+11 4.4	1.179	2.133	9.5	18.5
11 27	2 4.01	+10 29.5	1.261	2.160	14.2	18.9
12 7	2 1.32	+10 13.7	1.362	2.186	18.0	19.2

398422 2011 TR_4 10 31.7 242°.84 3°.2/29.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 50.56	+ 6 35.8	1.861	2.720	13.2	20.8
10 8	2 44.84	+ 6 12.1	1.791	2.717	9.7	20.6
10 18	2 37.04	+ 5 46.7	1.744	2.714	6.0	20.3
10 28	2 27.90	+ 5 23.9	1.725	2.711	3.2	20.2
11 7	2 18.44	+ 5 8.0	1.734	2.708	4.9	20.3
11 17	2 9.70	+ 5 2.7	1.771	2.704	8.5	20.5
11 27	2 2.61	+ 5 10.6	1.834	2.701	12.1	20.7
12 7	1 57.78	+ 5 32.6	1.918	2.697	15.2	20.9

113252 2002 RF_{134} 10 31.7 292°.05 5°.2/26.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.25	− 0 47.1	2.352	3.211	10.8	19.5
10 8	2 40.54	− 1 42.6	2.287	3.207	8.3	19.3
10 18	2 34.30	− 2 35.0	2.248	3.204	6.0	19.2
10 28	2 27.13	− 3 19.1	2.237	3.201	5.2	19.1
11 7	2 19.76	− 3 50.4	2.254	3.197	6.5	19.2
11 17	2 12.92	− 4 5.8	2.298	3.194	8.9	19.3
11 27	2 7.31	− 4 3.6	2.367	3.191	11.4	19.5
12 7	2 3.39	− 3 44.4	2.458	3.187	13.6	19.7

242801 2006 BB_{52} 10 31.7 133°.25 1°.8/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.81	+21 53.8	2.521	3.339	11.4	21.3
10 8	2 42.41	+21 45.5	2.446	3.346	8.7	21.2
10 18	2 35.42	+21 26.2	2.396	3.353	5.6	21.0
10 28	2 27.44	+20 56.9	2.374	3.360	2.6	20.8
11 7	2 19.26	+20 20.5	2.382	3.366	2.4	20.8
11 17	2 11.65	+19 40.5	2.420	3.372	5.3	21.0
11 27	2 5.34	+19 1.5	2.486	3.378	8.3	21.2
12 7	2 0.81	+18 27.5	2.577	3.384	11.0	21.4

265459 2004 YQ_{32} 10 31.7 272°.72 4°.4/ 4.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.66	+29 30.5	2.443	3.230	12.7	20.5
10 8	2 43.38	+29 47.1	2.349	3.218	10.3	20.3
10 18	2 36.18	+29 48.5	2.277	3.207	7.6	20.2
10 28	2 27.69	+29 33.7	2.232	3.195	5.2	20.0
11 7	2 18.78	+29 3.7	2.214	3.183	4.5	19.9
11 17	2 10.37	+28 21.6	2.226	3.171	6.2	20.0
11 27	2 3.34	+27 32.9	2.266	3.160	9.0	20.2
12 7	1 58.34	+26 43.4	2.330	3.148	11.6	20.3

199255 2006 BB_4 10 31.7 143°.37 0°.6/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.70	+13 47.7	2.686	3.527	10.2	21.7
10 8	2 41.43	+13 18.9	2.617	3.535	7.4	21.6
10 18	2 34.76	+12 44.2	2.573	3.543	4.4	21.4
10 28	2 27.26	+12 6.2	2.559	3.550	1.2	21.2
11 7	2 19.61	+11 28.2	2.575	3.558	2.4	21.3
11 17	2 12.49	+10 53.6	2.621	3.564	5.5	21.5
11 27	2 6.51	+10 25.8	2.695	3.571	8.4	21.7
12 7	2 2.13	+10 7.1	2.794	3.577	10.9	21.9

410952 2009 SD_{340} 10 31.7 22°.93 3°.5/ 3.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.43	+24 16.5	2.043	2.859	13.8	20.7
10 8	2 44.82	+24 44.1	1.968	2.862	10.8	20.5
10 18	2 37.08	+24 58.3	1.916	2.865	7.4	20.3
10 28	2 27.95	+24 58.4	1.890	2.868	4.3	20.2
11 7	2 18.45	+24 45.7	1.893	2.871	3.8	20.1
11 17	2 9.62	+24 23.6	1.924	2.875	6.6	20.3
11 27	2 2.45	+23 57.5	1.982	2.879	9.9	20.5
12 7	1 57.56	+23 32.7	2.064	2.883	12.9	20.7

411058 2009 VD_{48} 10 31.7 332°.92 2°.3/29.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.65	+ 9 29.5	1.954	2.817	12.5	21.4
10 8	2 41.21	+ 8 54.8	1.879	2.809	9.1	21.2
10 18	2 34.88	+ 8 15.3	1.828	2.800	5.5	21.0
10 28	2 27.34	+ 7 35.3	1.804	2.793	2.5	20.8
11 7	2 19.48	+ 6 59.6	1.808	2.786	4.2	20.9
11 17	2 12.22	+ 6 32.8	1.840	2.779	7.9	21.1
11 27	2 6.42	+ 6 18.5	1.897	2.772	11.4	21.3
12 7	2 2.67	+ 6 18.7	1.977	2.766	14.5	21.5

192434 1997 US_1 10 31.7 340°.57 0°.2/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.58	+17 21.5	2.213	3.058	11.9	20.3
10 8	2 40.22	+16 28.7	2.136	3.055	8.8	20.1
10 18	2 34.19	+15 24.7	2.084	3.054	5.2	19.9
10 28	2 27.13	+14 13.3	2.060	3.052	1.4	19.6
11 7	2 19.85	+12 59.6	2.065	3.050	2.5	19.7
11 17	2 13.16	+11 49.3	2.100	3.049	6.3	19.9
11 27	2 7.81	+10 48.0	2.162	3.047	9.7	20.1
12 7	2 4.30	+ 9 59.7	2.248	3.046	12.7	20.3

52334 Oberammergau 10 31.7 309°.03 0°.3/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.28	+16 11.0	1.417	2.278	16.4	18.7
10 8	2 45.48	+16 5.6	1.338	2.264	12.3	18.4
10 18	2 37.84	+15 48.1	1.280	2.251	7.5	18.1
10 28	2 28.23	+15 20.8	1.247	2.238	2.2	17.8
11 7	2 17.96	+14 48.2	1.240	2.226	3.4	17.8
11 17	2 8.49	+14 16.2	1.259	2.214	8.8	18.1
11 27	2 1.16	+13 51.7	1.302	2.202	13.7	18.4
12 7	1 56.82	+13 39.9	1.366	2.191	17.9	18.6

44197 1998 MX_{15} 10 31.7 276°.56 8°.5/25.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 49.03	− 6 33.9	1.789	2.648	13.6	17.8
10 8	2 43.82	− 7 47.3	1.724	2.635	11.1	17.6
10 18	2 36.49	− 8 52.4	1.683	2.622	9.1	17.4
10 28	2 27.80	− 9 41.0	1.667	2.610	8.6	17.4
11 7	2 18.75	−10 6.5	1.677	2.597	10.1	17.4
11 17	2 10.40	−10 5.3	1.711	2.584	12.7	17.6
11 27	2 3.71	− 9 37.1	1.768	2.571	15.5	17.7
12 7	1 59.30	− 8 44.7	1.843	2.558	18.0	17.9

171842 2001 KD_{10} 10 31.7 164°.74 0°.9/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.53	+20 56.7	2.223	3.050	12.5	20.6
10 8	2 43.09	+20 9.2	2.147	3.054	9.4	20.4
10 18	2 35.88	+19 8.1	2.095	3.058	5.8	20.2
10 28	2 27.60	+17 56.2	2.072	3.061	2.1	20.0
11 7	2 19.12	+16 38.5	2.078	3.064	2.3	20.0
11 17	2 11.33	+15 20.9	2.115	3.067	6.1	20.2
11 27	2 5.01	+14 9.8	2.180	3.069	9.5	20.5
12 7	2 0.66	+13 9.9	2.270	3.070	12.5	20.7

76917 2001 AN_4 10 31.7 257°.47 2°.4/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.53	+23 9.9	1.460	2.301	17.1	19.1
10 8	2 45.54	+22 43.6	1.385	2.297	13.2	18.9
10 18	2 37.78	+21 56.4	1.332	2.293	8.6	18.6
10 28	2 28.19	+20 50.0	1.302	2.289	3.8	18.3
11 7	2 18.14	+19 30.4	1.300	2.285	3.5	18.3
11 17	2 9.06	+18 6.2	1.324	2.281	8.2	18.6
11 27	2 2.18	+16 47.7	1.373	2.277	12.9	18.8
12 7	1 58.25	+15 43.0	1.444	2.273	16.9	19.1

212183 2005 GX_{80} 10 31.7 54°.30 0°.4/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.91	+17 26.2	1.711	2.561	14.6	20.4
10 8	2 43.77	+17 3.9	1.649	2.570	10.8	20.2
10 18	2 36.44	+16 29.7	1.610	2.579	6.5	20.0
10 28	2 27.78	+15 46.6	1.597	2.588	2.0	19.7
11 7	2 18.88	+14 59.6	1.612	2.598	2.8	19.8
11 17	2 10.86	+14 14.5	1.654	2.607	7.3	20.1
11 27	2 4.65	+13 37.0	1.723	2.617	11.3	20.4
12 7	2 0.85	+13 11.3	1.814	2.627	14.6	20.6

263207 2008 AJ_{24} 10 31.7 232°.58 0°.5/31.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.44	+14 50.1	1.568	2.423	15.4	21.5
10 8	2 46.73	+14 28.5	1.492	2.416	11.5	21.3
10 18	2 38.42	+13 56.1	1.438	2.409	6.9	21.0
10 28	2 28.37	+13 16.1	1.411	2.402	1.9	20.7
11 7	2 17.83	+12 33.7	1.410	2.395	3.5	20.8
11 17	2 8.12	+11 54.9	1.437	2.387	8.5	21.1
11 27	2 0.43	+11 26.1	1.490	2.379	13.0	21.3
12 7	1 55.51	+11 11.4	1.564	2.371	16.9	21.5

60456 2000 CD_{108} 10 31.7 240°.20 1°.4/30.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.93	+12 58.7	2.548	3.396	10.4	19.3
10 8	2 40.30	+12 0.2	2.464	3.387	7.6	19.2
10 18	2 34.19	+10 54.3	2.406	3.377	4.5	18.9
10 28	2 27.15	+ 9 44.8	2.377	3.368	1.6	18.7
11 7	2 19.88	+ 8 36.5	2.379	3.358	3.1	18.8
11 17	2 13.09	+ 7 34.1	2.410	3.348	6.3	19.0
11 27	2 7.43	+ 6 42.2	2.469	3.338	9.4	19.2
12 7	2 3.40	+ 6 3.5	2.553	3.328	12.0	19.4

186658 2003 WD_{193} 10 31.7 291°.86 1°.2/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.79	+17 56.9	1.412	2.267	16.8	20.5
10 8	2 46.71	+17 58.7	1.330	2.252	12.8	20.2
10 18	2 38.66	+17 47.1	1.268	2.237	8.0	19.9
10 28	2 28.50	+17 23.0	1.231	2.221	2.8	19.6
11 7	2 17.58	+16 50.4	1.220	2.206	3.4	19.6
11 17	2 7.43	+16 15.1	1.235	2.191	8.8	19.9
11 27	1 59.50	+15 44.8	1.275	2.176	13.8	20.1
12 7	1 54.68	+15 25.5	1.335	2.162	18.1	20.3

242228 2003 SN_{80} 10 31.7 38°.03 8°.1/ 8.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.54	+38 43.3	1.955	2.705	16.6	19.2
10 8	2 45.23	+39 19.0	1.889	2.718	14.2	19.1
10 18	2 37.44	+39 30.2	1.843	2.731	11.6	18.9
10 28	2 28.08	+39 14.0	1.819	2.745	9.3	18.8
11 7	2 18.39	+38 31.3	1.820	2.759	8.2	18.8
11 17	2 9.64	+37 26.5	1.847	2.773	8.8	18.8
11 27	2 2.93	+36 7.9	1.900	2.788	10.8	19.0
12 7	1 58.91	+34 44.8	1.977	2.803	13.1	19.2

222401 2001 FV_{17} 10 31.7 142°.19 2°.5/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.44	+23 12.9	2.438	3.250	12.0	20.2
10 8	2 43.75	+23 24.5	2.360	3.254	9.2	20.0
10 18	2 36.31	+23 24.7	2.306	3.257	6.2	19.9
10 28	2 27.75	+23 13.5	2.279	3.260	3.3	19.7
11 7	2 18.91	+22 52.8	2.282	3.263	2.9	19.7
11 17	2 10.63	+22 25.9	2.314	3.266	5.6	19.8
11 27	2 3.72	+21 57.0	2.375	3.269	8.6	20.0
12 7	1 58.72	+21 30.7	2.461	3.271	11.3	20.2

450404 2005 SB_{232} 10 31.7 344°.73 2°.0/ 1.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 48.14	+17 19.7	1.356	2.221	16.8	21.1
10 8	2 44.11	+17 59.5	1.278	2.204	12.8	20.8
10 18	2 37.15	+18 29.6	1.220	2.189	8.2	20.5
10 28	2 28.10	+18 49.7	1.186	2.175	3.3	20.2
11 7	2 18.27	+19 1.0	1.177	2.163	3.6	20.2
11 17	2 9.18	+19 6.8	1.193	2.152	8.6	20.4
11 27	2 2.25	+19 12.4	1.233	2.143	13.5	20.7
12 7	1 58.42	+19 22.8	1.293	2.135	17.7	20.9

410832 2009 QO_8 10 31.7 168°.64 17°.2/15.2 14 C

9 28	3 29.72	+59 41.2	1.947	2.497	21.9	23.7
10 8	3 18.36	+62 5.6	1.878	2.506	20.6	23.6
10 18	2 59.73	+63 58.8	1.823	2.513	19.3	23.5
10 28	2 34.78	+65 4.9	1.784	2.519	18.2	23.4
11 7	2 6.90	+65 12.5	1.763	2.523	17.4	23.4
11 17	1 40.92	+64 20.9	1.763	2.525	17.2	23.3
11 27	1 20.89	+62 42.3	1.782	2.526	17.6	23.4
12 7	1 8.43	+60 36.0	1.820	2.525	18.5	23.5

465858 2010 RG_{99} 10 31.7 96°.46 0°.5/ 1.1 17

9 28	2 54.04	+18 42.5	1.400	2.251	17.2	21.6
10 8	2 47.78	+18 3.4	1.350	2.270	12.8	21.4
10 18	2 38.89	+17 8.4	1.320	2.289	7.7	21.2
10 28	2 28.46	+16 1.8	1.316	2.308	2.3	20.9
11 7	2 17.93	+14 50.8	1.340	2.326	3.3	21.0
11 17	2 8.66	+13 43.8	1.390	2.344	8.4	21.3
11 27	2 1.75	+12 48.6	1.466	2.361	12.8	21.7
12 7	1 57.75	+12 10.0	1.563	2.378	16.5	21.9

225348 1998 SY_{176} 10 31.7 355°.00 4°.3/28.6 18

9 28	2 45.01	+ 5 16.8	1.696	2.570	13.5	19.2
10 8	2 40.92	+ 4 28.2	1.632	2.566	10.0	19.0
10 18	2 34.79	+ 3 38.2	1.592	2.562	6.4	18.7
10 28	2 27.36	+ 2 52.9	1.577	2.560	4.3	18.6
11 7	2 19.64	+ 2 18.1	1.590	2.558	6.0	18.7
11 17	2 12.64	+ 1 58.6	1.628	2.557	9.6	18.9
11 27	2 7.28	+ 1 57.3	1.691	2.557	13.1	19.1
12 7	2 4.15	+ 2 14.4	1.774	2.557	16.1	19.4

266801 2009 SR_{338} 10 31.8 38°.84 5°.9/ 5.9 17

9 28	2 48.95	+32 37.5	1.919	2.706	15.6	20.0
10 8	2 43.90	+32 52.4	1.852	2.717	12.8	19.9
10 18	2 36.58	+32 45.9	1.806	2.729	9.7	19.7
10 28	2 27.85	+32 16.8	1.784	2.741	7.0	19.6
11 7	2 18.85	+31 27.4	1.789	2.753	5.9	19.5
11 17	2 10.72	+30 22.7	1.820	2.765	7.4	19.6
11 27	2 4.45	+29 10.8	1.879	2.778	10.2	19.8
12 7	2 0.65	+27 59.8	1.961	2.791	13.0	20.1

159808 2003 SL_{71} 10 31.8 306°.85 4°.1/27.4 18

9 28	2 44.04	+ 6 40.7	2.149	3.013	11.4	20.0
10 8	2 39.83	+ 5 0.2	2.078	3.007	8.4	19.8
10 18	2 33.99	+ 3 15.0	2.033	3.001	5.5	19.6
10 28	2 27.12	+ 1 31.9	2.017	2.996	4.1	19.5
11 7	2 20.03	− 0 1.5	2.031	2.990	5.8	19.6
11 17	2 13.51	− 1 19.1	2.073	2.984	8.8	19.8
11 27	2 8.29	− 2 16.4	2.140	2.979	11.8	19.9
12 7	2 4.88	− 2 52.0	2.229	2.973	14.4	20.1

362330 2010 JJ_{84} 10 31.8 83°.28 3°.2/29.9 17

9 28	2 54.74	+10 47.8	1.241	2.111	17.7	21.5
10 8	2 48.29	+ 9 42.8	1.204	2.136	12.8	21.3
10 18	2 39.14	+ 8 30.5	1.187	2.161	7.6	21.1
10 28	2 28.51	+ 7 18.8	1.196	2.185	3.4	20.9
11 7	2 17.92	+ 6 16.4	1.231	2.209	5.6	21.1
11 17	2 8.77	+ 5 30.6	1.292	2.232	10.3	21.5
11 27	2 2.13	+ 5 5.7	1.376	2.255	14.6	21.8
12 7	1 58.50	+ 5 2.5	1.480	2.277	18.2	22.1

83329 2001 RR_{130} 10 31.8 237°.70 3°.5/28.7 18

9 28	2 47.15	+ 6 40.2	2.124	2.984	11.7	19.5
10 8	2 42.17	+ 5 42.2	2.049	2.976	8.7	19.3
10 18	2 35.41	+ 4 40.8	1.999	2.968	5.5	19.1
10 28	2 27.54	+ 3 41.4	1.977	2.960	3.5	19.0
11 7	2 19.37	+ 2 49.5	1.984	2.951	5.1	19.1
11 17	2 11.79	+ 2 9.8	2.019	2.943	8.3	19.2
11 27	2 5.58	+ 1 45.9	2.080	2.934	11.5	19.4
12 7	2 1.30	+ 1 39.0	2.163	2.925	14.3	19.6

35863 1999 JX_{67} 10 31.8 67°.81 2°.6/30.1 18 R

9 28	2 53.33	+10 2.4	1.496	2.359	15.6	18.2
10 8	2 46.86	+ 9 20.5	1.461	2.390	11.3	18.0
10 18	2 38.14	+ 8 33.9	1.448	2.420	6.7	17.8
10 28	2 28.23	+ 7 48.1	1.462	2.451	2.8	17.7
11 7	2 18.40	+ 7 9.0	1.503	2.481	4.7	17.9
11 17	2 9.79	+ 6 41.8	1.571	2.511	8.9	18.2
11 27	2 3.31	+ 6 29.7	1.665	2.541	12.7	18.5
12 7	1 59.43	+ 6 33.6	1.779	2.570	15.8	18.8

86181 1999 RU_{222} 10 31.8 76°.91 4°.0/ 4.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 48.59	+28 39.1	2.107	2.907	14.0	18.6
10 8	2 43.37	+28 32.8	2.035	2.916	11.1	18.5
10 18	2 36.16	+28 8.6	1.986	2.924	7.9	18.3
10 28	2 27.74	+27 26.8	1.962	2.933	5.0	18.1
11 7	2 19.09	+26 30.4	1.966	2.942	4.1	18.1
11 17	2 11.19	+25 24.4	1.999	2.951	6.4	18.2
11 27	2 4.93	+24 16.0	2.060	2.960	9.4	18.4
12 7	2 0.86	+23 11.7	2.145	2.968	12.3	18.7

73179 2002 HO_{10} 10 31.8 195°.87 3°.0/ 3.4 18

9 28	2 50.54	+25 43.4	2.100	2.909	13.7	20.1
10 8	2 44.85	+25 26.5	2.016	2.907	10.7	19.9
10 18	2 37.09	+24 52.8	1.956	2.905	7.3	19.7
10 28	2 28.01	+24 3.0	1.922	2.902	4.0	19.5
11 7	2 18.61	+23 0.5	1.917	2.898	3.4	19.5
11 17	2 9.90	+21 50.7	1.941	2.894	6.4	19.6
11 27	2 2.83	+20 40.9	1.994	2.890	9.9	19.8
12 7	1 58.00	+19 37.5	2.071	2.885	13.0	20.0

481714 2008 DT 10 31.8 330°.94 6°.3/26.8 17

9 28	2 45.82	+ 1 6.5	1.668	2.543	13.7	21.3
10 8	2 41.56	− 0 11.7	1.605	2.535	10.4	21.1
10 18	2 35.20	− 1 28.7	1.566	2.528	7.5	20.9
10 28	2 27.49	− 2 36.4	1.552	2.521	6.4	20.8
11 7	2 19.48	− 3 27.3	1.564	2.514	8.1	20.9
11 17	2 12.19	− 3 56.0	1.602	2.508	11.3	21.1
11 27	2 6.57	− 4 0.2	1.663	2.503	14.6	21.3
12 7	2 3.22	− 3 40.6	1.743	2.497	17.5	21.5

331470 3171 T_{-3} 10 31.8 35°.68 1°.2/31.0 17

9 28	2 48.34	+15 29.6	1.035	1.918	19.3	20.4
10 8	2 44.13	+14 34.7	0.997	1.936	14.1	20.1
10 18	2 36.90	+13 24.9	0.978	1.954	8.3	19.9
10 28	2 27.94	+12 7.9	0.982	1.974	2.3	19.6
11 7	2 18.90	+10 53.9	1.010	1.995	4.5	19.8
11 17	2 11.31	+ 9 52.7	1.063	2.017	10.1	20.2
11 27	2 6.35	+ 9 11.5	1.137	2.039	15.1	20.6
12 7	2 4.54	+ 8 52.9	1.230	2.062	19.0	20.9

434314 2004 GU_{22} 10 31.8 191°.93 0°.2/31.9 18

9 28	2 52.42	+16 43.5	1.856	2.697	14.0	22.2
10 8	2 46.35	+16 24.1	1.779	2.696	10.4	22.0
10 18	2 38.04	+15 53.8	1.726	2.694	6.3	21.7
10 28	2 28.29	+15 15.1	1.700	2.692	1.8	21.4
11 7	2 18.17	+14 32.1	1.704	2.689	2.8	21.5
11 17	2 8.81	+13 50.3	1.735	2.686	7.3	21.8
11 27	2 1.22	+13 15.3	1.794	2.682	11.3	22.0
12 7	1 56.04	+12 51.3	1.876	2.677	14.7	22.2

70550 1999 TN_{138} 10 31.8 74°.40 0°.6/ 1.2 18

9 28	2 49.87	+17 59.6	1.679	2.527	14.9	19.6
10 8	2 44.54	+17 35.6	1.616	2.535	11.1	19.4
10 18	2 36.95	+16 59.0	1.576	2.544	6.7	19.1
10 28	2 27.97	+16 12.6	1.562	2.553	2.1	18.8
11 7	2 18.75	+15 21.6	1.576	2.562	2.8	18.9
11 17	2 10.43	+14 32.0	1.617	2.570	7.4	19.2
11 27	2 3.99	+13 50.1	1.685	2.579	11.5	19.5
12 7	2 0.03	+13 20.5	1.774	2.588	14.9	19.7

70939 1999 WS_5 10 31.8 340°.39 0°.3/31.9 18

9 28	2 52.34	+14 25.5	1.505	2.362	15.8	19.5
10 8	2 46.81	+14 45.4	1.432	2.357	11.8	19.3
10 18	2 38.57	+14 57.7	1.381	2.352	7.2	19.0
10 28	2 28.48	+15 3.4	1.355	2.347	2.1	18.7
11 7	2 17.84	+15 5.3	1.357	2.343	3.2	18.7
11 17	2 8.04	+15 6.9	1.385	2.339	8.3	19.0
11 27	2 0.31	+15 12.7	1.438	2.336	12.8	19.3
12 7	1 55.47	+15 26.5	1.513	2.333	16.7	19.5

4853 Marielukac 10 31.8 82°.72 4°.7/28.4 18

9 28	2 51.67	+ 4 36.1	1.672	2.536	14.2	17.0
10 8	2 45.47	+ 3 27.9	1.636	2.563	10.4	16.9
10 18	2 37.27	+ 2 20.1	1.624	2.590	6.8	16.7
10 28	2 28.01	+ 1 19.9	1.638	2.617	4.7	16.7
11 7	2 18.79	+ 0 33.4	1.681	2.643	6.4	16.8
11 17	2 10.62	+ 0 4.9	1.751	2.669	9.7	17.1
11 27	2 4.33	− 0 3.7	1.845	2.695	12.9	17.3
12 7	2 0.37	+ 0 6.8	1.961	2.720	15.6	17.6

493873 2015 XP_{102} 10 31.8 275°.09 0°.5/ 1.2 18

9 28	2 45.63	+19 4.6	2.253	3.090	12.0	21.2
10 8	2 41.07	+18 20.6	2.167	3.081	9.0	21.0
10 18	2 34.78	+17 24.4	2.105	3.071	5.5	20.8
10 28	2 27.38	+16 18.8	2.071	3.062	1.7	20.5
11 7	2 19.70	+15 8.3	2.066	3.052	2.3	20.6
11 17	2 12.56	+13 58.5	2.091	3.042	6.1	20.8
11 27	2 6.76	+12 55.3	2.144	3.033	9.6	21.0
12 7	2 2.83	+12 3.4	2.221	3.023	12.7	21.2

516724 2009 BU_{182} 10 31.8 288°.43 1°.0/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 49.97	+12 48.8	1.747	2.603	14.0	21.8
10 8	2 44.79	+12 33.0	1.661	2.587	10.4	21.5
10 18	2 37.26	+12 9.5	1.599	2.570	6.2	21.3
10 28	2 28.12	+11 41.3	1.562	2.554	1.8	20.9
11 7	2 18.43	+11 12.9	1.554	2.538	3.5	21.0
11 17	2 9.37	+10 48.9	1.574	2.522	8.1	21.3
11 27	2 2.02	+10 34.4	1.619	2.505	12.3	21.5
12 7	1 57.14	+10 32.6	1.686	2.489	16.0	21.7

482882 2014 EE_{42} 10 31.8 137°.47 0°.3/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.38	+15 43.8	1.888	2.730	13.7	21.5
10 8	2 46.25	+15 45.5	1.818	2.734	10.2	21.3
10 18	2 37.95	+15 38.8	1.771	2.739	6.2	21.1
10 28	2 28.28	+15 25.1	1.752	2.743	1.8	20.8
11 7	2 18.28	+15 7.6	1.761	2.746	2.7	20.9
11 17	2 9.06	+14 50.1	1.799	2.750	7.0	21.2
11 27	2 1.56	+14 37.2	1.864	2.754	10.8	21.4
12 7	1 56.43	+14 32.4	1.953	2.757	14.1	21.7

435762 2008 UG_{210} 10 31.8 145°.48 0°.6/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 53.10	+16 59.1	2.024	2.859	13.2	21.3
10 8	2 46.61	+16 53.9	1.956	2.868	9.9	21.1
10 18	2 38.09	+16 39.3	1.911	2.877	6.0	20.9
10 28	2 28.31	+16 16.9	1.894	2.885	1.9	20.6
11 7	2 18.27	+15 49.9	1.907	2.892	2.5	20.7
11 17	2 9.01	+15 22.6	1.949	2.899	6.6	21.0
11 27	2 1.41	+14 59.5	2.019	2.906	10.2	21.2
12 7	1 56.07	+14 44.4	2.112	2.912	13.3	21.4

266722 2009 RL_{12} 10 31.8 16°.68 2°.1/30.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.93	+11 41.7	1.714	2.582	13.7	19.6
10 8	2 40.82	+10 50.1	1.655	2.587	10.0	19.4
10 18	2 34.71	+ 9 51.2	1.619	2.593	5.9	19.2
10 28	2 27.39	+ 8 50.2	1.609	2.599	2.3	19.0
11 7	2 19.84	+ 7 53.4	1.626	2.606	4.2	19.1
11 17	2 13.08	+ 7 6.8	1.671	2.613	8.2	19.4
11 27	2 7.96	+ 6 34.9	1.740	2.622	11.9	19.6
12 7	2 5.04	+ 6 20.1	1.832	2.630	15.1	19.9

159359 2007 FX_{35} 10 31.8 110°.11 0°.0/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.77	+14 35.2	2.384	3.222	11.4	19.8
10 8	2 43.89	+14 34.0	2.317	3.232	8.4	19.7
10 18	2 36.36	+14 26.7	2.274	3.242	5.0	19.5
10 28	2 27.83	+14 14.9	2.260	3.251	1.4	19.2
11 7	2 19.10	+14 1.2	2.275	3.260	2.3	19.3
11 17	2 10.97	+13 48.4	2.321	3.269	5.8	19.6
11 27	2 4.20	+13 39.9	2.395	3.278	9.0	19.8
12 7	1 59.27	+13 38.0	2.493	3.287	11.7	20.0

45677 2000 EJ_{120} 10 31.8 246°.68 9°.1/21.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.74	−14 47.5	2.400	3.232	11.5	19.0
10 8	2 40.94	−16 11.1	2.353	3.228	10.0	18.9
10 18	2 34.60	−17 22.1	2.330	3.225	9.2	18.8
10 28	2 27.34	−18 13.9	2.332	3.221	9.3	18.8
11 7	2 19.91	−18 42.1	2.360	3.217	10.4	18.9
11 17	2 13.04	−18 44.8	2.411	3.213	11.9	19.0
11 27	2 7.43	−18 22.3	2.483	3.209	13.6	19.1
12 7	2 3.53	−17 37.5	2.574	3.205	15.1	19.2

126690 2002 CQ_{225} 10 31.8 160°.97 7°.3/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 54.71	+36 33.5	2.062	2.814	15.8	19.9
10 8	2 48.28	+37 4.3	1.983	2.818	13.3	19.7
10 18	2 39.32	+37 12.8	1.925	2.822	10.6	19.5
10 28	2 28.71	+36 56.0	1.890	2.826	8.3	19.4
11 7	2 17.67	+36 14.1	1.882	2.829	7.3	19.4
11 17	2 7.47	+35 11.4	1.902	2.832	8.3	19.4
11 27	1 59.27	+33 55.8	1.948	2.834	10.6	19.6
12 7	1 53.78	+32 36.5	2.019	2.836	13.2	19.8

294386 2007 VM_{149} 10 31.8 293°.62 1°.6/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.72	+12 51.2	1.749	2.609	13.8	21.0
10 8	2 43.10	+12 10.6	1.665	2.593	10.2	20.7
10 18	2 36.24	+11 20.5	1.603	2.576	6.1	20.5
10 28	2 27.87	+10 25.2	1.569	2.560	2.0	20.2
11 7	2 19.02	+ 9 30.6	1.562	2.543	3.9	20.3
11 17	2 10.79	+ 8 42.9	1.582	2.527	8.3	20.5
11 27	2 4.23	+ 8 7.8	1.628	2.511	12.5	20.7
12 7	2 0.04	+ 7 49.0	1.696	2.495	16.1	20.9

423288 2005 EB_{6} 10 31.8 177°.74 2°.5/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 55.26	+21 35.8	1.725	2.552	15.5	21.6
10 8	2 48.71	+21 42.4	1.650	2.554	11.9	21.3
10 18	2 39.60	+21 34.3	1.597	2.555	7.7	21.1
10 28	2 28.80	+21 11.7	1.571	2.556	3.6	20.9
11 7	2 17.56	+20 37.6	1.572	2.556	3.3	20.8
11 17	2 7.19	+19 57.1	1.602	2.556	7.4	21.1
11 27	1 58.84	+19 17.2	1.659	2.555	11.5	21.3
12 7	1 53.24	+18 44.2	1.739	2.553	15.1	21.6

291534 2006 EE_{31} 10 31.8 268°.99 4°.5/27.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 45.09	+ 2 35.5	2.300	3.161	10.9	20.5
10 8	2 40.53	+ 1 30.2	2.230	3.155	8.2	20.3
10 18	2 34.42	+ 0 24.9	2.186	3.148	5.6	20.1
10 28	2 27.32	− 0 34.9	2.170	3.142	4.5	20.1
11 7	2 19.99	− 1 23.9	2.182	3.136	5.9	20.1
11 17	2 13.19	− 1 58.1	2.223	3.129	8.6	20.3
11 27	2 7.62	− 2 15.0	2.288	3.123	11.3	20.5
12 7	2 3.77	− 2 14.1	2.376	3.116	13.7	20.6

31873 2000 EA_{130} 10 31.8 150°.06 1°.9/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.68	+11 36.4	1.806	2.660	13.8	19.9
10 8	2 45.70	+10 55.3	1.742	2.667	10.1	19.7
10 18	2 37.61	+10 7.2	1.702	2.674	6.0	19.5
10 28	2 28.22	+ 9 16.6	1.689	2.680	2.2	19.2
11 7	2 18.60	+ 8 29.1	1.705	2.685	4.0	19.4
11 17	2 9.82	+ 7 50.0	1.750	2.690	8.0	19.6
11 27	2 2.81	+ 7 23.7	1.820	2.695	11.8	19.9
12 7	1 58.13	+ 7 12.7	1.913	2.699	15.0	20.1

473358 2015 TS_{252} 10 31.8 70°.89 0°.8/31.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.18	+12 49.5	1.923	2.772	13.2	20.8
10 8	2 45.10	+12 37.6	1.873	2.795	9.7	20.6
10 18	2 37.13	+12 19.5	1.846	2.817	5.7	20.4
10 28	2 28.06	+11 58.0	1.847	2.839	1.6	20.2
11 7	2 18.90	+11 37.0	1.877	2.861	3.0	20.4
11 17	2 10.61	+11 20.1	1.936	2.883	6.9	20.6
11 27	2 4.00	+11 10.9	2.022	2.905	10.4	20.9
12 7	1 59.58	+11 11.6	2.131	2.926	13.4	21.1

209757 2005 EP_{224} 10 31.8 296°.23 8°.7/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 55.36	− 9 28.5	1.783	2.626	14.4	20.1
10 8	2 48.43	− 9 54.4	1.723	2.622	11.8	19.9
10 18	2 39.25	−10 6.9	1.685	2.618	9.6	19.8
10 28	2 28.68	− 9 59.6	1.673	2.614	8.7	19.7
11 7	2 17.85	− 9 28.4	1.688	2.611	9.9	19.8
11 17	2 7.90	− 8 32.7	1.729	2.607	12.3	19.9
11 27	1 59.81	− 7 14.7	1.794	2.604	15.0	20.1
12 7	1 54.21	− 5 38.8	1.880	2.601	17.5	20.3

327062 2004 TF_{203} 10 31.8 270°.15 1°.3/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.07	+21 39.6	2.329	3.156	12.0	20.4
10 8	2 41.41	+21 3.9	2.238	3.144	9.1	20.1
10 18	2 35.03	+20 14.7	2.171	3.132	5.8	19.9
10 28	2 27.52	+19 13.9	2.132	3.120	2.4	19.7
11 7	2 19.70	+18 5.7	2.122	3.107	2.3	19.7
11 17	2 12.41	+16 55.2	2.142	3.095	5.8	19.9
11 27	2 6.43	+15 48.5	2.189	3.083	9.3	20.1
12 7	2 2.32	+14 50.7	2.262	3.070	12.3	20.2

114863 2003 QH_{1} 10 31.8 21°.50 0°.8/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.68	+18 44.0	1.608	2.463	15.1	18.7
10 8	2 41.55	+18 20.1	1.551	2.474	11.2	18.5
10 18	2 35.22	+17 42.7	1.517	2.485	6.9	18.3
10 28	2 27.57	+16 55.1	1.508	2.498	2.3	18.0
11 7	2 19.71	+16 2.6	1.525	2.512	2.8	18.1
11 17	2 12.74	+15 11.5	1.570	2.526	7.2	18.4
11 27	2 7.60	+14 28.2	1.640	2.541	11.3	18.7
12 7	2 4.84	+13 57.2	1.732	2.557	14.7	19.0

20646 Nikhilgupta 10 31.8 66°.00 0°.6/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.55	+18 3.0	2.084	2.924	12.7	19.5
10 8	2 42.54	+17 41.4	2.014	2.930	9.5	19.3
10 18	2 35.68	+17 9.1	1.968	2.935	5.8	19.1
10 28	2 27.70	+16 28.8	1.950	2.940	1.8	18.8
11 7	2 19.48	+15 44.2	1.960	2.946	2.4	18.9
11 17	2 11.94	+15 0.1	1.999	2.951	6.3	19.1
11 27	2 5.89	+14 21.6	2.065	2.957	9.8	19.4
12 7	2 1.86	+13 52.6	2.155	2.962	12.8	19.6

268804 2006 UF_{249} 10 31.8 330°.92 0°.3/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.11	+16 8.6	1.163	2.040	18.1	21.2
10 8	2 43.60	+15 41.2	1.091	2.026	13.6	20.9
10 18	2 36.97	+14 57.8	1.039	2.013	8.2	20.6
10 28	2 28.18	+14 2.5	1.009	2.001	2.3	20.2
11 7	2 18.69	+13 2.6	1.004	1.990	4.0	20.3
11 17	2 10.15	+12 7.4	1.023	1.980	10.0	20.6
11 27	2 4.03	+11 25.8	1.064	1.971	15.4	20.9
12 7	2 1.19	+11 3.7	1.123	1.963	20.0	21.1

316833 2000 BC_{52} 10 31.8 313°.30 3°.3/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.89	− 1 14.4	4.091	4.941	6.8	20.8
10 8	2 36.17	− 1 49.6	4.022	4.937	5.2	20.7
10 18	2 31.62	− 2 22.4	3.980	4.932	3.8	20.6
10 28	2 26.56	− 2 50.4	3.967	4.928	3.3	20.6
11 7	2 21.40	− 3 11.2	3.984	4.924	4.1	20.6
11 17	2 16.50	− 3 23.2	4.029	4.920	5.5	20.7
11 27	2 12.24	− 3 25.3	4.102	4.915	7.1	20.8
12 7	2 8.92	− 3 17.1	4.198	4.911	8.6	21.0

504501 2008 LD_2 10 31.8 294°.41 3°.1/ 3.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 48.71	+29 33.8	1.115	1.956	21.3	20.6
10 8	2 45.03	+27 56.2	1.035	1.945	16.8	20.3
10 18	2 37.88	+25 34.3	0.974	1.933	11.3	20.0
10 28	2 28.42	+22 31.3	0.937	1.922	5.4	19.6
11 7	2 18.40	+19 0.7	0.925	1.911	4.0	19.5
11 17	2 9.64	+15 24.6	0.940	1.901	10.0	19.8
11 27	2 3.67	+12 6.7	0.979	1.890	16.0	20.1
12 7	2 1.28	+ 9 23.7	1.040	1.880	21.2	20.4

20938 1075 $T\text{-}_2$ 10 31.8 122°.54 3°.8/ 3.2 18

9 28	2 57.39	+24 44.8	1.621	2.439	16.7	19.5
10 8	2 50.32	+25 0.7	1.559	2.454	13.0	19.3
10 18	2 40.55	+24 58.5	1.519	2.469	8.9	19.1
10 28	2 29.09	+24 37.6	1.504	2.483	4.9	18.9
11 7	2 17.34	+24 0.9	1.516	2.497	4.2	18.9
11 17	2 6.70	+23 14.2	1.557	2.510	7.7	19.1
11 27	1 58.34	+22 25.5	1.624	2.522	11.6	19.4
12 7	1 52.94	+21 42.3	1.714	2.533	15.1	19.6

155558 1999 VO_{127} 10 31.8 9°.65 0°.8/31.2 18

9 28	2 47.61	+13 34.5	1.999	2.852	12.7	20.4
10 8	2 42.66	+13 12.4	1.929	2.852	9.3	20.2
10 18	2 35.81	+12 42.9	1.882	2.853	5.5	20.0
10 28	2 27.77	+12 9.3	1.862	2.854	1.6	19.7
11 7	2 19.46	+11 35.5	1.871	2.855	3.0	19.8
11 17	2 11.81	+11 5.9	1.908	2.856	6.9	20.1
11 27	2 5.66	+10 44.8	1.972	2.857	10.5	20.3
12 7	2 1.58	+10 34.9	2.059	2.859	13.6	20.5

276208 2002 QD_{74} 10 31.8 120°.21 5°.6/26.4 18

9 28	2 45.75	− 2 28.9	2.400	3.256	10.7	20.7
10 8	2 40.91	− 3 28.7	2.343	3.259	8.3	20.6
10 18	2 34.60	− 4 23.9	2.312	3.262	6.3	20.5
10 28	2 27.41	− 5 9.5	2.308	3.265	5.6	20.4
11 7	2 20.07	− 5 40.9	2.333	3.267	6.8	20.5
11 17	2 13.28	− 5 55.4	2.384	3.270	9.0	20.7
11 27	2 7.71	− 5 51.7	2.461	3.273	11.3	20.8
12 7	2 3.80	− 5 30.8	2.559	3.276	13.4	21.0

398206 2010 NP_6 10 31.8 61°.49 7°.9/25.6 18

9 28	2 47.84	− 4 34.8	1.757	2.621	13.6	20.1
10 8	2 42.77	− 5 57.8	1.719	2.635	10.7	20.0
10 18	2 35.79	− 7 12.2	1.705	2.650	8.5	19.9
10 28	2 27.74	− 8 10.2	1.716	2.665	7.9	19.9
11 7	2 19.61	− 8 45.8	1.754	2.680	9.4	20.0
11 17	2 12.35	− 8 56.1	1.817	2.695	11.8	20.2
11 27	2 6.76	− 8 41.4	1.902	2.710	14.3	20.4
12 7	2 3.33	− 8 4.3	2.006	2.725	16.6	20.6

156851 2003 CY_{15} 10 31.8 253°.21 1°.0/31.1 18

9 28	2 51.09	+13 53.0	1.755	2.607	14.2	21.4
10 8	2 45.63	+13 24.1	1.671	2.594	10.5	21.2
10 18	2 37.81	+12 45.6	1.609	2.580	6.3	20.9
10 28	2 28.38	+12 0.8	1.574	2.566	1.8	20.6
11 7	2 18.44	+11 14.9	1.567	2.551	3.5	20.6
11 17	2 9.16	+10 33.6	1.589	2.536	8.1	20.9
11 27	2 1.64	+10 2.7	1.636	2.521	12.4	21.1
12 7	1 56.60	+ 9 45.9	1.705	2.505	16.0	21.3

226261 2003 AN_{25} 10 31.8 239°.47 2°.9/29.8 18

9 28	2 51.72	+ 8 35.4	1.852	2.708	13.4	20.5
10 8	2 45.93	+ 7 56.9	1.770	2.695	9.9	20.2
10 18	2 37.91	+ 7 13.6	1.711	2.682	6.1	20.0
10 28	2 28.41	+ 6 30.1	1.680	2.668	3.0	19.8
11 7	2 18.44	+ 5 51.7	1.678	2.653	4.8	19.8
11 17	2 9.11	+ 5 23.6	1.703	2.638	8.7	20.1
11 27	2 1.44	+ 5 9.8	1.755	2.622	12.6	20.3
12 7	1 56.11	+ 5 12.3	1.828	2.606	15.9	20.5

383076 2005 SE_{29} 10 31.8 153°.11 3°.3/ 2.9 18

9 28	2 53.75	+23 43.2	1.702	2.526	15.8	21.3
10 8	2 47.66	+23 53.1	1.629	2.529	12.3	21.1
10 18	2 39.02	+23 46.6	1.579	2.533	8.3	20.9
10 28	2 28.72	+23 23.5	1.554	2.536	4.4	20.7
11 7	2 18.00	+22 46.4	1.557	2.539	3.8	20.6
11 17	2 8.17	+22 0.9	1.587	2.541	7.4	20.9
11 27	2 0.38	+21 14.3	1.644	2.544	11.4	21.1
12 7	1 55.33	+20 33.5	1.724	2.546	14.9	21.3

469835 2005 ST_{249} 10 31.8 11°.65 3°.6/29.9 18

9 28	2 44.19	+10 16.2	0.932	1.833	19.3	20.1
10 8	2 41.50	+ 9 28.6	0.889	1.837	14.1	19.9
10 18	2 35.63	+ 8 32.4	0.864	1.843	8.5	19.6
10 28	2 27.78	+ 7 36.4	0.861	1.851	3.8	19.4
11 7	2 19.62	+ 6 50.5	0.880	1.861	6.3	19.6
11 17	2 12.77	+ 6 22.6	0.921	1.873	11.7	19.9
11 27	2 8.54	+ 6 17.7	0.982	1.886	16.7	20.2
12 7	2 7.57	+ 6 36.1	1.061	1.901	20.8	20.5

33457 Cutillo 10 31.8 90°.77 2°.1/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 53.10	+12 51.9	1.378	2.242	16.6	18.4
10 8	2 47.10	+11 54.8	1.331	2.261	12.1	18.2
10 18	2 38.55	+10 47.9	1.306	2.279	7.1	18.0
10 28	2 28.54	+ 9 37.8	1.307	2.298	2.5	17.8
11 7	2 18.43	+ 8 32.5	1.334	2.315	4.6	17.9
11 17	2 9.55	+ 7 39.4	1.389	2.333	9.3	18.3
11 27	2 2.94	+ 7 4.1	1.467	2.350	13.6	18.6
12 7	1 59.15	+ 6 48.5	1.567	2.367	17.2	18.9

285970 2001 RL_{108} 10 31.8 56°.76 1°.9/ 2.1 18

9 28	2 50.51	+20 18.6	1.804	2.640	14.5	20.8
10 8	2 45.02	+20 21.0	1.737	2.648	11.0	20.6
10 18	2 37.32	+20 10.6	1.694	2.656	7.0	20.4
10 28	2 28.23	+19 48.5	1.676	2.663	3.0	20.2
11 7	2 18.84	+19 17.8	1.686	2.672	2.9	20.2
11 17	2 10.27	+18 43.5	1.725	2.680	6.8	20.4
11 27	2 3.51	+18 11.3	1.790	2.688	10.7	20.7
12 7	1 59.16	+17 46.2	1.878	2.696	14.0	20.9

304458 2006 UK_{27} 10 31.8 181°.88 0°.3/ 1.0 18

9 28	2 49.96	+16 19.1	1.978	2.820	13.2	20.9
10 8	2 44.47	+16 10.8	1.903	2.821	9.8	20.7
10 18	2 36.95	+15 53.4	1.853	2.821	6.0	20.5
10 28	2 28.13	+15 28.9	1.829	2.821	1.8	20.2
11 7	2 18.99	+15 0.6	1.835	2.820	2.6	20.2
11 17	2 10.52	+14 32.9	1.869	2.820	6.7	20.5
11 27	2 3.65	+14 10.3	1.930	2.820	10.5	20.7
12 7	1 58.98	+13 56.6	2.014	2.820	13.7	21.0

398480 2011 UR_{140} 10 31.8 47°.83 1°.9/ 2.4 18

9 28	2 48.55	+22 1.4	1.828	2.662	14.5	21.0
10 8	2 43.59	+21 41.0	1.757	2.665	11.0	20.7
10 18	2 36.47	+21 5.1	1.708	2.669	7.1	20.5
10 28	2 28.00	+20 15.8	1.686	2.672	3.1	20.3
11 7	2 19.24	+19 17.2	1.691	2.676	2.9	20.3
11 17	2 11.26	+18 15.7	1.724	2.680	6.8	20.5
11 27	2 5.03	+17 18.0	1.784	2.684	10.6	20.8
12 7	2 1.14	+16 30.1	1.868	2.688	14.0	21.0

491389 2012 CB_{18} 10 31.8 279°.87 4°.0/29.1 17

9 28	2 51.51	+ 2 56.7	2.102	2.955	12.1	21.8
10 8	2 45.60	+ 2 39.5	2.013	2.934	9.1	21.6
10 18	2 37.66	+ 2 23.9	1.949	2.913	6.0	21.3
10 28	2 28.36	+ 2 13.8	1.913	2.892	4.0	21.2
11 7	2 18.58	+ 2 13.0	1.905	2.871	5.4	21.2
11 17	2 9.30	+ 2 24.5	1.926	2.850	8.7	21.4
11 27	2 1.44	+ 2 49.8	1.974	2.828	12.0	21.6
12 7	1 55.67	+ 3 29.3	2.044	2.806	15.0	21.7

77368 2001 FL_{134} 10 31.8 342°.18 6°.7/ 4.1 18

9 28	2 59.65	+28 41.2	1.787	2.579	16.4	18.8
10 8	2 52.41	+30 7.0	1.708	2.578	13.4	18.6
10 18	2 42.15	+31 17.4	1.650	2.577	10.2	18.4
10 28	2 29.69	+32 7.3	1.618	2.576	7.4	18.2
11 7	2 16.39	+32 33.9	1.614	2.575	6.8	18.2
11 17	2 3.80	+32 38.8	1.638	2.575	8.9	18.3
11 27	1 53.38	+32 28.0	1.688	2.574	12.0	18.5
12 7	1 46.08	+32 9.7	1.761	2.574	15.0	18.7

162841 2001 DF_4 10 31.8 282°.98 2°.2/30.4 18

9 28	2 50.73	+ 9 51.9	1.714	2.574	14.1	19.5
10 8	2 45.37	+ 9 31.2	1.634	2.561	10.4	19.3
10 18	2 37.67	+ 9 5.4	1.577	2.549	6.3	19.0
10 28	2 28.38	+ 8 38.4	1.547	2.537	2.5	18.7
11 7	2 18.59	+ 8 14.9	1.544	2.524	4.3	18.8
11 17	2 9.48	+ 7 59.5	1.569	2.512	8.6	19.1
11 27	2 2.12	+ 7 56.2	1.620	2.500	12.7	19.3
12 7	1 57.24	+ 8 7.2	1.691	2.487	16.3	19.5

9874 1993 FG_{23} 10 31.8 341°.18 1°.3/ 1.5 18

9 28	2 50.25	+19 17.5	1.174	2.040	18.8	17.5
10 8	2 45.89	+19 0.3	1.108	2.035	14.2	17.2
10 18	2 38.32	+18 24.4	1.062	2.032	8.9	16.9
10 28	2 28.60	+17 32.4	1.038	2.028	3.1	16.5
11 7	2 18.30	+16 30.7	1.039	2.025	3.6	16.6
11 17	2 9.10	+15 28.6	1.064	2.023	9.4	16.9
11 27	2 2.46	+14 35.9	1.112	2.021	14.7	17.2
12 7	1 59.20	+13 59.8	1.180	2.020	19.2	17.5

515516 2014 EO_{47} 10 31.8 161°.63 2°.6/ 2.8 18

9 28	2 54.28	+22 50.7	2.313	3.121	12.7	22.6
10 8	2 47.46	+23 7.3	2.236	3.127	9.8	22.5
10 18	2 38.67	+23 12.1	2.182	3.133	6.5	22.3
10 28	2 28.62	+23 4.8	2.157	3.138	3.4	22.1
11 7	2 18.25	+22 47.2	2.162	3.143	3.1	22.1
11 17	2 8.54	+22 22.4	2.197	3.147	6.0	22.3
11 27	2 0.36	+21 55.3	2.260	3.150	9.2	22.5
12 7	1 54.32	+21 30.7	2.349	3.153	12.0	22.7

161931 2007 EK_{171} 10 31.8 122°.61 6°.4/25.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 46.67	− 7 21.0	2.662	3.505	10.2	20.3
10 8	2 41.40	− 8 26.2	2.619	3.519	8.2	20.2
10 18	2 34.83	− 9 23.8	2.603	3.533	6.7	20.1
10 28	2 27.51	−10 8.8	2.614	3.546	6.5	20.1
11 7	2 20.12	−10 37.3	2.652	3.559	7.5	20.2
11 17	2 13.30	−10 47.5	2.718	3.571	9.2	20.3
11 27	2 7.62	−10 38.9	2.808	3.584	11.0	20.5
12 7	2 3.48	−10 13.2	2.919	3.595	12.7	20.7

78362 2002 PE_{110} 10 31.8 2°.22 10°.1/22.9 18

9 28	2 46.16	−13 50.0	1.954	2.798	13.3	18.8
10 8	2 41.54	−15 7.4	1.911	2.797	11.4	18.6
10 18	2 35.12	−16 10.0	1.891	2.797	10.3	18.6
10 28	2 27.62	−16 50.3	1.894	2.798	10.3	18.6
11 7	2 19.95	−17 3.6	1.922	2.799	11.4	18.7
11 17	2 13.01	−16 48.0	1.973	2.800	13.2	18.8
11 27	2 7.57	−16 5.0	2.045	2.802	15.2	18.9
12 7	2 4.13	−14 58.4	2.134	2.804	17.0	19.1

320149 2007 FO_{8} 10 31.8 104°.89 1°.9/29.8 18

9 28	2 45.89	+11 58.6	2.436	3.285	10.8	21.0
10 8	2 40.97	+10 46.0	2.376	3.300	7.8	20.8
10 18	2 34.63	+ 9 27.2	2.343	3.314	4.6	20.6
10 28	2 27.47	+ 8 7.1	2.339	3.328	2.0	20.5
11 7	2 20.22	+ 6 51.0	2.365	3.341	3.5	20.6
11 17	2 13.57	+ 5 43.9	2.421	3.355	6.6	20.8
11 27	2 8.17	+ 4 49.9	2.506	3.368	9.5	21.1
12 7	2 4.42	+ 4 11.0	2.613	3.381	11.9	21.3

131304 2001 FA_{145} 10 31.8 121°.56 6°.2/27.1 18

9 28	2 51.62	− 3 52.5	2.181	3.029	11.9	19.9
10 8	2 45.21	− 4 40.5	2.135	3.045	9.3	19.8
10 18	2 37.15	− 5 21.8	2.115	3.061	7.0	19.7
10 28	2 28.17	− 5 51.0	2.122	3.077	6.2	19.7
11 7	2 19.12	− 6 4.2	2.157	3.091	7.4	19.8
11 17	2 10.83	− 5 59.3	2.221	3.106	9.6	19.9
11 27	2 4.04	− 5 36.1	2.309	3.120	12.0	20.1
12 7	1 59.19	− 4 56.5	2.418	3.133	14.2	20.3

43644 2002 EU_{65} 10 31.8 214°.60 0°.4/ 1.2 18

9 28	2 49.82	+18 4.0	1.811	2.655	14.2	20.0
10 8	2 44.56	+17 34.2	1.735	2.652	10.6	19.8
10 18	2 37.10	+16 51.6	1.682	2.650	6.5	19.5
10 28	2 28.21	+15 59.1	1.656	2.647	2.0	19.2
11 7	2 18.98	+15 1.5	1.658	2.643	2.8	19.3
11 17	2 10.49	+14 5.0	1.688	2.640	7.2	19.6
11 27	2 3.73	+13 16.0	1.745	2.637	11.3	19.8
12 7	1 59.35	+12 39.5	1.824	2.633	14.7	20.0

290992 2005 XY_{63} 10 31.8 268°.96 0°.1/31.9 18

9 28	2 51.38	+16 14.9	1.715	2.563	14.6	20.9
10 8	2 46.00	+16 0.9	1.627	2.547	11.0	20.7
10 18	2 38.14	+15 35.9	1.562	2.531	6.7	20.4
10 28	2 28.56	+15 1.9	1.523	2.514	1.9	20.0
11 7	2 18.38	+14 23.1	1.511	2.497	3.0	20.1
11 17	2 8.84	+13 45.0	1.528	2.480	7.9	20.4
11 27	2 1.10	+13 13.8	1.571	2.463	12.3	20.6
12 7	1 55.95	+12 54.3	1.635	2.445	16.1	20.8

284220 2006 CP_{49} 10 31.8 189°.00 4°.9/ 4.9 18

9 28	2 53.58	+30 12.7	2.161	2.943	14.2	21.9
10 8	2 47.27	+30 28.4	2.076	2.943	11.5	21.7
10 18	2 38.72	+30 26.2	2.014	2.942	8.5	21.5
10 28	2 28.68	+30 4.6	1.977	2.940	5.8	21.4
11 7	2 18.23	+29 25.1	1.969	2.937	5.0	21.3
11 17	2 8.48	+28 31.7	1.989	2.934	6.9	21.4
11 27	2 0.44	+27 31.3	2.038	2.931	9.8	21.6
12 7	1 54.80	+26 31.1	2.111	2.927	12.8	21.8

474502 2003 UN_{59} 10 31.8 37°30 2°.2/ 2.1 18

9 28	2 51.11	+20 15.3	1.304	2.159	17.9	20.1
10 8	2 45.97	+20 19.9	1.257	2.177	13.5	19.9
10 18	2 38.05	+20 8.0	1.230	2.196	8.6	19.6
10 28	2 28.47	+19 41.5	1.227	2.216	3.6	19.4
11 7	2 18.70	+19 5.1	1.250	2.236	3.4	19.5
11 17	2 10.17	+18 25.5	1.299	2.257	8.1	19.8
11 27	2 4.03	+17 50.4	1.371	2.279	12.6	20.1
12 7	2 0.88	+17 25.4	1.465	2.301	16.4	20.4

513190 2005 GP_{45} 10 31.8 206°.04 3°.1/29.0 18

9 28	2 49.41	+ 5 55.1	2.501	3.349	10.6	22.8
10 8	2 43.65	+ 5 12.1	2.422	3.343	7.8	22.6
10 18	2 36.32	+ 4 27.4	2.370	3.336	5.0	22.4
10 28	2 27.99	+ 3 44.9	2.346	3.329	3.1	22.3
11 7	2 19.40	+ 3 8.8	2.353	3.320	4.4	22.4
11 17	2 11.31	+ 2 42.5	2.390	3.311	7.3	22.5
11 27	2 4.44	+ 2 28.8	2.453	3.302	10.2	22.7
12 7	1 59.29	+ 2 28.9	2.541	3.291	12.7	22.9

259821 2004 BV_{143} 10 31.8 170°.51 1°.5/30.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 52.76	+12 24.8	1.833	2.683	13.8	21.8
10 8	2 46.58	+11 51.0	1.764	2.687	10.1	21.6
10 18	2 38.23	+11 9.6	1.719	2.690	6.0	21.4
10 28	2 28.53	+10 24.5	1.701	2.692	2.0	21.1
11 7	2 18.55	+ 9 40.9	1.712	2.694	3.6	21.3
11 17	2 9.36	+ 9 4.0	1.752	2.695	7.8	21.5
11 27	2 1.94	+ 8 38.5	1.819	2.696	11.7	21.8
12 7	1 56.88	+ 8 27.0	1.907	2.696	15.0	22.0

205211 2000 GJ_{133} 10 31.8 178°.01 2°.6/29.4 18

9 28	2 48.00	+ 8 45.1	2.321	3.173	11.2	20.8
10 8	2 42.68	+ 7 50.8	2.250	3.174	8.2	20.6
10 18	2 35.74	+ 6 52.4	2.206	3.175	5.0	20.4
10 28	2 27.82	+ 5 54.3	2.190	3.176	2.6	20.3
11 7	2 19.69	+ 5 1.4	2.204	3.176	4.1	20.4
11 17	2 12.15	+ 4 18.2	2.247	3.176	7.3	20.6
11 27	2 5.91	+ 3 48.1	2.317	3.175	10.3	20.8
12 7	2 1.47	+ 3 32.8	2.411	3.174	12.9	21.0

362318 2009 WG_{143} 10 31.8 67°.14 0°.6/31.4 18

9 28	2 53.86	+11 40.7	2.084	2.926	12.6	20.6
10 8	2 47.04	+11 57.6	2.028	2.946	9.3	20.4
10 18	2 38.34	+12 10.3	1.998	2.966	5.5	20.2
10 28	2 28.54	+12 20.3	1.995	2.987	1.5	20.0
11 7	2 18.59	+12 29.6	2.023	3.007	2.7	20.1
11 17	2 9.45	+12 40.4	2.081	3.027	6.5	20.4
11 27	2 1.93	+12 55.3	2.166	3.048	9.9	20.6
12 7	1 56.56	+13 16.1	2.276	3.068	12.7	20.9

316360 2010 RO_{180} 10 31.8 337°.27 3°.4/ 2.8 18

9 28	2 50.13	+23 4.3	1.198	2.053	19.2	20.0
10 8	2 45.91	+23 6.3	1.129	2.047	14.9	19.7
10 18	2 38.43	+22 46.7	1.078	2.041	9.9	19.5
10 28	2 28.69	+22 5.6	1.050	2.036	4.9	19.2
11 7	2 18.30	+21 7.5	1.046	2.031	4.3	19.1
11 17	2 8.97	+20 1.1	1.067	2.027	9.2	19.4
11 27	2 2.23	+18 57.3	1.111	2.024	14.3	19.7
12 7	1 58.92	+18 5.6	1.174	2.021	18.8	19.9

128022 Peterantreasian 10 31.8 54°.00 7°.4/27.8 18

9 28	2 52.30	− 0 57.1	1.341	2.214	16.4	19.0
10 8	2 46.36	− 1 58.2	1.312	2.239	12.5	18.9
10 18	2 38.04	− 2 51.6	1.304	2.264	8.9	18.8
10 28	2 28.44	− 3 29.2	1.321	2.289	7.4	18.7
11 7	2 18.89	− 3 45.0	1.363	2.314	9.0	18.9
11 17	2 10.62	− 3 36.6	1.430	2.340	12.1	19.2
11 27	2 4.57	− 3 4.7	1.519	2.366	15.4	19.4
12 7	2 1.21	− 2 12.8	1.628	2.392	18.1	19.7

455646 2004 XL_{155} 10 31.8 265°.48 5°.3/ 6.3 18

9 28	2 48.62	+34 17.1	2.577	3.336	12.8	21.2
10 8	2 43.46	+34 21.0	2.475	3.320	10.7	21.0
10 18	2 36.39	+34 6.9	2.395	3.304	8.3	20.9
10 28	2 28.06	+33 33.3	2.340	3.287	6.2	20.7
11 7	2 19.31	+32 41.3	2.313	3.271	5.3	20.6
11 17	2 11.08	+31 34.5	2.315	3.254	6.5	20.7
11 27	2 4.23	+30 18.7	2.345	3.237	8.8	20.8
12 7	1 59.38	+29 1.1	2.401	3.220	11.3	20.9

517074 2013 CT_{77} 10 31.8 252°.94 2°.8/29.7 18

9 28	2 49.19	+ 8 4.5	1.928	2.787	12.8	21.4
10 8	2 43.92	+ 7 29.5	1.855	2.782	9.4	21.2
10 18	2 36.66	+ 6 51.1	1.806	2.777	5.8	21.0
10 28	2 28.12	+ 6 13.5	1.784	2.771	2.9	20.8
11 7	2 19.26	+ 5 41.6	1.791	2.766	4.6	20.9
11 17	2 11.05	+ 5 19.9	1.826	2.761	8.2	21.1
11 27	2 4.40	+ 5 11.7	1.887	2.755	11.8	21.3
12 7	1 59.89	+ 5 18.3	1.969	2.750	14.8	21.5

200551 2001 FM_{186} 10 31.8 265°.19 2°.6/ 2.9 18

9 28	2 49.87	+23 39.1	1.897	2.721	14.4	20.5
10 8	2 44.75	+23 26.7	1.806	2.707	11.2	20.2
10 18	2 37.33	+22 57.9	1.737	2.693	7.5	20.0
10 28	2 28.35	+22 13.2	1.695	2.679	3.7	19.7
11 7	2 18.86	+21 15.9	1.680	2.664	3.2	19.7
11 17	2 10.00	+20 11.8	1.694	2.649	6.9	19.9
11 27	2 2.85	+19 8.3	1.735	2.634	10.9	20.1
12 7	1 58.11	+18 12.3	1.799	2.619	14.4	20.3

485870 2012 FJ_{26} 10 31.8 186°.73 0°.0/31.8 18

9 28	2 47.25	+16 10.9	2.692	3.526	10.4	22.4
10 8	2 42.02	+15 49.6	2.612	3.525	7.7	22.3
10 18	2 35.33	+15 20.9	2.558	3.525	4.6	22.1
10 28	2 27.73	+14 46.9	2.532	3.524	1.3	21.8
11 7	2 19.91	+14 10.6	2.537	3.522	2.1	21.9
11 17	2 12.57	+13 35.3	2.572	3.520	5.3	22.1
11 27	2 6.37	+13 4.9	2.636	3.518	8.3	22.3
12 7	2 1.78	+12 42.1	2.724	3.516	10.9	22.5

46086 2001 EN_{11} 10 31.8 192°.73 4°.5/27.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 45.30	+ 1 28.7	2.483	3.341	10.3	19.4
10 8	2 40.61	+ 0 21.3	2.418	3.340	7.8	19.2
10 18	2 34.49	− 0 45.0	2.380	3.339	5.5	19.0
10 28	2 27.49	− 1 45.1	2.370	3.338	4.6	19.0
11 7	2 20.32	− 2 34.2	2.388	3.336	5.9	19.1
11 17	2 13.65	− 3 8.5	2.435	3.335	8.3	19.2
11 27	2 8.13	− 3 25.9	2.508	3.333	10.7	19.4
12 7	2 4.21	− 3 26.3	2.603	3.331	12.9	19.5

461283 2015 XY_{68} 10 31.8 5°.08 4°.8/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.23	+ 3 10.4	1.886	2.753	12.6	20.8
10 8	2 41.69	+ 2 13.3	1.825	2.753	9.4	20.6
10 18	2 35.28	+ 1 16.7	1.788	2.754	6.4	20.5
10 28	2 27.73	+ 0 26.6	1.778	2.755	4.8	20.4
11 7	2 19.95	− 0 11.4	1.796	2.756	6.4	20.5
11 17	2 12.85	− 0 33.0	1.840	2.757	9.4	20.7
11 27	2 7.26	− 0 35.9	1.909	2.759	12.5	20.9
12 7	2 3.72	− 0 20.3	1.999	2.761	15.3	21.1

84210 2002 RZ_{139} 10 31.8 1°.20 12°.4/22.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.50	−10 30.1	1.289	2.166	16.7	18.1
10 8	2 41.07	−12 22.5	1.251	2.164	14.2	18.0
10 18	2 35.15	−13 58.3	1.233	2.162	12.6	17.9
10 28	2 27.71	−15 5.2	1.237	2.162	12.7	17.9
11 7	2 20.02	−15 34.9	1.262	2.164	14.3	18.0
11 17	2 13.32	−15 24.8	1.308	2.166	16.8	18.2
11 27	2 8.65	−14 37.0	1.372	2.170	19.4	18.3
12 7	2 6.62	−13 18.2	1.452	2.175	21.7	18.5

335786 2007 FM_{33} 10 31.8 286°.45 0°.4/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.07	+15 43.8	1.527	2.385	15.6	21.6
10 8	2 45.25	+15 15.9	1.445	2.371	11.7	21.3
10 18	2 37.80	+14 35.3	1.385	2.356	7.0	21.0
10 28	2 28.52	+13 45.3	1.350	2.341	1.9	20.6
11 7	2 18.65	+12 51.6	1.341	2.327	3.4	20.7
11 17	2 9.51	+12 1.3	1.360	2.312	8.6	21.0
11 27	2 2.35	+11 21.4	1.403	2.297	13.3	21.2
12 7	1 57.95	+10 56.9	1.468	2.283	17.4	21.4

83685 2001 TW_{52} 10 31.8 79°.40 1°.5/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.78	+11 30.9	1.906	2.760	13.1	19.7
10 8	2 44.27	+11 7.9	1.844	2.769	9.6	19.5
10 18	2 36.81	+10 39.2	1.807	2.778	5.7	19.3
10 28	2 28.17	+10 8.4	1.796	2.787	1.9	19.0
11 7	2 19.31	+ 9 39.7	1.815	2.796	3.5	19.2
11 17	2 11.22	+ 9 17.4	1.861	2.805	7.4	19.4
11 27	2 4.75	+ 9 5.0	1.934	2.814	11.0	19.7
12 7	2 0.46	+ 9 4.8	2.030	2.823	14.0	19.9

232054 2001 UT_{86} 10 31.8 339°.52 0°.7/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.21	+17 12.0	1.249	2.119	17.6	20.5
10 8	2 44.30	+17 5.5	1.178	2.108	13.3	20.2
10 18	2 37.40	+16 44.5	1.127	2.099	8.2	19.9
10 28	2 28.44	+16 11.4	1.099	2.090	2.6	19.6
11 7	2 18.83	+15 31.6	1.096	2.082	3.5	19.6
11 17	2 10.15	+14 52.1	1.117	2.076	9.1	19.9
11 27	2 3.78	+14 20.9	1.162	2.070	14.3	20.2
12 7	2 0.58	+14 3.7	1.226	2.065	18.7	20.5

438558 2007 TJ_{331} 10 31.8 67°.68 1°.9/ 2.3 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.56	+21 47.8	1.679	2.515	15.4	21.4
10 8	2 45.11	+21 28.3	1.622	2.532	11.7	21.2
10 18	2 37.39	+20 53.0	1.588	2.549	7.5	21.0
10 28	2 28.34	+20 4.1	1.579	2.566	3.2	20.8
11 7	2 19.12	+19 6.6	1.597	2.583	2.9	20.8
11 17	2 10.87	+18 6.9	1.644	2.600	7.0	21.1
11 27	2 4.57	+17 12.3	1.717	2.617	11.0	21.3
12 7	2 0.77	+16 28.3	1.813	2.634	14.3	21.6

479557 2014 CY 10 31.8 258°.81 2°.1/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.06	+10 56.6	1.744	2.601	14.0	21.4
10 8	2 45.64	+10 24.3	1.662	2.588	10.4	21.1
10 18	2 37.88	+ 9 45.0	1.602	2.574	6.2	20.9
10 28	2 28.54	+ 9 2.9	1.569	2.560	2.4	20.6
11 7	2 18.69	+ 8 23.3	1.565	2.545	4.2	20.7
11 17	2 9.49	+ 7 51.7	1.588	2.530	8.6	20.9
11 27	2 2.03	+ 7 32.9	1.637	2.515	12.7	21.1
12 7	1 57.03	+ 7 29.6	1.707	2.500	16.3	21.3

293862 2007 RE_{245} 10 31.8 50°.38 2°.1/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.94	+10 49.1	1.606	2.470	14.7	20.7
10 8	2 44.69	+10 18.5	1.549	2.478	10.7	20.5
10 18	2 37.18	+ 9 41.8	1.514	2.486	6.4	20.3
10 28	2 28.29	+ 9 3.6	1.505	2.495	2.4	20.0
11 7	2 19.17	+ 8 29.3	1.523	2.504	4.2	20.2
11 17	2 10.94	+ 8 4.2	1.569	2.513	8.5	20.5
11 27	2 4.60	+ 7 52.0	1.639	2.522	12.4	20.7
12 7	2 0.73	+ 7 54.9	1.731	2.531	15.8	21.0

284243 2006 EJ_{10} 10 31.8 88°.81 2°.5/30.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 51.17	+10 3.1	1.771	2.628	13.8	21.6
10 8	2 45.25	+ 9 16.0	1.723	2.649	10.1	21.4
10 18	2 37.34	+ 8 23.9	1.699	2.670	6.0	21.3
10 28	2 28.31	+ 7 32.1	1.702	2.690	2.6	21.1
11 7	2 19.20	+ 6 46.1	1.733	2.710	4.4	21.2
11 17	2 11.03	+ 6 10.9	1.793	2.730	8.1	21.5
11 27	2 4.64	+ 5 50.1	1.878	2.750	11.7	21.8
12 7	2 0.52	+ 5 45.1	1.986	2.769	14.7	22.0

316864 2000 QB_{81} 10 31.8 12°.20 4°.6/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.99	+23 21.8	0.998	1.865	21.3	19.6
10 8	2 46.17	+23 51.7	0.944	1.867	16.6	19.3
10 18	2 38.72	+23 58.9	0.907	1.870	11.2	19.0
10 28	2 28.83	+23 41.9	0.891	1.875	6.1	18.8
11 7	2 18.34	+23 4.6	0.897	1.881	5.2	18.8
11 17	2 9.22	+22 15.4	0.926	1.888	9.9	19.1
11 27	2 3.08	+21 25.7	0.977	1.897	15.1	19.4
12 7	2 0.74	+20 45.3	1.046	1.906	19.6	19.7

452033 2014 OQ_{165} 10 31.8 37°.14 0°.0/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.25	+15 8.9	1.773	2.626	14.0	20.5
10 8	2 44.04	+15 3.2	1.715	2.638	10.4	20.3
10 18	2 36.74	+14 49.0	1.680	2.650	6.2	20.1
10 28	2 28.18	+14 28.7	1.671	2.663	1.7	19.9
11 7	2 19.39	+14 6.1	1.691	2.676	2.8	20.0
11 17	2 11.44	+13 45.4	1.738	2.690	7.0	20.3
11 27	2 5.23	+13 31.1	1.811	2.704	10.9	20.5
12 7	2 1.33	+13 26.2	1.907	2.719	14.1	20.8

90133 2002 XV_{86} 10 31.8 267°.64 0°.1/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.07	+15 37.5	2.009	2.853	13.0	20.1
10 8	2 44.68	+15 29.7	1.924	2.842	9.7	19.8
10 18	2 37.21	+15 13.3	1.863	2.831	5.9	19.6
10 28	2 28.35	+14 50.3	1.829	2.820	1.7	19.3
11 7	2 19.05	+14 23.9	1.823	2.809	2.6	19.3
11 17	2 10.33	+13 58.3	1.847	2.797	6.8	19.6
11 27	2 3.14	+13 38.0	1.897	2.786	10.7	19.8
12 7	1 58.14	+13 26.7	1.971	2.775	14.0	20.0

209233 2003 WN_{93} 10 31.8 355°.38 0°.6/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.42	+16 55.0	1.397	2.260	16.5	20.3
10 8	2 44.11	+16 49.5	1.329	2.256	12.4	20.0
10 18	2 37.11	+16 31.4	1.282	2.253	7.6	19.7
10 28	2 28.34	+16 3.1	1.260	2.251	2.4	19.4
11 7	2 19.09	+15 29.3	1.263	2.250	3.2	19.5
11 17	2 10.74	+14 56.1	1.292	2.249	8.4	19.8
11 27	2 4.51	+14 30.1	1.346	2.250	13.0	20.1
12 7	2 1.13	+14 16.2	1.420	2.251	17.0	20.3

300364 2007 RZ_{91} 10 31.8 95°.43 0°.2/ 1.0 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.61	+17 7.0	1.848	2.690	14.0	22.1
10 8	2 45.64	+16 42.0	1.792	2.708	10.4	21.9
10 18	2 37.62	+16 6.1	1.759	2.727	6.2	21.7
10 28	2 28.41	+15 22.6	1.754	2.745	1.8	21.4
11 7	2 19.07	+14 35.9	1.777	2.762	2.7	21.5
11 17	2 10.63	+13 51.5	1.829	2.780	6.9	21.8
11 27	2 3.97	+13 14.7	1.907	2.797	10.6	22.1
12 7	1 59.60	+12 49.2	2.009	2.813	13.8	22.4

399627 2004 NG_{18} 10 31.8 41°.85 3°.3/ 3.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.66	+25 38.6	1.560	2.389	16.7	20.3
10 8	2 44.48	+25 18.1	1.517	2.419	12.9	20.2
10 18	2 36.99	+24 37.5	1.494	2.449	8.6	20.0
10 28	2 28.23	+23 39.3	1.497	2.479	4.5	19.8
11 7	2 19.44	+22 29.1	1.527	2.510	3.7	19.9
11 17	2 11.80	+21 14.7	1.584	2.541	7.1	20.1
11 27	2 6.25	+20 4.4	1.667	2.572	10.8	20.4
12 7	2 3.26	+19 4.9	1.772	2.604	14.1	20.7

454910 2015 TB_{132} 10 31.8 153°.37 4°.8/28.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.94	+ 0 51.1	2.121	2.978	11.8	21.0
10 8	2 43.51	+ 0 15.1	2.057	2.978	9.0	20.8
10 18	2 36.33	− 0 18.0	2.018	2.978	6.2	20.7
10 28	2 28.07	− 0 43.4	2.006	2.978	4.8	20.6
11 7	2 19.59	− 0 57.0	2.023	2.979	6.1	20.7
11 17	2 11.74	− 0 56.0	2.067	2.979	8.9	20.8
11 27	2 5.30	− 0 39.0	2.137	2.979	11.7	21.0
12 7	2 0.81	− 0 6.7	2.229	2.979	14.2	21.2

407229 2009 WS_{19} 10 31.8 353°.12 0°.2/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.27	+17 25.3	2.216	3.059	11.9	20.6
10 8	2 40.84	+16 30.6	2.140	3.058	8.8	20.4
10 18	2 34.75	+15 24.7	2.089	3.057	5.3	20.2
10 28	2 27.63	+14 11.4	2.065	3.057	1.4	19.9
11 7	2 20.29	+12 55.8	2.072	3.057	2.5	20.0
11 17	2 13.54	+11 43.8	2.108	3.056	6.3	20.2
11 27	2 8.14	+10 40.9	2.171	3.056	9.7	20.4
12 7	2 4.57	+ 9 51.2	2.258	3.056	12.6	20.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
405882 2006 EL_{21}			10 31.8 352°.81		3°.5/ 3.7 17	
	h m	° ′			°	m
9 28	2 49.41	+25 43.3	2.178	2.987	13.3	21.2
10 8	2 44.12	+25 58.7	2.098	2.986	10.5	21.1
10 18	2 36.84	+25 59.9	2.040	2.985	7.3	20.9
10 28	2 28.25	+25 46.5	2.009	2.985	4.4	20.7
11 7	2 19.29	+25 20.2	2.007	2.984	3.8	20.6
11 17	2 10.95	+24 44.7	2.032	2.984	6.2	20.8
11 27	2 4.12	+24 5.4	2.086	2.984	9.4	21.0
12 7	1 59.44	+23 28.0	2.163	2.984	12.3	21.2
432340 2009 VH_{23}			10 31.8	6°.89	3°.4/27.3 18	
9 28	2 42.38	− 2 49.3	4.034	4.878	7.0	20.0
10 8	2 38.02	− 3 8.0	3.969	4.878	5.4	19.9
10 18	2 32.80	− 3 23.3	3.930	4.879	4.0	19.8
10 28	2 27.06	− 3 32.8	3.921	4.879	3.4	19.7
11 7	2 21.22	− 3 34.8	3.942	4.880	4.2	19.8
11 17	2 15.68	− 3 28.0	3.992	4.881	5.6	19.9
11 27	2 10.83	− 3 11.6	4.069	4.882	7.2	20.0
12 7	2 6.97	− 2 45.9	4.170	4.883	8.7	20.1
422179 2014 RZ_{21}			10 31.8	4°.50	3°.9/29.2 18	
9 28	2 49.04	+ 3 31.4	2.036	2.895	12.2	20.1
10 8	2 43.67	+ 3 10.7	1.971	2.895	9.1	19.9
10 18	2 36.47	+ 2 51.3	1.930	2.896	5.9	19.7
10 28	2 28.13	+ 2 37.2	1.916	2.896	3.9	19.6
11 7	2 19.53	+ 2 32.4	1.930	2.897	5.3	19.7
11 17	2 11.59	+ 2 39.3	1.972	2.898	8.3	19.9
11 27	2 5.12	+ 2 59.6	2.041	2.899	11.5	20.1
12 7	2 0.66	+ 3 33.2	2.131	2.901	14.2	20.3
54996 2001 QW_{13}			10 31.8	321°.89	4°.7/28.8 18	
9 28	2 47.98	+ 6 57.8	1.352	2.231	15.9	18.7
10 8	2 43.78	+ 5 54.1	1.284	2.221	11.8	18.4
10 18	2 36.93	+ 4 45.0	1.238	2.211	7.5	18.1
10 28	2 28.32	+ 3 38.5	1.216	2.201	4.7	17.9
11 7	2 19.21	+ 2 43.4	1.220	2.192	6.9	18.0
11 17	2 10.97	+ 2 6.9	1.249	2.183	11.3	18.3
11 27	2 4.79	+ 1 53.8	1.300	2.175	15.6	18.5
12 7	2 1.41	+ 2 4.8	1.370	2.167	19.4	18.7
12445 Sirataka			10 31.8	139°.53	2°.7/29.7 18	
9 28	2 48.44	+ 6 33.2	2.322	3.175	11.1	17.5
10 8	2 43.04	+ 6 10.0	2.254	3.177	8.2	17.3
10 18	2 36.02	+ 5 45.6	2.211	3.179	5.1	17.2
10 28	2 28.00	+ 5 23.4	2.196	3.181	2.8	17.0
11 7	2 19.76	+ 5 6.9	2.210	3.183	4.1	17.1
11 17	2 12.09	+ 4 59.1	2.253	3.184	7.1	17.3
11 27	2 5.72	+ 5 2.0	2.324	3.186	10.1	17.5
12 7	2 1.14	+ 5 16.7	2.417	3.187	12.7	17.7
77377 2001 FJ_{137}			10 31.8	204°.27	6°.0/28.2 18	
9 28	2 53.70	+ 0 30.1	1.648	2.508	14.5	19.4
10 8	2 47.50	− 0 15.0	1.584	2.506	11.1	19.2
10 18	2 38.92	− 0 56.8	1.543	2.503	7.7	19.0
10 28	2 28.85	− 1 28.4	1.528	2.500	6.0	18.9
11 7	2 18.43	− 1 44.2	1.540	2.496	7.6	19.0
11 17	2 8.86	− 1 40.5	1.579	2.492	11.0	19.2
11 27	2 1.19	− 1 15.9	1.642	2.488	14.5	19.4
12 7	1 56.08	− 0 32.1	1.726	2.483	17.5	19.6
475392 2006 HY_{32}			10 31.8	203°.50	0°.4/31.4 16	
9 28	2 49.42	+18 31.4	2.200	3.032	12.4	21.8
10 8	2 43.91	+17 5.9	2.115	3.028	9.2	21.5
10 18	2 36.59	+15 25.9	2.056	3.023	5.5	21.3
10 28	2 28.17	+13 36.0	2.026	3.018	1.5	21.0
11 7	2 19.51	+11 43.2	2.028	3.012	2.8	21.1
11 17	2 11.50	+ 9 55.2	2.061	3.005	6.8	21.4
11 27	2 4.95	+ 8 19.4	2.123	2.998	10.4	21.6
12 7	2 0.38	+ 7 0.7	2.209	2.990	13.4	21.8
271961 2005 AS_{57}			10 31.8	276°.67	3°.9/28.5 18	
9 28	2 48.69	+ 2 8.7	2.488	3.339	10.5	21.2
10 8	2 43.29	+ 1 40.1	2.397	3.317	8.0	21.0
10 18	2 36.24	+ 1 12.6	2.332	3.294	5.4	20.8
10 28	2 28.09	+ 0 50.3	2.295	3.270	3.9	20.6
11 7	2 19.57	+ 0 36.7	2.287	3.247	5.2	20.7
11 17	2 11.45	+ 0 34.8	2.308	3.223	7.9	20.8
11 27	2 4.47	+ 0 46.6	2.357	3.199	10.7	21.0
12 7	1 59.21	+ 1 12.2	2.428	3.175	13.3	21.1
172091 2002 CL_{311}			10 31.8	134°.69	1°.4/ 1.8 18	
9 28	2 53.64	+20 32.0	1.549	2.389	16.3	20.6
10 8	2 47.64	+20 4.3	1.485	2.398	12.3	20.4
10 18	2 39.06	+19 20.0	1.442	2.407	7.7	20.2
10 28	2 28.89	+18 21.6	1.426	2.415	2.9	19.9
11 7	2 18.43	+17 15.0	1.436	2.423	3.0	19.9
11 17	2 9.01	+16 7.7	1.475	2.430	7.8	20.2
11 27	2 1.74	+15 8.0	1.540	2.436	12.2	20.5
12 7	1 57.27	+14 21.8	1.626	2.443	15.9	20.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
426702 2013 TD_{32}			10 31.8	88°.74	3°.2/ 2.7 16	
	h m	° ′			°	m
9 28	2 57.06	+22 46.0	1.383	2.218	18.2	21.1
10 8	2 50.38	+22 57.1	1.330	2.237	13.9	20.9
10 18	2 40.76	+22 49.7	1.298	2.256	9.2	20.6
10 28	2 29.36	+22 24.0	1.290	2.275	4.5	20.4
11 7	2 17.74	+21 44.1	1.309	2.293	4.0	20.5
11 17	2 7.42	+20 57.0	1.355	2.311	8.2	20.7
11 27	1 59.64	+20 11.1	1.426	2.328	12.6	21.1
12 7	1 55.05	+19 33.8	1.519	2.346	16.3	21.3
144137 2004 BW_{90}			10 31.8	177°.84	2°.8/ 3.1 18	
9 28	2 50.19	+24 11.3	2.030	2.847	13.8	20.2
10 8	2 44.76	+24 7.3	1.952	2.848	10.7	20.0
10 18	2 37.25	+23 48.1	1.896	2.848	7.2	19.8
10 28	2 28.39	+23 14.4	1.867	2.849	3.8	19.6
11 7	2 19.18	+22 29.0	1.866	2.849	3.3	19.6
11 17	2 10.68	+21 37.0	1.895	2.849	6.4	19.8
11 27	2 3.81	+20 44.6	1.950	2.848	9.9	20.0
12 7	1 59.19	+19 57.8	2.029	2.848	13.1	20.2
367920 2012 BY_{130}			10 31.8	203°.07	3°.4/28.9 18	
9 28	2 47.97	+ 4 46.1	2.378	3.232	10.9	21.0
10 8	2 42.68	+ 4 8.8	2.307	3.230	8.1	20.8
10 18	2 35.81	+ 3 31.0	2.261	3.227	5.2	20.6
10 28	2 27.96	+ 2 56.8	2.244	3.224	3.4	20.5
11 7	2 19.87	+ 2 30.0	2.256	3.221	4.7	20.6
11 17	2 12.32	+ 2 14.1	2.296	3.218	7.5	20.8
11 27	2 6.02	+ 2 11.1	2.364	3.215	10.4	21.0
12 7	2 1.46	+ 2 21.9	2.454	3.211	12.9	21.1
492888 2014 QE_{406}			10 31.8	350°.84	3°.2/28.9 18	
9 28	2 44.52	+ 8 43.8	1.924	2.791	12.5	21.2
10 8	2 40.48	+ 7 32.9	1.856	2.788	9.1	21.0
10 18	2 34.62	+ 6 16.6	1.813	2.785	5.6	20.8
10 28	2 27.64	+ 5 0.9	1.797	2.783	3.3	20.6
11 7	2 20.40	+ 3 52.3	1.809	2.781	5.0	20.7
11 17	2 13.80	+ 2 56.9	1.849	2.779	8.5	20.9
11 27	2 8.64	+ 2 19.0	1.914	2.778	11.9	21.1
12 7	2 5.46	+ 2 0.1	2.001	2.777	14.8	21.4
76571 2000 GL_{112}			10 31.8	285°.90	11°.1/20.8 18	
9 28	2 47.18	− 6 29.4	1.492	2.363	15.2	19.1
10 8	2 43.06	− 9 17.6	1.429	2.343	12.7	18.9
10 18	2 36.47	−12 1.5	1.390	2.322	11.2	18.7
10 28	2 28.22	−14 26.1	1.376	2.302	11.7	18.7
11 7	2 19.43	−16 18.3	1.387	2.281	13.8	18.8
11 17	2 11.35	−17 30.1	1.421	2.260	16.8	18.9
11 27	2 5.13	−17 59.3	1.473	2.240	19.7	19.1
12 7	2 1.50	−17 49.5	1.540	2.219	22.3	19.2
190174 2005 UA_{364}			10 31.9	117°.77	1°.9/30.5 18	
9 28	2 52.29	+11 33.8	1.736	2.590	14.2	20.8
10 8	2 46.24	+10 53.4	1.679	2.603	10.4	20.6
10 18	2 38.05	+10 6.3	1.645	2.616	6.1	20.3
10 28	2 28.59	+ 9 17.0	1.639	2.629	2.3	20.1
11 7	2 18.96	+ 8 31.3	1.661	2.641	4.0	20.3
11 17	2 10.24	+ 7 54.4	1.711	2.653	8.1	20.6
11 27	2 3.36	+ 7 30.6	1.788	2.664	11.9	20.8
12 7	1 58.88	+ 7 22.1	1.886	2.675	15.1	21.1
477792 2011 BS_{104}			10 31.9	240°.10	4°.1/28.9 18	
9 28	2 50.10	+ 7 22.1	1.571	2.439	14.7	21.8
10 8	2 44.99	+ 6 17.2	1.503	2.434	10.9	21.6
10 18	2 37.50	+ 5 7.2	1.458	2.429	6.8	21.4
10 28	2 28.49	+ 3 59.1	1.440	2.424	4.2	21.2
11 7	2 19.09	+ 3 0.8	1.448	2.419	6.2	21.3
11 17	2 10.52	+ 2 18.7	1.483	2.413	10.2	21.5
11 27	2 3.83	+ 1 57.1	1.543	2.408	14.1	21.8
12 7	1 59.68	+ 1 57.3	1.622	2.402	17.5	22.0
82467 2001 OS_{19}			10 31.9	47°.58	3°.5/29.5 18	
9 28	2 49.02	+10 26.6	1.289	2.167	16.7	18.8
10 8	2 44.36	+ 9 13.3	1.242	2.179	12.2	18.6
10 18	2 37.11	+ 7 52.1	1.217	2.191	7.3	18.4
10 28	2 28.34	+ 6 31.3	1.216	2.204	3.6	18.2
11 7	2 19.40	+ 5 20.3	1.241	2.217	5.8	18.4
11 17	2 11.61	+ 4 26.7	1.291	2.231	10.4	18.7
11 27	2 6.01	+ 3 55.5	1.364	2.245	14.6	19.0
12 7	2 3.19	+ 3 47.8	1.457	2.259	18.2	19.2
328816 2009 VM_{92}			10 31.9	23°.92	4°.1/28.7 18	
9 28	2 46.39	+ 4 56.5	1.880	2.747	12.7	20.2
10 8	2 41.81	+ 4 8.4	1.823	2.752	9.4	20.0
10 18	2 35.39	+ 3 19.7	1.790	2.758	6.1	19.8
10 28	2 27.85	+ 2 35.8	1.784	2.765	4.1	19.7
11 7	2 20.12	+ 2 2.1	1.806	2.772	5.6	19.8
11 17	2 13.11	+ 1 42.6	1.854	2.779	8.8	20.1
11 27	2 7.62	+ 1 39.6	1.928	2.787	12.0	20.3
12 7	2 4.16	+ 1 53.5	2.023	2.795	14.8	20.5

26528 Genniferubin 10 31.9 285°.84 0°.9/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 46.53	+13 24.5	2.269	3.118	11.5	18.8
10 8	2 41.83	+12 55.0	2.185	3.107	8.5	18.5
10 18	2 35.41	+12 18.4	2.125	3.096	5.0	18.3
10 28	2 27.88	+11 37.6	2.093	3.085	1.5	18.0
11 7	2 20.03	+10 56.8	2.091	3.074	2.8	18.1
11 17	2 12.67	+10 20.0	2.117	3.063	6.5	18.4
11 27	2 6.60	+ 9 51.5	2.170	3.052	9.9	18.5
12 7	2 2.36	+ 9 34.2	2.248	3.041	12.8	18.7

511954 2015 KD_1 10 31.9 185°.00 6°.5/ 5.6 17

9 28	2 55.52	+32 22.7	1.764	2.548	16.9	22.0
10 8	2 49.27	+32 47.6	1.685	2.549	13.9	21.8
10 18	2 40.22	+32 49.9	1.626	2.548	10.6	21.6
10 28	2 29.29	+32 26.8	1.591	2.548	7.6	21.4
11 7	2 17.82	+31 39.3	1.582	2.547	6.5	21.3
11 17	2 7.25	+30 32.7	1.601	2.545	8.4	21.4
11 27	1 58.87	+29 16.0	1.646	2.543	11.5	21.6
12 7	1 53.45	+27 59.4	1.715	2.541	14.8	21.8

18455 1995 DF 10 31.9 235°.59 3°.0/29.9 18

9 28	2 52.68	+ 9 18.1	1.622	2.483	14.7	19.2
10 8	2 46.96	+ 8 33.0	1.545	2.472	10.9	19.0
10 18	2 38.75	+ 7 41.4	1.490	2.461	6.7	18.7
10 28	2 28.87	+ 6 48.7	1.462	2.450	3.2	18.5
11 7	2 18.48	+ 6 1.4	1.461	2.438	5.1	18.6
11 17	2 8.85	+ 5 25.8	1.488	2.425	9.5	18.8
11 27	2 1.10	+ 5 6.6	1.540	2.412	13.7	19.0
12 7	1 56.00	+ 5 6.1	1.613	2.399	17.4	19.3

447614 2006 UN_{142} 10 31.9 41°.10 2°.5/ 2.6 18

9 28	2 50.46	+21 41.1	1.617	2.456	15.8	20.7
10 8	2 45.23	+21 46.2	1.559	2.469	12.1	20.5
10 18	2 37.60	+21 36.1	1.522	2.482	7.8	20.2
10 28	2 28.50	+21 11.8	1.510	2.496	3.7	20.0
11 7	2 19.14	+20 37.0	1.526	2.510	3.3	20.0
11 17	2 10.72	+19 57.3	1.568	2.525	7.2	20.3
11 27	2 4.31	+19 19.2	1.636	2.540	11.2	20.6
12 7	2 0.50	+18 48.6	1.727	2.555	14.6	20.8

95196 2002 BS_{16} 10 31.9 131°.97 0°.0/31.7 18

9 28	2 48.03	+16 24.3	2.488	3.323	11.1	20.0
10 8	2 42.66	+15 55.7	2.419	3.333	8.2	19.8
10 18	2 35.77	+15 19.1	2.376	3.343	4.9	19.6
10 28	2 27.96	+14 36.8	2.361	3.352	1.4	19.4
11 7	2 19.99	+13 52.6	2.377	3.362	2.2	19.5
11 17	2 12.61	+13 10.3	2.422	3.371	5.6	19.7
11 27	2 6.49	+12 34.1	2.496	3.379	8.7	19.9
12 7	2 2.10	+12 6.8	2.595	3.388	11.3	20.1

128230 2003 SQ_{126} 10 31.9 39°.11 3°.2/28.8 18

9 28	2 45.20	+ 7 21.8	2.196	3.057	11.4	19.3
10 8	2 40.75	+ 6 17.6	2.132	3.059	8.3	19.1
10 18	2 34.69	+ 5 10.2	2.092	3.062	5.2	19.0
10 28	2 27.67	+ 4 4.8	2.081	3.065	3.2	18.8
11 7	2 20.45	+ 3 6.8	2.099	3.067	4.8	19.0
11 17	2 13.83	+ 2 20.9	2.145	3.070	7.8	19.1
11 27	2 8.50	+ 1 50.4	2.218	3.073	10.8	19.3
12 7	2 4.95	+ 1 36.7	2.312	3.076	13.4	19.5

75559 1999 YJ_{18} 10 31.9 220°.13 10°.8/19.1 18

9 28	2 48.21	−17 10.9	2.201	3.025	12.7	18.9
10 8	2 43.05	−19 14.0	2.156	3.018	11.4	18.8
10 18	2 36.13	−21 2.4	2.135	3.010	10.8	18.7
10 28	2 28.08	−22 27.6	2.139	3.001	11.2	18.7
11 7	2 19.78	−23 23.4	2.167	2.993	12.4	18.8
11 17	2 12.08	−23 47.3	2.218	2.983	14.0	18.9
11 27	2 5.79	−23 39.9	2.288	2.974	15.6	19.0
12 7	2 1.43	−23 5.0	2.373	2.964	17.1	19.1

132653 2002 LY_{53} 10 31.9 240°.82 1°.7/ 2.5 18

9 28	2 48.81	+24 57.6	1.857	2.680	14.7	19.6
10 8	2 43.86	+23 44.9	1.772	2.674	11.3	19.4
10 18	2 36.74	+22 10.3	1.711	2.669	7.3	19.1
10 28	2 28.27	+20 17.0	1.677	2.663	3.1	18.9
11 7	2 19.51	+18 12.4	1.672	2.658	2.7	18.8
11 17	2 11.54	+16 6.0	1.697	2.652	6.9	19.1
11 27	2 5.32	+14 8.1	1.750	2.646	11.0	19.3
12 7	2 1.44	+12 26.7	1.827	2.639	14.6	19.5

369250 2009 DK_{30} 10 31.9 130°.07 1°.0/31.2 17

9 28	2 53.76	+14 24.5	1.449	2.306	16.3	22.2
10 8	2 47.80	+13 48.2	1.389	2.314	12.0	22.0
10 18	2 39.20	+13 0.8	1.351	2.322	7.1	21.7
10 28	2 28.97	+12 6.7	1.338	2.330	2.0	21.4
11 7	2 18.45	+11 12.6	1.353	2.337	3.8	21.6
11 17	2 8.99	+10 25.5	1.394	2.343	8.8	21.9
11 27	2 1.74	+ 9 51.7	1.461	2.349	13.3	22.2
12 7	1 57.34	+ 9 34.6	1.549	2.355	17.0	22.4

260408 2004 XV_{17} 10 31.9 15°.64 9°.1/23.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 45.00	− 7 49.0	1.792	2.656	13.4	19.4
10 8	2 40.85	− 9 25.5	1.750	2.660	11.0	19.2
10 18	2 34.84	−10 51.5	1.731	2.664	9.4	19.1
10 28	2 27.72	−11 58.5	1.737	2.669	9.2	19.1
11 7	2 20.43	−12 40.0	1.769	2.674	10.6	19.2
11 17	2 13.88	−12 53.0	1.823	2.680	12.8	19.4
11 27	2 8.89	−12 37.8	1.900	2.687	15.1	19.6
12 7	2 5.96	−11 57.6	1.994	2.694	17.2	19.8

173521 2000 VY_{27} 10 31.9 355°.86 1°.9/30.5 18

9 28	2 40.91	+16 45.8	0.913	1.811	19.9	18.7
10 8	2 39.42	+15 17.8	0.857	1.804	14.7	18.4
10 18	2 34.67	+13 25.3	0.819	1.798	8.7	18.0
10 28	2 27.77	+11 18.6	0.803	1.795	2.6	17.7
11 7	2 20.36	+ 9 13.1	0.809	1.793	5.5	17.9
11 17	2 14.14	+ 7 24.9	0.837	1.793	11.8	18.2
11 27	2 10.52	+ 6 6.1	0.886	1.795	17.4	18.5
12 7	2 10.24	+ 5 21.6	0.951	1.799	22.1	18.8

251098 2006 SE_{256} 10 31.9 66°.38 0°.2/31.7 18

9 28	2 47.99	+16 47.9	1.864	2.713	13.6	20.9
10 8	2 43.12	+16 6.8	1.796	2.717	10.1	20.7
10 18	2 36.25	+15 14.2	1.752	2.721	6.0	20.5
10 28	2 28.14	+14 13.9	1.734	2.725	1.7	20.2
11 7	2 19.78	+13 11.2	1.744	2.730	2.8	20.3
11 17	2 12.17	+12 12.4	1.783	2.734	7.1	20.6
11 27	2 6.19	+11 23.2	1.849	2.738	10.9	20.8
12 7	2 2.41	+10 47.7	1.937	2.743	14.1	21.0

2611 Boyce 10 31.9 186°.46 0°.8/31.1 18

9 28	2 47.92	+13 9.1	2.371	3.215	11.2	17.5
10 8	2 42.72	+12 45.9	2.295	3.215	8.2	17.3
10 18	2 35.89	+12 16.7	2.245	3.215	4.9	17.1
10 28	2 28.04	+11 44.0	2.223	3.214	1.4	16.9
11 7	2 19.94	+11 11.4	2.231	3.214	2.7	17.0
11 17	2 12.38	+10 42.7	2.268	3.213	6.2	17.2
11 27	2 6.10	+10 21.3	2.333	3.212	9.4	17.4
12 7	2 1.61	+10 9.7	2.421	3.211	12.1	17.6

407191 2009 UY_{116} 10 31.9 13°.40 2°.2/ 2.9 18

9 28	2 46.34	+23 43.2	1.990	2.817	13.7	20.1
10 8	2 41.92	+23 16.7	1.916	2.819	10.6	19.9
10 18	2 35.54	+22 34.2	1.864	2.821	6.9	19.7
10 28	2 27.95	+21 37.5	1.839	2.823	3.3	19.5
11 7	2 20.09	+20 31.1	1.842	2.826	2.8	19.5
11 17	2 12.93	+19 20.8	1.873	2.829	6.2	19.7
11 27	2 7.33	+18 13.5	1.931	2.833	9.8	19.9
12 7	2 3.86	+17 15.2	2.014	2.836	13.0	20.1

223118 2002 VU_{31} 10 31.9 336°.41 1°.8/30.9 18

9 28	2 49.38	+11 48.4	1.195	2.074	17.6	19.6
10 8	2 45.26	+11 34.1	1.126	2.063	13.1	19.3
10 18	2 38.08	+11 11.2	1.077	2.052	7.9	19.0
10 28	2 28.76	+10 44.1	1.051	2.043	2.5	18.6
11 7	2 18.78	+10 18.9	1.050	2.034	4.6	18.7
11 17	2 9.74	+10 2.0	1.073	2.027	10.2	19.0
11 27	2 3.07	+ 9 59.2	1.119	2.020	15.4	19.3
12 7	1 59.64	+10 13.2	1.183	2.014	19.7	19.6

477819 2011 EA_{32} 10 31.9 147°.59 2°.9/29.5 16

9 28	2 51.06	+ 9 24.5	1.901	2.755	13.1	22.3
10 8	2 45.22	+ 8 21.6	1.840	2.765	9.6	22.1
10 18	2 37.43	+ 7 13.3	1.803	2.773	5.8	21.9
10 28	2 28.47	+ 6 5.3	1.795	2.781	3.0	21.7
11 7	2 19.33	+ 5 3.8	1.815	2.789	4.7	21.8
11 17	2 10.99	+ 4 14.5	1.864	2.795	8.3	22.1
11 27	2 4.30	+ 3 41.3	1.940	2.802	11.8	22.3
12 7	1 59.79	+ 3 25.9	2.037	2.807	14.8	22.5

328726 2009 TF_{38} 10 31.9 344°.99 2°.7/ 3.4 18

9 28	2 46.05	+25 13.2	2.012	2.834	13.8	20.2
10 8	2 41.76	+24 46.5	1.932	2.830	10.7	20.0
10 18	2 35.48	+24 2.5	1.873	2.826	7.2	19.7
10 28	2 27.95	+23 2.8	1.841	2.823	3.8	19.5
11 7	2 20.11	+21 51.4	1.837	2.820	3.1	19.5
11 17	2 12.93	+20 34.4	1.861	2.818	6.3	19.7
11 27	2 7.30	+19 19.1	1.913	2.816	9.9	19.9
12 7	2 3.81	+18 12.0	1.989	2.814	13.1	20.1

11349 Witten 10 31.9 85°.77 1°.0/31.1 18

9 28	2 51.20	+15 21.7	1.498	2.355	15.8	18.6
10 8	2 45.74	+14 28.3	1.444	2.370	11.6	18.4
10 18	2 37.88	+13 22.8	1.412	2.384	6.9	18.1
10 28	2 28.61	+12 10.7	1.406	2.398	1.9	17.9
11 7	2 19.17	+10 59.4	1.428	2.412	3.7	18.0
11 17	2 10.79	+ 9 56.5	1.477	2.426	8.4	18.4
11 27	2 4.48	+ 9 8.5	1.551	2.439	12.7	18.6
12 7	2 0.80	+ 8 38.8	1.647	2.453	16.2	18.9

352952 2009 BU_{22} 10 31.9 301°.51 9°.0/ 6.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 54.14	+36 54.0	1.764	2.528	17.7	21.4
10 8	2 48.67	+37 55.3	1.678	2.518	15.1	21.2
10 18	2 40.13	+38 33.7	1.611	2.508	12.4	21.0
10 28	2 29.37	+38 43.7	1.566	2.498	10.0	20.8
11 7	2 17.77	+38 23.4	1.546	2.488	9.0	20.7
11 17	2 6.90	+37 35.5	1.552	2.479	10.1	20.8
11 27	1 58.26	+36 28.4	1.581	2.469	12.5	20.9
12 7	1 52.81	+35 12.9	1.634	2.460	15.4	21.1

216351 2007 YV_{46} 10 31.9 139°.75 7°.8/25.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.68	− 6 36.5	2.003	2.856	12.6	20.1
10 8	2 43.41	− 7 45.4	1.951	2.858	10.2	20.0
10 18	2 36.33	− 8 45.7	1.923	2.860	8.3	19.9
10 28	2 28.17	− 9 30.6	1.921	2.862	7.8	19.9
11 7	2 19.82	− 9 54.7	1.946	2.864	9.1	19.9
11 17	2 12.18	− 9 55.5	1.996	2.865	11.3	20.1
11 27	2 6.03	− 9 32.9	2.070	2.867	13.7	20.3
12 7	2 1.90	− 8 49.3	2.163	2.868	15.9	20.4

270176 2001 SZ_{251} 10 31.9 48°.09 2°.8/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.66	+11 42.8	1.461	2.330	15.5	20.2
10 8	2 44.00	+10 31.1	1.402	2.335	11.4	20.0
10 18	2 36.92	+ 9 9.8	1.366	2.340	6.8	19.7
10 28	2 28.36	+ 7 46.0	1.355	2.344	3.0	19.5
11 7	2 19.54	+ 6 28.4	1.371	2.349	5.1	19.7
11 17	2 11.68	+ 5 25.1	1.414	2.355	9.6	19.9
11 27	2 5.80	+ 4 41.7	1.481	2.360	13.8	20.2
12 7	2 2.52	+ 4 20.6	1.568	2.366	17.3	20.5

277824 2006 HB_{2} 10 31.9 203°.74 2°.4/29.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.12	+ 6 17.2	2.713	3.558	9.9	20.8
10 8	2 43.41	+ 6 2.8	2.636	3.555	7.3	20.6
10 18	2 36.24	+ 5 47.7	2.584	3.551	4.5	20.4
10 28	2 28.16	+ 5 34.5	2.562	3.548	2.4	20.3
11 7	2 19.84	+ 5 26.0	2.571	3.544	3.6	20.3
11 17	2 11.99	+ 5 24.4	2.609	3.539	6.3	20.5
11 27	2 5.25	+ 5 31.8	2.676	3.535	9.1	20.7
12 7	2 0.10	+ 5 48.9	2.767	3.530	11.5	20.9

2843 Yeti 10 31.9 261°.05 2°.3/ 2.5 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.46	+22 37.4	1.585	2.421	16.2	16.8
10 8	2 46.37	+22 17.2	1.499	2.408	12.5	16.5
10 18	2 38.57	+21 38.0	1.434	2.394	8.2	16.3
10 28	2 28.90	+20 41.0	1.394	2.381	3.7	16.0
11 7	2 18.63	+19 30.7	1.382	2.367	3.3	15.9
11 17	2 9.12	+18 14.7	1.396	2.353	7.9	16.1
11 27	2 1.64	+17 2.3	1.437	2.339	12.5	16.4
12 7	1 57.00	+16 1.6	1.500	2.324	16.6	16.6

178052 2006 SY_{7} 10 31.9 23°.70 1°.7/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.06	+10 47.6	1.432	2.301	15.8	19.1
10 8	2 45.06	+10 39.7	1.378	2.310	11.6	18.9
10 18	2 37.58	+10 26.3	1.346	2.320	6.9	18.7
10 28	2 28.56	+10 11.2	1.339	2.330	2.3	18.4
11 7	2 19.27	+ 9 58.9	1.358	2.341	4.0	18.6
11 17	2 10.98	+ 9 53.8	1.404	2.353	8.7	18.9
11 27	2 4.76	+ 9 59.5	1.474	2.366	12.9	19.2
12 7	2 1.23	+10 17.8	1.565	2.380	16.5	19.4

224710 2006 BW_{131} 10 31.9 314°.44 1°.1/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.81	+12 57.1	2.149	3.000	11.9	20.8
10 8	2 42.09	+12 27.1	2.072	2.996	8.8	20.6
10 18	2 35.61	+11 50.3	2.020	2.991	5.2	20.3
10 28	2 28.00	+11 9.8	1.996	2.987	1.6	20.1
11 7	2 20.10	+10 29.9	2.000	2.983	3.0	20.2
11 17	2 12.77	+ 9 55.0	2.033	2.979	6.7	20.4
11 27	2 6.80	+ 9 29.2	2.093	2.975	10.2	20.6
12 7	2 2.75	+ 9 15.1	2.176	2.971	13.2	20.8

345805 2007 GE_{48} 10 31.9 51°.97 2°.3/30.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 55.83	+ 9 40.2	1.311	2.177	17.1	20.4
10 8	2 49.10	+ 9 29.1	1.278	2.208	12.5	20.2
10 18	2 39.80	+ 9 13.6	1.268	2.240	7.4	20.0
10 28	2 29.12	+ 8 58.2	1.282	2.272	2.7	19.8
11 7	2 18.53	+ 8 47.5	1.323	2.305	4.5	20.0
11 17	2 9.35	+ 8 45.6	1.391	2.337	9.1	20.4
11 27	2 2.58	+ 8 55.4	1.483	2.369	13.3	20.7
12 7	1 58.72	+ 9 17.9	1.596	2.402	16.6	21.0

511654 2015 BC_{278} 10 31.9 230°.80 0°.5/ 1.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.73	+17 56.4	1.575	2.422	15.8	22.3
10 8	2 47.17	+17 30.9	1.496	2.414	11.9	22.0
10 18	2 38.98	+16 51.0	1.439	2.407	7.3	21.7
10 28	2 29.01	+15 59.4	1.408	2.398	2.3	21.4
11 7	2 18.51	+15 1.4	1.404	2.390	3.1	21.4
11 17	2 8.84	+14 4.1	1.428	2.381	8.2	21.7
11 27	2 1.19	+13 15.0	1.477	2.372	12.8	22.0
12 7	1 56.32	+12 39.9	1.548	2.362	16.7	22.2

77558 2001 JY_{9} 10 31.9 127°.72 0°.6/31.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 46.01	+15 5.6	2.375	3.219	11.2	19.7
10 8	2 41.32	+14 25.0	2.302	3.221	8.2	19.5
10 18	2 35.05	+13 36.3	2.253	3.223	4.9	19.3
10 28	2 27.83	+12 42.7	2.233	3.225	1.4	19.1
11 7	2 20.40	+11 48.5	2.243	3.227	2.5	19.2
11 17	2 13.53	+10 58.2	2.282	3.228	6.0	19.4
11 27	2 7.90	+10 16.1	2.348	3.230	9.2	19.6
12 7	2 4.01	+ 9 45.3	2.439	3.232	12.0	19.8

378138 2006 VW_{45} 10 31.9 306°.74 1°.6/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.93	+11 38.0	1.315	2.185	16.9	20.8
10 8	2 47.15	+11 31.6	1.232	2.165	12.6	20.5
10 18	2 39.29	+11 17.8	1.171	2.144	7.7	20.1
10 28	2 29.17	+11 0.0	1.133	2.124	2.4	19.8
11 7	2 18.19	+10 43.1	1.121	2.105	4.4	19.9
11 17	2 7.92	+10 32.9	1.134	2.086	10.0	20.1
11 27	1 59.90	+10 34.6	1.171	2.067	15.2	20.4
12 7	1 55.08	+10 51.7	1.227	2.049	19.7	20.6

402124 2004 ER_{36} 10 31.9 255°.92 3°.0/ 3.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.88	+24 9.2	2.263	3.071	12.9	21.7
10 8	2 46.08	+24 19.2	2.162	3.052	10.1	21.4
10 18	2 38.17	+24 16.2	2.084	3.033	6.9	21.2
10 28	2 28.79	+23 59.6	2.034	3.013	3.9	21.0
11 7	2 18.85	+23 31.0	2.013	2.993	3.3	20.9
11 17	2 9.37	+22 53.7	2.021	2.972	6.3	21.1
11 27	2 1.33	+22 13.3	2.057	2.951	9.7	21.3
12 7	1 55.44	+21 35.4	2.118	2.930	12.9	21.4

144364 2004 DE_{47} 10 31.9 62°.21 0°.8/31.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.79	+15 13.3	1.855	2.707	13.5	19.8
10 8	2 42.99	+14 25.2	1.787	2.710	9.9	19.6
10 18	2 36.20	+13 26.6	1.742	2.714	5.9	19.3
10 28	2 28.18	+12 21.9	1.725	2.717	1.7	19.1
11 7	2 19.91	+11 16.8	1.736	2.720	3.1	19.2
11 17	2 12.37	+10 17.6	1.776	2.723	7.3	19.5
11 27	2 6.46	+ 9 30.0	1.841	2.727	11.2	19.7
12 7	2 2.72	+ 8 57.4	1.930	2.730	14.4	19.9

358846 2008 FL_{62} 10 31.9 113°.74 0°.2/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.64	+17 5.3	2.044	2.886	12.9	21.5
10 8	2 43.51	+16 41.1	1.973	2.889	9.6	21.3
10 18	2 36.48	+16 6.7	1.925	2.892	5.8	21.1
10 28	2 28.26	+15 24.8	1.904	2.895	1.7	20.8
11 7	2 19.78	+14 39.4	1.912	2.898	2.5	20.9
11 17	2 11.97	+13 55.5	1.949	2.901	6.5	21.2
11 27	2 5.67	+13 18.1	2.013	2.903	10.1	21.4
12 7	2 1.45	+12 51.0	2.101	2.906	13.2	21.6

379497 2010 FN_{21} 10 31.9 157°.32 3°.2/28.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.08	+ 4 48.5	2.782	3.637	9.4	21.0
10 8	2 39.66	+ 3 56.7	2.715	3.638	7.0	20.9
10 18	2 33.98	+ 3 4.1	2.674	3.639	4.5	20.7
10 28	2 27.53	+ 2 14.8	2.661	3.640	3.2	20.6
11 7	2 20.92	+ 1 32.5	2.679	3.641	4.4	20.7
11 17	2 14.75	+ 1 0.6	2.725	3.641	6.8	20.9
11 27	2 9.59	+ 0 41.2	2.799	3.642	9.2	21.1
12 7	2 5.85	+ 0 35.4	2.895	3.643	11.3	21.2

97130 1999 VN_{110} 10 31.9 140°.67 0°.9/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.94	+12 15.3	2.519	3.360	10.7	20.2
10 8	2 43.35	+11 58.8	2.450	3.368	7.9	20.0
10 18	2 36.23	+11 37.4	2.406	3.375	4.7	19.8
10 28	2 28.17	+11 13.7	2.391	3.382	1.4	19.6
11 7	2 19.93	+10 50.5	2.406	3.388	2.6	19.7
11 17	2 12.24	+10 31.0	2.451	3.394	5.9	20.0
11 27	2 5.78	+10 18.2	2.524	3.400	8.9	20.2
12 7	2 1.04	+10 14.1	2.622	3.406	11.5	20.4

20595 Ryanwisnoski 10 31.9 216°.81 0°.3/31.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 53.64	+15 8.7	1.602	2.452	15.4	19.0
10 8	2 47.76	+14 52.9	1.526	2.448	11.5	18.8
10 18	2 39.30	+14 26.8	1.474	2.443	6.9	18.5
10 28	2 29.11	+13 52.9	1.447	2.438	1.9	18.2
11 7	2 18.44	+13 16.0	1.448	2.433	3.2	18.3
11 17	2 8.60	+12 41.8	1.477	2.427	8.2	18.5
11 27	2 0.75	+12 16.1	1.531	2.422	12.7	18.8
12 7	1 55.64	+12 3.2	1.607	2.415	16.4	19.0

441228 2007 VM_{117} 10 31.9 22°.50 7°.4/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.42	− 1 40.2	1.077	1.962	18.6	19.2
10 8	2 47.09	− 1 49.0	1.044	1.978	14.2	19.0
10 18	2 38.83	− 1 47.2	1.031	1.996	9.9	18.8
10 28	2 28.92	− 1 28.2	1.040	2.016	7.5	18.7
11 7	2 18.95	− 0 48.6	1.073	2.037	8.9	18.9
11 17	2 10.44	+ 0 11.7	1.129	2.060	12.6	19.2
11 27	2 4.52	+ 1 30.0	1.207	2.083	16.4	19.5
12 7	2 1.74	+ 3 1.9	1.304	2.109	19.7	19.8

430720 2004 EK_{73} 10 31.9 155°.64 3°.5/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 51.03	+ 8 4.8	1.977	2.831	12.7	22.5
10 8	2 45.15	+ 6 48.9	1.916	2.840	9.3	22.3
10 18	2 37.40	+ 5 28.5	1.879	2.848	5.8	22.1
10 28	2 28.52	+ 4 9.8	1.872	2.855	3.5	22.0
11 7	2 19.47	+ 2 59.4	1.893	2.862	5.2	22.1
11 17	2 11.19	+ 2 3.0	1.944	2.867	8.6	22.3
11 27	2 4.49	+ 1 24.6	2.020	2.872	11.9	22.5
12 7	1 59.90	+ 1 5.3	2.119	2.876	14.7	22.7

40410 Příhoda 10 31.9 325°.64 1°.4/30.8 18

9 28	2 47.15	+12 15.9	1.989	2.845	12.6	19.2
10 8	2 42.48	+11 43.6	1.914	2.840	9.3	19.0
10 18	2 35.91	+11 4.4	1.863	2.835	5.5	18.8
10 28	2 28.13	+10 22.0	1.840	2.830	1.8	18.5
11 7	2 20.04	+ 9 41.0	1.844	2.826	3.4	18.6
11 17	2 12.55	+ 9 6.3	1.877	2.822	7.3	18.9
11 27	2 6.54	+ 8 42.0	1.936	2.818	10.9	19.1
12 7	2 2.57	+ 8 30.8	2.018	2.814	14.0	19.3

46417 2002 JV_4 10 31.9 174°.33 1°.0/30.8 18

9 28	2 47.14	+12 26.4	2.819	3.659	9.8	20.6
10 8	2 41.91	+11 53.8	2.744	3.662	7.1	20.4
10 18	2 35.34	+11 16.1	2.695	3.664	4.2	20.3
10 28	2 27.95	+10 36.0	2.675	3.665	1.4	20.0
11 7	2 20.37	+ 9 56.8	2.685	3.667	2.5	20.1
11 17	2 13.26	+ 9 21.8	2.726	3.667	5.5	20.3
11 27	2 7.22	+ 8 54.2	2.796	3.668	8.3	20.5
12 7	2 2.68	+ 8 36.1	2.891	3.667	10.7	20.7

515811 2015 MW_{50} 10 31.9 35°.55 5°.3/29.1 18

9 28	2 51.76	+ 2 4.4	1.482	2.352	15.3	20.5
10 8	2 46.12	+ 1 40.8	1.436	2.365	11.5	20.3
10 18	2 38.13	+ 1 20.9	1.411	2.377	7.6	20.1
10 28	2 28.75	+ 1 10.2	1.412	2.391	5.3	20.0
11 7	2 19.20	+ 1 13.4	1.439	2.405	6.8	20.1
11 17	2 10.70	+ 1 33.0	1.492	2.420	10.3	20.3
11 27	2 4.22	+ 2 9.4	1.569	2.435	13.9	20.6
12 7	2 0.33	+ 3 1.2	1.667	2.450	17.0	20.9

164499 2006 GO_{34} 10 31.9 145°.64 4°.7/27.6 18

9 28	2 48.98	+ 3 51.3	2.031	2.891	12.2	20.7
10 8	2 43.60	+ 2 29.4	1.975	2.899	9.1	20.5
10 18	2 36.45	+ 1 6.8	1.943	2.907	6.1	20.3
10 28	2 28.27	− 0 9.8	1.940	2.914	4.7	20.3
11 7	2 19.92	− 1 14.0	1.965	2.920	6.3	20.4
11 17	2 12.28	− 2 0.9	2.019	2.927	9.2	20.6
11 27	2 6.12	− 2 27.7	2.097	2.933	12.2	20.8
12 7	2 1.94	− 2 34.3	2.197	2.938	14.7	21.0

302671 2002 SJ_{58} 10 31.9 33°.22 2°.0/30.9 18

9 28	2 54.10	+ 8 39.9	1.565	2.425	15.2	19.6
10 8	2 47.93	+ 8 51.9	1.506	2.433	11.2	19.4
10 18	2 39.30	+ 9 1.9	1.469	2.441	6.7	19.2
10 28	2 29.12	+ 9 12.3	1.459	2.449	2.5	18.9
11 7	2 18.63	+ 9 26.1	1.476	2.458	4.0	19.1
11 17	2 9.08	+ 9 45.9	1.521	2.467	8.5	19.4
11 27	2 1.57	+10 13.8	1.591	2.477	12.6	19.6
12 7	1 56.73	+10 51.1	1.684	2.487	16.0	19.9

518252 2016 UX_{138} 10 31.9 296°.92 9°.5/24.4 18

9 28	2 48.79	− 6 19.5	1.612	2.477	14.6	20.9
10 8	2 44.20	− 7 51.1	1.539	2.452	11.9	20.7
10 18	2 37.21	− 9 16.0	1.488	2.428	10.0	20.5
10 28	2 28.57	−10 24.0	1.462	2.404	9.7	20.5
11 7	2 19.38	−11 6.3	1.460	2.379	11.4	20.5
11 17	2 10.83	−11 17.5	1.482	2.355	14.3	20.6
11 27	2 4.02	−10 56.4	1.526	2.331	17.4	20.8
12 7	1 59.71	−10 5.7	1.586	2.307	20.2	20.9

115271 2003 SL_{180} 10 31.9 215°.35 1°.4/ 2.1 18

9 28	2 50.21	+21 17.7	2.098	2.924	13.2	19.9
10 8	2 44.77	+20 50.5	2.013	2.918	10.0	19.7
10 18	2 37.31	+20 9.2	1.951	2.911	6.4	19.5
10 28	2 28.56	+19 15.8	1.917	2.905	2.6	19.2
11 7	2 19.46	+18 14.2	1.912	2.897	2.5	19.2
11 17	2 10.98	+17 10.0	1.936	2.889	6.3	19.4
11 27	2 4.04	+16 9.7	1.988	2.881	10.0	19.6
12 7	1 59.24	+15 18.6	2.064	2.872	13.3	19.8

287744 2003 SS_{23} 10 31.9 40°.32 0°.4/ 1.2 18

9 28	2 47.86	+17 7.9	1.992	2.836	13.0	20.9
10 8	2 42.95	+16 51.6	1.927	2.845	9.7	20.7
10 18	2 36.16	+16 25.5	1.886	2.854	5.9	20.5
10 28	2 28.22	+15 52.0	1.872	2.863	1.8	20.3
11 7	2 20.05	+15 15.0	1.886	2.872	2.4	20.3
11 17	2 12.58	+14 39.0	1.929	2.882	6.4	20.6
11 27	2 6.65	+14 8.8	1.998	2.892	10.0	20.9
12 7	2 2.80	+13 48.0	2.091	2.902	13.1	21.1

222460 2001 RW_{34} 10 31.9 66°.01 1°.2/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 51.09	+20 3.5	1.447	2.297	16.8	19.7
10 8	2 45.93	+19 34.2	1.388	2.307	12.6	19.5
10 18	2 38.17	+18 48.1	1.350	2.317	7.8	19.2
10 28	2 28.80	+17 48.4	1.337	2.327	2.8	19.0
11 7	2 19.18	+16 41.4	1.351	2.338	3.0	19.0
11 17	2 10.61	+15 35.1	1.392	2.348	8.0	19.3
11 27	2 4.22	+14 37.7	1.457	2.359	12.4	19.6
12 7	2 0.62	+13 54.9	1.545	2.369	16.2	19.9

370299 2002 RB_5 10 31.9 316°.41 12°.4/12.8 17

9 28	2 57.28	+52 2.4	2.304	2.937	17.2	20.1
10 8	2 51.33	+53 29.1	2.214	2.924	15.9	19.9
10 18	2 41.98	+54 31.3	2.140	2.912	14.5	19.8
10 28	2 30.05	+55 2.2	2.086	2.900	13.3	19.7
11 7	2 17.00	+54 57.7	2.052	2.888	12.5	19.6
11 17	2 4.63	+54 17.9	2.040	2.877	12.5	19.6
11 27	1 54.65	+53 8.6	2.050	2.866	13.2	19.6
12 7	1 48.17	+51 39.4	2.082	2.855	14.4	19.7

75574 2000 AZ_8 10 31.9 214°.45 5°.4/ 5.6 18

9 28	2 52.15	+32 11.2	2.178	2.953	14.4	19.4
10 8	2 46.38	+32 22.1	2.089	2.948	11.8	19.2
10 18	2 38.38	+32 13.7	2.022	2.942	9.0	19.0
10 28	2 28.89	+31 44.4	1.980	2.937	6.4	18.8
11 7	2 18.97	+30 55.6	1.965	2.930	5.4	18.7
11 17	2 9.71	+29 51.6	1.980	2.923	7.0	18.8
11 27	2 2.13	+28 39.5	2.021	2.916	9.8	19.0
12 7	1 56.92	+27 27.1	2.088	2.909	12.7	19.2

143650 2003 QZ_{61} 10 31.9 36°.94 1°.4/ 1.6 18

9 28	2 54.70	+17 15.6	1.156	2.020	19.1	18.7
10 8	2 48.76	+17 36.4	1.122	2.048	14.2	18.5
10 18	2 39.84	+17 43.4	1.108	2.078	8.7	18.3
10 28	2 29.25	+17 38.2	1.118	2.108	3.1	18.1
11 7	2 18.64	+17 25.0	1.152	2.139	3.4	18.2
11 17	2 9.55	+17 9.6	1.213	2.171	8.6	18.6
11 27	2 3.14	+16 58.4	1.296	2.203	13.2	18.9
12 7	1 59.95	+16 56.1	1.401	2.236	17.0	19.3

126672 2002 CL_{215} 10 31.9 123°.81 0°.7/31.4 18

9 28	2 50.94	+14 38.4	1.768	2.618	14.1	20.5
10 8	2 45.42	+14 7.5	1.702	2.624	10.4	20.3
10 18	2 37.73	+13 27.1	1.660	2.630	6.2	20.1
10 28	2 28.69	+12 40.8	1.644	2.636	1.7	19.8
11 7	2 19.38	+11 53.9	1.657	2.641	3.2	19.9
11 17	2 10.89	+11 11.7	1.698	2.647	7.5	20.2
11 27	2 4.17	+10 39.7	1.765	2.652	11.5	20.5
12 7	1 59.82	+10 21.1	1.855	2.656	14.8	20.7

163263 2002 GA_{71} 10 31.9 14°.36 6°.2/21.7 18

9 28	2 41.11	−17 44.4	4.096	4.903	7.6	19.4
10 8	2 37.19	−18 31.7	4.053	4.904	6.7	19.3
10 18	2 32.42	−19 9.8	4.035	4.905	6.2	19.3
10 28	2 27.14	−19 35.6	4.043	4.906	6.3	19.3
11 7	2 21.77	−19 47.2	4.077	4.908	6.9	19.3
11 17	2 16.72	−19 43.4	4.136	4.909	7.8	19.4
11 27	2 12.36	−19 24.4	4.217	4.910	8.9	19.5
12 7	2 8.99	−18 51.3	4.318	4.912	9.8	19.6

316014 2009 FJ_{19} 10 31.9 205°.29 3°.7/29.6 17

9 28	2 52.84	+ 8 32.0	1.455	2.322	15.7	21.4
10 8	2 47.25	+ 7 38.2	1.389	2.320	11.7	21.2
10 18	2 39.02	+ 6 38.5	1.346	2.317	7.2	20.9
10 28	2 29.09	+ 5 39.4	1.328	2.315	3.8	20.7
11 7	2 18.76	+ 4 48.4	1.337	2.311	5.8	20.8
11 17	2 9.35	+ 4 12.3	1.372	2.308	10.3	21.1
11 27	2 2.04	+ 3 55.7	1.431	2.304	14.5	21.3
12 7	1 57.53	+ 3 59.8	1.510	2.300	18.2	21.5

138154 2000 EO_{69} 10 31.9 213°.05 0°.8/ 1.6 18

9 28	2 50.26	+18 25.8	2.169	3.001	12.6	20.6
10 8	2 44.73	+18 11.3	2.086	2.996	9.5	20.4
10 18	2 37.28	+17 46.3	2.028	2.992	5.9	20.2
10 28	2 28.58	+17 12.5	1.997	2.986	2.0	19.9
11 7	2 19.53	+16 33.2	1.995	2.981	2.4	19.9
11 17	2 11.07	+15 52.9	2.023	2.975	6.2	20.2
11 27	2 4.07	+15 16.5	2.078	2.969	9.8	20.4
12 7	1 59.13	+14 48.3	2.158	2.962	12.9	20.6

392303 2010 CS_{166} 10 31.9 141°.05 4°.5/ 4.5 18

9 28	2 54.47	+28 36.6	2.126	2.916	14.2	21.7
10 8	2 47.95	+28 55.5	2.053	2.926	11.4	21.5
10 18	2 39.24	+28 57.6	2.002	2.935	8.2	21.3
10 28	2 29.14	+28 41.8	1.977	2.944	5.4	21.2
11 7	2 18.71	+28 9.6	1.980	2.952	4.6	21.1
11 17	2 9.04	+27 25.2	2.013	2.960	6.7	21.3
11 27	2 1.13	+26 35.1	2.074	2.967	9.7	21.5
12 7	1 55.59	+25 45.8	2.159	2.974	12.5	21.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
458381 2010 WP_{65}			10 31.9 296°.37		1°.9/30.4 18	
	h m	° ′			°	m
9 28	2 47.96	+ 9 59.2	2.127	2.981	11.9	20.7
10 8	2 43.01	+ 9 34.2	2.049	2.974	8.8	20.5
10 18	2 36.23	+ 9 4.7	1.995	2.966	5.3	20.3
10 28	2 28.29	+ 8 34.2	1.969	2.959	2.1	20.1
11 7	2 20.01	+ 8 6.8	1.972	2.951	3.6	20.2
11 17	2 12.29	+ 7 46.3	2.003	2.944	7.2	20.4
11 27	2 5.94	+ 7 36.1	2.061	2.937	10.6	20.6
12 7	2 1.54	+ 7 38.1	2.142	2.929	13.6	20.8
264315 1999 TK_{84}			10 31.9 344°.82		0°.6/31.5 18	
9 28	2 45.78	+16 55.2	1.109	1.990	18.5	20.0
10 8	2 42.77	+16 6.0	1.044	1.981	13.9	19.7
10 18	2 36.67	+14 57.7	0.998	1.973	8.3	19.3
10 28	2 28.48	+13 36.1	0.974	1.966	2.3	19.0
11 7	2 19.72	+12 10.8	0.975	1.961	4.1	19.1
11 17	2 12.00	+10 53.2	0.999	1.956	10.2	19.4
11 27	2 6.71	+ 9 53.3	1.045	1.953	15.6	19.7
12 7	2 4.65	+ 9 17.2	1.110	1.950	20.1	20.0
224730 2006 BT_{269}			10 31.9 269°.75		1°.6/30.6 17	
9 28	2 48.10	+10 29.4	2.304	3.153	11.3	20.1
10 8	2 43.01	+10 7.0	2.220	3.143	8.3	19.9
10 18	2 36.21	+ 9 40.2	2.161	3.132	5.0	19.7
10 28	2 28.28	+ 9 11.9	2.131	3.121	1.9	19.4
11 7	2 20.02	+ 8 45.8	2.130	3.110	3.3	19.5
11 17	2 12.25	+ 8 25.4	2.157	3.098	6.7	19.7
11 27	2 5.75	+ 8 14.0	2.213	3.087	10.0	19.9
12 7	2 1.07	+ 8 13.7	2.291	3.076	12.9	20.1
138021 2000 CG_{121}			10 31.9	5°.65	1°.2/ 1.5 18	
9 28	2 44.12	+18 24.5	0.915	1.806	20.6	18.2
10 8	2 41.90	+18 15.1	0.865	1.805	15.5	17.9
10 18	2 36.26	+17 46.0	0.832	1.807	9.6	17.6
10 28	2 28.37	+17 0.7	0.819	1.810	3.3	17.3
11 7	2 19.97	+16 7.2	0.828	1.815	3.8	17.3
11 17	2 12.85	+15 15.4	0.858	1.823	10.0	17.7
11 27	2 8.49	+14 35.4	0.910	1.832	15.6	18.1
12 7	2 7.65	+14 13.4	0.979	1.843	20.3	18.4
54363 2000 KH_{39}			10 31.9 291°.60		1°.7/30.8 18	
9 28	2 49.36	+13 31.6	1.508	2.372	15.4	19.9
10 8	2 44.72	+12 43.0	1.434	2.363	11.4	19.7
10 18	2 37.56	+11 42.9	1.381	2.354	6.8	19.4
10 28	2 28.71	+10 36.4	1.354	2.346	2.2	19.1
11 7	2 19.39	+ 9 30.8	1.354	2.337	4.2	19.2
11 17	2 10.86	+ 8 33.8	1.381	2.328	9.1	19.4
11 27	2 4.29	+ 7 52.0	1.432	2.320	13.6	19.7
12 7	2 0.39	+ 7 29.3	1.504	2.312	17.4	19.9
484248 2007 FN_{40}			10 31.9 283°.47		6°.4/26.2 17	
9 28	2 49.96	− 3 49.7	2.276	3.125	11.5	22.6
10 8	2 44.52	− 4 46.7	2.182	3.091	9.1	22.4
10 18	2 37.22	− 5 39.9	2.112	3.057	7.1	22.2
10 28	2 28.61	− 6 23.1	2.070	3.023	6.5	22.1
11 7	2 19.50	− 6 50.8	2.056	2.988	7.8	22.1
11 17	2 10.76	− 6 59.1	2.069	2.952	10.4	22.2
11 27	2 3.26	− 6 46.3	2.108	2.916	13.1	22.3
12 7	1 57.66	− 6 12.8	2.167	2.879	15.7	22.4
185166 2006 SA_{224}			10 31.9 237°.83		0°.7/31.5 18	
9 28	2 51.75	+15 19.2	1.596	2.450	15.3	21.0
10 8	2 46.41	+14 44.3	1.520	2.443	11.4	20.7
10 18	2 38.54	+13 57.4	1.465	2.436	6.8	20.5
10 28	2 29.00	+13 2.2	1.436	2.428	1.9	20.1
11 7	2 18.98	+12 4.7	1.435	2.420	3.4	20.2
11 17	2 9.75	+11 11.7	1.462	2.412	8.4	20.5
11 27	2 2.46	+10 30.1	1.514	2.403	12.9	20.8
12 7	1 57.83	+10 4.2	1.587	2.395	16.7	21.0
175721 1997 GU			10 31.9 147°.88		0°.4/ 1.2 18	
9 28	2 53.98	+17 26.8	1.933	2.768	13.8	21.1
10 8	2 47.51	+17 5.2	1.866	2.778	10.3	20.9
10 18	2 38.93	+16 32.6	1.822	2.788	6.3	20.7
10 28	2 29.06	+15 51.5	1.807	2.797	1.9	20.4
11 7	2 18.95	+15 6.2	1.820	2.806	2.6	20.5
11 17	2 9.67	+14 21.9	1.863	2.813	6.8	20.8
11 27	2 2.14	+13 43.9	1.933	2.820	10.6	21.1
12 7	1 56.93	+13 16.5	2.027	2.827	13.8	21.3
293256 2007 CH_{12}			10 31.9 157°.60		0°.5/ 1.4 18	
9 28	2 48.81	+17 34.8	2.186	3.023	12.3	21.3
10 8	2 43.59	+17 18.7	2.111	3.024	9.2	21.1
10 18	2 36.57	+16 52.9	2.059	3.025	5.6	20.9
10 28	2 28.40	+16 19.6	2.036	3.026	1.8	20.7
11 7	2 19.95	+15 42.1	2.041	3.027	2.3	20.7
11 17	2 12.11	+15 4.7	2.076	3.028	6.1	21.0
11 27	2 5.69	+14 32.0	2.138	3.029	9.6	21.2
12 7	2 1.24	+14 7.9	2.225	3.030	12.6	21.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
196947 2003 UT_{35}			10 31.9 320°.84		7°.1/25.3 18	
	h m	° ′			°	m
9 28	2 44.84	− 3 10.7	1.974	2.840	12.2	19.4
10 8	2 40.81	− 4 34.4	1.907	2.826	9.7	19.2
10 18	2 34.96	− 5 53.9	1.864	2.812	7.7	19.0
10 28	2 27.95	− 7 1.7	1.848	2.799	7.2	19.0
11 7	2 20.63	− 7 51.2	1.858	2.787	8.7	19.1
11 17	2 13.86	− 8 17.8	1.893	2.774	11.2	19.2
11 27	2 8.47	− 8 19.9	1.951	2.763	13.9	19.4
12 7	2 5.03	− 7 58.5	2.029	2.751	16.3	19.5
235180 2003 SD_{71}			10 31.9 71°.98		0°.4/ 1.3 18	
9 28	2 49.06	+19 25.8	1.662	2.508	15.1	20.2
10 8	2 44.14	+18 33.5	1.600	2.518	11.3	20.0
10 18	2 37.00	+17 25.8	1.560	2.527	6.9	19.8
10 28	2 28.52	+16 6.8	1.546	2.537	2.1	19.5
11 7	2 19.83	+14 43.4	1.560	2.547	2.8	19.6
11 17	2 12.04	+13 23.6	1.603	2.556	7.4	19.9
11 27	2 6.12	+12 14.8	1.671	2.566	11.5	20.2
12 7	2 2.62	+11 22.2	1.762	2.576	15.0	20.4
434879 2006 SR_{345}			10 31.9 348°.35		3°.3/ 2.6 18	
9 28	2 50.94	+21 22.3	1.178	2.037	19.2	20.9
10 8	2 46.68	+21 43.6	1.111	2.032	14.8	20.6
10 18	2 39.12	+21 46.8	1.062	2.027	9.8	20.3
10 28	2 29.24	+21 31.4	1.036	2.023	4.7	20.0
11 7	2 18.65	+21 0.6	1.034	2.019	4.2	20.0
11 17	2 9.10	+20 21.2	1.056	2.017	9.2	20.3
11 27	2 2.15	+19 42.5	1.102	2.016	14.3	20.5
12 7	1 58.69	+19 12.8	1.166	2.015	18.8	20.8
288960 Steponasdarius			10 31.9 355°.78		3°.8/ 3.7 17	
9 28	2 50.26	+25 17.1	1.966	2.781	14.3	20.2
10 8	2 45.06	+25 41.0	1.888	2.780	11.3	20.0
10 18	2 37.65	+25 50.2	1.832	2.778	7.9	19.8
10 28	2 28.75	+25 43.8	1.801	2.778	4.8	19.6
11 7	2 19.42	+25 23.4	1.799	2.777	4.1	19.6
11 17	2 10.75	+24 52.7	1.824	2.777	6.7	19.7
11 27	2 3.75	+24 17.7	1.876	2.777	10.1	19.9
12 7	1 59.11	+23 44.2	1.952	2.777	13.3	20.1
132874 Latinovits			10 31.9 343°.15		11°.7/21.2 16	
9 28	2 41.42	+ 6 46.4	0.771	1.688	20.4	19.1
10 8	2 40.09	+ 1 53.4	0.725	1.680	15.4	18.8
10 18	2 35.24	− 3 20.1	0.702	1.672	12.0	18.6
10 28	2 28.12	− 8 17.9	0.703	1.666	12.8	18.6
11 7	2 20.50	−12 24.6	0.726	1.662	17.1	18.8
11 17	2 14.21	−15 19.0	0.768	1.658	22.0	19.1
11 27	2 10.69	−16 57.2	0.826	1.656	26.4	19.4
12 7	2 10.66	−17 28.3	0.895	1.654	29.9	19.6
202210 2004 XA_{105}			10 31.9 52°.21		5°.8/28.9 18	
9 28	2 53.75	+ 0 55.8	1.460	2.327	15.7	18.8
10 8	2 47.61	+ 0 29.0	1.416	2.342	11.8	18.6
10 18	2 39.06	+ 0 7.2	1.393	2.357	8.0	18.4
10 28	2 29.10	− 0 3.7	1.396	2.372	5.8	18.4
11 7	2 19.02	+ 0 0.9	1.425	2.388	7.3	18.5
11 17	2 10.04	+ 0 23.3	1.481	2.404	10.8	18.7
11 27	2 3.18	+ 1 3.5	1.560	2.420	14.3	19.0
12 7	1 59.00	+ 1 59.6	1.659	2.437	17.3	19.2
513338 2007 ME_{1}			10 31.9 237°.83		3°.3/29.4 18	
9 28	2 50.55	+ 8 11.3	1.899	2.756	13.0	22.2
10 8	2 45.15	+ 7 16.0	1.818	2.744	9.7	21.9
10 18	2 37.64	+ 6 15.4	1.762	2.732	6.0	21.7
10 28	2 28.75	+ 5 15.0	1.733	2.719	3.3	21.5
11 7	2 19.45	+ 4 20.7	1.733	2.705	5.1	21.6
11 17	2 10.76	+ 3 38.5	1.761	2.691	8.8	21.8
11 27	2 3.65	+ 3 12.5	1.815	2.677	12.5	22.0
12 7	1 58.76	+ 3 4.6	1.890	2.662	15.7	22.2
175035 2004 FM_{55}			10 31.9 69°.79		0°.7/ 1.4 18	
9 28	2 50.38	+17 32.4	1.887	2.729	13.8	20.1
10 8	2 45.01	+17 23.7	1.816	2.732	10.3	19.9
10 18	2 37.53	+17 4.6	1.768	2.735	6.3	19.7
10 28	2 28.71	+16 36.8	1.747	2.737	2.1	19.4
11 7	2 19.56	+16 4.1	1.754	2.740	2.6	19.5
11 17	2 11.14	+15 31.0	1.790	2.743	6.8	19.8
11 27	2 4.38	+15 2.8	1.852	2.746	10.6	20.0
12 7	1 59.91	+14 43.5	1.937	2.749	13.9	20.2
389966 2012 TZ_{200}			10 31.9 284°.63		0°.5/ 1.2 18	
9 28	2 52.99	+16 2.1	1.617	2.466	15.3	20.7
10 8	2 47.41	+16 7.8	1.537	2.457	11.5	20.5
10 18	2 39.22	+16 3.7	1.480	2.448	7.1	20.2
10 28	2 29.25	+15 51.2	1.449	2.440	2.2	19.9
11 7	2 18.68	+15 33.6	1.445	2.431	3.0	19.9
11 17	2 8.85	+15 15.3	1.468	2.422	7.9	20.2
11 27	2 0.97	+15 1.7	1.518	2.414	12.4	20.5
12 7	1 55.82	+14 57.4	1.589	2.405	16.2	20.7

313010 1999 VJ_{106} 10 31.9 351°.54 1°.6/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 50.03	+10 6.1	1.991	2.845	12.7	19.9
10 8	2 44.63	+10 0.4	1.919	2.843	9.3	19.7
10 18	2 37.26	+ 9 51.1	1.871	2.842	5.6	19.5
10 28	2 28.63	+ 9 40.9	1.850	2.841	2.0	19.2
11 7	2 19.68	+ 9 33.0	1.858	2.840	3.4	19.3
11 17	2 11.36	+ 9 30.5	1.894	2.839	7.2	19.6
11 27	2 4.56	+ 9 36.5	1.957	2.838	10.8	19.8
12 7	1 59.88	+ 9 52.6	2.043	2.838	13.9	20.0

351152 2003 YD_{52} 10 31.9 341°.40 7°.5/28.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.28	− 2 19.9	1.373	2.246	16.1	19.3
10 8	2 46.28	− 2 45.9	1.308	2.235	12.6	19.1
10 18	2 38.56	− 3 3.6	1.265	2.224	9.2	18.9
10 28	2 29.05	− 3 5.6	1.246	2.215	7.5	18.7
11 7	2 19.04	− 2 46.5	1.251	2.207	9.0	18.8
11 17	2 9.91	− 2 3.8	1.281	2.200	12.5	19.0
11 27	2 2.89	− 0 58.2	1.333	2.193	16.3	19.2
12 7	1 58.74	+ 0 26.8	1.405	2.188	19.6	19.4

175072 2004 GB_{36} 10 31.9 246°.48 3°.2/ 3.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.67	+25 2.7	2.306	3.111	12.8	21.1
10 8	2 45.92	+25 12.0	2.209	3.096	10.1	20.9
10 18	2 38.12	+25 7.7	2.135	3.081	7.0	20.7
10 28	2 28.91	+24 49.4	2.087	3.065	4.0	20.5
11 7	2 19.20	+24 18.6	2.069	3.049	3.5	20.4
11 17	2 9.98	+23 39.0	2.081	3.032	6.1	20.6
11 27	2 2.18	+22 55.8	2.120	3.015	9.4	20.8
12 7	1 56.50	+22 14.8	2.185	2.998	12.5	20.9

36231 1999 UG_{16} 10 31.9 217°.49 0°.8/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.38	+17 10.9	2.237	3.071	12.2	18.4
10 8	2 44.78	+17 15.1	2.159	3.070	9.1	18.2
10 18	2 37.31	+17 11.1	2.104	3.069	5.6	18.0
10 28	2 28.65	+16 59.9	2.078	3.068	1.9	17.8
11 7	2 19.66	+16 44.1	2.080	3.066	2.3	17.8
11 17	2 11.23	+16 26.8	2.113	3.065	6.0	18.0
11 27	2 4.21	+16 11.9	2.173	3.064	9.4	18.2
12 7	1 59.18	+16 3.0	2.257	3.062	12.4	18.4

483566 2004 BE_{85} 10 31.9 269°.38 7°.7/ 8.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 57.16	+43 12.3	2.755	3.439	13.7	23.5
10 8	2 50.22	+43 28.5	2.625	3.402	12.1	23.3
10 18	2 40.85	+43 23.2	2.515	3.364	10.3	23.1
10 28	2 29.74	+42 52.3	2.428	3.326	8.6	22.9
11 7	2 17.90	+41 54.2	2.369	3.286	7.7	22.8
11 17	2 6.54	+40 31.1	2.338	3.245	8.2	22.8
11 27	1 56.78	+38 49.0	2.336	3.203	9.9	22.8
12 7	1 49.44	+36 56.8	2.361	3.160	12.1	22.9

65940 1998 FE_{80} 10 31.9 148°.54 3°.1/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 53.10	+ 9 1.1	1.711	2.568	14.2	20.0
10 8	2 47.00	+ 8 8.0	1.650	2.576	10.5	19.8
10 18	2 38.69	+ 7 9.7	1.614	2.584	6.4	19.6
10 28	2 29.03	+ 6 12.0	1.604	2.591	3.2	19.4
11 7	2 19.15	+ 5 21.2	1.623	2.598	5.0	19.5
11 17	2 10.16	+ 4 42.9	1.670	2.604	8.9	19.8
11 27	2 3.02	+ 4 21.1	1.742	2.609	12.7	20.0
12 7	1 58.31	+ 4 17.1	1.836	2.614	15.9	20.3

27811 1993 OA_{7} 10 31.9 321°.31 2°.7/30.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.32	+10 25.8	1.348	2.222	16.3	17.9
10 8	2 44.99	+ 9 50.2	1.275	2.210	12.1	17.6
10 18	2 37.89	+ 9 6.8	1.224	2.198	7.3	17.3
10 28	2 28.89	+ 8 21.0	1.197	2.187	3.0	17.0
11 7	2 19.30	+ 7 39.9	1.196	2.176	5.1	17.1
11 17	2 10.54	+ 7 10.3	1.220	2.166	10.1	17.4
11 27	2 3.90	+ 6 57.6	1.267	2.157	14.8	17.6
12 7	2 0.17	+ 7 4.2	1.333	2.148	18.9	17.8

71272 2000 AY_{33} 10 31.9 223°.77 4°.6/ 5.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.70	+31 34.3	2.623	3.394	12.3	19.6
10 8	2 44.26	+31 46.5	2.532	3.388	10.1	19.4
10 18	2 37.01	+31 43.0	2.463	3.382	7.6	19.3
10 28	2 28.58	+31 22.9	2.420	3.376	5.4	19.1
11 7	2 19.78	+30 47.1	2.406	3.370	4.6	19.0
11 17	2 11.49	+29 59.0	2.421	3.363	6.0	19.1
11 27	2 4.54	+29 3.6	2.464	3.357	8.4	19.3
12 7	1 59.51	+28 6.9	2.533	3.350	10.9	19.4

391955 2008 WV_{32} 10 31.9 321°.74 11°.7/28.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	3 3.48	−16 4.2	1.568	2.388	17.1	20.1
10 8	2 54.98	−16 12.3	1.504	2.379	14.6	19.9
10 18	2 43.62	−15 57.6	1.462	2.371	12.5	19.7
10 28	2 30.47	−15 12.1	1.444	2.363	11.7	19.7
11 7	2 16.97	−13 52.2	1.451	2.356	12.6	19.7
11 17	2 4.60	−12 0.1	1.485	2.349	14.8	19.8
11 27	1 54.60	− 9 41.7	1.544	2.342	17.5	20.0
12 7	1 47.69	− 7 5.5	1.623	2.336	20.1	20.2

114382 2002 XC_{112} 10 31.9 80°.29 0°.8/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 55.52	+13 50.4	1.474	2.328	16.2	19.1
10 8	2 48.95	+13 34.1	1.427	2.351	11.9	18.9
10 18	2 39.87	+13 8.8	1.403	2.374	7.1	18.6
10 28	2 29.35	+12 38.2	1.404	2.396	2.0	18.4
11 7	2 18.74	+12 7.4	1.433	2.418	3.5	18.5
11 17	2 9.31	+11 41.7	1.490	2.440	8.2	18.9
11 27	2 2.11	+11 26.0	1.572	2.461	12.4	19.2
12 7	1 57.70	+11 23.1	1.675	2.483	15.9	19.5

298590 2003 YC_{62} 10 31.9 336°.53 2°.6/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.84	+10 36.3	1.365	2.242	15.9	20.0
10 8	2 43.13	+10 3.7	1.292	2.228	11.8	19.7
10 18	2 36.76	+ 9 23.3	1.240	2.214	7.1	19.4
10 28	2 28.57	+ 8 40.5	1.212	2.202	2.9	19.1
11 7	2 19.80	+ 8 2.0	1.209	2.190	4.9	19.2
11 17	2 11.81	+ 7 34.3	1.231	2.180	9.8	19.5
11 27	2 5.83	+ 7 22.9	1.277	2.170	14.5	19.7
12 7	2 2.66	+ 7 30.1	1.342	2.162	18.5	20.0

403468 2009 TZ_{7} 10 31.9 7°.69 3°.1/29.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.53	+ 7 22.3	1.778	2.644	13.3	20.5
10 8	2 42.91	+ 6 52.9	1.715	2.645	9.8	20.3
10 18	2 36.27	+ 6 21.1	1.676	2.647	6.1	20.1
10 28	2 28.36	+ 5 51.5	1.663	2.649	3.2	19.9
11 7	2 20.17	+ 5 28.9	1.677	2.652	4.8	20.0
11 17	2 12.71	+ 5 17.2	1.718	2.656	8.4	20.3
11 27	2 6.87	+ 5 19.4	1.785	2.660	12.0	20.5
12 7	2 3.22	+ 5 36.3	1.873	2.664	15.1	20.7

511012 2013 PT_{37} 10 31.9 86°.38 3°.1/30.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 55.54	+ 8 41.1	1.327	2.194	16.9	20.9
10 8	2 49.24	+ 8 14.3	1.277	2.207	12.5	20.7
10 18	2 40.19	+ 7 43.5	1.248	2.220	7.5	20.5
10 28	2 29.47	+ 7 13.8	1.245	2.234	3.4	20.2
11 7	2 18.54	+ 6 51.4	1.268	2.247	5.3	20.4
11 17	2 8.82	+ 6 41.0	1.317	2.259	9.9	20.7
11 27	2 1.47	+ 6 46.2	1.390	2.272	14.3	21.0
12 7	1 57.12	+ 7 7.6	1.483	2.285	17.9	21.3

388046 2005 ST_{231} 10 31.9 3°.14 0°.0/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.71	+16 2.9	1.081	1.963	18.8	20.9
10 8	2 43.46	+15 43.8	1.024	1.961	14.0	20.6
10 18	2 37.09	+15 9.7	0.986	1.961	8.5	20.3
10 28	2 28.66	+14 24.9	0.970	1.962	2.4	20.0
11 7	2 19.74	+13 36.6	0.977	1.964	3.8	20.1
11 17	2 11.95	+12 53.2	1.008	1.968	9.7	20.4
11 27	2 6.66	+12 22.9	1.062	1.973	15.0	20.7
12 7	2 4.63	+12 10.3	1.133	1.980	19.4	21.0

404587 2013 LP_{31} 10 31.9 52°.05 4°.4/28.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.77	+ 3 44.7	2.037	2.900	12.0	20.9
10 8	2 42.04	+ 2 47.3	1.982	2.909	8.9	20.7
10 18	2 35.60	+ 1 50.1	1.952	2.917	5.9	20.5
10 28	2 28.15	+ 0 58.8	1.949	2.926	4.4	20.5
11 7	2 20.54	+ 0 18.5	1.974	2.934	5.8	20.6
11 17	2 13.60	− 0 6.9	2.026	2.943	8.7	20.8
11 27	2 8.08	− 0 15.1	2.104	2.952	11.6	21.0
12 7	2 4.45	− 0 6.1	2.203	2.961	14.2	21.2

509921 2009 HK_{42} 10 31.9 187°.75 2°.0/30.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 54.88	+10 57.6	1.805	2.653	14.0	23.0
10 8	2 48.38	+10 23.4	1.732	2.653	10.3	22.8
10 18	2 39.59	+ 9 42.6	1.682	2.652	6.2	22.5
10 28	2 29.33	+ 8 59.4	1.661	2.651	2.4	22.3
11 7	2 18.71	+ 8 19.0	1.668	2.648	4.0	22.4
11 17	2 8.88	+ 7 46.6	1.704	2.644	8.3	22.6
11 27	2 0.85	+ 7 26.6	1.767	2.640	12.2	22.9
12 7	1 55.27	+ 7 21.4	1.852	2.635	15.5	23.1

47534 2000 AD_{98} 10 31.9 236°.36 1°.7/30.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.42	+ 9 46.7	2.575	3.422	10.3	19.1
10 8	2 42.35	+ 9 19.9	2.493	3.415	7.6	18.9
10 18	2 35.77	+ 8 49.6	2.437	3.407	4.6	18.7
10 28	2 28.22	+ 8 18.4	2.410	3.398	1.9	18.5
11 7	2 20.40	+ 7 49.9	2.412	3.390	3.2	18.6
11 17	2 13.03	+ 7 27.4	2.444	3.381	6.3	18.8
11 27	2 6.80	+ 7 13.6	2.504	3.373	9.2	18.9
12 7	2 2.19	+ 7 10.5	2.588	3.364	11.8	19.1

376562 2013 PP_{9} 10 31.9 130°.91 1°.6/30.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 53.53	+13 30.9	1.543	2.399	15.6	21.9
10 8	2 47.53	+12 39.5	1.485	2.410	11.4	21.7
10 18	2 39.10	+11 37.9	1.449	2.420	6.8	21.4
10 28	2 29.18	+10 31.4	1.439	2.430	2.2	21.2
11 7	2 19.04	+ 9 27.3	1.458	2.440	4.0	21.3
11 17	2 9.92	+ 8 32.5	1.503	2.448	8.7	21.6
11 27	2 2.86	+ 7 52.9	1.575	2.457	12.9	21.9
12 7	1 58.48	+ 7 31.5	1.667	2.464	16.4	22.2

76397 2000 FN_{12} 10 31.9 272.°06 5.°5/28.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 51.26	+ 0 10.4	1.909	2.767	12.9	19.2
10 8	2 45.67	− 0 27.8	1.832	2.752	9.9	19.0
10 18	2 37.98	− 1 3.0	1.779	2.738	7.0	18.8
10 28	2 28.89	− 1 29.4	1.752	2.723	5.5	18.6
11 7	2 19.39	− 1 41.9	1.754	2.708	7.0	18.7
11 17	2 10.48	− 1 37.2	1.782	2.693	10.0	18.9
11 27	2 3.14	− 1 13.6	1.836	2.678	13.3	19.0
12 7	1 58.01	− 0 32.1	1.910	2.663	16.2	19.2

446766 2015 PC_{37} 10 31.9 112.°49 4.°0/29.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.43	+ 5 4.1	1.883	2.742	13.0	20.8
10 8	2 44.87	+ 4 20.5	1.824	2.750	9.6	20.6
10 18	2 37.36	+ 3 36.3	1.790	2.757	6.2	20.4
10 28	2 28.68	+ 2 56.6	1.782	2.764	4.0	20.3
11 7	2 19.79	+ 2 26.6	1.803	2.771	5.5	20.4
11 17	2 11.66	+ 2 10.2	1.852	2.777	8.8	20.7
11 27	2 5.15	+ 2 9.7	1.926	2.784	12.1	20.9
12 7	2 0.80	+ 2 25.5	2.022	2.790	14.9	21.1

177159 2003 SD_{47} 10 31.9 7.°04 1.°1/ 1.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.76	+19 34.7	1.118	1.988	19.2	19.2
10 8	2 44.96	+19 7.7	1.058	1.988	14.5	18.9
10 18	2 37.99	+18 20.5	1.018	1.989	9.0	18.6
10 28	2 28.93	+17 16.8	1.000	1.990	3.1	18.3
11 7	2 19.39	+16 4.4	1.006	1.993	3.5	18.3
11 17	2 11.03	+14 53.5	1.036	1.996	9.4	18.7
11 27	2 5.23	+13 54.5	1.089	2.000	14.7	19.0
12 7	2 2.74	+13 14.1	1.161	2.005	19.2	19.3

477438 2009 WS_{160} 10 31.9 322.°64 2.°5/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.43	+20 8.1	1.393	2.242	17.3	21.0
10 8	2 47.44	+20 25.6	1.317	2.234	13.3	20.7
10 18	2 39.45	+20 28.5	1.262	2.226	8.6	20.4
10 28	2 29.38	+20 16.7	1.232	2.219	3.8	20.1
11 7	2 18.62	+19 52.8	1.227	2.212	3.6	20.1
11 17	2 8.72	+19 22.4	1.248	2.206	8.5	20.4
11 27	2 1.09	+18 52.9	1.293	2.199	13.3	20.6
12 7	1 56.59	+18 31.2	1.359	2.194	17.4	20.9

108398 2001 KB_{28} 10 31.9 170.°44 1.°1/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 53.60	+19 29.6	1.896	2.727	14.2	21.0
10 8	2 47.39	+19 8.5	1.822	2.731	10.7	20.8
10 18	2 38.98	+18 34.4	1.771	2.734	6.7	20.5
10 28	2 29.16	+17 49.2	1.748	2.737	2.4	20.3
11 7	2 19.02	+16 57.1	1.753	2.739	2.6	20.3
11 17	2 9.68	+16 3.9	1.788	2.740	6.9	20.6
11 27	2 2.10	+15 15.9	1.850	2.741	10.8	20.8
12 7	1 56.92	+14 38.0	1.935	2.741	14.1	21.0

378120 2006 UC_{328} 10 31.9 306.°54 0.°0/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.69	+16 55.8	1.324	2.188	17.1	21.6
10 8	2 45.52	+16 32.3	1.243	2.171	12.9	21.3
10 18	2 38.37	+15 53.5	1.182	2.153	7.9	21.0
10 28	2 29.09	+15 2.2	1.145	2.136	2.3	20.6
11 7	2 19.06	+14 4.5	1.133	2.120	3.5	20.6
11 17	2 9.80	+13 8.7	1.147	2.103	9.3	20.9
11 27	2 2.76	+12 23.4	1.184	2.087	14.5	21.2
12 7	1 58.83	+11 54.8	1.241	2.072	19.0	21.4

333031 2011 SX_{42} 10 31.9 158.°21 3.°9/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 54.37	+26 38.5	2.168	2.965	13.8	21.1
10 8	2 47.90	+26 59.3	2.090	2.970	10.9	20.9
10 18	2 39.28	+27 5.2	2.036	2.976	7.7	20.8
10 28	2 29.26	+26 55.1	2.008	2.980	4.8	20.6
11 7	2 18.87	+26 30.5	2.009	2.984	4.1	20.6
11 17	2 9.18	+25 55.1	2.039	2.988	6.5	20.7
11 27	2 1.14	+25 14.6	2.097	2.991	9.6	20.9
12 7	1 55.42	+24 35.2	2.180	2.994	12.5	21.1

424426 2008 BS_{33} 10 31.9 191.°46 5.°9/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.28	+ 2 23.1	1.741	2.604	13.8	21.3
10 8	2 45.70	+ 0 57.8	1.678	2.603	10.4	21.1
10 18	2 37.96	− 0 27.8	1.640	2.601	7.3	20.9
10 28	2 28.88	− 1 45.6	1.629	2.599	5.9	20.8
11 7	2 19.51	− 2 47.9	1.645	2.597	7.7	20.9
11 17	2 10.92	− 3 29.0	1.688	2.593	10.9	21.1
11 27	2 4.07	− 3 46.0	1.755	2.590	14.2	21.3
12 7	1 59.55	− 3 39.5	1.842	2.585	17.0	21.5

391993 2008 YB_{38} 10 31.9 190.°92 6.°6/26.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.02	− 2 56.8	2.004	2.860	12.5	21.0
10 8	2 44.51	− 4 0.6	1.944	2.859	9.8	20.9
10 18	2 37.15	− 4 59.1	1.909	2.858	7.5	20.7
10 28	2 28.64	− 5 45.8	1.900	2.857	6.6	20.7
11 7	2 19.89	− 6 15.1	1.919	2.855	8.0	20.8
11 17	2 11.83	− 6 23.8	1.965	2.853	10.5	20.9
11 27	2 5.26	− 6 10.9	2.035	2.851	13.2	21.1
12 7	2 0.74	− 5 38.0	2.125	2.848	15.6	21.3

26555 2000 DH_{101} 10 31.9 30.°15 6.°5/26.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 46.47	− 2 14.1	1.932	2.796	12.5	18.1
10 8	2 41.89	− 3 18.4	1.883	2.804	9.7	17.9
10 18	2 35.55	− 4 17.1	1.859	2.812	7.3	17.8
10 28	2 28.17	− 5 3.7	1.861	2.820	6.5	17.8
11 7	2 20.63	− 5 33.1	1.890	2.829	7.8	17.9
11 17	2 13.81	− 5 42.1	1.945	2.839	10.3	18.1
11 27	2 8.46	− 5 30.0	2.023	2.848	12.9	18.3
12 7	2 5.07	− 4 58.3	2.122	2.858	15.3	18.5

14186 Virgiliofos 10 31.9 266.°27 0.°7/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.23	+13 54.9	2.396	3.240	11.1	18.1
10 8	2 42.37	+13 30.5	2.311	3.230	8.2	17.9
10 18	2 35.87	+12 59.4	2.252	3.221	4.9	17.7
10 28	2 28.30	+12 23.9	2.220	3.212	1.4	17.5
11 7	2 20.42	+11 47.7	2.218	3.202	2.6	17.5
11 17	2 13.02	+11 14.7	2.246	3.192	6.1	17.8
11 27	2 6.84	+10 48.6	2.301	3.183	9.4	17.9
12 7	2 2.42	+10 32.4	2.380	3.173	12.2	18.1

466587 2014 UA_{105} 10 31.9 285.°54 0.°4/ 1.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.00	+16 49.7	2.359	3.196	11.5	21.5
10 8	2 43.05	+16 41.3	2.268	3.181	8.6	21.3
10 18	2 36.34	+16 24.6	2.201	3.167	5.3	21.1
10 28	2 28.45	+16 1.1	2.162	3.152	1.7	20.8
11 7	2 20.18	+15 33.8	2.152	3.138	2.2	20.8
11 17	2 12.35	+15 6.0	2.172	3.123	5.9	21.0
11 27	2 5.78	+14 42.0	2.219	3.109	9.3	21.2
12 7	2 1.05	+14 25.1	2.291	3.094	12.3	21.4

266925 2010 ER_{82} 10 31.9 130.°37 5.°3/ 4.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 57.52	+27 49.4	1.901	2.696	15.5	20.7
10 8	2 50.62	+28 40.3	1.827	2.703	12.4	20.5
10 18	2 41.11	+29 14.9	1.775	2.709	9.1	20.3
10 28	2 29.86	+29 30.6	1.749	2.715	6.2	20.2
11 7	2 18.07	+29 27.1	1.751	2.721	5.4	20.1
11 17	2 7.07	+29 7.6	1.782	2.726	7.6	20.3
11 27	1 58.06	+28 38.5	1.839	2.732	10.8	20.5
12 7	1 51.78	+28 7.0	1.920	2.737	13.8	20.7

95681 2002 HP_{9} 10 31.9 187.°67 5.°3/27.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.48	− 0 52.8	2.289	3.145	11.1	19.5
10 8	2 42.47	− 1 49.7	2.227	3.145	8.6	19.3
10 18	2 35.87	− 2 43.4	2.190	3.145	6.3	19.2
10 28	2 28.29	− 3 28.4	2.181	3.144	5.4	19.1
11 7	2 20.51	− 4 0.0	2.200	3.143	6.6	19.2
11 17	2 13.30	− 4 15.1	2.247	3.143	9.0	19.4
11 27	2 7.37	− 4 12.3	2.318	3.142	11.6	19.5
12 7	2 3.19	− 3 52.0	2.411	3.141	13.8	19.7

307906 2004 CG_{71} 10 31.9 205.°16 5.°2/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.86	+30 45.8	2.165	2.946	14.3	21.0
10 8	2 46.97	+31 9.5	2.080	2.944	11.6	20.8
10 18	2 38.83	+31 15.8	2.016	2.941	8.7	20.7
10 28	2 29.20	+31 2.7	1.979	2.938	6.2	20.5
11 7	2 19.09	+30 31.1	1.968	2.934	5.3	20.4
11 17	2 9.63	+29 44.7	1.987	2.931	7.0	20.5
11 27	2 1.85	+28 50.0	2.033	2.927	9.8	20.7
12 7	1 56.43	+27 54.1	2.103	2.923	12.7	20.9

419882 2011 AS_{39} 10 31.9 4.°11 3.°4/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.43	+26 22.6	2.002	2.817	14.1	20.6
10 8	2 42.90	+26 11.5	1.925	2.817	11.1	20.4
10 18	2 36.33	+25 43.2	1.869	2.817	7.7	20.2
10 28	2 28.46	+24 58.3	1.840	2.818	4.4	20.0
11 7	2 20.26	+24 0.2	1.838	2.819	3.6	19.9
11 17	2 12.76	+22 54.4	1.864	2.820	6.4	20.1
11 27	2 6.85	+21 47.7	1.918	2.821	9.8	20.3
12 7	2 3.13	+20 46.9	1.995	2.823	12.9	20.5

147249 2002 XZ_{81} 10 31.9 218.°54 5.°6/28.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 53.57	+ 0 18.1	1.906	2.759	13.2	20.1
10 8	2 47.33	− 0 25.1	1.833	2.752	10.1	19.9
10 18	2 38.96	− 1 5.4	1.786	2.744	7.1	19.7
10 28	2 29.22	− 1 36.9	1.765	2.735	5.6	19.6
11 7	2 19.11	− 1 54.4	1.772	2.726	7.0	19.6
11 17	2 9.68	− 1 54.4	1.807	2.717	10.1	19.8
11 27	2 1.89	− 1 35.4	1.868	2.706	13.3	20.0
12 7	1 56.37	− 0 58.4	1.949	2.696	16.1	20.2

121254 1999 RK_{76} 10 31.9 163.°82 1.°8/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.35	+11 50.5	2.056	2.905	12.5	20.0
10 8	2 44.76	+11 2.4	1.987	2.909	9.2	19.8
10 18	2 37.31	+10 7.4	1.943	2.913	5.5	19.6
10 28	2 28.73	+ 9 10.0	1.927	2.917	2.1	19.4
11 7	2 19.90	+ 8 15.2	1.941	2.920	3.6	19.5
11 17	2 11.77	+ 7 28.3	1.983	2.923	7.3	19.7
11 27	2 5.15	+ 6 53.5	2.053	2.925	10.8	20.0
12 7	2 0.57	+ 6 33.4	2.145	2.926	13.8	20.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V
158141 2001 FL_{102}		10 31.9 125°.67	3°.1/ 3.9 18			
	h m	° ′			°	m
9 28	2 48.68	+26 26.1	2.383	3.186	12.5	20.0
10 8	2 43.52	+26 20.7	2.305	3.190	9.8	19.9
10 18	2 36.58	+26 0.8	2.250	3.194	6.8	19.7
10 28	2 28.53	+25 26.8	2.222	3.197	4.0	19.5
11 7	2 20.22	+24 41.3	2.222	3.201	3.3	19.5
11 17	2 12.50	+23 48.3	2.252	3.205	5.7	19.6
11 27	2 6.18	+22 53.4	2.310	3.208	8.6	19.8
12 7	2 1.79	+22 2.1	2.393	3.212	11.4	20.0
380929 2006 HU_{30}		10 31.9	32°.91	16°.3/ 7.2 13 C		
9 28	10 19.56	−61 30.5	0.293	0.910	99.6	20.3
10 8	8 50.69	−65 49.7	0.217	0.959	94.4	19.6
10 18	5 45.78	−62 38.6	0.149	1.015	78.5	18.2
10 28	3 0.19	−32 14.5	0.118	1.077	42.3	16.8
11 7	1 51.66	+ 3 41.9	0.158	1.142	16.3	16.8
11 17	1 24.76	+20 32.5	0.245	1.208	23.7	18.1
11 27	1 16.05	+28 3.6	0.350	1.274	30.1	19.1
12 7	1 17.10	+32 0.6	0.465	1.338	33.7	20.0
261654 2005 YH_{99}		10 31.9	234°.30	1°.8/30.4 17 R		
9 28	2 48.26	+ 9 52.4	2.485	3.332	10.7	21.0
10 8	2 43.06	+ 9 25.2	2.402	3.323	7.9	20.8
10 18	2 36.26	+ 8 54.0	2.345	3.314	4.7	20.6
10 28	2 28.44	+ 8 21.8	2.316	3.305	2.0	20.4
11 7	2 20.33	+ 7 52.4	2.317	3.295	3.3	20.4
11 17	2 12.69	+ 7 29.0	2.348	3.286	6.5	20.6
11 27	2 6.22	+ 7 14.7	2.406	3.276	9.5	20.8
12 7	2 1.46	+ 7 11.5	2.489	3.265	12.2	21.0
82176 2001 HA_{12}		10 31.9	68°.61	1°.6/ 1.8 18		
9 28	2 55.89	+18 11.4	1.385	2.234	17.4	18.9
10 8	2 49.69	+18 27.3	1.329	2.247	13.1	18.6
10 18	2 40.61	+18 30.3	1.293	2.259	8.2	18.4
10 28	2 29.71	+18 21.0	1.282	2.272	3.1	18.1
11 7	2 18.48	+18 3.0	1.298	2.284	3.3	18.2
11 17	2 8.39	+17 41.4	1.341	2.297	8.2	18.5
11 27	2 0.70	+17 22.9	1.408	2.310	12.8	18.8
12 7	1 56.09	+17 12.7	1.497	2.323	16.6	19.1
367963 2012 DQ_{79}		10 31.9	172°.95	4°.2/ 5.7 17		
9 28	2 50.36	+31 56.4	2.974	3.734	11.2	22.1
10 8	2 44.53	+32 5.9	2.888	3.737	9.2	22.0
10 18	2 37.12	+32 0.9	2.825	3.740	7.0	21.8
10 28	2 28.69	+31 41.0	2.789	3.742	5.0	21.7
11 7	2 20.00	+31 7.1	2.782	3.743	4.3	21.7
11 17	2 11.80	+30 22.2	2.805	3.744	5.4	21.7
11 27	2 4.82	+29 30.7	2.857	3.745	7.5	21.9
12 7	1 59.57	+28 37.9	2.935	3.745	9.7	22.0
149586 2004 CZ_{17}		10 31.9	213°.19	4°.5/28.9 18		
9 28	2 51.97	+ 5 37.9	1.614	2.479	14.6	20.5
10 8	2 46.44	+ 4 42.6	1.548	2.476	10.9	20.3
10 18	2 38.55	+ 3 44.8	1.504	2.472	7.0	20.1
10 28	2 29.14	+ 2 51.1	1.487	2.469	4.5	19.9
11 7	2 19.36	+ 2 8.3	1.497	2.465	6.3	20.0
11 17	2 10.39	+ 1 41.8	1.533	2.460	10.2	20.2
11 27	2 3.29	+ 1 35.2	1.594	2.456	14.0	20.5
12 7	1 58.72	+ 1 48.6	1.676	2.451	17.3	20.7
418529 2008 SK_{73}		10 31.9	69°.18	4°.0/ 4.6 17		
9 28	2 49.77	+28 8.3	2.272	3.068	13.2	21.0
10 8	2 44.45	+28 20.4	2.197	3.074	10.6	20.8
10 18	2 37.21	+28 17.0	2.144	3.080	7.6	20.6
10 28	2 28.74	+27 57.6	2.117	3.086	4.9	20.5
11 7	2 19.97	+27 24.2	2.119	3.092	4.1	20.5
11 17	2 11.84	+26 40.4	2.149	3.098	6.1	20.6
11 27	2 5.21	+25 52.0	2.207	3.105	9.0	20.8
12 7	2 0.67	+25 4.8	2.289	3.111	11.7	21.0
73404 2002 LL_{24}		10 31.9	129°.30	3°.0/29.8 18		
9 28	2 51.57	+ 7 29.7	1.974	2.828	12.7	19.7
10 8	2 45.66	+ 6 53.1	1.914	2.838	9.4	19.5
10 18	2 37.86	+ 6 14.1	1.879	2.848	5.8	19.3
10 28	2 28.91	+ 5 36.9	1.871	2.857	3.1	19.2
11 7	2 19.77	+ 5 6.4	1.892	2.866	4.6	19.3
11 17	2 11.39	+ 4 46.3	1.942	2.875	8.0	19.5
11 27	2 4.59	+ 4 39.6	2.018	2.883	11.3	19.7
12 7	1 59.90	+ 4 47.2	2.117	2.891	14.2	19.9
33258 Femariebustos		10 31.9	290°.31	0°.6/ 1.4 18		
9 28	2 49.16	+17 36.6	1.985	2.826	13.2	19.4
10 8	2 44.27	+17 24.8	1.893	2.808	10.0	19.2
10 18	2 37.26	+17 2.3	1.825	2.791	6.2	18.9
10 28	2 28.80	+16 30.8	1.783	2.774	2.0	18.6
11 7	2 19.83	+15 53.9	1.770	2.756	2.5	18.6
11 17	2 11.39	+15 16.0	1.786	2.739	6.8	18.9
11 27	2 4.44	+14 42.7	1.828	2.722	10.7	19.1
12 7	1 59.70	+14 18.4	1.893	2.705	14.2	19.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
308806 2006 QU_{98}		10 31.9	354°.52	7°.1/ 5.1 17		
	h m	° ′			°	m
9 28	2 48.32	+29 18.0	1.329	2.158	19.1	19.6
10 8	2 44.74	+30 9.1	1.258	2.151	15.6	19.3
10 18	2 38.02	+30 37.6	1.205	2.146	11.8	19.1
10 28	2 29.08	+30 39.8	1.174	2.141	8.3	18.9
11 7	2 19.41	+30 15.9	1.167	2.138	7.1	18.8
11 17	2 10.64	+29 30.9	1.184	2.137	9.5	18.9
11 27	2 4.29	+28 34.6	1.223	2.137	13.3	19.2
12 7	2 1.26	+27 37.5	1.284	2.138	17.0	19.4
487353 2014 QF_{217}		10 31.9	326°.75	4°.9/ 5.2 17		
9 28	2 50.26	+30 13.5	2.190	2.978	13.9	21.2
10 8	2 44.99	+30 31.2	2.108	2.977	11.3	21.0
10 18	2 37.63	+30 31.8	2.047	2.975	8.4	20.8
10 28	2 28.89	+30 13.9	2.012	2.974	5.8	20.6
11 7	2 19.74	+29 39.0	2.005	2.973	4.9	20.6
11 17	2 11.23	+28 50.9	2.026	2.972	6.7	20.7
11 27	2 4.30	+27 55.8	2.074	2.971	9.5	20.9
12 7	1 59.60	+27 0.5	2.146	2.970	12.3	21.1
478434 2012 HA_{58}		10 31.9	108°.37	5°.6/28.5 16		
9 28	2 54.31	+ 2 7.0	1.584	2.446	14.9	21.4
10 8	2 47.93	+ 1 13.5	1.537	2.462	11.2	21.2
10 18	2 39.28	+ 0 22.5	1.514	2.477	7.6	21.0
10 28	2 29.31	− 0 19.0	1.516	2.491	5.6	20.9
11 7	2 19.22	− 0 45.2	1.546	2.506	7.2	21.1
11 17	2 10.16	− 0 52.3	1.602	2.519	10.6	21.3
11 27	2 3.10	− 0 39.0	1.683	2.533	14.0	21.5
12 7	1 58.57	− 0 6.8	1.784	2.546	16.9	21.8
100319 1995 MY_{4}		10 31.9	97°.66	5°.5/28.5 18		
9 28	2 53.13	+ 3 54.4	1.439	2.308	15.7	19.6
10 8	2 47.28	+ 2 49.2	1.392	2.321	11.7	19.4
10 18	2 38.98	+ 1 44.4	1.367	2.334	7.8	19.2
10 28	2 29.24	+ 0 47.8	1.368	2.346	5.6	19.1
11 7	2 19.34	+ 0 6.8	1.395	2.358	7.4	19.2
11 17	2 10.52	− 0 13.7	1.448	2.370	11.0	19.5
11 27	2 3.82	− 0 11.6	1.525	2.382	14.7	19.7
12 7	1 59.80	+ 0 12.0	1.621	2.394	17.8	20.0
36485 2000 QP_{39}		10 31.9	60°.03	3°.3/ 3.1 18		
9 28	2 52.76	+23 38.7	1.494	2.329	17.1	18.2
10 8	2 47.30	+23 42.4	1.435	2.340	13.2	18.0
10 18	2 39.15	+23 27.8	1.396	2.352	8.8	17.8
10 28	2 29.32	+22 55.3	1.381	2.364	4.5	17.6
11 7	2 19.18	+22 9.0	1.393	2.376	3.8	17.6
11 17	2 10.09	+21 15.5	1.432	2.389	7.7	17.8
11 27	2 3.22	+20 23.1	1.496	2.401	11.9	18.1
12 7	1 59.23	+19 38.9	1.582	2.414	15.5	18.4
111043 2001 VQ_{27}		10 31.9	359°.25	1°.4/30.9 18		
9 28	2 49.15	+12 3.9	1.850	2.706	13.4	19.9
10 8	2 44.15	+11 40.7	1.780	2.706	9.9	19.7
10 18	2 37.09	+11 11.0	1.734	2.705	5.9	19.4
10 28	2 28.73	+10 38.4	1.714	2.705	1.9	19.2
11 7	2 20.04	+10 7.1	1.722	2.705	3.4	19.3
11 17	2 12.04	+ 9 41.9	1.759	2.705	7.5	19.5
11 27	2 5.66	+ 9 26.7	1.821	2.706	11.3	19.8
12 7	2 1.49	+ 9 24.2	1.906	2.706	14.5	20.0
197126 2003 UX_{225}		10 31.9	91°.05	1°.1/ 2.0 18		
9 28	2 48.17	+20 5.5	2.382	3.208	11.8	20.5
10 8	2 42.98	+19 45.8	2.316	3.222	8.8	20.4
10 18	2 36.19	+19 15.5	2.274	3.235	5.6	20.2
10 28	2 28.44	+18 36.5	2.260	3.248	2.2	20.0
11 7	2 20.52	+17 52.2	2.275	3.261	2.1	20.0
11 17	2 13.22	+17 6.9	2.321	3.274	5.4	20.2
11 27	2 7.26	+16 25.0	2.394	3.287	8.6	20.5
12 7	2 3.10	+15 50.5	2.493	3.300	11.3	20.7
94087 2000 YC_{58}		10 31.9	88°.69	3°.8/ 4.5 18		
9 28	2 49.35	+28 2.3	2.189	2.988	13.6	19.5
10 8	2 44.15	+27 57.2	2.115	2.995	10.8	19.3
10 18	2 37.03	+27 35.3	2.063	3.002	7.7	19.1
10 28	2 28.70	+26 56.8	2.037	3.009	4.8	18.9
11 7	2 20.11	+26 4.6	2.040	3.016	3.9	18.9
11 17	2 12.21	+25 3.3	2.071	3.023	6.1	19.1
11 27	2 5.86	+23 59.5	2.130	3.030	9.1	19.3
12 7	2 1.62	+22 59.4	2.214	3.037	12.0	19.5
520460 2014 KA_{108}		10 31.9	208°.63	0°.5/ 1.4 18		
9 28	2 50.44	+17 58.0	2.189	3.022	12.4	22.1
10 8	2 44.92	+17 37.1	2.107	3.018	9.3	21.9
10 18	2 37.49	+17 5.7	2.048	3.013	5.7	21.7
10 28	2 28.85	+16 25.9	2.017	3.007	1.9	21.4
11 7	2 19.86	+15 41.3	2.016	3.002	2.3	21.5
11 17	2 11.46	+14 56.6	2.044	2.995	6.2	21.7
11 27	2 4.49	+14 16.7	2.100	2.989	9.8	21.9
12 7	1 59.55	+13 45.9	2.180	2.982	12.9	22.1

160974 2002 CL_{38} 10 31.9 136°.18 2°.9/29.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 51.63	+ 7 39.2	2.116	2.966	12.1	20.9
10 8	2 45.57	+ 6 52.5	2.058	2.980	8.9	20.7
10 18	2 37.75	+ 6 3.1	2.024	2.993	5.5	20.6
10 28	2 28.89	+ 5 15.5	2.020	3.005	3.0	20.4
11 7	2 19.89	+ 4 34.5	2.044	3.016	4.5	20.5
11 17	2 11.62	+ 4 4.3	2.098	3.027	7.7	20.8
11 27	2 4.84	+ 3 47.7	2.179	3.038	10.8	21.0
12 7	2 0.07	+ 3 45.9	2.283	3.047	13.5	21.2

183858 2004 CR_{7} 10 31.9 188°.76 2°.4/30.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.58	+10 24.8	1.695	2.552	14.4	21.0
10 8	2 46.83	+ 9 43.4	1.626	2.551	10.6	20.8
10 18	2 38.78	+ 8 55.6	1.580	2.551	6.4	20.5
10 28	2 29.24	+ 8 6.1	1.560	2.549	2.7	20.3
11 7	2 19.35	+ 7 20.8	1.569	2.548	4.5	20.4
11 17	2 10.26	+ 6 45.5	1.606	2.546	8.7	20.7
11 27	2 3.01	+ 6 24.6	1.668	2.544	12.7	20.9
12 7	1 58.23	+ 6 20.3	1.752	2.541	16.1	21.1

296468 2009 HV_{90} 10 31.9 53°.26 1°.8/31.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 54.61	+12 7.8	1.133	2.007	18.7	20.3
10 8	2 48.88	+11 46.2	1.092	2.026	13.7	20.1
10 18	2 40.12	+11 16.1	1.071	2.045	8.1	19.9
10 28	2 29.60	+10 42.5	1.073	2.065	2.6	19.6
11 7	2 18.95	+10 12.2	1.101	2.085	4.5	19.8
11 17	2 9.73	+ 9 51.3	1.154	2.106	9.9	20.2
11 27	2 3.16	+ 9 44.7	1.230	2.126	14.6	20.5
12 7	1 59.81	+ 9 54.4	1.325	2.147	18.5	20.8

170601 2003 YC_{26} 10 31.9 278°.23 5°.7/28.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.10	+ 0 4.2	1.879	2.738	13.1	20.2
10 8	2 45.65	− 0 36.8	1.801	2.722	10.1	20.0
10 18	2 38.06	− 1 14.8	1.747	2.706	7.1	19.8
10 28	2 29.05	− 1 43.8	1.720	2.690	5.7	19.7
11 7	2 19.60	− 1 58.6	1.720	2.674	7.2	19.7
11 17	2 10.75	− 1 55.4	1.747	2.658	10.2	19.9
11 27	2 3.46	− 1 32.8	1.799	2.642	13.5	20.1
12 7	1 58.41	− 0 51.6	1.872	2.626	16.4	20.2

179839 2002 TY_{220} 10 31.9 119°.54 7°.1/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 55.53	+35 58.0	2.087	2.840	15.6	20.0
10 8	2 49.09	+36 37.3	2.014	2.850	13.1	19.9
10 18	2 40.18	+36 55.4	1.962	2.860	10.5	19.7
10 28	2 29.66	+36 49.2	1.934	2.870	8.1	19.6
11 7	2 18.71	+36 19.0	1.932	2.879	7.1	19.6
11 17	2 8.60	+35 28.6	1.958	2.888	8.1	19.6
11 27	2 0.44	+34 25.2	2.011	2.897	10.3	19.8
12 7	1 54.91	+33 17.4	2.088	2.905	12.8	20.0

511553 2014 UK_{225} 10 31.9 359°.30 0°.1/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 28.07	+17 27.9	37.170	37.991	0.9	23.4
10 8	2 27.33	+17 24.2	37.086	37.991	0.6	23.4
10 18	2 26.52	+17 20.1	37.029	37.991	0.4	23.3
10 28	2 25.66	+17 15.5	37.002	37.991	0.1	23.3
11 7	2 24.78	+17 10.7	37.005	37.991	0.2	23.3
11 17	2 23.93	+17 5.9	37.038	37.991	0.4	23.3
11 27	2 23.14	+17 1.2	37.101	37.991	0.7	23.4
12 7	2 22.43	+16 56.8	37.192	37.991	0.9	23.4

184871 2005 UP_{127} 10 31.9 175°.11 0°.4/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.94	+13 28.1	2.221	3.062	12.0	20.4
10 8	2 45.20	+13 24.6	2.145	3.063	8.9	20.2
10 18	2 37.64	+13 15.3	2.095	3.063	5.3	20.0
10 28	2 28.90	+13 2.1	2.072	3.063	1.5	19.7
11 7	2 19.87	+12 47.7	2.079	3.064	2.5	19.8
11 17	2 11.42	+12 35.5	2.116	3.064	6.3	20.0
11 27	2 4.37	+12 28.7	2.180	3.064	9.7	20.3
12 7	1 59.30	+12 29.9	2.268	3.064	12.7	20.5

100573 1997 HR_{2} 10 31.9 67°.04 2°.3/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 54.22	+11 30.7	1.358	2.223	16.8	20.2
10 8	2 48.06	+10 47.0	1.320	2.250	12.2	20.0
10 18	2 39.40	+ 9 56.1	1.304	2.277	7.2	19.8
10 28	2 29.36	+ 9 4.2	1.313	2.303	2.7	19.6
11 7	2 19.33	+ 8 18.0	1.349	2.330	4.6	19.8
11 17	2 10.57	+ 7 43.5	1.412	2.356	9.2	20.1
11 27	2 4.10	+ 7 25.1	1.498	2.383	13.3	20.4
12 7	2 0.42	+ 7 24.1	1.606	2.409	16.7	20.7

446091 2013 CV_{186} 10 31.9 214°.98 2°.4/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.17	+ 9 56.3	2.234	3.086	11.5	21.3
10 8	2 43.13	+ 9 1.6	2.157	3.080	8.5	21.1
10 18	2 36.38	+ 8 1.4	2.105	3.075	5.1	20.9
10 28	2 28.54	+ 7 0.0	2.082	3.069	2.5	20.7
11 7	2 20.43	+ 6 2.8	2.088	3.063	4.0	20.8
11 17	2 12.88	+ 5 14.6	2.123	3.056	7.3	21.0
11 27	2 6.64	+ 4 39.4	2.185	3.049	10.6	21.2
12 7	2 2.25	+ 4 19.5	2.270	3.042	13.4	21.4

469795 2005 RC_{47} 10 31.9 46°.06 8°.4/27.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 51.09	− 0 46.7	1.179	2.061	17.5	20.4
10 8	2 45.98	− 2 11.7	1.151	2.082	13.4	20.3
10 18	2 38.23	− 3 28.7	1.143	2.104	9.8	20.1
10 28	2 29.04	− 4 27.1	1.159	2.126	8.4	20.1
11 7	2 19.86	− 4 59.2	1.199	2.148	10.1	20.3
11 17	2 12.00	− 5 1.6	1.262	2.172	13.4	20.6
11 27	2 6.50	− 4 35.4	1.346	2.195	16.8	20.8
12 7	2 3.83	− 3 44.8	1.448	2.219	19.7	21.1

319311 2006 BW_{146} 10 31.9 140°.40 1°.5/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.07	+20 53.8	2.505	3.325	11.5	21.5
10 8	2 43.68	+20 47.5	2.429	3.330	8.7	21.3
10 18	2 36.66	+20 30.9	2.378	3.336	5.6	21.1
10 28	2 28.62	+20 5.1	2.355	3.341	2.5	20.9
11 7	2 20.35	+19 32.6	2.361	3.346	2.2	20.9
11 17	2 12.63	+18 57.0	2.397	3.351	5.3	21.2
11 27	2 6.18	+18 22.7	2.462	3.355	8.4	21.4
12 7	2 1.52	+17 53.5	2.552	3.360	11.1	21.6

75789 2000 AO_{215} 10 31.9 341°.69 4°.0/29.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.39	+ 6 59.6	1.454	2.329	15.2	19.7
10 8	2 44.09	+ 6 18.4	1.388	2.322	11.3	19.4
10 18	2 37.29	+ 5 33.8	1.343	2.315	7.1	19.2
10 28	2 28.86	+ 4 52.0	1.323	2.309	4.1	19.0
11 7	2 19.99	+ 4 19.6	1.329	2.303	5.9	19.1
11 17	2 11.92	+ 4 2.1	1.360	2.298	10.2	19.3
11 27	2 5.78	+ 4 3.2	1.415	2.294	14.3	19.6
12 7	2 2.27	+ 4 23.6	1.490	2.290	17.9	19.8

405331 2003 UV_{269} 10 31.9 341°.64 0°.0/31.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.86	+12 14.3	1.606	2.464	14.9	20.0
10 8	2 46.74	+12 51.9	1.523	2.448	11.2	19.8
10 18	2 39.00	+13 26.4	1.462	2.433	6.8	19.5
10 28	2 29.40	+13 58.2	1.427	2.418	2.0	19.1
11 7	2 19.09	+14 28.5	1.419	2.405	3.1	19.2
11 17	2 9.39	+14 59.2	1.439	2.393	8.0	19.4
11 27	2 1.53	+15 32.7	1.484	2.382	12.4	19.7
12 7	1 56.38	+16 11.7	1.551	2.373	16.3	19.9

224118 2005 QH_{7} 10 31.9 143°.92 3°.3/29.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.45	+ 8 17.9	1.892	2.745	13.2	21.1
10 8	2 46.37	+ 7 16.0	1.833	2.757	9.7	21.0
10 18	2 38.32	+ 6 9.9	1.799	2.768	6.0	20.8
10 28	2 29.10	+ 5 5.3	1.793	2.778	3.3	20.6
11 7	2 19.70	+ 4 8.4	1.816	2.787	5.0	20.7
11 17	2 11.13	+ 3 24.4	1.867	2.796	8.5	21.0
11 27	2 4.22	+ 2 57.1	1.945	2.804	11.9	21.2
12 7	1 59.53	+ 2 47.5	2.044	2.811	14.8	21.4

442850 2013 AN_{122} 10 31.9 90°.82 3°.3/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 53.08	+25 16.9	2.030	2.838	14.2	21.1
10 8	2 46.90	+25 22.2	1.969	2.858	11.0	20.9
10 18	2 38.67	+25 12.0	1.931	2.878	7.5	20.8
10 28	2 29.20	+24 46.8	1.920	2.898	4.3	20.6
11 7	2 19.55	+24 9.1	1.937	2.917	3.6	20.6
11 17	2 10.75	+23 23.9	1.983	2.936	6.3	20.8
11 27	2 3.68	+22 37.2	2.057	2.955	9.5	21.0
12 7	1 58.91	+21 54.8	2.156	2.973	12.5	21.3

339323 2004 XG_{127} 10 31.9 24°.83 19°.2/31.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	3 6.89	−29 43.8	1.135	1.928	23.9	19.0
10 8	2 57.56	−29 48.4	1.114	1.944	21.8	18.9
10 18	2 44.98	−29 9.1	1.109	1.962	20.1	18.9
10 28	2 30.90	−27 37.1	1.121	1.981	19.2	18.9
11 7	2 17.34	−25 13.1	1.154	2.002	19.4	19.0
11 17	2 6.00	−22 6.2	1.207	2.024	20.5	19.2
11 27	1 57.98	−18 30.3	1.281	2.048	22.1	19.4
12 7	1 53.61	−14 40.3	1.374	2.072	23.8	19.6

450548 2006 DP_{68} 10 31.9 197°.32 4°.3/27.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.49	− 1 40.0	3.069	3.912	9.0	21.7
10 8	2 42.18	− 2 19.6	2.998	3.909	6.9	21.6
10 18	2 35.63	− 2 56.0	2.955	3.905	5.1	21.4
10 28	2 28.33	− 3 25.5	2.940	3.901	4.3	21.4
11 7	2 20.85	− 3 45.1	2.955	3.896	5.3	21.4
11 17	2 13.78	− 3 52.6	3.000	3.890	7.2	21.6
11 27	2 7.66	− 3 46.8	3.071	3.885	9.3	21.7
12 7	2 2.90	− 3 27.8	3.165	3.879	11.1	21.8

321758 2010 NT_{101} 10 31.9 42°.20 4°.9/29.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.99	+ 8 5.6	1.006	1.896	19.2	19.6
10 8	2 46.35	+ 6 54.7	0.972	1.914	14.1	19.3
10 18	2 38.65	+ 5 39.4	0.958	1.933	8.7	19.1
10 28	2 29.21	+ 4 29.9	0.966	1.952	5.0	19.0
11 7	2 19.69	+ 3 36.1	0.997	1.972	7.3	19.2
11 17	2 11.65	+ 3 5.2	1.052	1.993	12.0	19.5
11 27	2 6.28	+ 3 0.2	1.128	2.015	16.5	19.9
12 7	2 4.09	+ 3 19.7	1.222	2.036	20.2	20.2

177039 2003 DA_5 10 31.9 190°.73 2°.7/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 47.97	+ 6 58.4	2.704	3.551	9.9	21.5
10 8	2 42.68	+ 6 7.8	2.629	3.550	7.3	21.3
10 18	2 36.00	+ 5 14.7	2.581	3.548	4.6	21.1
10 28	2 28.45	+ 4 23.0	2.562	3.545	2.7	21.0
11 7	2 20.69	+ 3 36.8	2.573	3.542	4.0	21.1
11 17	2 13.40	+ 2 59.8	2.615	3.538	6.7	21.2
11 27	2 7.21	+ 2 34.7	2.684	3.533	9.3	21.4
12 7	2 2.56	+ 2 22.8	2.777	3.528	11.7	21.6

446767 2015 PN_{37} 10 31.9 104°.23 3°.1/29.7 15

9 28	2 50.83	+ 7 28.3	1.885	2.743	13.1	21.6
10 8	2 45.22	+ 6 49.2	1.827	2.753	9.6	21.4
10 18	2 37.66	+ 6 7.6	1.793	2.763	5.9	21.2
10 28	2 28.93	+ 5 28.1	1.787	2.773	3.2	21.1
11 7	2 20.01	+ 4 55.7	1.809	2.782	4.7	21.2
11 17	2 11.87	+ 4 34.6	1.859	2.792	8.2	21.4
11 27	2 5.35	+ 4 27.6	1.934	2.801	11.6	21.7
12 7	2 0.99	+ 4 35.6	2.032	2.810	14.5	21.9

144981 2005 EM_{142} 10 31.9 92°.50 2°.4/30.6 18

9 28	2 54.82	+10 43.2	1.458	2.319	16.0	20.3
10 8	2 48.55	+10 7.6	1.409	2.337	11.8	20.1
10 18	2 39.78	+ 9 25.6	1.382	2.354	7.0	19.9
10 28	2 29.55	+ 8 42.6	1.381	2.371	2.7	19.7
11 7	2 19.16	+ 8 4.6	1.408	2.388	4.5	19.8
11 17	2 9.91	+ 7 37.1	1.461	2.405	9.0	20.1
11 27	2 2.84	+ 7 24.4	1.539	2.421	13.2	20.4
12 7	1 58.52	+ 7 27.9	1.639	2.437	16.6	20.7

424374 2007 VW_{305} 10 31.9 14°.78 7°.5/28.8 18

9 28	2 51.65	+ 0 59.8	1.013	1.903	19.0	19.6
10 8	2 47.09	+ 0 18.7	0.968	1.906	14.5	19.3
10 18	2 39.29	− 0 16.6	0.942	1.910	10.0	19.1
10 28	2 29.46	− 0 37.0	0.938	1.916	7.5	19.0
11 7	2 19.29	− 0 35.0	0.956	1.922	9.4	19.1
11 17	2 10.44	− 0 7.3	0.997	1.930	13.6	19.4
11 27	2 4.28	+ 0 45.6	1.059	1.939	17.9	19.7
12 7	2 1.49	+ 1 59.7	1.137	1.948	21.6	20.0

383566 2007 EQ_{150} 10 31.9 335°.05 2°.7/30.5 18

9 28	2 48.49	+10 38.2	1.198	2.080	17.3	20.3
10 8	2 44.73	+10 7.6	1.129	2.067	12.9	20.0
10 18	2 37.98	+ 9 28.8	1.080	2.055	7.8	19.7
10 28	2 29.14	+ 8 47.2	1.054	2.044	3.1	19.4
11 7	2 19.65	+ 8 10.4	1.052	2.034	5.3	19.5
11 17	2 11.05	+ 7 45.4	1.074	2.025	10.6	19.8
11 27	2 4.74	+ 7 38.1	1.119	2.017	15.7	20.0
12 7	2 1.59	+ 7 50.9	1.182	2.010	20.0	20.3

50612 2000 EZ_{57} 10 31.9 31°.78 1°.8/30.5 18

9 28	2 48.26	+12 38.2	1.785	2.644	13.7	19.1
10 8	2 43.54	+11 46.0	1.718	2.645	10.0	18.8
10 18	2 36.77	+10 45.3	1.675	2.647	6.0	18.6
10 28	2 28.71	+ 9 40.9	1.658	2.648	2.2	18.4
11 7	2 20.37	+ 8 39.2	1.669	2.650	3.9	18.5
11 17	2 12.77	+ 7 46.2	1.709	2.652	8.0	18.7
11 27	2 6.81	+ 7 7.2	1.773	2.654	11.8	19.0
12 7	2 3.09	+ 6 45.0	1.860	2.656	15.0	19.2

385776 2006 AD_{23} 10 31.9 240°.96 2°.3/ 2.7 18

9 28	2 51.66	+22 27.7	1.758	2.588	15.1	22.1
10 8	2 46.35	+22 17.1	1.677	2.582	11.7	21.9
10 18	2 38.63	+21 50.5	1.617	2.576	7.7	21.6
10 28	2 29.28	+21 8.6	1.584	2.569	3.6	21.4
11 7	2 19.46	+20 15.3	1.578	2.563	3.1	21.3
11 17	2 10.38	+19 16.4	1.600	2.556	7.1	21.6
11 27	2 3.13	+18 19.5	1.649	2.550	11.3	21.8
12 7	1 58.45	+17 31.3	1.721	2.543	14.9	22.0

77195 2001 FB_{16} 10 31.9 162°.03 1°.7/30.3 18

9 28	2 49.87	+10 54.6	2.561	3.402	10.6	20.5
10 8	2 44.11	+10 7.9	2.491	3.410	7.7	20.3
10 18	2 36.86	+ 9 16.4	2.448	3.416	4.6	20.1
10 28	2 28.71	+ 8 23.5	2.434	3.423	1.9	19.9
11 7	2 20.39	+ 7 33.5	2.450	3.428	3.2	20.0
11 17	2 12.63	+ 6 50.3	2.498	3.433	6.3	20.3
11 27	2 6.09	+ 6 17.3	2.573	3.437	9.2	20.4
12 7	2 1.24	+ 5 56.5	2.673	3.440	11.7	20.6

358151 2006 RE_{52} 10 31.9 353°.81 3°.2/ 2.8 18

9 28	2 54.14	+21 27.8	1.739	2.568	15.3	20.5
10 8	2 48.27	+22 8.7	1.663	2.566	11.9	20.3
10 18	2 39.84	+22 37.7	1.609	2.565	7.9	20.0
10 28	2 29.66	+22 53.4	1.581	2.564	4.2	19.8
11 7	2 18.90	+22 56.5	1.581	2.563	3.8	19.8
11 17	2 8.88	+22 50.1	1.608	2.562	7.3	20.0
11 27	2 0.76	+22 39.6	1.662	2.562	11.2	20.2
12 7	1 55.34	+22 30.5	1.739	2.562	14.7	20.5

63894 2001 SN_5 10 31.9 338°.40 0°.5/ 1.3 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 47.72	+17 24.8	1.219	2.091	17.8	19.2
10 8	2 44.21	+17 7.7	1.148	2.079	13.5	18.9
10 18	2 37.69	+16 34.8	1.096	2.068	8.3	18.6
10 28	2 29.07	+15 48.8	1.067	2.058	2.6	18.2
11 7	2 19.79	+14 56.2	1.062	2.049	3.5	18.2
11 17	2 11.40	+14 5.0	1.082	2.042	9.3	18.5
11 27	2 5.33	+13 24.0	1.125	2.035	14.5	18.8
12 7	2 2.43	+12 59.3	1.187	2.029	19.0	19.1

325717 2009 UA_{104} 10 31.9 28°.14 2°.4/29.8 18

9 28	2 45.87	+10 46.3	2.099	2.957	11.9	20.6
10 8	2 41.49	+ 9 41.8	2.032	2.959	8.7	20.4
10 18	2 35.42	+ 8 31.1	1.990	2.961	5.2	20.2
10 28	2 28.31	+ 7 19.1	1.976	2.964	2.5	20.0
11 7	2 20.99	+ 6 11.8	1.991	2.967	4.0	20.1
11 17	2 14.28	+ 5 14.6	2.034	2.969	7.5	20.3
11 27	2 8.92	+ 4 31.8	2.104	2.972	10.7	20.6
12 7	2 5.43	+ 4 5.6	2.196	2.975	13.5	20.8

118675 2000 KW_{81} 10 31.9 138°.37 3°.5/ 3.5 18

9 28	2 53.76	+25 18.8	1.755	2.571	15.7	19.6
10 8	2 47.84	+25 17.9	1.684	2.578	12.3	19.4
10 18	2 39.46	+24 58.9	1.634	2.584	8.4	19.2
10 28	2 29.52	+24 22.2	1.611	2.590	4.6	19.0
11 7	2 19.21	+23 30.9	1.615	2.596	3.8	19.0
11 17	2 9.79	+22 31.0	1.647	2.602	7.1	19.2
11 27	2 2.35	+21 30.4	1.706	2.607	10.9	19.4
12 7	1 57.55	+20 36.4	1.788	2.611	14.4	19.7

356936 2012 TP_{90} 10 31.9 199°.41 0°.2/31.8 18

9 28	2 53.36	+14 46.3	1.793	2.638	14.2	20.9
10 8	2 47.44	+14 37.3	1.718	2.636	10.6	20.7
10 18	2 39.20	+14 19.6	1.666	2.635	6.4	20.4
10 28	2 29.45	+13 55.6	1.641	2.632	1.8	20.1
11 7	2 19.29	+13 29.0	1.645	2.630	2.9	20.2
11 17	2 9.86	+13 4.5	1.677	2.627	7.4	20.5
11 27	2 2.21	+12 46.7	1.735	2.624	11.5	20.7
12 7	1 57.02	+12 39.5	1.816	2.621	15.0	20.9

229761 2007 RC_{288} 10 31.9 24°.29 0°.8/ 2.2 18

9 28	2 42.00	+19 30.9	4.083	4.900	7.4	20.6
10 8	2 38.01	+19 23.3	4.001	4.902	5.6	20.5
10 18	2 33.11	+19 9.9	3.945	4.903	3.5	20.4
10 28	2 27.64	+18 51.6	3.918	4.905	1.4	20.2
11 7	2 22.03	+18 30.1	3.922	4.907	1.4	20.2
11 17	2 16.70	+18 7.2	3.956	4.909	3.4	20.4
11 27	2 12.06	+17 45.2	4.020	4.911	5.5	20.5
12 7	2 8.43	+17 26.1	4.111	4.912	7.3	20.7

476977 2008 YM_{49} 10 31.9 303°.58 2°.7/30.3 16

9 28	2 49.97	+ 9 21.8	1.607	2.472	14.6	21.4
10 8	2 45.23	+ 8 51.1	1.526	2.456	10.8	21.1
10 18	2 38.04	+ 8 14.8	1.468	2.440	6.6	20.9
10 28	2 29.17	+ 7 37.5	1.435	2.424	3.0	20.6
11 7	2 19.72	+ 7 5.0	1.429	2.408	4.8	20.7
11 17	2 10.92	+ 6 42.6	1.450	2.392	9.2	20.9
11 27	2 3.91	+ 6 35.0	1.495	2.377	13.5	21.1
12 7	1 59.47	+ 6 44.2	1.562	2.362	17.2	21.3

42153 2001 BG_{58} 10 31.9 4°.56 6°.8/27.3 18

9 28	2 49.12	+ 0 4.2	1.559	2.430	14.6	18.6
10 8	2 44.36	− 1 6.5	1.503	2.430	11.2	18.4
10 18	2 37.34	− 2 13.8	1.470	2.430	8.1	18.2
10 28	2 28.91	− 3 9.5	1.463	2.430	6.8	18.2
11 7	2 20.19	− 3 46.4	1.481	2.431	8.5	18.3
11 17	2 12.32	− 4 0.0	1.524	2.432	11.7	18.5
11 27	2 6.27	− 3 48.8	1.591	2.434	15.0	18.7
12 7	2 2.66	− 3 14.7	1.676	2.435	17.9	18.9

440878 2006 TC_{62} 10 31.9 8°.01 6°.1/ 4.6 17

9 28	2 50.14	+27 45.9	1.384	2.214	18.5	20.3
10 8	2 45.88	+28 31.0	1.320	2.215	14.9	20.1
10 18	2 38.64	+28 55.1	1.274	2.218	10.9	19.8
10 28	2 29.36	+28 55.3	1.251	2.222	7.3	19.7
11 7	2 19.51	+28 32.9	1.253	2.227	6.2	19.6
11 17	2 10.63	+27 53.1	1.279	2.233	8.8	19.8
11 27	2 4.11	+27 4.8	1.329	2.241	12.6	20.0
12 7	2 0.73	+26 17.5	1.401	2.249	16.2	20.3

241999 2002 OT_7 10 31.9 75°.33 8°.3/25.9 18

9 28	2 50.37	− 5 24.9	1.714	2.574	14.1	20.6
10 8	2 44.90	− 6 48.2	1.679	2.591	11.2	20.5
10 18	2 37.46	− 8 1.8	1.667	2.609	8.9	20.4
10 28	2 28.91	− 8 57.5	1.682	2.627	8.3	20.4
11 7	2 20.31	− 9 29.5	1.722	2.645	9.7	20.5
11 17	2 12.62	− 9 35.3	1.787	2.662	12.1	20.7
11 27	2 6.69	− 9 15.4	1.874	2.680	14.6	20.9
12 7	2 2.99	− 8 33.1	1.981	2.697	16.8	21.1