95055 2002 AL_{50} 3 11.9 157°.79 0°.6/12.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 57.98	− 1 25.3	2.099	2.846	15.1	21.2
2 11	11 53.54	− 1 0.4	2.009	2.855	12.1	21.0
2 21	11 46.85	− 0 20.0	1.940	2.864	8.6	20.8
3 2	11 38.42	+ 0 33.0	1.898	2.871	4.6	20.6
3 12	11 29.05	+ 1 33.7	1.885	2.878	0.6	20.3
3 22	11 19.68	+ 2 35.6	1.902	2.884	4.1	20.6
4 1	11 11.26	+ 3 32.6	1.948	2.889	8.1	20.8
4 11	11 4.58	+ 4 19.5	2.020	2.893	11.7	21.0

89830 2002 CE 3 11.9 57°.05 25°.1/24.9 18

2 1	14 27.44	+65 4.4	1.236	1.810	31.1	18.0
2 11	13 56.06	+67 23.9	1.261	1.876	29.0	18.0
2 21	13 10.07	+68 42.8	1.296	1.941	27.3	18.1
3 2	12 16.74	+68 22.3	1.347	2.005	26.1	18.2
3 12	11 28.99	+66 14.6	1.415	2.066	25.3	18.4
3 22	10 54.56	+62 47.3	1.501	2.126	25.1	18.6
4 1	10 33.39	+58 36.7	1.606	2.184	25.1	18.8
4 11	10 22.26	+54 11.4	1.727	2.241	25.3	19.0

254899 2005 SF_{80} 3 11.9 262°.14 0°.3/12.4 17

2 1	11 49.67	− 1 18.7	2.661	3.411	12.2	21.2
2 11	11 46.68	− 0 43.8	2.545	3.394	9.8	21.0
2 21	11 41.98	+ 0 4.8	2.451	3.377	6.9	20.8
3 2	11 35.92	+ 1 4.8	2.385	3.359	3.7	20.6
3 12	11 29.06	+ 2 11.8	2.348	3.341	0.3	20.3
3 22	11 22.05	+ 3 20.8	2.341	3.323	3.5	20.5
4 1	11 15.61	+ 4 26.4	2.364	3.305	6.9	20.7
4 11	11 10.35	+ 5 23.6	2.413	3.286	10.0	20.8

204528 2005 EP_{87} 3 11.9 195°.29 0°.2/11.7 17

2 1	11 52.87	+ 1 45.2	2.474	3.234	12.7	21.4
2 11	11 49.22	+ 2 7.1	2.376	3.232	10.2	21.2
2 21	11 43.72	+ 2 40.2	2.300	3.230	7.1	21.0
3 2	11 36.78	+ 3 21.6	2.252	3.228	3.6	20.7
3 12	11 29.06	+ 4 7.1	2.233	3.226	0.2	20.5
3 22	11 21.28	+ 4 51.8	2.243	3.223	3.8	20.8
4 1	11 14.22	+ 5 31.3	2.283	3.221	7.3	21.0
4 11	11 8.52	+ 6 1.6	2.348	3.217	10.4	21.2

104980 2000 JP_{71} 3 11.9 259°.45 2°.6/ 9.4 17

2 1	11 55.60	+ 7 50.0	2.075	2.858	14.1	20.9
2 11	11 52.00	+ 8 32.0	1.965	2.837	11.2	20.6
2 21	11 46.05	+ 9 25.0	1.878	2.817	7.8	20.4
3 2	11 38.16	+10 23.9	1.818	2.795	4.2	20.1
3 12	11 29.07	+11 22.1	1.786	2.773	2.9	20.0
3 22	11 19.73	+12 12.7	1.783	2.751	6.1	20.1
4 1	11 11.19	+12 49.8	1.807	2.728	10.1	20.3
4 11	11 4.34	+13 10.0	1.856	2.704	13.7	20.5

459362 2012 JD_{12} 3 11.9 295°.04 7°.2/ 5.3 16

2 1	11 55.46	+18 43.5	1.716	2.529	15.3	20.9
2 11	11 52.42	+19 56.1	1.630	2.515	12.4	20.7
2 21	11 46.59	+21 12.8	1.566	2.500	9.4	20.5
3 2	11 38.49	+22 23.9	1.527	2.486	7.4	20.3
3 12	11 29.07	+23 19.4	1.514	2.471	7.9	20.3
3 22	11 19.54	+23 51.3	1.527	2.457	10.6	20.4
4 1	11 11.15	+23 55.5	1.564	2.443	13.9	20.6
4 11	11 4.91	+23 32.1	1.621	2.429	17.1	20.8

33305 1998 KQ_{50} 3 11.9 125°.55 0°.7/12.9 18 R

2 1	11 48.73	− 3 22.5	2.539	3.284	12.8	19.0
2 11	11 45.90	− 2 38.0	2.442	3.288	10.3	18.8
2 21	11 41.39	− 1 38.1	2.369	3.291	7.3	18.6
3 2	11 35.58	− 0 25.6	2.322	3.295	4.0	18.4
3 12	11 29.08	+ 0 54.7	2.305	3.298	0.7	18.1
3 22	11 22.56	+ 2 16.9	2.318	3.301	3.4	18.3
4 1	11 16.70	+ 3 35.0	2.361	3.305	6.7	18.6
4 11	11 12.09	+ 4 43.7	2.430	3.308	9.8	18.8

3370 Kohsai 3 11.9 69°.61 2°.6/ 9.8 18 R

2 1	11 53.64	+ 3 32.0	1.311	2.118	19.5	16.7
2 11	11 51.32	+ 4 40.5	1.244	2.130	15.4	16.5
2 21	11 45.94	+ 6 9.6	1.198	2.143	10.5	16.2
3 2	11 38.13	+ 7 51.0	1.175	2.155	5.2	15.9
3 12	11 29.08	+ 9 32.8	1.177	2.168	2.8	15.8
3 22	11 20.18	+11 2.8	1.206	2.181	7.3	16.1
4 1	11 12.76	+12 11.6	1.259	2.193	12.3	16.4
4 11	11 7.81	+12 54.5	1.334	2.206	16.5	16.7

118200 1995 CA_{8} 3 11.9 55°.01 10°.3/16.2 18

2 1	12 10.28	− 9 33.4	1.028	1.784	27.0	18.9
2 11	12 5.77	−12 2.6	0.967	1.800	23.1	18.7
2 21	11 56.79	−14 10.7	0.920	1.817	18.5	18.5
3 2	11 44.01	−15 48.3	0.892	1.834	13.9	18.3
3 12	11 29.08	−16 48.6	0.887	1.852	10.6	18.1
3 22	11 14.23	−17 11.1	0.904	1.869	10.9	18.2
4 1	11 1.69	−17 3.2	0.944	1.888	14.2	18.5
4 11	10 52.99	−16 37.9	1.005	1.906	18.2	18.8

176513 2001 YN_{63} 3 11.9 65°.70 2°.9/ 8.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 52.19	+ 9 35.3	2.245	3.035	13.0	20.6
2 11	11 48.76	+10 22.3	2.173	3.049	10.1	20.5
2 21	11 43.40	+11 16.5	2.124	3.064	6.9	20.3
3 2	11 36.60	+12 12.4	2.103	3.079	3.9	20.1
3 12	11 29.09	+13 4.0	2.110	3.094	3.1	20.1
3 22	11 21.69	+13 46.0	2.146	3.109	5.7	20.3
4 1	11 15.17	+14 14.5	2.209	3.123	8.8	20.5
4 11	11 10.15	+14 27.6	2.297	3.138	11.6	20.7

259239 2003 BT_{57} 3 11.9 109°.55 3°.9/ 7.8 18

2 1	11 55.34	+10 18.4	2.019	2.810	14.2	20.3
2 11	11 51.46	+11 35.1	1.952	2.829	11.0	20.1
2 21	11 45.37	+13 0.1	1.909	2.848	7.6	19.9
3 2	11 37.64	+14 26.2	1.893	2.866	4.6	19.8
3 12	11 29.10	+15 45.0	1.906	2.884	4.2	19.8
3 22	11 20.70	+16 49.6	1.948	2.902	7.0	20.0
4 1	11 13.34	+17 35.2	2.017	2.918	10.2	20.2
4 11	11 7.74	+18 0.1	2.109	2.935	13.1	20.4

121527 1999 UV_{30} 3 11.9 162°.31 2°.2/ 9.7 18

2 1	11 54.90	+ 7 36.3	2.193	2.974	13.5	20.5
2 11	11 51.05	+ 8 11.2	2.106	2.977	10.6	20.3
2 21	11 45.10	+ 8 54.9	2.041	2.979	7.3	20.1
3 2	11 37.54	+ 9 42.8	2.004	2.981	3.8	19.8
3 12	11 29.11	+10 29.0	1.995	2.983	2.4	19.7
3 22	11 20.68	+11 8.0	2.015	2.985	5.4	19.9
4 1	11 13.13	+11 35.4	2.064	2.987	8.9	20.1
4 11	11 7.19	+11 48.7	2.137	2.988	12.0	20.4

208251 2000 VQ_{3} 3 11.9 79°.01 3°.8/ 9.2 18

2 1	11 58.72	+10 11.6	1.516	2.319	17.5	20.1
2 11	11 54.99	+10 48.0	1.444	2.326	13.8	19.9
2 21	11 48.31	+11 33.8	1.392	2.334	9.6	19.7
3 2	11 39.30	+12 21.9	1.365	2.341	5.3	19.5
3 12	11 29.10	+13 3.6	1.364	2.349	4.1	19.4
3 22	11 19.03	+13 31.6	1.390	2.357	7.6	19.6
4 1	11 10.38	+13 41.2	1.441	2.364	11.9	19.9
4 11	11 4.10	+13 30.9	1.514	2.372	15.7	20.1

172429 2003 QN_{1} 3 11.9 223°.65 0°.6/12.6 17

2 1	11 55.89	− 1 38.6	2.094	2.845	15.0	21.6
2 11	11 52.15	− 1 12.9	1.985	2.834	12.2	21.4
2 21	11 46.11	− 0 30.5	1.897	2.822	8.7	21.1
3 2	11 38.18	+ 0 26.0	1.835	2.809	4.7	20.9
3 12	11 29.12	+ 1 31.9	1.802	2.796	0.6	20.5
3 22	11 19.86	+ 2 40.8	1.799	2.781	4.2	20.8
4 1	11 11.39	+ 3 45.6	1.824	2.766	8.5	21.0
4 11	11 4.59	+ 4 40.3	1.875	2.750	12.3	21.2

425436 2010 DY_{57} 3 12.0 147°.09 3°.0/ 8.6 18

2 11	11 51.04	+10 55.4	2.240	3.113	10.0	21.6
2 21	11 45.00	+11 54.6	2.184	3.121	6.9	21.4
3 2	11 37.46	+12 55.5	2.155	3.130	3.9	21.2
3 12	11 29.14	+13 51.9	2.155	3.137	3.3	21.2
3 22	11 20.87	+14 38.1	2.185	3.145	5.9	21.4
4 1	11 13.46	+15 10.2	2.243	3.151	9.0	21.6
4 11	11 7.59	+15 26.2	2.325	3.158	11.8	21.7
4 21	11 3.64	+15 26.0	2.428	3.163	14.2	21.9

161788 2006 UR_{208} 3 12.0 131°.67 5°.8/19.9 18

2 11	11 46.36	−19 56.7	2.440	3.195	13.1	20.1
2 21	11 41.82	−19 38.2	2.354	3.196	10.8	20.0
3 2	11 35.87	−18 56.5	2.290	3.197	8.4	19.8
3 12	11 29.14	−17 52.8	2.252	3.198	6.5	19.7
3 22	11 22.35	−16 30.7	2.241	3.199	5.9	19.6
4 1	11 16.25	−14 56.2	2.259	3.200	7.2	19.7
4 11	11 11.48	−13 17.0	2.304	3.201	9.4	19.9
4 21	11 8.45	−11 40.2	2.374	3.202	11.9	20.0

68714 2002 CS_{259} 3 12.0 239°.53 5°.9/ 5.9 18

2 11	11 52.45	+15 49.3	1.775	2.657	11.7	19.9
2 21	11 46.53	+17 29.5	1.706	2.643	8.5	19.7
3 2	11 38.48	+19 10.1	1.664	2.629	6.1	19.5
3 12	11 29.15	+20 40.8	1.649	2.614	6.5	19.5
3 22	11 19.64	+21 52.2	1.662	2.599	9.4	19.6
4 1	11 11.11	+22 38.4	1.701	2.583	12.9	19.8
4 11	11 4.52	+22 57.4	1.761	2.566	16.1	19.9
4 21	11 0.45	+22 50.9	1.838	2.549	18.9	20.1

102080 1999 RP_{148} 3 12.0 225°.71 2°.0/13.6 18

2 11	11 53.91	− 3 17.6	1.776	2.620	13.6	20.0
2 21	11 47.48	− 3 11.5	1.694	2.613	9.9	19.8
3 2	11 38.95	− 2 50.2	1.637	2.606	5.8	19.5
3 12	11 29.16	− 2 17.0	1.607	2.598	2.1	19.3
3 22	11 19.18	− 1 37.0	1.606	2.590	4.5	19.4
4 1	11 10.15	− 0 56.3	1.633	2.581	8.8	19.6
4 11	11 3.02	− 0 21.2	1.684	2.572	12.8	19.8
4 21	10 58.39	+ 0 3.9	1.757	2.562	16.3	20.0

498602 2008 RW_{42} 3 12.0 170°.07 0°.0/12.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 49.22	+ 0 38.3	2.382	3.233	10.3	22.3
2 21	11 43.73	+ 1 23.1	2.309	3.237	7.2	22.1
3 2	11 36.83	+ 2 17.7	2.264	3.240	3.7	21.9
3 12	11 29.16	+ 3 17.5	2.248	3.242	0.0	21.5
3 22	11 21.47	+ 4 17.1	2.263	3.244	3.7	21.9
4 1	11 14.51	+ 5 11.4	2.307	3.245	7.2	22.1
4 11	11 8.90	+ 5 56.0	2.377	3.246	10.3	22.3
4 21	11 5.06	+ 6 28.5	2.470	3.247	12.9	22.5

450394 2005 QR_{180} 3 12.0 151°.99 1°.0/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.81	+ 3 37.0	1.661	2.525	13.4	22.1
2 21	11 48.71	+ 4 18.1	1.600	2.534	9.2	21.9
3 2	11 39.51	+ 5 9.2	1.565	2.543	4.6	21.6
3 12	11 29.18	+ 6 3.4	1.557	2.550	1.1	21.4
3 22	11 18.90	+ 6 53.5	1.578	2.557	5.4	21.7
4 1	11 9.83	+ 7 33.2	1.627	2.563	9.8	21.9
4 11	11 2.88	+ 7 58.3	1.700	2.568	13.8	22.2
4 21	10 58.52	+ 8 7.3	1.793	2.573	17.0	22.4

107278 2001 BL_{73} 3 12.0 77°.44 4°.9/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.06	+12 46.8	1.467	2.354	13.4	20.0
2 21	11 46.92	+14 0.6	1.423	2.366	9.3	19.8
3 2	11 38.60	+15 14.5	1.404	2.378	5.8	19.6
3 12	11 29.18	+16 18.6	1.411	2.390	5.4	19.6
3 22	11 19.93	+17 4.6	1.445	2.402	8.5	19.8
4 1	11 12.06	+17 27.6	1.504	2.414	12.4	20.0
4 11	11 6.48	+17 26.8	1.584	2.426	15.9	20.3
4 21	11 3.58	+17 4.2	1.682	2.438	18.8	20.5

222434 2001 QQ_{2} 3 12.0 157°.43 5°.2/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 58.61	−14 52.7	2.651	3.411	12.0	20.8
2 21	11 50.20	−15 30.7	2.568	3.422	9.7	20.7
3 2	11 40.16	−15 52.3	2.512	3.431	7.3	20.5
3 12	11 29.19	−15 57.0	2.486	3.439	5.5	20.4
3 22	11 18.12	−15 46.4	2.490	3.447	5.4	20.4
4 1	11 7.81	−15 23.9	2.526	3.454	7.2	20.5
4 11	10 59.01	−14 54.3	2.589	3.460	9.5	20.7
4 21	10 52.17	−14 23.0	2.678	3.465	11.8	20.9

460124 2014 PS_{36} 3 12.0 111°.55 3°.6/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.82	+ 8 36.1	1.710	2.590	12.2	21.1
2 21	11 45.16	+10 24.7	1.663	2.605	8.3	20.9
3 2	11 37.64	+12 18.6	1.644	2.620	4.6	20.7
3 12	11 29.18	+14 7.2	1.653	2.635	4.0	20.7
3 22	11 20.83	+15 41.1	1.690	2.650	7.3	20.9
4 1	11 13.59	+16 53.4	1.754	2.663	11.0	21.1
4 11	11 8.27	+17 40.9	1.842	2.677	14.3	21.4
4 21	11 5.27	+18 4.3	1.948	2.690	17.0	21.6

284655 2007 YU_{47} 3 12.0 75°.04 3°.5/16.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 47.87	−10 0.2	2.241	3.056	12.2	20.3
2 21	11 42.90	− 9 47.0	2.166	3.061	9.4	20.1
3 2	11 36.44	− 9 16.3	2.115	3.066	6.3	19.9
3 12	11 29.18	− 8 30.7	2.092	3.071	3.8	19.8
3 22	11 21.88	− 7 34.5	2.097	3.076	4.2	19.8
4 1	11 15.33	− 6 33.3	2.130	3.081	6.9	20.0
4 11	11 10.20	− 5 33.3	2.190	3.086	9.9	20.2
4 21	11 6.91	− 4 39.6	2.273	3.091	12.6	20.4

223635 2004 KW_{9} 3 12.0 256°.90 6°.0/ 6.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.80	+19 5.4	1.962	2.837	11.1	20.4
2 21	11 48.02	+20 3.6	1.889	2.820	8.3	20.2
3 2	11 39.20	+20 57.2	1.843	2.803	6.2	20.0
3 12	11 29.19	+21 38.2	1.824	2.785	6.4	20.0
3 22	11 19.05	+22 0.4	1.833	2.767	8.9	20.1
4 1	11 9.88	+22 0.3	1.868	2.749	12.0	20.3
4 11	11 2.59	+21 37.8	1.926	2.730	15.0	20.4
4 21	10 57.72	+20 55.0	2.002	2.711	17.6	20.6

91468 1999 RH_{87} 3 12.0 105°.42 0°.5/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.30	− 0 17.4	2.119	2.969	11.5	20.0
2 21	11 45.20	+ 0 11.3	2.061	2.986	8.1	19.8
3 2	11 37.58	+ 0 50.6	2.029	3.003	4.3	19.6
3 12	11 29.19	+ 1 35.8	2.027	3.020	0.6	19.3
3 22	11 20.89	+ 2 21.9	2.053	3.036	3.8	19.6
4 1	11 13.50	+ 3 3.7	2.109	3.052	7.5	19.9
4 11	11 7.71	+ 3 36.9	2.191	3.068	10.7	20.1
4 21	11 3.89	+ 3 59.0	2.295	3.083	13.5	20.3

69173 4304 P–L 3 12.0 219°.46 1°.3/13.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.74	− 3 2.4	2.027	2.869	12.2	20.8
2 21	11 45.79	− 2 32.0	1.941	2.861	8.9	20.5
3 2	11 38.02	− 1 46.9	1.881	2.851	5.0	20.3
3 12	11 29.19	− 0 51.1	1.850	2.842	1.5	20.0
3 22	11 20.19	+ 0 9.6	1.848	2.831	4.0	20.2
4 1	11 11.99	+ 1 8.9	1.874	2.820	8.0	20.4
4 11	11 5.42	+ 2 0.7	1.927	2.809	11.7	20.6
4 21	11 1.00	+ 2 40.9	2.001	2.797	14.9	20.8

103475 2000 AY_{214} 3 12.0 210°.69 3°.4/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 52.42	+10 29.3	1.921	2.796	11.3	20.1
2 21	11 46.28	+11 35.0	1.852	2.791	7.8	19.9
3 2	11 38.27	+12 44.3	1.809	2.785	4.5	19.7
3 12	11 29.19	+13 49.7	1.795	2.778	3.7	19.6
3 22	11 20.03	+14 44.0	1.810	2.771	6.7	19.8
4 1	11 11.81	+15 21.7	1.852	2.764	10.4	20.0
4 11	11 5.36	+15 40.3	1.918	2.756	13.7	20.2
4 21	11 1.18	+15 39.6	2.003	2.747	16.6	20.4

171554 1999 TR_{57} 3 12.0 212°.98 0°.1/12.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.02	+ 0 26.4	1.964	2.818	12.0	21.0
2 21	11 46.00	+ 1 8.7	1.883	2.812	8.5	20.8
3 2	11 38.14	+ 2 3.4	1.829	2.804	4.4	20.5
3 12	11 29.20	+ 3 5.4	1.803	2.796	0.1	20.1
3 22	11 20.12	+ 4 8.0	1.806	2.788	4.4	20.5
4 1	11 11.89	+ 5 4.9	1.838	2.779	8.6	20.7
4 11	11 5.36	+ 5 50.5	1.895	2.769	12.3	20.9
4 21	11 1.02	+ 6 21.7	1.974	2.758	15.5	21.1

387228 2012 UU_{35} 3 12.0 142°.75 0°.7/11.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.73	+ 3 32.0	2.320	3.181	10.2	21.7
2 21	11 43.42	+ 4 7.8	2.251	3.184	7.0	21.5
3 2	11 36.69	+ 4 51.0	2.208	3.186	3.5	21.3
3 12	11 29.19	+ 5 36.9	2.195	3.188	0.7	21.0
3 22	11 21.69	+ 6 20.6	2.212	3.191	4.0	21.3
4 1	11 14.92	+ 6 57.6	2.257	3.193	7.5	21.5
4 11	11 9.55	+ 7 24.3	2.328	3.195	10.6	21.7
4 21	11 5.95	+ 7 38.9	2.420	3.196	13.2	21.9

264641 2001 WQ_{82} 3 12.0 142°.85 0°.4/11.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.87	+ 2 4.0	1.923	2.785	11.9	21.6
2 21	11 45.11	+ 2 46.7	1.858	2.790	8.3	21.3
3 2	11 37.62	+ 3 39.8	1.818	2.796	4.2	21.1
3 12	11 29.20	+ 4 37.6	1.807	2.800	0.5	20.8
3 22	11 20.77	+ 5 33.5	1.825	2.805	4.5	21.1
4 1	11 13.29	+ 6 21.7	1.870	2.809	8.5	21.4
4 11	11 7.51	+ 6 57.6	1.941	2.813	12.1	21.6
4 21	11 3.88	+ 7 19.0	2.032	2.817	15.1	21.8

9026 Denevi 3 12.0 230°.24 0°.9/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 47.95	+ 4 31.0	2.680	3.540	9.0	18.7
2 21	11 42.79	+ 5 10.2	2.599	3.532	6.2	18.5
3 2	11 36.36	+ 5 55.5	2.545	3.523	3.1	18.3
3 12	11 29.20	+ 6 42.9	2.522	3.514	1.0	18.1
3 22	11 21.96	+ 7 27.9	2.528	3.505	3.8	18.3
4 1	11 15.32	+ 8 6.4	2.564	3.495	7.0	18.5
4 11	11 9.86	+ 8 35.1	2.627	3.485	9.8	18.6
4 21	11 5.96	+ 8 52.4	2.711	3.475	12.2	18.8

153796 2001 VS_{79} 3 12.0 95°.12 8°.9/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.87	+26 19.2	1.758	2.632	12.3	19.4
2 21	11 47.40	+27 44.0	1.718	2.634	10.0	19.2
3 2	11 38.83	+28 55.6	1.702	2.637	8.9	19.2
3 12	11 29.20	+29 44.5	1.712	2.639	9.6	19.2
3 22	11 19.70	+30 4.9	1.747	2.642	11.7	19.3
4 1	11 11.49	+29 55.2	1.805	2.644	14.3	19.5
4 11	11 5.44	+29 17.9	1.883	2.646	16.7	19.7
4 21	11 1.98	+28 17.6	1.977	2.649	18.8	19.9

277729 2006 DY_{75} 3 12.0 175°.75 1°.1/10.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.54	+ 4 17.6	2.163	3.028	10.7	21.4
2 21	11 44.08	+ 5 8.0	2.094	3.029	7.3	21.1
3 2	11 37.06	+ 6 6.3	2.052	3.030	3.6	20.9
3 12	11 29.21	+ 7 6.8	2.039	3.031	1.2	20.7
3 22	11 21.32	+ 8 3.5	2.055	3.031	4.6	21.0
4 1	11 14.23	+ 8 51.1	2.100	3.032	8.2	21.2
4 11	11 8.65	+ 9 25.8	2.170	3.031	11.5	21.4
4 21	11 4.99	+ 9 45.9	2.261	3.031	14.2	21.6

136943 1998 QH_{73} 3 12.0 268°.58 2°.5/14.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.91	− 6 39.5	1.888	2.722	13.4	20.7
2 21	11 45.49	− 6 6.2	1.784	2.695	10.0	20.5
3 2	11 38.02	− 5 12.5	1.704	2.668	6.2	20.2
3 12	11 29.21	− 4 1.5	1.652	2.641	2.8	19.9
3 22	11 20.01	− 2 39.2	1.629	2.612	4.4	19.9
4 1	11 11.50	− 1 13.5	1.633	2.583	8.6	20.1
4 11	11 4.66	+ 0 6.9	1.664	2.554	12.8	20.3
4 21	11 0.15	+ 1 15.4	1.716	2.524	16.5	20.5

436028 2009 HJ_{81} 3 12.0 7°.78 11°.9/23.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 45.08	+31 31.1	1.564	2.444	13.1	19.5
2 21	11 41.67	+34 38.6	1.545	2.446	12.0	19.4
3 2	11 36.05	+37 24.4	1.551	2.449	12.3	19.4
3 12	11 29.20	+39 35.1	1.581	2.454	13.9	19.5
3 22	11 22.34	+41 3.0	1.634	2.460	16.0	19.7
4 1	11 16.70	+41 46.8	1.704	2.466	18.1	19.9
4 11	11 13.22	+41 50.1	1.790	2.474	20.0	20.0
4 21	11 12.38	+41 19.4	1.887	2.483	21.5	20.2

377185 2003 UX_{239} 3 12.0 133°.90 5°.8/ 5.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 55.06	+21 54.9	2.289	3.156	10.1	21.0
2 21	11 47.75	+22 40.4	2.243	3.166	7.6	20.9
3 2	11 38.86	+23 18.0	2.224	3.175	6.0	20.8
3 12	11 29.22	+23 41.5	2.233	3.184	6.2	20.8
3 22	11 19.73	+23 47.2	2.271	3.192	8.1	21.0
4 1	11 11.28	+23 33.5	2.336	3.200	10.5	21.1
4 11	11 4.55	+23 1.4	2.424	3.208	12.8	21.3
4 21	10 59.92	+22 13.5	2.531	3.215	14.8	21.5

436024 2009 HL_{67} 3 12.0 309°.08 2°.0/14.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 47.63	− 4 38.1	2.153	2.994	11.7	20.7
2 21	11 42.86	− 4 20.6	2.067	2.983	8.6	20.4
3 2	11 36.50	− 3 48.8	2.005	2.972	5.2	20.2
3 12	11 29.21	− 3 5.7	1.972	2.961	2.2	20.0
3 22	11 21.78	− 2 15.9	1.967	2.951	3.7	20.1
4 1	11 15.05	− 1 25.0	1.990	2.941	7.3	20.3
4 11	11 9.75	− 0 38.6	2.039	2.931	10.7	20.5
4 21	11 6.36	− 0 1.0	2.110	2.921	13.7	20.6

126393 2002 BF_{3} 3 12.0 355°.61 8°.8/ 4.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.76	+22 50.7	1.447	2.336	13.4	18.8
2 21	11 46.25	+24 10.7	1.401	2.332	10.5	18.6
3 2	11 38.36	+25 19.9	1.378	2.330	8.9	18.5
3 12	11 29.22	+26 7.4	1.380	2.328	9.5	18.6
3 22	11 20.16	+26 25.8	1.406	2.327	12.1	18.7
4 1	11 12.50	+26 12.5	1.454	2.326	15.2	18.9
4 11	11 7.21	+25 29.7	1.521	2.327	18.2	19.1
4 21	11 4.76	+24 22.4	1.604	2.328	20.8	19.3

190304 1997 EP_{4} 3 12.0 195°.38 0°.4/11.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.01	+ 2 19.7	2.137	2.997	11.0	20.8
2 21	11 44.44	+ 2 57.7	2.064	2.995	7.6	20.6
3 2	11 37.27	+ 3 45.0	2.017	2.994	3.9	20.4
3 12	11 29.22	+ 4 36.5	1.999	2.992	0.4	20.1
3 22	11 21.11	+ 5 26.8	2.010	2.990	4.2	20.4
4 1	11 13.81	+ 6 10.6	2.050	2.988	8.0	20.6
4 11	11 8.02	+ 6 43.6	2.115	2.985	11.3	20.8
4 21	11 4.20	+ 7 3.5	2.202	2.983	14.2	21.0

88534 2001 QG_{183} 3 12.0 137°.96 1°.4/13.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.35	− 2 41.1	2.384	3.223	10.8	19.8
2 21	11 44.52	− 2 31.2	2.312	3.229	7.8	19.6
3 2	11 37.26	− 2 10.4	2.266	3.234	4.4	19.4
3 12	11 29.23	− 1 41.7	2.249	3.240	1.5	19.2
3 22	11 21.18	− 1 9.0	2.262	3.245	3.4	19.4
4 1	11 13.87	− 0 36.5	2.304	3.250	6.7	19.6
4 11	11 7.95	− 0 8.4	2.372	3.255	9.8	19.8
4 21	11 3.83	+ 0 12.2	2.464	3.259	12.4	20.0

132212 2002 EH_{59} 3 12.0 76°.77 1°.5/13.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.95	− 2 53.1	1.406	2.265	15.6	20.0
2 21	11 46.92	− 2 23.2	1.353	2.281	11.2	19.7
3 2	11 38.64	− 1 34.8	1.324	2.296	6.2	19.5
3 12	11 29.23	− 0 34.2	1.320	2.312	1.7	19.2
3 22	11 19.94	+ 0 30.4	1.343	2.328	4.9	19.5
4 1	11 12.02	+ 1 30.4	1.393	2.344	9.7	19.8
4 11	11 6.40	+ 2 18.6	1.465	2.359	14.0	20.1
4 21	11 3.51	+ 2 51.1	1.558	2.375	17.5	20.4

469734 2005 NC_{30} 3 12.0 301°.37 4°.3/16.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.31	−10 54.2	2.207	3.015	12.6	21.0
2 21	11 44.02	−11 4.9	2.120	3.009	9.8	20.8
3 2	11 37.10	−10 58.3	2.058	3.003	6.9	20.6
3 12	11 29.23	−10 35.5	2.023	2.997	4.6	20.4
3 22	11 21.20	− 9 59.7	2.016	2.991	4.8	20.4
4 1	11 13.89	− 9 15.6	2.037	2.985	7.3	20.6
4 11	11 8.04	− 8 29.4	2.084	2.979	10.4	20.7
4 21	11 4.14	− 7 46.2	2.154	2.974	13.2	20.9

427073 2014 UM_{22} 3 12.0 120°.37 1°.1/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.46	+ 3 10.0	1.819	2.686	12.2	21.0
2 21	11 44.89	+ 4 10.0	1.759	2.695	8.4	20.8
3 2	11 37.54	+ 5 20.1	1.724	2.703	4.2	20.5
3 12	11 29.24	+ 6 33.5	1.718	2.711	1.2	20.3
3 22	11 20.98	+ 7 42.5	1.741	2.719	5.1	20.6
4 1	11 13.72	+ 8 40.5	1.791	2.726	9.1	20.9
4 11	11 8.24	+ 9 22.9	1.866	2.734	12.7	21.1
4 21	11 4.97	+ 9 47.9	1.961	2.741	15.7	21.3

458967 2011 WB_{17} 3 12.0 168°.22 1°.8/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.82	+ 5 47.8	1.919	2.785	11.8	22.7
2 21	11 47.19	+ 6 40.9	1.854	2.790	8.1	22.4
3 2	11 38.72	+ 7 41.2	1.816	2.794	4.1	22.2
3 12	11 29.25	+ 8 42.0	1.807	2.798	1.9	22.0
3 22	11 19.79	+ 9 36.6	1.827	2.801	5.4	22.3
4 1	11 11.33	+10 19.3	1.876	2.803	9.3	22.5
4 11	11 4.68	+10 46.6	1.949	2.804	12.8	22.7
4 21	11 0.30	+10 57.4	2.043	2.805	15.7	22.9

161839 2006 YB_{7} 3 12.0 47°.47 3°.5/15.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 47.81	− 9 58.2	1.549	2.384	15.7	19.4
2 21	11 43.32	− 9 10.0	1.484	2.392	11.9	19.2
3 2	11 36.83	− 7 55.5	1.441	2.401	7.6	18.9
3 12	11 29.25	− 6 20.1	1.424	2.409	4.0	18.7
3 22	11 21.67	− 4 32.7	1.434	2.418	4.8	18.8
4 1	11 15.19	− 2 44.0	1.471	2.428	8.8	19.1
4 11	11 10.68	− 1 4.5	1.533	2.437	12.8	19.3
4 21	11 8.60	+ 0 18.7	1.616	2.447	16.3	19.6

157237 2004 RX_{91} 3 12.0 344°.56 7°.3/17.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.20	−14 38.5	1.588	2.395	16.8	19.1
2 21	11 45.89	−15 21.2	1.510	2.390	13.6	18.9
3 2	11 38.27	−15 39.1	1.453	2.385	10.3	18.7
3 12	11 29.25	−15 31.0	1.419	2.381	7.7	18.5
3 22	11 19.98	−14 59.5	1.411	2.378	7.6	18.5
4 1	11 11.73	−14 10.7	1.428	2.375	10.0	18.6
4 11	11 5.55	−13 13.5	1.468	2.372	13.3	18.8
4 21	11 2.07	−12 16.8	1.529	2.370	16.6	19.0

212627 2006 TW_{28} 3 12.0 234°.48 0°.8/11.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.51	+ 4 1.8	2.564	3.424	9.4	21.2
2 21	11 43.25	+ 4 39.2	2.482	3.415	6.5	21.0
3 2	11 36.63	+ 5 23.3	2.428	3.405	3.2	20.8
3 12	11 29.25	+ 6 9.9	2.403	3.396	0.8	20.6
3 22	11 21.79	+ 6 54.5	2.408	3.386	3.9	20.8
4 1	11 14.94	+ 7 32.7	2.443	3.376	7.2	21.0
4 11	11 9.33	+ 8 1.2	2.504	3.365	10.1	21.2
4 21	11 5.37	+ 8 18.1	2.587	3.355	12.6	21.3

314227 2005 OJ_{19} 3 12.0 350°.42 10°.7/14.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.39	− 8 47.1	0.922	1.767	23.0	19.6
2 21	11 59.44	−11 34.1	0.857	1.763	18.5	19.2
3 2	11 45.93	−14 3.5	0.812	1.761	13.8	19.0
3 12	11 29.28	−16 3.7	0.790	1.759	10.8	18.8
3 22	11 11.88	−17 26.6	0.792	1.757	11.9	18.8
4 1	10 56.50	−18 13.0	0.815	1.757	16.1	19.1
4 11	10 45.26	−18 32.9	0.858	1.757	20.8	19.3
4 21	10 39.09	−18 39.2	0.917	1.757	25.1	19.6

417771 2007 DG_{113} 3 12.0 342°.81 12°.5/27.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 45.74	+27 13.6	1.177	2.076	15.0	19.8
2 21	11 42.65	+29 37.4	1.131	2.058	13.0	19.6
3 2	11 36.77	+31 46.0	1.107	2.041	12.6	19.5
3 12	11 29.26	+33 22.6	1.104	2.027	14.2	19.6
3 22	11 21.62	+34 15.9	1.122	2.013	17.1	19.7
4 1	11 15.44	+34 21.6	1.158	2.002	20.3	19.8
4 11	11 11.93	+33 42.9	1.209	1.992	23.2	20.0
4 21	11 11.62	+32 26.9	1.271	1.984	25.8	20.2

169144 2001 QT_{115} 3 12.0 199°.77 1°.4/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 47.06	− 5 0.8	2.519	3.352	10.4	20.5
2 21	11 42.25	− 4 14.2	2.436	3.349	7.6	20.3
3 2	11 36.13	− 3 13.8	2.380	3.347	4.4	20.1
3 12	11 29.26	− 2 3.5	2.353	3.344	1.6	19.9
3 22	11 22.34	− 0 48.4	2.357	3.340	3.2	20.0
4 1	11 16.04	+ 0 25.8	2.390	3.337	6.5	20.2
4 11	11 10.97	+ 1 33.6	2.450	3.333	9.5	20.4
4 21	11 7.54	+ 2 31.1	2.534	3.329	12.1	20.6

406542 2007 WJ_{5} 3 12.0 148°.61 1°.7/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.64	+ 5 55.7	1.954	2.819	11.6	22.3
2 21	11 47.00	+ 6 47.7	1.894	2.830	7.9	22.1
3 2	11 38.59	+ 7 46.3	1.862	2.840	4.0	21.9
3 12	11 29.28	+ 8 45.0	1.858	2.849	1.9	21.7
3 22	11 20.01	+ 9 37.2	1.884	2.857	5.3	22.0
4 1	11 11.77	+10 17.6	1.938	2.865	9.1	22.2
4 11	11 5.30	+10 43.1	2.017	2.872	12.5	22.5
4 21	11 1.05	+10 52.6	2.116	2.878	15.3	22.7

243143 2007 TE_{8} 3 12.0 199°.22 2°.8/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.92	+ 9 2.8	2.031	2.900	11.1	21.6
2 21	11 47.27	+10 1.4	1.959	2.896	7.6	21.4
3 2	11 38.79	+11 4.4	1.915	2.891	4.1	21.2
3 12	11 29.28	+12 5.1	1.900	2.886	3.0	21.1
3 22	11 19.69	+12 56.7	1.914	2.879	6.0	21.3
4 1	11 11.00	+13 34.2	1.957	2.872	9.7	21.5
4 11	11 4.04	+13 54.6	2.024	2.864	13.0	21.7
4 21	10 59.29	+13 57.6	2.111	2.855	15.8	21.9

247939 2003 XW_{17} 3 12.0 200°.18 0°.1/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.28	+ 1 59.8	2.194	3.045	11.1	21.1
2 21	11 47.43	+ 2 24.5	2.114	3.041	7.8	20.9
3 2	11 38.85	+ 2 58.0	2.060	3.036	4.0	20.6
3 12	11 29.28	+ 3 36.2	2.036	3.030	0.1	20.3
3 22	11 19.61	+ 4 14.1	2.042	3.023	4.1	20.6
4 1	11 10.75	+ 4 47.0	2.078	3.015	7.9	20.8
4 11	11 3.48	+ 5 10.8	2.140	3.007	11.4	21.0
4 21	10 58.28	+ 5 23.3	2.224	2.998	14.3	21.2

339541 2005 JS_{50} 3 12.0 220°.09 1°.8/ 9.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 48.83	+ 7 19.9	2.405	3.273	9.6	21.4
2 21	11 43.52	+ 8 8.0	2.331	3.268	6.6	21.2
3 2	11 36.79	+ 9 0.9	2.285	3.263	3.4	21.0
3 12	11 29.28	+ 9 53.5	2.269	3.258	2.0	20.9
3 22	11 21.70	+10 40.6	2.282	3.252	4.8	21.1
4 1	11 14.82	+11 17.7	2.323	3.246	8.0	21.3
4 11	11 9.28	+11 42.0	2.390	3.240	10.9	21.4
4 21	11 5.49	+11 52.2	2.478	3.234	13.5	21.6

463838 2014 TX_{73} 3 12.0 30°.03 14°.3/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.63	+39 39.6	1.507	2.346	15.9	20.3
2 21	11 52.42	+40 57.7	1.486	2.352	14.7	20.2
3 2	11 41.45	+41 45.3	1.486	2.359	14.4	20.2
3 12	11 29.28	+41 52.8	1.507	2.366	15.2	20.3
3 22	11 17.69	+41 17.4	1.549	2.374	16.7	20.4
4 1	11 8.19	+40 2.1	1.609	2.383	18.6	20.6
4 11	11 1.74	+38 14.8	1.687	2.391	20.4	20.7
4 21	10 58.62	+36 4.4	1.778	2.401	22.0	20.9

413873 2006 UA_{255} 3 12.0 52°.66 1°.2/11.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.41	+ 4 0.7	1.513	2.388	13.7	21.4
2 21	11 45.81	+ 4 44.2	1.457	2.397	9.5	21.1
3 2	11 38.10	+ 5 37.9	1.426	2.405	4.7	20.9
3 12	11 29.29	+ 6 34.5	1.421	2.414	1.3	20.7
3 22	11 20.54	+ 7 26.1	1.444	2.423	5.6	21.0
4 1	11 13.01	+ 8 5.9	1.492	2.432	10.2	21.3
4 11	11 7.60	+ 8 29.7	1.564	2.442	14.2	21.5
4 21	11 4.75	+ 8 35.9	1.654	2.451	17.5	21.8

368730 2005 UD_{110} 3 12.0 188°.79 1°.5/13.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.82	− 3 58.7	2.431	3.263	10.8	22.7
2 21	11 44.90	− 3 29.6	2.349	3.262	7.8	22.5
3 2	11 37.51	− 2 47.8	2.294	3.261	4.5	22.3
3 12	11 29.29	− 1 56.7	2.268	3.258	1.6	22.1
3 22	11 21.00	− 1 0.9	2.272	3.255	3.4	22.2
4 1	11 13.41	− 0 5.6	2.306	3.252	6.8	22.4
4 11	11 7.18	+ 0 44.2	2.368	3.247	9.9	22.6
4 21	11 2.74	+ 1 24.8	2.452	3.242	12.7	22.8

269102 2007 HE_{83} 3 12.0 41°.06 2°.9/14.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.25	− 6 55.7	1.722	2.562	14.2	20.9
2 21	11 44.21	− 6 35.1	1.653	2.567	10.6	20.7
3 2	11 37.27	− 5 54.8	1.608	2.571	6.6	20.5
3 12	11 29.29	− 4 58.8	1.589	2.577	3.2	20.3
3 22	11 21.27	− 3 53.3	1.598	2.582	4.4	20.4
4 1	11 14.25	− 2 46.0	1.634	2.587	8.3	20.6
4 11	11 9.05	− 1 44.4	1.694	2.593	12.1	20.8
4 21	11 6.15	− 0 54.0	1.776	2.599	15.4	21.1

313602 2003 PS 3 12.0 211°.72 2°.7/14.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.13	− 6 7.8	2.177	2.998	12.3	22.0
2 21	11 48.13	− 6 6.7	2.086	2.990	9.2	21.8
3 2	11 39.27	− 5 50.8	2.021	2.980	5.8	21.6
3 12	11 29.30	− 5 22.4	1.984	2.970	2.9	21.4
3 22	11 19.13	− 4 45.1	1.978	2.959	4.1	21.4
4 1	11 9.72	− 4 4.1	2.001	2.947	7.6	21.6
4 11	11 1.91	− 3 25.0	2.051	2.934	11.1	21.8
4 21	10 56.26	− 2 52.3	2.125	2.920	14.2	22.0

183514 2003 FC_{58} 3 12.0 337°.96 4°.1/ 8.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.34	+14 24.7	1.826	2.705	11.6	19.3
2 21	11 47.03	+14 41.4	1.755	2.694	8.2	19.0
3 2	11 38.72	+14 55.8	1.710	2.683	5.1	18.8
3 12	11 29.31	+15 1.9	1.692	2.673	4.3	18.8
3 22	11 19.83	+14 55.1	1.703	2.664	7.1	18.9
4 1	11 11.40	+14 32.5	1.739	2.655	10.7	19.1
4 11	11 4.87	+13 53.7	1.799	2.647	14.1	19.3
4 21	11 0.76	+13 0.3	1.879	2.640	17.0	19.5

297085 2010 KO_{51} 3 12.0 273°.67 2°.5/14.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.45	− 5 14.1	2.540	3.362	10.7	20.6
2 21	11 46.13	− 5 30.9	2.437	3.342	8.0	20.4
3 2	11 38.21	− 5 36.7	2.361	3.321	5.1	20.2
3 12	11 29.31	− 5 32.9	2.314	3.299	2.7	20.0
3 22	11 20.15	− 5 21.7	2.297	3.278	3.7	20.0
4 1	11 11.55	− 5 6.5	2.311	3.256	6.8	20.2
4 11	11 4.25	− 4 51.2	2.351	3.234	9.9	20.3
4 21	10 58.74	− 4 39.3	2.415	3.212	12.6	20.5

58599 1997 TK_{13} 3 12.0 234°.27 0°.2/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.10	− 0 9.1	2.170	3.025	11.0	20.4
2 21	11 43.15	+ 0 37.2	2.093	3.021	7.8	20.2
3 2	11 36.66	+ 1 35.4	2.041	3.017	4.1	19.9
3 12	11 29.30	+ 2 40.4	2.019	3.012	0.2	19.6
3 22	11 21.86	+ 3 46.3	2.026	3.008	3.9	19.9
4 1	11 15.17	+ 4 47.1	2.061	3.003	7.7	20.1
4 11	11 9.91	+ 5 37.7	2.122	2.999	11.1	20.3
4 21	11 6.53	+ 6 14.9	2.205	2.994	13.9	20.5

282218 2001 XS_{126} 3 12.0 119°.51 0°.2/12.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 48.33	+ 0 12.3	2.615	3.463	9.6	21.6
2 21	11 43.01	+ 0 49.0	2.552	3.477	6.7	21.4
3 2	11 36.46	+ 1 34.3	2.516	3.490	3.5	21.3
3 12	11 29.30	+ 2 24.2	2.510	3.503	0.3	21.0
3 22	11 22.18	+ 3 14.3	2.534	3.516	3.2	21.3
4 1	11 15.74	+ 4 0.1	2.588	3.528	6.4	21.5
4 11	11 10.53	+ 4 38.1	2.668	3.540	9.2	21.7
4 21	11 6.91	+ 5 6.0	2.772	3.552	11.6	21.9

58236 1993 FK_{56} 3 12.0 18°.69 4°.4/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.44	+15 16.6	1.935	2.814	11.1	19.0
2 21	11 46.21	+15 50.3	1.879	2.816	7.8	18.8
3 2	11 38.21	+16 21.3	1.849	2.819	5.1	18.6
3 12	11 29.31	+16 43.2	1.847	2.823	4.7	18.6
3 22	11 20.49	+16 51.5	1.872	2.827	7.2	18.7
4 1	11 12.71	+16 43.1	1.925	2.831	10.4	18.9
4 11	11 6.74	+16 17.9	2.000	2.835	13.4	19.1
4 21	11 3.00	+15 37.3	2.096	2.840	15.9	19.3

10926 1998 BF_{41} 3 12.0 83°.41 0°.5/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.92	+ 2 29.4	2.190	3.051	10.7	18.3
2 21	11 43.57	+ 3 14.2	2.135	3.067	7.4	18.1
3 2	11 36.79	+ 4 7.3	2.106	3.084	3.7	17.9
3 12	11 29.31	+ 5 3.4	2.107	3.100	0.6	17.7
3 22	11 21.90	+ 5 57.1	2.137	3.117	4.0	18.0
4 1	11 15.35	+ 6 43.2	2.195	3.133	7.6	18.2
4 11	11 10.26	+ 7 18.0	2.280	3.149	10.7	18.5
4 21	11 7.01	+ 7 39.8	2.386	3.165	13.3	18.7

17950 Grover 3 12.0 214°.98 0°.4/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.89	+ 2 49.8	1.835	2.695	12.5	18.9
2 21	11 48.14	+ 3 15.9	1.757	2.688	8.8	18.7
3 2	11 39.33	+ 3 51.8	1.704	2.680	4.5	18.4
3 12	11 29.32	+ 4 32.4	1.679	2.672	0.4	18.1
3 22	11 19.16	+ 5 11.7	1.684	2.664	4.8	18.4
4 1	11 9.97	+ 5 44.1	1.716	2.655	9.2	18.6
4 11	11 2.65	+ 6 5.1	1.774	2.645	13.1	18.8
4 21	10 57.77	+ 6 12.5	1.852	2.634	16.4	19.0

445291 2010 AT_{24} 3 12.0 68°.03 4°.5/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.88	+10 6.8	1.204	2.095	15.3	20.6
2 21	11 47.83	+11 24.2	1.162	2.108	10.5	20.3
3 2	11 39.21	+12 45.6	1.144	2.122	6.0	20.1
3 12	11 29.32	+13 59.1	1.151	2.135	4.9	20.1
3 22	11 19.64	+14 54.3	1.183	2.149	8.8	20.3
4 1	11 11.61	+15 25.0	1.238	2.162	13.4	20.6
4 11	11 6.23	+15 29.4	1.314	2.176	17.4	20.9
4 21	11 3.91	+15 9.8	1.407	2.190	20.7	21.2

66834 1999 UT_{46} 3 12.0 282°.88 3°.7/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.62	+10 48.3	1.577	2.456	13.0	18.2
2 21	11 48.32	+11 29.9	1.496	2.437	9.2	17.9
3 2	11 39.58	+12 15.1	1.440	2.417	5.2	17.6
3 12	11 29.32	+12 56.0	1.411	2.397	4.0	17.5
3 22	11 18.78	+13 25.0	1.410	2.377	7.5	17.7
4 1	11 9.29	+13 36.4	1.434	2.356	12.0	17.9
4 11	11 1.97	+13 27.6	1.480	2.336	16.1	18.1
4 21	10 57.48	+12 59.1	1.545	2.316	19.6	18.3

213079 1999 TL_{132} 3 12.0 118°.30 0°.0/12.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.54	+ 0 59.4	1.814	2.671	12.8	21.3
2 21	11 46.98	+ 1 39.0	1.758	2.687	8.9	21.1
3 2	11 38.61	+ 2 29.8	1.727	2.704	4.6	20.8
3 12	11 29.32	+ 3 26.1	1.725	2.719	0.0	20.5
3 22	11 20.14	+ 4 21.1	1.752	2.734	4.5	20.9
4 1	11 12.06	+ 5 8.8	1.808	2.748	8.7	21.2
4 11	11 5.86	+ 5 44.4	1.888	2.762	12.3	21.4
4 21	11 1.97	+ 6 5.7	1.989	2.775	15.3	21.7

222340 2000 VU_{12} 3 12.0 103°.86 2°.3/14.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.65	− 5 56.1	1.911	2.749	13.1	20.4
2 21	11 44.33	− 5 28.1	1.842	2.756	9.6	20.2
3 2	11 37.30	− 4 42.8	1.797	2.762	5.8	19.9
3 12	11 29.33	− 3 44.3	1.780	2.769	2.5	19.7
3 22	11 21.34	− 2 38.6	1.791	2.775	4.0	19.8
4 1	11 14.26	− 1 32.7	1.831	2.782	7.8	20.1
4 11	11 8.86	− 0 33.2	1.895	2.788	11.4	20.3
4 21	11 5.58	+ 0 15.3	1.982	2.794	14.5	20.5

4065 Meinel 3 12.0 39°.33 2°.4/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.80	+ 7 3.5	1.237	2.122	15.5	17.0
2 21	11 48.54	+ 7 36.2	1.184	2.127	10.7	16.8
3 2	11 39.65	+ 8 16.4	1.153	2.133	5.5	16.5
3 12	11 29.34	+ 8 55.6	1.148	2.139	2.6	16.3
3 22	11 19.12	+ 9 25.7	1.168	2.145	7.1	16.6
4 1	11 10.46	+ 9 40.3	1.213	2.152	12.1	16.9
4 11	11 4.43	+ 9 36.3	1.279	2.159	16.6	17.2
4 21	11 1.52	+ 9 14.0	1.362	2.166	20.2	17.5

68454 2001 SS_{46} 3 12.0 201°.75 1°.8/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 51.63	+ 6 5.5	1.854	2.725	11.8	19.8
2 21	11 45.79	+ 6 52.5	1.786	2.724	8.1	19.6
3 2	11 38.08	+ 7 46.7	1.743	2.722	4.1	19.4
3 12	11 29.34	+ 8 41.6	1.729	2.720	2.0	19.2
3 22	11 20.54	+ 9 30.6	1.743	2.718	5.5	19.4
4 1	11 12.71	+10 7.9	1.785	2.715	9.5	19.7
4 11	11 6.65	+10 29.9	1.851	2.713	13.1	19.9
4 21	11 2.87	+10 35.5	1.937	2.710	16.1	20.1

520021 2013 UO_{21} 3 12.0 157°.43 0°.9/11.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.33	+ 3 34.2	2.210	3.073	10.5	21.6
2 21	11 43.93	+ 4 21.0	2.142	3.076	7.3	21.4
3 2	11 37.04	+ 5 15.9	2.101	3.079	3.6	21.2
3 12	11 29.34	+ 6 13.5	2.089	3.082	0.9	21.0
3 22	11 21.62	+ 7 8.1	2.107	3.085	4.3	21.2
4 1	11 14.69	+ 7 54.7	2.153	3.087	7.9	21.5
4 11	11 9.22	+ 8 29.3	2.225	3.089	11.1	21.7
4 21	11 5.62	+ 8 50.2	2.318	3.091	13.8	21.9

397924 2008 WL_{15} 3 12.0 192°.79 1°.1/13.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.29	− 2 46.3	2.285	3.127	11.0	21.9
2 21	11 43.91	− 2 13.3	2.207	3.126	7.9	21.7
3 2	11 37.04	− 1 27.6	2.154	3.125	4.5	21.4
3 12	11 29.34	− 0 33.2	2.131	3.123	1.2	21.2
3 22	11 21.56	+ 0 24.9	2.137	3.120	3.5	21.4
4 1	11 14.51	+ 1 21.0	2.172	3.118	7.1	21.6
4 11	11 8.86	+ 2 10.2	2.233	3.115	10.4	21.8
4 21	11 5.04	+ 2 48.9	2.318	3.112	13.2	22.0

81460 2000 GK_{133} 3 12.0 337°.75 9°.4/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.21	+25 35.1	1.536	2.414	13.4	18.9
2 21	11 48.63	+26 50.0	1.489	2.410	10.9	18.8
3 2	11 39.62	+27 51.1	1.465	2.407	9.5	18.7
3 12	11 29.35	+28 28.2	1.467	2.404	10.1	18.7
3 22	11 19.18	+28 34.6	1.492	2.401	12.4	18.8
4 1	11 10.46	+28 8.8	1.541	2.398	15.3	19.0
4 11	11 4.19	+27 13.9	1.609	2.396	18.2	19.2
4 21	11 0.82	+25 55.4	1.692	2.394	20.6	19.4

378883 2008 TN_{169} 3 12.0 88°.98 1°.5/13.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.63	− 4 5.4	2.014	2.858	12.2	21.5
2 21	11 43.55	− 3 29.0	1.946	2.865	8.9	21.3
3 2	11 36.87	− 2 37.6	1.903	2.872	5.1	21.1
3 12	11 29.34	− 1 35.5	1.888	2.879	1.7	20.9
3 22	11 21.80	− 0 28.9	1.902	2.886	3.8	21.1
4 1	11 15.11	+ 0 35.8	1.944	2.893	7.5	21.3
4 11	11 9.99	+ 1 32.6	2.012	2.900	11.0	21.5
4 21	11 6.86	+ 2 17.4	2.102	2.907	14.0	21.7

412976 1987 WC 3 12.0 155°.49 20°.3/ 3.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.29	+35 41.4	0.760	1.622	25.0	21.4
2 21	12 12.81	+38 10.1	0.741	1.638	21.8	21.3
3 2	11 52.40	+39 51.4	0.740	1.651	20.3	21.2
3 12	11 29.41	+40 20.0	0.757	1.662	21.1	21.3
3 22	11 8.02	+39 30.1	0.792	1.670	23.6	21.5
4 1	10 51.57	+37 34.7	0.844	1.676	26.9	21.8
4 11	10 41.41	+34 55.7	0.908	1.680	30.0	22.0
4 21	10 37.23	+31 52.7	0.983	1.681	32.7	22.3

406379 2007 RP_{315} 3 12.0 152°.39 2°.2/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.81	− 4 33.3	1.784	2.624	13.8	21.3
2 21	11 47.34	− 4 17.1	1.715	2.630	10.1	21.1
3 2	11 38.89	− 3 44.3	1.670	2.637	6.0	20.9
3 12	11 29.36	− 2 58.9	1.652	2.642	2.4	20.7
3 22	11 19.80	− 2 6.5	1.664	2.648	4.3	20.8
4 1	11 11.28	− 1 14.0	1.703	2.652	8.4	21.1
4 11	11 4.67	− 0 27.8	1.768	2.656	12.3	21.3
4 21	11 0.47	+ 0 7.7	1.854	2.660	15.5	21.5

386466 2008 YP_{22} 3 12.0 124°.46 1°.7/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.94	+ 6 47.0	2.561	3.426	9.2	22.0
2 21	11 43.45	+ 7 43.5	2.505	3.441	6.2	21.9
3 2	11 36.71	+ 8 44.3	2.478	3.456	3.2	21.7
3 12	11 29.35	+ 9 44.2	2.481	3.470	1.8	21.6
3 22	11 22.05	+10 38.3	2.514	3.483	4.4	21.8
4 1	11 15.47	+11 22.3	2.576	3.497	7.4	22.0
4 11	11 10.18	+11 53.7	2.664	3.510	10.1	22.2
4 21	11 6.51	+12 11.5	2.773	3.522	12.3	22.4

213110 1999 YF_{27} 3 12.1 292°.30 3°.3/ 9.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.96	+ 8 15.6	1.517	2.401	13.2	20.1
2 21	11 45.85	+ 9 24.0	1.435	2.379	9.2	19.8
3 2	11 38.36	+10 41.8	1.378	2.356	5.0	19.5
3 12	11 29.36	+11 59.7	1.347	2.334	3.7	19.3
3 22	11 20.03	+13 8.0	1.342	2.311	7.6	19.5
4 1	11 11.66	+13 58.2	1.363	2.289	12.3	19.7
4 11	11 5.39	+14 25.5	1.406	2.266	16.6	19.9
4 21	11 1.89	+14 28.8	1.466	2.244	20.2	20.1

324554 2006 WM_{82} 3 12.1 153°.82 0°.2/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 51.40	− 0 1.6	1.969	2.823	12.0	21.7
2 21	11 45.51	+ 0 41.0	1.901	2.829	8.5	21.4
3 2	11 37.90	+ 1 35.7	1.860	2.835	4.4	21.2
3 12	11 29.36	+ 2 37.1	1.847	2.840	0.3	20.9
3 22	11 20.82	+ 3 38.9	1.863	2.845	4.2	21.2
4 1	11 13.19	+ 4 34.7	1.907	2.849	8.2	21.4
4 11	11 7.24	+ 5 19.5	1.977	2.853	11.8	21.7
4 21	11 3.41	+ 5 50.4	2.069	2.857	14.7	21.9

271300 2003 UC_{318} 3 12.1 265°.15 0°.3/12.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.20	+ 0 11.5	2.138	2.991	11.2	21.8
2 21	11 44.76	+ 0 44.2	2.045	2.972	8.0	21.6
3 2	11 37.59	+ 1 28.7	1.977	2.952	4.2	21.3
3 12	11 29.36	+ 2 20.7	1.938	2.932	0.3	21.0
3 22	11 20.91	+ 3 14.6	1.929	2.911	4.0	21.2
4 1	11 13.13	+ 4 4.7	1.948	2.890	8.0	21.4
4 11	11 6.83	+ 4 45.9	1.993	2.869	11.7	21.6
4 21	11 2.54	+ 5 14.8	2.059	2.847	14.8	21.8

253243 2003 AP_{22} 3 12.1 97°.56 1°.5/13.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.70	− 4 14.3	1.979	2.817	12.7	21.0
2 21	11 46.23	− 3 33.7	1.929	2.846	9.1	20.8
3 2	11 38.17	− 2 38.5	1.905	2.873	5.2	20.6
3 12	11 29.37	− 1 33.7	1.909	2.901	1.7	20.4
3 22	11 20.73	− 0 25.7	1.943	2.927	3.8	20.6
4 1	11 13.16	+ 0 38.9	2.006	2.953	7.5	20.9
4 11	11 7.31	+ 1 34.6	2.096	2.978	10.9	21.2
4 21	11 3.55	+ 2 17.8	2.207	3.003	13.7	21.4

387174 2012 TU_{257} 3 12.1 96°.03 1°.6/10.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.50	+ 6 20.9	2.348	3.216	9.8	21.0
2 21	11 43.24	+ 7 14.0	2.294	3.230	6.7	20.9
3 2	11 36.63	+ 8 12.0	2.266	3.244	3.4	20.7
3 12	11 29.36	+ 9 9.5	2.268	3.258	1.8	20.6
3 22	11 22.15	+10 1.2	2.300	3.272	4.6	20.8
4 1	11 15.72	+10 42.9	2.360	3.285	7.8	21.0
4 11	11 10.67	+11 11.5	2.445	3.298	10.6	21.2
4 21	11 7.35	+11 26.0	2.552	3.312	13.0	21.4

360184 2013 CG_{177} 3 12.1 298°.75 13°.1/24.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.18	+29 45.4	1.325	2.210	14.7	20.0
2 21	11 45.82	+32 59.4	1.280	2.190	13.2	19.8
3 2	11 38.53	+35 57.8	1.258	2.170	13.5	19.8
3 12	11 29.37	+38 21.9	1.260	2.151	15.4	19.8
3 22	11 19.86	+39 59.0	1.284	2.132	18.2	19.9
4 1	11 11.71	+40 44.6	1.325	2.113	21.2	20.1
4 11	11 6.28	+40 42.1	1.380	2.094	23.9	20.2
4 21	11 4.26	+39 58.9	1.445	2.076	26.1	20.4

351553 2005 TB_{113} 3 12.1 122°.18 1°.1/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.45	− 2 2.5	1.478	2.335	15.1	21.8
2 21	11 48.01	− 1 30.1	1.419	2.346	10.8	21.6
3 2	11 39.30	− 0 40.5	1.383	2.356	5.9	21.3
3 12	11 29.38	+ 0 20.3	1.374	2.366	1.3	21.0
3 22	11 19.51	+ 1 24.2	1.392	2.376	4.9	21.3
4 1	11 10.95	+ 2 23.0	1.437	2.386	9.7	21.6
4 11	11 4.64	+ 3 9.8	1.506	2.395	14.0	21.9
4 21	11 1.09	+ 3 40.8	1.595	2.403	17.5	22.1

1726 Hoffmeister 3 12.1 236°.38 1°.6/13.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.33	− 3 41.2	2.022	2.866	12.2	16.8
2 21	11 44.12	− 3 13.5	1.944	2.863	8.9	16.6
3 2	11 37.23	− 2 30.9	1.891	2.860	5.1	16.4
3 12	11 29.37	− 1 37.5	1.865	2.856	1.7	16.1
3 22	11 21.42	− 0 38.8	1.869	2.853	3.8	16.3
4 1	11 14.28	+ 0 19.0	1.900	2.849	7.7	16.5
4 11	11 8.70	+ 1 9.8	1.957	2.845	11.3	16.7
4 21	11 5.16	+ 1 49.7	2.036	2.842	14.4	16.9

59781 1999 NU_{42} 3 12.1 50°.58 4°.7/16.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.24	−11 46.3	2.265	3.065	12.6	18.9
2 21	11 45.32	−12 13.3	2.189	3.070	9.9	18.7
3 2	11 37.81	−12 23.4	2.136	3.075	7.1	18.5
3 12	11 29.39	−12 17.4	2.111	3.080	5.0	18.4
3 22	11 20.88	−11 57.7	2.115	3.085	5.1	18.4
4 1	11 13.15	−11 28.6	2.146	3.090	7.3	18.5
4 11	11 6.91	−10 55.3	2.204	3.096	10.0	18.7
4 21	11 2.61	−10 23.0	2.285	3.101	12.6	18.9

173959 2001 XE_{23} 3 12.1 51°.81 0°.4/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.77	+ 3 3.7	2.085	2.947	11.1	19.7
2 21	11 44.25	+ 3 27.5	2.026	2.959	7.7	19.5
3 2	11 37.21	+ 3 59.0	1.994	2.971	3.9	19.3
3 12	11 29.39	+ 4 33.7	1.990	2.983	0.4	19.1
3 22	11 21.63	+ 5 6.7	2.015	2.996	4.1	19.4
4 1	11 14.76	+ 5 33.5	2.068	3.008	7.8	19.6
4 11	11 9.44	+ 5 50.7	2.146	3.021	11.0	19.8
4 21	11 6.07	+ 5 56.5	2.246	3.034	13.7	20.1

86556 2000 EN_{12} 3 12.1 276°.57 6°.0/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 52.84	+13 46.4	1.434	2.323	13.5	19.4
2 21	11 47.33	+15 22.7	1.359	2.302	9.7	19.1
3 2	11 39.19	+17 3.3	1.309	2.280	6.5	18.9
3 12	11 29.40	+18 36.1	1.284	2.258	6.7	18.8
3 22	11 19.25	+19 49.3	1.286	2.236	10.2	18.9
4 1	11 10.21	+20 34.9	1.312	2.213	14.5	19.1
4 11	11 3.49	+20 49.6	1.357	2.190	18.6	19.3
4 21	10 59.78	+20 35.3	1.419	2.168	22.0	19.5

462346 2008 QD_{26} 3 12.1 253°.37 1°.7/13.5 17

2 11	11 53.36	− 2 26.8	2.104	2.944	11.9	21.0
2 21	11 46.99	− 2 26.7	2.011	2.929	8.7	20.7
3 2	11 38.77	− 2 14.6	1.944	2.913	5.1	20.5
3 12	11 29.40	− 1 53.2	1.905	2.896	1.8	20.2
3 22	11 19.80	− 1 26.4	1.896	2.880	4.0	20.3
4 1	11 10.92	− 0 58.7	1.916	2.862	7.9	20.6
4 11	11 3.63	− 0 35.2	1.962	2.845	11.5	20.7
4 21	10 58.49	− 0 19.3	2.030	2.827	14.7	20.9

327746 2006 TO_{39} 3 12.1 57°.61 7°.1/ 7.1 18

2 11	11 58.09	+20 7.7	1.465	2.345	13.8	20.9
2 21	11 50.40	+20 51.7	1.428	2.361	10.2	20.7
3 2	11 40.42	+21 25.8	1.416	2.377	7.6	20.6
3 12	11 29.41	+21 41.4	1.430	2.393	7.5	20.6
3 22	11 18.78	+21 33.5	1.470	2.410	10.0	20.8
4 1	11 9.80	+21 1.2	1.534	2.427	13.4	21.0
4 11	11 3.37	+20 7.0	1.619	2.443	16.5	21.3
4 21	10 59.83	+18 55.5	1.723	2.460	19.1	21.5

459503 2013 CC_{218} 3 12.1 178°.98 2°.7/14.2 18

2 11	11 54.55	− 5 18.6	1.666	2.505	14.6	21.7
2 21	11 48.04	− 5 8.9	1.592	2.507	10.8	21.5
3 2	11 39.35	− 4 41.0	1.543	2.508	6.5	21.2
3 12	11 29.41	− 3 58.2	1.520	2.508	2.9	21.0
3 22	11 19.35	− 3 6.5	1.525	2.508	4.7	21.1
4 1	11 10.38	− 2 13.0	1.557	2.508	9.0	21.4
4 11	11 3.45	− 1 25.0	1.615	2.507	13.0	21.6
4 21	10 59.12	− 0 47.6	1.693	2.505	16.5	21.8

181794 1998 HF_{5} 3 12.1 15°.24 2°.1/14.2 18

2 11	11 47.36	− 4 59.1	1.897	2.742	12.8	20.3
2 21	11 42.79	− 4 35.3	1.827	2.745	9.4	20.1
3 2	11 36.55	− 3 55.2	1.782	2.749	5.6	19.9
3 12	11 29.40	− 3 2.8	1.763	2.753	2.3	19.7
3 22	11 22.20	− 2 3.7	1.773	2.757	3.9	19.8
4 1	11 15.87	− 1 4.7	1.809	2.762	7.7	20.0
4 11	11 11.16	− 0 12.0	1.871	2.768	11.3	20.3
4 21	11 8.50	+ 0 29.8	1.955	2.773	14.4	20.5

190328 1998 RA_{12} 3 12.1 142°.47 0°.4/12.5 18

2 11	11 52.48	− 1 41.3	1.597	2.454	14.2	20.8
2 21	11 46.55	− 0 39.9	1.534	2.463	10.0	20.5
3 2	11 38.54	+ 0 38.8	1.496	2.471	5.3	20.3
3 12	11 29.41	+ 2 7.4	1.485	2.479	0.5	19.9
3 22	11 20.29	+ 3 36.8	1.503	2.486	4.8	20.3
4 1	11 12.32	+ 4 57.9	1.548	2.492	9.5	20.6
4 11	11 6.40	+ 6 3.5	1.617	2.498	13.6	20.8
4 21	11 3.01	+ 6 50.2	1.707	2.504	17.0	21.1

354873 2006 BX_{42} 3 12.1 74°.92 5°.9/ 6.9 18

2 11	11 52.16	+13 14.9	1.328	2.221	14.1	20.7
2 21	11 46.57	+14 58.5	1.286	2.230	9.9	20.4
3 2	11 38.61	+16 42.6	1.267	2.240	6.5	20.3
3 12	11 29.41	+18 14.4	1.274	2.249	6.5	20.3
3 22	11 20.34	+19 23.4	1.307	2.259	9.9	20.5
4 1	11 12.72	+20 3.5	1.364	2.268	13.9	20.7
4 11	11 7.52	+20 13.7	1.441	2.278	17.5	21.0
4 21	11 5.18	+19 57.2	1.534	2.288	20.4	21.2

333252 2012 JO_{2} 3 12.1 359°.59 5°.5/ 7.5 18

2 11	11 51.20	+14 10.2	1.430	2.321	13.4	20.1
2 21	11 45.88	+15 17.3	1.376	2.319	9.5	19.8
3 2	11 38.27	+16 23.9	1.346	2.318	6.2	19.6
3 12	11 29.42	+17 20.0	1.341	2.318	6.0	19.6
3 22	11 20.58	+17 57.2	1.363	2.318	9.1	19.8
4 1	11 13.04	+18 10.5	1.408	2.319	13.0	20.0
4 11	11 7.75	+17 59.0	1.474	2.320	16.7	20.3
4 21	11 5.21	+17 24.8	1.557	2.322	19.7	20.5

242060 2002 SR_{31} 3 12.1 199°.05 2°.3/ 9.0 18

2 11	11 48.73	+ 8 56.3	2.551	3.420	9.1	21.0
2 21	11 43.43	+ 9 58.6	2.480	3.417	6.2	20.8
3 2	11 36.79	+11 4.6	2.437	3.414	3.4	20.6
3 12	11 29.41	+12 8.8	2.424	3.410	2.6	20.6
3 22	11 21.98	+13 6.0	2.442	3.405	5.0	20.7
4 1	11 15.21	+13 51.6	2.488	3.400	8.0	20.9
4 11	11 9.70	+14 23.0	2.559	3.395	10.8	21.1
4 21	11 5.86	+14 39.3	2.652	3.389	13.1	21.2

246419 2007 VH_{31} 3 12.1 260°.68 2°.4/ 9.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 51.98	+ 9 54.8	2.162	3.032	10.4	20.1
2 21	11 45.84	+10 21.9	2.093	3.030	7.2	19.9
3 2	11 38.07	+10 51.1	2.051	3.028	3.9	19.7
3 12	11 29.42	+11 17.2	2.038	3.025	2.6	19.6
3 22	11 20.76	+11 35.8	2.054	3.023	5.4	19.8
4 1	11 12.94	+11 43.2	2.098	3.020	8.8	20.0
4 11	11 6.71	+11 37.5	2.167	3.018	11.9	20.2
4 21	11 2.50	+11 18.7	2.257	3.015	14.5	20.4

164592 2761 $P–L$ 3 12.1 175°.07 0°.1/12.2 18

2 11	11 52.32	− 0 17.5	2.069	2.918	11.7	20.8
2 21	11 46.14	+ 0 35.3	1.996	2.922	8.2	20.6
3 2	11 38.25	+ 1 40.6	1.950	2.925	4.3	20.4
3 12	11 29.43	+ 2 52.8	1.933	2.927	0.2	20.0
3 22	11 20.56	+ 4 5.4	1.946	2.928	4.1	20.4
4 1	11 12.56	+ 5 11.6	1.989	2.928	8.1	20.6
4 11	11 6.18	+ 6 6.2	2.057	2.927	11.6	20.8
4 21	11 1.89	+ 6 46.2	2.147	2.926	14.6	21.0

58934 1998 OK_{13} 3 12.1 93°.24 3°.0/ 9.5 18

2 11	11 52.80	+ 6 31.0	1.343	2.227	14.6	18.7
2 21	11 46.97	+ 7 54.2	1.295	2.239	10.0	18.5
3 2	11 38.81	+ 9 26.5	1.272	2.251	5.2	18.2
3 12	11 29.43	+10 56.7	1.274	2.263	3.3	18.1
3 22	11 20.18	+12 14.3	1.303	2.275	7.4	18.4
4 1	11 12.36	+13 11.0	1.358	2.286	12.0	18.7
4 11	11 6.91	+13 43.3	1.434	2.298	16.1	19.0
4 21	11 4.28	+13 51.4	1.527	2.309	19.4	19.2

112163 2002 JZ_{79} 3 12.1 128°.99 3°.7/15.6 18

2 11	11 52.02	− 9 29.9	1.736	2.561	14.8	19.8
2 21	11 46.15	− 9 5.7	1.669	2.571	11.2	19.6
3 2	11 38.32	− 8 19.3	1.625	2.581	7.3	19.3
3 12	11 29.43	− 7 14.5	1.607	2.591	4.0	19.2
3 22	11 20.54	− 5 57.7	1.618	2.600	4.7	19.2
4 1	11 12.70	− 4 37.4	1.656	2.608	8.4	19.5
4 11	11 6.78	− 3 21.9	1.720	2.617	12.1	19.7
4 21	11 3.25	− 2 17.5	1.805	2.624	15.4	19.9

43471 2001 AH_{32} 3 12.1 340°.77 3°.4/14.8 18 R

2 11	11 51.42	− 6 6.7	1.693	2.534	14.3	18.9
2 21	11 45.89	− 6 20.3	1.616	2.529	10.8	18.6
3 2	11 38.28	− 6 16.7	1.562	2.524	6.9	18.4
3 12	11 29.44	− 5 57.8	1.535	2.520	3.7	18.2
3 22	11 20.44	− 5 27.8	1.534	2.517	4.8	18.2
4 1	11 12.41	− 4 52.8	1.561	2.514	8.7	18.5
4 11	11 6.29	− 4 19.2	1.611	2.511	12.6	18.7
4 21	11 2.64	− 3 52.5	1.683	2.508	16.0	18.9

117976 1158 $T\text{-}_{1}$ 3 12.1 290°.85 0°.7/11.6 18

2 11	11 54.05	+ 3 46.8	1.522	2.393	14.0	19.3
2 21	11 47.92	+ 4 3.1	1.446	2.383	9.8	19.0
3 2	11 39.41	+ 4 29.4	1.394	2.372	5.0	18.7
3 12	11 29.45	+ 5 0.1	1.368	2.362	0.7	18.4
3 22	11 19.30	+ 5 28.7	1.370	2.351	5.5	18.7
4 1	11 10.24	+ 5 49.2	1.397	2.341	10.5	18.9
4 11	11 3.38	+ 5 57.0	1.448	2.331	14.9	19.2
4 21	10 59.30	+ 5 50.0	1.518	2.321	18.6	19.4

269724 1998 RP_{23} 3 12.1 227°.91 0°.9/13.1 18

2 11	11 51.39	− 1 19.9	2.598	3.436	10.0	21.5
2 21	11 45.33	− 1 3.2	2.505	3.423	7.2	21.3
3 2	11 37.82	− 0 36.8	2.439	3.410	4.0	21.1
3 12	11 29.45	− 0 3.5	2.403	3.396	1.0	20.8
3 22	11 20.93	+ 0 32.9	2.398	3.381	3.3	21.0
4 1	11 13.00	+ 1 8.1	2.423	3.366	6.7	21.2
4 11	11 6.34	+ 1 38.2	2.475	3.350	9.7	21.3
4 21	11 1.38	+ 2 0.3	2.551	3.333	12.4	21.5

522592 2016 EO_{247} 3 12.1 100°.07 1°.6/13.9 18

2 11	11 49.17	− 5 32.4	1.922	2.762	12.9	21.4
2 21	11 43.97	− 4 34.4	1.860	2.777	9.4	21.2
3 2	11 37.13	− 3 18.7	1.824	2.792	5.4	21.0
3 12	11 29.44	− 1 51.2	1.815	2.806	1.8	20.8
3 22	11 21.80	− 0 19.3	1.836	2.820	3.9	20.9
4 1	11 15.11	+ 1 9.1	1.885	2.834	7.7	21.2
4 11	11 10.06	+ 2 26.8	1.960	2.848	11.3	21.4
4 21	11 7.08	+ 3 29.6	2.057	2.861	14.3	21.7

137168 1999 GK_{3} 3 12.1 269°.80 1°.0/11.0 17

2 11	11 49.93	+ 4 56.2	2.242	3.106	10.4	20.4
2 21	11 44.45	+ 5 26.0	2.161	3.096	7.2	20.2
3 2	11 37.40	+ 6 2.3	2.107	3.085	3.6	19.9
3 12	11 29.45	+ 6 40.7	2.082	3.074	1.1	19.7
3 22	11 21.38	+ 7 16.2	2.086	3.064	4.4	19.9
4 1	11 14.04	+ 7 44.4	2.119	3.053	8.0	20.1
4 11	11 8.13	+ 8 1.8	2.177	3.042	11.3	20.3
4 21	11 4.12	+ 8 6.8	2.256	3.031	14.1	20.5

148741 2001 TT_{118} 3 12.1 158°.01 4°.7/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 52.79	−13 32.4	2.317	3.103	12.8	20.5
2 21	11 46.39	−13 39.4	2.238	3.111	10.1	20.4
3 2	11 38.37	−13 27.5	2.184	3.118	7.3	20.2
3 12	11 29.46	−12 58.1	2.158	3.124	5.1	20.1
3 22	11 20.48	−12 14.3	2.160	3.130	5.1	20.1
4 1	11 12.29	−11 21.1	2.192	3.135	7.2	20.2
4 11	11 5.61	−10 25.0	2.250	3.139	10.0	20.4
4 21	11 0.90	− 9 31.5	2.332	3.143	12.6	20.6

102121 1999 RL_{174} 3 12.1 273°.47 1°.3/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.98	+ 3 51.8	1.603	2.475	13.3	20.3
2 21	11 46.48	+ 4 41.5	1.518	2.456	9.3	20.0
3 2	11 38.69	+ 5 43.7	1.459	2.438	4.7	19.7
3 12	11 29.47	+ 6 51.2	1.426	2.419	1.4	19.4
3 22	11 19.94	+ 7 55.8	1.421	2.400	5.9	19.6
4 1	11 11.36	+ 8 49.3	1.443	2.380	10.7	19.9
4 11	11 4.78	+ 9 25.9	1.487	2.361	15.1	20.1
4 21	11 0.85	+ 9 43.0	1.551	2.341	18.8	20.3

425156 2009 SA_{352} 3 12.1 179°.77 8°.9/20.6 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 58.20	−25 12.8	2.406	3.105	14.6	21.8
2 21	11 50.40	−26 20.9	2.319	3.107	12.8	21.6
3 2	11 40.57	−27 6.0	2.253	3.108	10.9	21.5
3 12	11 29.48	−27 25.4	2.212	3.108	9.4	21.4
3 22	11 18.09	−27 18.8	2.199	3.108	9.0	21.4
4 1	11 7.44	−26 49.2	2.212	3.107	9.7	21.4
4 11	10 58.46	−26 2.9	2.252	3.105	11.4	21.5
4 21	10 51.75	−25 7.6	2.314	3.103	13.3	21.7

189459 1999 RC_{85} 3 12.1 133°.77 0°.2/12.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.50	+ 0 4.9	2.399	3.247	10.4	21.7
2 21	11 44.64	+ 0 43.7	2.336	3.260	7.3	21.5
3 2	11 37.40	+ 1 32.1	2.299	3.274	3.8	21.3
3 12	11 29.46	+ 2 25.5	2.293	3.286	0.3	21.1
3 22	11 21.56	+ 3 19.1	2.317	3.299	3.5	21.4
4 1	11 14.44	+ 4 7.9	2.370	3.310	6.9	21.6
4 11	11 8.71	+ 4 48.0	2.450	3.321	10.0	21.8
4 21	11 4.74	+ 5 16.9	2.553	3.332	12.5	22.0

265651 2005 TC_{121} 3 12.1 158°.90 1°.1/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.80	+ 4 21.8	1.945	2.811	11.6	21.7
2 21	11 45.84	+ 5 2.9	1.879	2.814	8.0	21.5
3 2	11 38.13	+ 5 52.0	1.839	2.817	4.0	21.2
3 12	11 29.47	+ 6 43.3	1.828	2.820	1.2	21.0
3 22	11 20.79	+ 7 30.8	1.845	2.823	4.8	21.3
4 1	11 13.05	+ 8 9.0	1.891	2.825	8.8	21.5
4 11	11 7.02	+ 8 34.2	1.961	2.827	12.3	21.8
4 21	11 3.15	+ 8 44.6	2.052	2.829	15.2	22.0

134420 1998 OA_{15} 3 12.1 189°.08 1°.1/13.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.40	− 1 25.8	1.931	2.778	12.5	19.9
2 21	11 47.03	− 1 7.8	1.855	2.778	9.0	19.7
3 2	11 38.78	− 0 37.1	1.805	2.777	5.0	19.4
3 12	11 29.48	+ 0 2.5	1.783	2.775	1.2	19.1
3 22	11 20.08	+ 0 45.5	1.790	2.773	4.1	19.4
4 1	11 11.59	+ 1 26.3	1.825	2.771	8.2	19.6
4 11	11 4.86	+ 1 59.5	1.886	2.768	12.0	19.8
4 21	11 0.39	+ 2 21.9	1.969	2.765	15.1	20.0

274913 2009 SZ_{138} 3 12.1 63°.86 3°.0/15.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.06	− 8 4.6	1.762	2.596	14.2	20.5
2 21	11 44.04	− 7 33.3	1.699	2.608	10.6	20.3
3 2	11 37.22	− 6 41.6	1.659	2.620	6.7	20.1
3 12	11 29.46	− 5 33.8	1.647	2.633	3.3	19.9
3 22	11 21.73	− 4 16.6	1.662	2.645	4.3	20.0
4 1	11 15.00	− 2 58.1	1.704	2.658	8.0	20.2
4 11	11 10.06	− 1 46.2	1.772	2.671	11.7	20.5
4 21	11 7.33	− 0 46.4	1.862	2.684	14.9	20.7

227497 2005 XF_{75} 3 12.1 97°.53 1°.6/13.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.59	− 2 50.3	1.867	2.714	12.9	21.0
2 21	11 45.75	− 2 36.2	1.799	2.720	9.3	20.8
3 2	11 38.11	− 2 8.0	1.756	2.726	5.3	20.5
3 12	11 29.47	− 1 29.6	1.741	2.732	1.8	20.3
3 22	11 20.82	− 0 46.4	1.754	2.738	4.1	20.5
4 1	11 13.13	− 0 4.1	1.795	2.744	8.1	20.7
4 11	11 7.20	+ 0 31.5	1.861	2.750	11.7	21.0
4 21	11 3.49	+ 0 56.9	1.948	2.755	14.9	21.2

413251 2003 SJ_{319} 3 12.1 230°.43 1°.1/11.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.56	+ 4 1.0	1.917	2.780	11.9	22.8
2 21	11 47.25	+ 4 44.5	1.834	2.767	8.3	22.5
3 2	11 38.96	+ 5 37.6	1.777	2.754	4.2	22.2
3 12	11 29.48	+ 6 34.4	1.748	2.741	1.2	22.0
3 22	11 19.80	+ 7 28.3	1.749	2.726	5.1	22.2
4 1	11 10.98	+ 8 13.0	1.777	2.711	9.3	22.4
4 11	11 3.91	+ 8 44.1	1.831	2.695	13.1	22.6
4 21	10 59.16	+ 8 59.3	1.905	2.678	16.3	22.8

207383 2005 QT_{123} 3 12.1 348°.31 0°.2/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 47.02	+ 1 8.5	2.225	3.085	10.6	20.0
2 21	11 42.40	+ 1 54.4	2.153	3.084	7.4	19.7
3 2	11 36.33	+ 2 50.4	2.106	3.083	3.8	19.5
3 12	11 29.46	+ 3 51.7	2.088	3.082	0.2	19.2
3 22	11 22.54	+ 4 52.5	2.100	3.081	3.9	19.5
4 1	11 16.35	+ 5 47.3	2.139	3.080	7.5	19.7
4 11	11 11.53	+ 6 31.6	2.205	3.080	10.8	19.9
4 21	11 8.50	+ 7 2.7	2.292	3.079	13.5	20.1

83729 2001 TG_{111} 3 12.1 75°.00 1°.7/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.72	+ 7 31.8	2.215	3.084	10.3	19.2
2 21	11 44.93	+ 7 59.7	2.149	3.086	7.1	19.0
3 2	11 37.61	+ 8 31.7	2.110	3.088	3.6	18.8
3 12	11 29.47	+ 9 2.9	2.099	3.090	1.8	18.7
3 22	11 21.34	+ 9 28.6	2.118	3.092	4.8	18.9
4 1	11 14.03	+ 9 45.0	2.165	3.094	8.2	19.1
4 11	11 8.22	+ 9 49.8	2.238	3.096	11.3	19.3
4 21	11 4.33	+ 9 42.2	2.331	3.098	13.9	19.5

402903 2007 TH_{38} 3 12.1 248°.72 2°.1/10.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.23	+ 6 50.6	1.654	2.525	13.0	21.6
2 21	11 48.66	+ 7 25.8	1.575	2.513	9.1	21.3
3 2	11 39.77	+ 8 8.2	1.521	2.499	4.7	21.0
3 12	11 29.49	+ 8 51.1	1.495	2.485	2.2	20.8
3 22	11 18.99	+ 9 27.4	1.496	2.471	6.1	21.0
4 1	11 9.52	+ 9 51.3	1.525	2.457	10.7	21.2
4 11	11 2.13	+ 9 59.1	1.577	2.442	14.8	21.5
4 21	10 57.42	+ 9 49.7	1.648	2.426	18.3	21.7

221984 1996 XU_{21} 3 12.1 54°.81 2°.2/10.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.01	+ 7 10.7	1.758	2.634	12.1	20.6
2 21	11 45.41	+ 7 57.5	1.698	2.638	8.3	20.3
3 2	11 37.94	+ 8 50.3	1.664	2.643	4.3	20.1
3 12	11 29.48	+ 9 42.1	1.658	2.648	2.4	20.0
3 22	11 21.05	+10 26.4	1.680	2.653	5.8	20.2
4 1	11 13.65	+10 57.6	1.728	2.658	9.8	20.4
4 11	11 8.11	+11 12.6	1.800	2.663	13.4	20.7
4 21	11 4.86	+11 10.8	1.892	2.668	16.3	20.9

378849 2008 TW_{23} 3 12.1 194°.60 0°.2/12.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.99	+ 1 4.9	2.132	2.987	11.2	21.6
2 21	11 45.21	+ 1 31.1	2.057	2.986	7.9	21.4
3 2	11 37.80	+ 2 7.0	2.009	2.984	4.1	21.2
3 12	11 29.49	+ 2 48.5	1.989	2.983	0.2	20.8
3 22	11 21.11	+ 3 30.4	1.999	2.981	3.9	21.1
4 1	11 13.53	+ 4 7.8	2.037	2.979	7.8	21.4
4 11	11 7.50	+ 4 36.3	2.101	2.976	11.2	21.6
4 21	11 3.45	+ 4 53.3	2.186	2.974	14.1	21.8

231156 2005 UF_{61} 3 12.1 107°.63 4°.3/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.58	+11 1.0	1.457	2.339	13.8	20.4
2 21	11 48.75	+12 14.3	1.414	2.355	9.5	20.1
3 2	11 39.68	+13 29.7	1.395	2.371	5.5	19.9
3 12	11 29.50	+14 37.0	1.404	2.386	4.7	19.9
3 22	11 19.53	+15 27.8	1.439	2.401	8.0	20.2
4 1	11 11.01	+15 56.7	1.500	2.415	12.1	20.4
4 11	11 4.85	+16 2.5	1.583	2.429	15.7	20.7
4 21	11 1.46	+15 46.8	1.683	2.442	18.7	20.9

231685 1996 GL_{5} 3 12.1 13°.91 0°.5/11.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.30	+ 1 46.5	1.955	2.820	11.6	20.2
2 21	11 43.44	+ 2 40.9	1.886	2.820	8.1	20.0
3 2	11 36.92	+ 3 46.5	1.843	2.820	4.1	19.7
3 12	11 29.48	+ 4 57.2	1.827	2.821	0.6	19.5
3 22	11 22.00	+ 6 6.3	1.841	2.821	4.5	19.8
4 1	11 15.37	+ 7 7.0	1.882	2.822	8.5	20.0
4 11	11 10.32	+ 7 54.4	1.948	2.822	12.0	20.2
4 21	11 7.30	+ 8 25.9	2.036	2.823	15.0	20.4

453304 2008 UZ_{223} 3 12.1 348°.31 18°.8/ 2.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 47.41	−40 15.0	1.337	1.994	26.1	20.4
2 21	11 44.17	−41 43.0	1.263	1.988	24.5	20.2
3 2	11 37.84	−42 23.7	1.200	1.982	22.8	20.1
3 12	11 29.48	−42 7.6	1.150	1.978	21.0	19.9
3 22	11 20.67	−40 50.6	1.115	1.975	19.5	19.8
4 1	11 13.24	−38 36.0	1.096	1.972	18.8	19.7
4 11	11 8.73	−35 36.6	1.097	1.971	19.2	19.7
4 21	11 7.90	−32 10.9	1.116	1.970	20.6	19.8

452393 2002 PB_{88} 3 12.1 215°.29 0°.2/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.16	+ 0 34.7	1.714	2.572	13.3	22.1
2 21	11 47.83	+ 1 27.1	1.634	2.564	9.4	21.8
3 2	11 39.33	+ 2 34.3	1.579	2.555	4.9	21.5
3 12	11 29.51	+ 3 49.9	1.551	2.545	0.2	21.1
3 22	11 19.48	+ 5 5.8	1.553	2.534	5.0	21.5
4 1	11 10.43	+ 6 13.8	1.582	2.522	9.7	21.7
4 11	11 3.34	+ 7 7.4	1.637	2.510	13.9	22.0
4 21	10 58.80	+ 7 43.2	1.711	2.496	17.5	22.2

73352 2002 JM_{134} 3 12.1 137°.07 2°.5/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 54.67	+ 8 9.3	1.824	2.694	12.0	20.3
2 21	11 47.85	+ 8 59.7	1.769	2.706	8.3	20.1
3 2	11 39.16	+ 9 54.5	1.739	2.717	4.3	19.9
3 12	11 29.51	+10 46.9	1.739	2.727	2.7	19.8
3 22	11 19.94	+11 30.1	1.767	2.737	6.0	20.0
4 1	11 11.50	+11 59.4	1.823	2.746	9.8	20.2
4 11	11 4.98	+12 12.2	1.903	2.755	13.2	20.5
4 21	11 0.82	+12 8.3	2.004	2.763	16.1	20.7

240007 2001 TQ_{47} 3 12.1 192°.82 1°.1/10.7 17

2 11	11 47.26	+ 3 42.4	2.380	3.243	9.9	20.7
2 21	11 42.50	+ 4 45.3	2.308	3.243	6.8	20.5
3 2	11 36.37	+ 5 56.5	2.264	3.242	3.4	20.3
3 12	11 29.49	+ 7 10.3	2.249	3.241	1.2	20.1
3 22	11 22.56	+ 8 20.7	2.264	3.240	4.3	20.3
4 1	11 16.31	+ 9 22.4	2.308	3.238	7.6	20.5
4 11	11 11.37	+10 11.3	2.377	3.237	10.7	20.7
4 21	11 8.12	+10 45.3	2.469	3.235	13.2	20.9

83350 2001 RZ_{146} 3 12.1 272°.85 3°.5/ 7.9 17

2 11	11 47.86	+11 7.4	2.167	3.046	10.0	19.2
2 21	11 43.07	+12 24.0	2.098	3.039	6.9	19.0
3 2	11 36.72	+13 43.8	2.057	3.032	4.1	18.8
3 12	11 29.49	+14 59.6	2.044	3.024	3.8	18.8
3 22	11 22.19	+16 4.8	2.061	3.017	6.4	19.0
4 1	11 15.64	+16 54.1	2.104	3.010	9.6	19.1
4 11	11 10.54	+17 24.7	2.171	3.002	12.6	19.3
4 21	11 7.35	+17 36.1	2.258	2.995	15.1	19.5

461454 2002 PD_{28} 3 12.1 271°.07 2°.1/13.7 17

2 11	11 53.10	− 3 39.8	1.731	2.577	13.8	21.8
2 21	11 47.22	− 3 29.4	1.636	2.556	10.2	21.6
3 2	11 39.10	− 3 2.3	1.565	2.534	6.0	21.3
3 12	11 29.52	− 2 21.7	1.521	2.511	2.2	21.0
3 22	11 19.55	− 1 32.8	1.505	2.489	4.6	21.1
4 1	11 10.39	− 0 42.5	1.516	2.466	9.2	21.3
4 11	11 3.10	+ 0 2.1	1.552	2.442	13.5	21.5
4 21	10 58.38	+ 0 35.8	1.608	2.419	17.3	21.7

285891 2001 PC_{58} 3 12.1 165°.38 2°.5/10.0 18

2 11	11 55.65	+ 9 19.6	1.850	2.720	11.9	20.2
2 21	11 48.59	+ 9 44.3	1.786	2.723	8.2	20.0
3 2	11 39.58	+10 11.7	1.748	2.725	4.4	19.8
3 12	11 29.52	+10 36.0	1.738	2.726	2.6	19.7
3 22	11 19.48	+10 52.0	1.757	2.728	5.9	19.9
4 1	11 10.53	+10 55.8	1.804	2.729	9.7	20.1
4 11	11 3.51	+10 45.7	1.875	2.730	13.3	20.3
4 21	10 58.89	+10 21.5	1.966	2.731	16.2	20.5

159086 2004 TG_{275} 3 12.1 204°.37 2°.5/ 9.6 18

2 11	11 51.77	+ 9 3.0	2.110	2.981	10.6	20.3
2 21	11 45.77	+ 9 46.4	2.041	2.979	7.3	20.1
3 2	11 38.10	+10 33.4	1.999	2.976	3.9	19.8
3 12	11 29.51	+11 18.2	1.985	2.972	2.7	19.7
3 22	11 20.88	+11 55.2	2.001	2.969	5.6	19.9
4 1	11 13.10	+12 20.0	2.045	2.965	9.0	20.1
4 11	11 6.92	+12 30.1	2.113	2.961	12.2	20.3
4 21	11 2.79	+12 25.0	2.202	2.957	14.9	20.5

376861 2001 TH_{7} 3 12.1 180°.59 2°.9/ 8.5 15

2 11	11 52.45	+11 42.8	2.605	3.471	9.0	22.8
2 21	11 45.98	+12 39.1	2.539	3.473	6.3	22.6
3 2	11 38.12	+13 36.6	2.501	3.474	3.7	22.4
3 12	11 29.51	+14 29.6	2.494	3.474	3.2	22.4
3 22	11 20.89	+15 13.5	2.518	3.474	5.4	22.6
4 1	11 12.99	+15 44.6	2.571	3.472	8.3	22.7
4 11	11 6.44	+16 1.0	2.649	3.470	10.9	22.9
4 21	11 1.64	+16 2.6	2.748	3.467	13.1	23.1

130737 2000 SU_{241} 3 12.1 113°.50 3°.3/ 9.3 18

2 11	11 54.95	+ 9 27.2	1.585	2.462	13.1	20.1
2 21	11 48.23	+10 25.6	1.535	2.476	9.0	19.9
3 2	11 39.40	+11 27.7	1.512	2.489	4.9	19.7
3 12	11 29.52	+12 25.0	1.515	2.501	3.6	19.6
3 22	11 19.79	+13 9.9	1.546	2.513	7.0	19.9
4 1	11 11.36	+13 37.1	1.604	2.525	11.0	20.1
4 11	11 5.11	+13 44.8	1.684	2.537	14.7	20.4
4 21	11 1.46	+13 33.4	1.784	2.548	17.6	20.6

508302 2015 KJ_{46} 3 12.1 284°.24 2°.3/ 9.3 17

2 11	11 47.84	+ 8 49.1	2.353	3.227	9.6	21.3
2 21	11 42.96	+ 9 41.5	2.278	3.217	6.6	21.1
3 2	11 36.64	+10 38.0	2.229	3.206	3.5	20.9
3 12	11 29.50	+11 33.1	2.210	3.196	2.5	20.8
3 22	11 22.28	+12 21.4	2.220	3.186	5.2	21.0
4 1	11 15.73	+12 58.4	2.257	3.176	8.4	21.2
4 11	11 10.51	+13 21.1	2.320	3.166	11.4	21.3
4 21	11 7.06	+13 28.7	2.403	3.156	13.9	21.5

207401 2006 BE_{62} 3 12.1 338°.13 6°.8/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 53.23	+16 0.1	1.330	2.222	14.1	20.2
2 21	11 47.50	+17 26.8	1.278	2.220	10.2	19.9
3 2	11 39.22	+18 51.3	1.249	2.218	7.2	19.7
3 12	11 29.52	+20 1.5	1.246	2.216	7.4	19.7
3 22	11 19.83	+20 47.7	1.268	2.215	10.6	19.9
4 1	11 11.57	+21 4.4	1.313	2.214	14.6	20.1
4 11	11 5.81	+20 51.6	1.378	2.213	18.3	20.4
4 21	11 3.06	+20 12.8	1.458	2.212	21.3	20.6

274364 2008 RP_{71} 3 12.1 66°.19 1°.9/ 9.9 18

2 11	11 47.86	+ 4 11.5	1.839	2.712	11.8	20.5
2 21	11 43.22	+ 5 40.0	1.775	2.714	8.1	20.3
3 2	11 36.84	+ 7 19.3	1.737	2.716	4.0	20.0
3 12	11 29.51	+ 9 0.8	1.727	2.718	2.1	19.9
3 22	11 22.14	+10 35.7	1.746	2.719	5.7	20.1
4 1	11 15.67	+11 56.3	1.793	2.721	9.6	20.4
4 11	11 10.87	+12 57.3	1.864	2.723	13.2	20.6
4 21	11 8.18	+13 37.0	1.955	2.725	16.1	20.8

81280 2000 FK_{57} 3 12.1 289°.95 3°.3/ 8.9 18

2 11	11 49.88	+ 8 20.6	1.631	2.513	12.5	19.8
2 21	11 44.97	+ 9 36.5	1.553	2.496	8.7	19.5
3 2	11 37.91	+11 1.0	1.500	2.478	4.7	19.3
3 12	11 29.52	+12 25.2	1.474	2.460	3.7	19.1
3 22	11 20.90	+13 39.4	1.476	2.443	7.3	19.3
4 1	11 13.21	+14 35.9	1.503	2.425	11.6	19.5
4 11	11 7.45	+15 10.0	1.553	2.408	15.6	19.7
4 21	11 4.22	+15 20.8	1.621	2.390	18.9	19.9

69853 1998 SP_{53} 3 12.1 164°.04 1°.4/13.7 18 R

2 11	11 50.47	− 3 15.3	2.375	3.211	10.9	19.1
2 21	11 44.72	− 2 55.5	2.300	3.215	7.9	18.9
3 2	11 37.52	− 2 23.9	2.251	3.219	4.5	18.7
3 12	11 29.52	− 1 43.7	2.231	3.222	1.6	18.5
3 22	11 21.49	− 0 59.2	2.241	3.225	3.4	18.6
4 1	11 14.19	− 0 15.4	2.281	3.227	6.8	18.8
4 11	11 8.27	+ 0 23.3	2.347	3.229	9.9	19.0
4 21	11 4.15	+ 0 53.5	2.436	3.231	12.6	19.2

266420 2007 GL_{10} 3 12.1 285°.57 0°.8/11.2 17

2 11	11 47.85	+ 1 9.0	1.815	2.682	12.3	20.4
2 21	11 43.39	+ 2 27.3	1.728	2.663	8.6	20.1
3 2	11 37.03	+ 4 1.5	1.667	2.645	4.3	19.8
3 12	11 29.52	+ 5 44.2	1.634	2.627	0.9	19.5
3 22	11 21.78	+ 7 26.4	1.630	2.609	5.2	19.8
4 1	11 14.81	+ 8 59.0	1.653	2.590	9.6	20.0
4 11	11 9.51	+10 14.8	1.701	2.572	13.6	20.2
4 21	11 6.44	+11 9.8	1.769	2.554	17.0	20.4

477666 2010 OG_{14} 3 12.1 141°.16 2°.3/15.5 18

2 11	11 46.01	− 8 19.6	2.991	3.804	9.5	21.7
2 21	11 41.43	− 7 55.0	2.912	3.809	7.2	21.6
3 2	11 35.77	− 7 17.8	2.859	3.813	4.6	21.4
3 12	11 29.52	− 6 30.5	2.835	3.818	2.5	21.2
3 22	11 23.25	− 5 36.4	2.841	3.822	3.0	21.3
4 1	11 17.52	− 4 40.0	2.877	3.827	5.4	21.4
4 11	11 12.82	− 3 45.4	2.941	3.831	7.9	21.6
4 21	11 9.49	− 2 56.4	3.030	3.835	10.1	21.8

214275 2005 GK_{63} 3 12.1 324°.54 9°.0/ 5.5 18

2 11	11 57.23	+23 9.2	1.394	2.276	14.3	19.4
2 21	11 50.30	+24 10.3	1.341	2.269	11.2	19.2
3 2	11 40.67	+24 59.5	1.310	2.262	9.1	19.1
3 12	11 29.57	+25 25.8	1.304	2.256	9.5	19.1
3 22	11 18.52	+25 22.1	1.323	2.250	12.2	19.2
4 1	11 9.03	+24 46.6	1.364	2.244	15.6	19.4
4 11	11 2.22	+23 42.4	1.425	2.239	18.8	19.6
4 21	10 58.59	+22 15.2	1.503	2.234	21.7	19.8

298900 2004 TR_{56} 3 12.1 50°.54 2°.5/14.1 18

2 11	11 51.05	− 5 18.9	1.264	2.124	17.0	20.0
2 21	11 45.92	− 4 46.4	1.210	2.135	12.4	19.8
3 2	11 38.38	− 3 50.2	1.177	2.147	7.3	19.5
3 12	11 29.56	− 2 36.7	1.169	2.160	2.7	19.3
3 22	11 20.80	− 1 15.4	1.186	2.172	5.1	19.5
4 1	11 13.44	+ 0 2.9	1.229	2.185	10.1	19.8
4 11	11 8.50	+ 1 8.9	1.294	2.199	14.7	20.1
4 21	11 6.43	+ 1 57.1	1.379	2.212	18.5	20.4

245188 2004 TD_{273} 3 12.1 302°.15 0°.5/12.4 18

2 11	11 52.65	+ 0 30.2	1.350	2.221	15.4	20.4
2 21	11 47.25	+ 0 48.7	1.272	2.207	11.0	20.1
3 2	11 39.23	+ 1 22.9	1.217	2.194	5.9	19.8
3 12	11 29.57	+ 2 7.5	1.187	2.181	0.6	19.4
3 22	11 19.61	+ 2 54.7	1.183	2.167	5.5	19.7
4 1	11 10.79	+ 3 36.5	1.204	2.155	11.0	20.0
4 11	11 4.32	+ 4 5.7	1.247	2.142	15.9	20.2
4 21	11 0.89	+ 4 18.6	1.309	2.130	20.0	20.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
283170 2009 ER_4			3 12.1 305°.87		1°.8/ 9.9 17	
	h m	° ′			°	m
2 11	11 46.17	+ 4 16.7	2.029	2.902	10.9	19.8
2 21	11 42.10	+ 5 41.3	1.937	2.876	7.5	19.6
3 2	11 36.35	+ 7 18.3	1.872	2.851	3.8	19.3
3 12	11 29.54	+ 9 0.2	1.835	2.826	2.0	19.1
3 22	11 22.50	+10 38.9	1.828	2.800	5.5	19.3
4 1	11 16.10	+12 6.2	1.848	2.775	9.4	19.5
4 11	11 11.16	+13 16.0	1.893	2.751	13.1	19.6
4 21	11 8.21	+14 5.5	1.959	2.726	16.1	19.8
28021 1998 BP_6			3 12.1 63°.35		5°.8/ 5.8 18	
2 11	11 50.94	+18 21.6	1.923	2.804	11.0	17.9
2 21	11 45.14	+19 43.1	1.894	2.828	8.0	17.8
3 2	11 37.72	+20 58.3	1.892	2.852	6.0	17.7
3 12	11 29.56	+21 59.4	1.918	2.877	6.3	17.8
3 22	11 21.62	+22 40.6	1.971	2.901	8.5	18.0
4 1	11 14.79	+22 59.4	2.049	2.925	11.2	18.2
4 11	11 9.74	+22 56.0	2.149	2.950	13.8	18.4
4 21	11 6.82	+22 33.0	2.268	2.974	15.8	18.6
425080 2009 RB_{71}			3 12.1 134°.96		1°.4/10.8 17	
2 11	11 51.76	+ 5 1.4	1.842	2.711	12.0	21.6
2 21	11 45.92	+ 5 41.9	1.777	2.714	8.3	21.4
3 2	11 38.24	+ 6 30.3	1.739	2.717	4.2	21.1
3 12	11 29.57	+ 7 20.2	1.728	2.720	1.5	21.0
3 22	11 20.89	+ 8 5.5	1.746	2.723	5.1	21.2
4 1	11 13.19	+ 8 40.6	1.791	2.726	9.2	21.5
4 11	11 7.29	+ 9 1.7	1.861	2.728	12.8	21.7
4 21	11 3.63	+ 9 7.4	1.951	2.731	15.8	21.9
262984 2007 EX_{43}			3 12.1 27°.74		0°.9/11.5 18	
2 11	11 54.96	+ 5 19.2	1.368	2.246	14.8	19.8
2 21	11 48.48	+ 5 16.4	1.316	2.256	10.3	19.5
3 2	11 39.64	+ 5 21.0	1.287	2.266	5.2	19.3
3 12	11 29.58	+ 5 27.5	1.285	2.278	0.9	19.0
3 22	11 19.66	+ 5 30.8	1.308	2.290	5.6	19.3
4 1	11 11.20	+ 5 26.1	1.358	2.303	10.5	19.6
4 11	11 5.15	+ 5 10.6	1.429	2.317	14.7	19.9
4 21	11 1.96	+ 4 43.4	1.521	2.331	18.2	20.2
47814 2000 ED_{85}			3 12.1 343°.18		3°.6/16.2 18	
2 11	11 47.72	−10 39.3	2.042	2.859	13.2	18.6
2 21	11 43.06	−10 11.9	1.963	2.859	10.1	18.4
3 2	11 36.77	− 9 23.9	1.906	2.858	6.8	18.2
3 12	11 29.56	− 8 18.4	1.877	2.857	4.0	18.0
3 22	11 22.26	− 7 0.8	1.876	2.857	4.4	18.0
4 1	11 15.75	− 5 38.1	1.903	2.857	7.4	18.2
4 11	11 10.77	− 4 18.1	1.957	2.856	10.7	18.4
4 21	11 7.77	− 3 7.0	2.033	2.856	13.7	18.6
232935 2005 AX_{82}			3 12.1 109°.30		4°.0/15.9 17	
2 11	11 53.26	− 9 51.5	2.195	3.003	12.7	20.9
2 21	11 46.75	−10 8.1	2.126	3.016	9.8	20.8
3 2	11 38.60	−10 8.3	2.082	3.029	6.7	20.6
3 12	11 29.58	− 9 53.4	2.066	3.041	4.3	20.5
3 22	11 20.55	− 9 26.8	2.078	3.054	4.6	20.5
4 1	11 12.39	− 8 52.9	2.120	3.066	7.2	20.7
4 11	11 5.82	− 8 17.5	2.188	3.078	10.2	20.9
4 21	11 1.27	− 7 45.1	2.279	3.089	12.9	21.1
196273 2003 EC_{22}			3 12.1 316°.66		2°.9/ 9.8 18	
2 11	11 50.42	+ 5 56.9	1.251	2.140	15.0	19.6
2 21	11 45.73	+ 7 8.9	1.184	2.130	10.4	19.3
3 2	11 38.43	+ 8 33.9	1.141	2.121	5.4	19.0
3 12	11 29.58	+10 1.1	1.122	2.112	3.1	18.8
3 22	11 20.53	+11 18.8	1.129	2.104	7.7	19.0
4 1	11 12.76	+12 17.3	1.160	2.096	12.9	19.3
4 11	11 7.42	+12 50.6	1.211	2.088	17.5	19.5
4 21	11 5.13	+12 57.8	1.279	2.081	21.4	19.8
25891 2000 WK_9			3 12.1 46°.77		15°.9/ 6.9 18	
2 11	11 51.26	−45 24.3	1.775	2.341	22.9	17.5
2 21	11 46.21	−46 19.3	1.718	2.364	21.4	17.4
3 2	11 38.59	−46 31.1	1.673	2.387	19.8	17.3
3 12	11 29.57	−45 54.8	1.641	2.410	18.2	17.2
3 22	11 20.59	−44 30.4	1.626	2.434	16.8	17.2
4 1	11 13.10	−42 23.2	1.629	2.459	16.0	17.2
4 11	11 8.16	−39 44.6	1.653	2.483	15.9	17.2
4 21	11 6.24	−36 48.6	1.698	2.508	16.6	17.3
13734 Buklad			3 12.1 319°.91		1°.8/13.4 18	
2 11	11 49.68	− 3 30.5	1.194	2.064	17.0	18.2
2 21	11 45.36	− 2 58.3	1.120	2.053	12.5	17.9
3 2	11 38.32	− 2 1.7	1.068	2.042	7.1	17.5
3 12	11 29.58	− 0 46.5	1.039	2.031	2.0	17.2
3 22	11 20.55	+ 0 37.6	1.034	2.021	5.6	17.4
4 1	11 12.75	+ 1 58.6	1.054	2.011	11.3	17.6
4 11	11 7.45	+ 3 5.8	1.095	2.002	16.5	17.9
4 21	11 5.33	+ 3 52.8	1.154	1.994	20.9	18.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
497869 2006 UC_{189}			3 12.1 158°.98		2°.6/15.9 17	
	h m	° ′			°	m
2 11	11 48.58	− 9 20.7	3.200	4.000	9.3	22.7
2 21	11 43.15	− 9 8.2	3.120	4.008	7.1	22.5
3 2	11 36.65	− 8 43.7	3.067	4.015	4.7	22.4
3 12	11 29.58	− 8 9.0	3.043	4.021	2.8	22.2
3 22	11 22.48	− 7 27.1	3.050	4.028	3.1	22.3
4 1	11 15.92	− 6 41.5	3.087	4.033	5.2	22.4
4 11	11 10.37	− 5 56.2	3.152	4.038	7.5	22.6
4 21	11 6.18	− 5 14.7	3.243	4.042	9.6	22.7
425179 2009 UE_{35}			3 12.1 185°.23		3°.0/ 9.1 17	
2 11	11 52.08	+10 19.1	2.011	2.885	10.9	21.1
2 21	11 46.05	+11 7.8	1.947	2.885	7.5	20.9
3 2	11 38.29	+11 59.2	1.909	2.885	4.2	20.7
3 12	11 29.59	+12 46.7	1.900	2.884	3.2	20.6
3 22	11 20.88	+13 24.5	1.919	2.884	6.1	20.8
4 1	11 13.08	+13 48.2	1.966	2.883	9.6	21.0
4 11	11 6.97	+13 55.6	2.037	2.881	12.8	21.2
4 21	11 2.99	+13 46.6	2.128	2.880	15.5	21.4
361162 2006 KJ_7			3 12.1 91°.93		3°.7/ 9.1 18	
2 11	11 53.83	+10 1.0	1.474	2.356	13.6	20.8
2 21	11 47.68	+10 58.7	1.419	2.361	9.4	20.5
3 2	11 39.25	+12 0.3	1.388	2.365	5.2	20.3
3 12	11 29.60	+12 56.8	1.384	2.370	4.0	20.2
3 22	11 20.00	+13 40.0	1.407	2.374	7.5	20.5
4 1	11 11.71	+14 4.2	1.455	2.378	11.8	20.7
4 11	11 5.68	+14 7.2	1.525	2.383	15.6	21.0
4 21	11 2.40	+13 49.8	1.614	2.387	18.8	21.2
124623 2001 SU_{54}			3 12.1 78°.43		2°.9/ 9.7 18	
2 11	11 52.95	+ 6 22.9	1.333	2.217	14.7	19.6
2 21	11 47.07	+ 7 43.9	1.290	2.234	10.0	19.3
3 2	11 38.90	+ 9 13.4	1.272	2.251	5.1	19.1
3 12	11 29.60	+10 40.5	1.279	2.268	3.2	19.0
3 22	11 20.49	+11 54.7	1.313	2.285	7.2	19.3
4 1	11 12.85	+12 48.4	1.373	2.302	11.8	19.6
4 11	11 7.58	+13 18.2	1.454	2.319	15.8	19.9
4 21	11 5.10	+13 24.6	1.553	2.336	19.0	20.2
154089 2002 CD_{279}			3 12.1 296°.62		0°.3/11.8 17	
2 11	11 48.75	+ 0 45.8	1.755	2.620	12.7	20.2
2 21	11 44.13	+ 1 38.7	1.663	2.597	9.0	19.9
3 2	11 37.50	+ 2 47.0	1.597	2.574	4.6	19.6
3 12	11 29.59	+ 4 4.7	1.557	2.551	0.3	19.2
3 22	11 21.38	+ 5 23.8	1.545	2.527	4.9	19.5
4 1	11 13.95	+ 6 36.0	1.561	2.504	9.6	19.7
4 11	11 8.24	+ 7 34.3	1.601	2.481	13.8	19.9
4 21	11 4.89	+ 8 14.7	1.660	2.458	17.4	20.1
42025 2000 YL_{84}			3 12.1 133°.65		1°.1/11.1 18	
2 11	11 53.16	+ 3 12.3	1.813	2.677	12.4	19.7
2 21	11 46.85	+ 4 9.4	1.756	2.690	8.6	19.5
3 2	11 38.70	+ 5 16.4	1.724	2.702	4.3	19.2
3 12	11 29.61	+ 6 26.3	1.721	2.713	1.1	19.0
3 22	11 20.57	+ 7 31.7	1.747	2.725	5.0	19.3
4 1	11 12.61	+ 8 26.1	1.801	2.735	9.2	19.6
4 11	11 6.51	+ 9 5.2	1.879	2.745	12.8	19.8
4 21	11 2.70	+ 9 27.3	1.978	2.754	15.7	20.0
15550 Sydney			3 12.1 197°.25		3°.2/16.2 18	
2 11	11 48.30	−10 27.3	2.523	3.329	11.3	18.6
2 21	11 43.24	−10 6.5	2.437	3.327	8.7	18.4
3 2	11 36.80	− 9 29.3	2.376	3.324	5.9	18.3
3 12	11 29.59	− 8 37.8	2.343	3.322	3.6	18.1
3 22	11 22.29	− 7 36.2	2.340	3.319	3.8	18.1
4 1	11 15.62	− 6 29.7	2.366	3.315	6.4	18.3
4 11	11 10.21	− 5 24.1	2.419	3.312	9.2	18.4
4 21	11 6.48	− 4 24.3	2.496	3.308	11.8	18.6
24814 1994 VW_1			3 12.1 67°.34		13°.6/ 2.2 18	
2 11	11 58.69	+25 1.9	0.894	1.793	18.5	16.8
2 21	11 51.54	+28 5.0	0.895	1.826	15.0	16.7
3 2	11 41.19	+30 37.2	0.917	1.859	13.6	16.7
3 12	11 29.62	+32 20.4	0.961	1.892	14.8	16.9
3 22	11 18.96	+33 7.9	1.025	1.925	17.5	17.2
4 1	11 10.90	+33 3.3	1.106	1.957	20.5	17.5
4 11	11 6.35	+32 16.6	1.203	1.989	23.2	17.8
4 21	11 5.40	+30 59.2	1.312	2.020	25.3	18.1
244075 2001 TQ_{200}			3 12.1 123°.17		4°.8/ 6.4 18 R	
2 11	11 50.45	+17 35.7	2.342	3.217	9.5	20.2
2 21	11 44.72	+18 35.8	2.291	3.224	6.9	20.1
3 2	11 37.53	+19 32.3	2.268	3.230	5.0	19.9
3 12	11 29.60	+20 18.8	2.273	3.236	5.1	20.0
3 22	11 21.72	+20 50.6	2.307	3.242	7.2	20.1
4 1	11 14.69	+21 4.9	2.367	3.248	9.7	20.3
4 11	11 9.14	+21 1.1	2.451	3.254	12.2	20.4
4 21	11 5.45	+20 40.5	2.554	3.260	14.3	20.6

266320 2007 CD_{65} 3 12.1 253°.38 1°.5/13.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 53.39	− 1 34.9	1.850	2.699	12.9	20.4
2 21	11 47.18	− 1 33.6	1.770	2.693	9.4	20.1
3 2	11 38.98	− 1 19.6	1.716	2.687	5.3	19.9
3 12	11 29.61	− 0 56.3	1.688	2.680	1.6	19.6
3 22	11 20.09	− 0 28.2	1.690	2.674	4.2	19.8
4 1	11 11.49	− 0 0.7	1.719	2.668	8.4	20.0
4 11	11 4.69	+ 0 21.2	1.774	2.661	12.3	20.2
4 21	11 0.24	+ 0 33.8	1.850	2.654	15.6	20.4

397822 2008 SB_{96} 3 12.1 200°.98 1°.4/13.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.78	− 3 34.9	1.826	2.668	13.4	22.1
2 21	11 47.48	− 2 57.1	1.745	2.664	9.7	21.9
3 2	11 39.15	− 2 2.3	1.690	2.659	5.5	21.6
3 12	11 29.63	− 0 55.2	1.662	2.654	1.6	21.3
3 22	11 19.95	+ 0 17.5	1.663	2.647	4.3	21.5
4 1	11 11.21	+ 1 27.9	1.693	2.640	8.7	21.7
4 11	11 4.30	+ 2 29.1	1.749	2.632	12.7	22.0
4 21	10 59.79	+ 3 16.4	1.826	2.623	16.1	22.2

506008 2015 HC_{24} 3 12.1 209°.70 0°.8/13.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 47.15	− 2 34.1	2.538	3.381	10.1	21.7
2 21	11 42.42	− 1 47.9	2.457	3.377	7.2	21.5
3 2	11 36.39	− 0 49.8	2.403	3.374	4.0	21.3
3 12	11 29.62	+ 0 16.2	2.377	3.370	0.9	21.1
3 22	11 22.78	+ 1 25.1	2.383	3.366	3.2	21.2
4 1	11 16.56	+ 2 31.3	2.417	3.362	6.5	21.4
4 11	11 11.55	+ 3 30.0	2.479	3.358	9.6	21.6
4 21	11 8.14	+ 4 17.8	2.563	3.353	12.2	21.8

280149 2002 PG_{105} 3 12.1 180°.36 13°.8/18.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.53	−22 17.1	1.267	2.032	22.4	20.8
2 21	11 56.25	−24 29.3	1.196	2.033	19.5	20.6
3 2	11 44.25	−26 9.6	1.144	2.033	16.5	20.4
3 12	11 29.71	−27 8.4	1.114	2.033	14.3	20.3
3 22	11 14.47	−27 21.8	1.105	2.033	13.9	20.3
4 1	11 0.68	−26 53.9	1.120	2.032	15.5	20.3
4 11	10 50.12	−25 57.4	1.155	2.031	18.3	20.5
4 21	10 43.71	−24 47.2	1.208	2.030	21.3	20.7

333886 1998 RN_{43} 3 12.1 156°.37 1°.0/13.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.05	− 1 33.1	1.802	2.647	13.4	21.6
2 21	11 48.95	− 1 9.0	1.734	2.656	9.6	21.3
3 2	11 39.85	− 0 31.2	1.693	2.664	5.2	21.1
3 12	11 29.66	+ 0 15.7	1.679	2.672	1.1	20.8
3 22	11 19.47	+ 1 5.6	1.695	2.678	4.3	21.1
4 1	11 10.37	+ 1 52.1	1.739	2.684	8.6	21.3
4 11	11 3.22	+ 2 29.7	1.808	2.688	12.5	21.6
4 21	10 58.52	+ 2 54.9	1.899	2.692	15.7	21.8

497028 2003 QG_{93} 3 12.1 193°.03 3°.4/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.63	+14 38.0	2.882	3.750	8.2	22.7
2 21	11 44.70	+15 38.7	2.814	3.747	5.8	22.6
3 2	11 37.51	+16 38.7	2.776	3.744	3.8	22.4
3 12	11 29.64	+17 32.9	2.769	3.740	3.7	22.4
3 22	11 21.73	+18 16.7	2.791	3.735	5.7	22.5
4 1	11 14.44	+18 47.1	2.843	3.729	8.1	22.7
4 11	11 8.34	+19 2.5	2.919	3.723	10.4	22.8
4 21	11 3.82	+19 3.1	3.017	3.716	12.4	23.0

62815 2000 UW_{43} 3 12.1 164°.61 3°.3/15.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.70	− 8 25.2	1.807	2.633	14.2	19.4
2 21	11 46.69	− 8 5.1	1.733	2.637	10.8	19.2
3 2	11 38.72	− 7 24.5	1.683	2.641	6.9	19.0
3 12	11 29.65	− 6 26.9	1.660	2.644	3.7	18.8
3 22	11 20.50	− 5 18.1	1.665	2.647	4.6	18.8
4 1	11 12.33	− 4 5.7	1.698	2.649	8.3	19.0
4 11	11 6.02	− 2 57.7	1.756	2.651	12.0	19.3
4 21	11 2.06	− 2 0.0	1.837	2.652	15.3	19.5

26287 1998 SD_{67} 3 12.1 182°.51 3°.0/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.89	+ 9 12.2	1.784	2.655	12.2	18.5
2 21	11 48.90	+10 8.3	1.719	2.657	8.5	18.3
3 2	11 39.85	+11 8.9	1.681	2.657	4.6	18.0
3 12	11 29.67	+12 6.2	1.670	2.657	3.3	18.0
3 22	11 19.45	+12 53.1	1.689	2.656	6.6	18.2
4 1	11 10.33	+13 24.1	1.735	2.654	10.5	18.4
4 11	11 3.20	+13 36.8	1.805	2.651	14.1	18.6
4 21	10 58.56	+13 31.1	1.895	2.648	17.1	18.8

187526 2006 UP_{40} 3 12.1 44°.22 0°.9/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.88	− 1 26.3	1.452	2.316	14.9	20.8
2 21	11 45.61	− 0 54.4	1.395	2.326	10.6	20.5
3 2	11 38.20	− 0 5.8	1.361	2.336	5.7	20.3
3 12	11 29.64	+ 0 53.1	1.353	2.346	1.0	20.0
3 22	11 21.13	+ 1 54.4	1.372	2.357	4.8	20.3
4 1	11 13.85	+ 2 50.0	1.417	2.368	9.6	20.6
4 11	11 8.71	+ 3 33.3	1.485	2.380	13.8	20.8
4 21	11 6.17	+ 4 0.7	1.573	2.392	17.3	21.1

103168 1999 XW_{228} 3 12.1 133°.62 1°.9/13.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 55.76	− 3 38.9	1.570	2.417	15.0	20.7
2 21	11 48.93	− 3 18.0	1.508	2.429	10.8	20.5
3 2	11 39.89	− 2 39.4	1.470	2.440	6.2	20.3
3 12	11 29.67	− 1 48.0	1.459	2.450	2.1	20.0
3 22	11 19.48	− 0 50.8	1.476	2.460	4.7	20.2
4 1	11 10.53	+ 0 4.5	1.520	2.470	9.2	20.5
4 11	11 3.78	+ 0 51.0	1.589	2.479	13.4	20.8
4 21	10 59.71	+ 1 24.3	1.678	2.487	16.8	21.0

256715 2008 AF_{47} 3 12.1 352°.41 1°.5/13.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.16	− 1 51.2	1.293	2.164	16.0	20.1
2 21	11 45.46	− 1 34.9	1.226	2.159	11.5	19.8
3 2	11 38.28	− 0 59.8	1.181	2.156	6.5	19.5
3 12	11 29.65	− 0 11.3	1.160	2.153	1.6	19.2
3 22	11 20.88	+ 0 42.8	1.165	2.151	5.2	19.4
4 1	11 13.34	+ 1 33.6	1.194	2.150	10.5	19.7
4 11	11 8.15	+ 2 13.4	1.245	2.149	15.2	20.0
4 21	11 5.87	+ 2 37.3	1.315	2.150	19.2	20.2

502561 2015 BU_{484} 3 12.1 168°.06 0°.7/11.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.88	+ 2 45.3	2.035	2.898	11.3	21.6
2 21	11 44.53	+ 3 32.3	1.966	2.900	7.8	21.3
3 2	11 37.53	+ 4 28.8	1.923	2.901	3.9	21.1
3 12	11 29.64	+ 5 29.3	1.909	2.902	0.7	20.8
3 22	11 21.71	+ 6 27.5	1.923	2.903	4.4	21.1
4 1	11 14.62	+ 7 17.5	1.966	2.903	8.3	21.4
4 11	11 9.10	+ 7 55.1	2.034	2.904	11.7	21.6
4 21	11 5.60	+ 8 18.0	2.123	2.904	14.6	21.8

242948 2006 RJ_{46} 3 12.1 186°.83 1°.7/10.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.31	+ 7 46.4	2.478	3.344	9.4	21.2
2 21	11 44.60	+ 8 18.8	2.408	3.343	6.5	21.0
3 2	11 37.50	+ 8 54.8	2.366	3.343	3.3	20.8
3 12	11 29.65	+ 9 29.9	2.353	3.342	1.8	20.7
3 22	11 21.78	+ 9 59.7	2.370	3.341	4.5	20.9
4 1	11 14.62	+10 20.7	2.416	3.340	7.6	21.1
4 11	11 8.80	+10 30.5	2.487	3.339	10.5	21.3
4 21	11 4.71	+10 28.3	2.581	3.338	12.9	21.4

305336 2008 AL_{107} 3 12.1 325°.07 3°.3/15.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.97	− 8 33.0	2.278	3.098	11.9	20.7
2 21	11 43.83	− 8 31.6	2.197	3.096	9.1	20.5
3 2	11 37.17	− 8 14.5	2.140	3.094	6.0	20.3
3 12	11 29.65	− 7 43.9	2.111	3.092	3.5	20.1
3 22	11 22.03	− 7 3.2	2.110	3.090	4.0	20.1
4 1	11 15.11	− 6 17.6	2.138	3.088	6.9	20.3
4 11	11 9.58	− 5 32.4	2.192	3.087	9.9	20.5
4 21	11 5.90	− 4 52.3	2.269	3.085	12.7	20.7

303203 2004 GH_{67} 3 12.1 250°.95 6°.5/ 3.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.09	+26 6.1	2.676	3.537	9.0	21.0
2 21	11 45.90	+27 8.6	2.611	3.521	7.3	20.8
3 2	11 38.20	+28 2.7	2.573	3.504	6.5	20.8
3 12	11 29.67	+28 42.3	2.563	3.487	7.0	20.8
3 22	11 21.06	+29 3.1	2.581	3.470	8.6	20.9
4 1	11 13.19	+29 3.1	2.625	3.452	10.7	21.0
4 11	11 6.72	+28 42.6	2.691	3.434	12.7	21.1
4 21	11 2.10	+28 3.7	2.775	3.416	14.4	21.2

500032 2011 SF_{63} 3 12.1 178°.96 2°.9/16.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 47.09	−11 24.0	3.090	3.884	9.7	22.0
2 21	11 42.21	−10 57.4	3.004	3.885	7.5	21.9
3 2	11 36.23	−10 16.6	2.943	3.886	5.2	21.7
3 12	11 29.64	− 9 23.7	2.911	3.887	3.2	21.6
3 22	11 23.01	− 8 22.1	2.910	3.887	3.3	21.6
4 1	11 16.90	− 7 16.1	2.939	3.886	5.4	21.7
4 11	11 11.81	− 6 10.5	2.996	3.886	7.8	21.9
4 21	11 8.09	− 5 9.4	3.078	3.884	10.0	22.0

52674 1998 DZ_{8} 3 12.1 298°.31 1°.6/10.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 47.75	+ 5 25.2	2.138	3.008	10.5	19.1
2 21	11 43.06	+ 6 20.2	2.061	2.999	7.2	18.9
3 2	11 36.80	+ 7 22.8	2.010	2.989	3.7	18.6
3 12	11 29.65	+ 8 27.3	1.989	2.980	1.7	18.5
3 22	11 22.39	+ 9 27.3	1.996	2.970	4.9	18.7
4 1	11 15.86	+10 17.3	2.031	2.961	8.5	18.9
4 11	11 10.77	+10 53.2	2.091	2.952	11.8	19.1
4 21	11 7.57	+11 13.2	2.171	2.943	14.6	19.2

279935 2001 SZ_{44} 3 12.1 216°.48 0°.6/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.25	+ 0 54.2	1.670	2.533	13.4	21.1
2 21	11 46.56	+ 1 59.9	1.594	2.527	9.4	20.8
3 2	11 38.75	+ 3 20.9	1.542	2.520	4.8	20.6
3 12	11 29.68	+ 4 50.0	1.519	2.512	0.6	20.2
3 22	11 20.45	+ 6 18.1	1.524	2.504	5.2	20.5
4 1	11 12.19	+ 7 36.3	1.556	2.495	9.9	20.8
4 11	11 5.87	+ 8 37.9	1.613	2.486	14.1	21.0
4 21	11 2.06	+ 9 19.5	1.689	2.476	17.6	21.2

23200 2000 SH_3 3 12.1 112°.71 11°.3/ 3.4 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 7.62	+35 3.8	1.775	2.610	14.1	17.2
2 21	11 56.84	+36 3.7	1.754	2.631	12.2	17.2
3 2	11 43.74	+36 39.2	1.756	2.651	11.3	17.1
3 12	11 29.75	+36 42.2	1.784	2.670	11.8	17.2
3 22	11 16.44	+36 10.2	1.837	2.689	13.3	17.3
4 1	11 5.15	+35 6.1	1.913	2.707	15.3	17.5
4 11	10 56.75	+33 36.4	2.010	2.725	17.3	17.7
4 21	10 51.47	+31 48.6	2.123	2.741	18.9	17.9

95910 2003 HE_{36} 3 12.1 198°.04 3°.7/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.32	+12 2.2	2.048	2.924	10.6	20.4
2 21	11 45.56	+13 7.5	1.984	2.922	7.4	20.2
3 2	11 38.09	+14 14.5	1.946	2.920	4.5	20.0
3 12	11 29.68	+15 16.0	1.938	2.917	4.0	19.9
3 22	11 21.23	+16 5.6	1.958	2.915	6.7	20.1
4 1	11 13.67	+16 38.6	2.006	2.912	10.0	20.3
4 11	11 7.74	+16 52.9	2.077	2.908	13.1	20.5
4 21	11 3.91	+16 48.8	2.167	2.904	15.7	20.7

276577 2003 ST_{281} 3 12.1 182°.16 1°.5/13.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.83	− 3 23.8	2.286	3.123	11.2	21.7
2 21	11 45.09	− 3 6.5	2.208	3.124	8.2	21.5
3 2	11 37.81	− 2 36.9	2.156	3.124	4.7	21.2
3 12	11 29.68	− 1 58.1	2.133	3.124	1.7	21.0
3 22	11 21.48	− 1 14.6	2.139	3.123	3.5	21.2
4 1	11 14.01	− 0 31.3	2.175	3.122	7.0	21.4
4 11	11 7.98	+ 0 7.0	2.237	3.121	10.2	21.6
4 21	11 3.82	+ 0 36.8	2.322	3.120	13.0	21.8

135356 2001 TF_{83} 3 12.1 88°.93 1°.0/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.08	− 0 50.4	2.236	3.083	11.1	19.7
2 21	11 45.22	− 0 41.6	2.168	3.091	7.9	19.5
3 2	11 37.85	− 0 22.8	2.127	3.099	4.3	19.3
3 12	11 29.68	+ 0 2.8	2.114	3.107	1.1	19.0
3 22	11 21.52	+ 0 30.9	2.131	3.115	3.5	19.2
4 1	11 14.16	+ 0 57.4	2.177	3.123	7.1	19.5
4 11	11 8.29	+ 1 18.2	2.248	3.130	10.3	19.7
4 21	11 4.30	+ 1 30.8	2.343	3.138	13.0	19.9

495016 2010 RL_{120} 3 12.1 211°.76 0°.6/12.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.54	− 0 57.9	2.053	2.900	11.9	22.2
2 21	11 46.47	− 0 19.5	1.969	2.893	8.5	22.0
3 2	11 38.61	+ 0 31.8	1.912	2.885	4.6	21.7
3 12	11 29.69	+ 1 31.6	1.883	2.877	0.6	21.4
3 22	11 20.62	+ 2 33.8	1.885	2.867	4.0	21.6
4 1	11 12.35	+ 3 32.0	1.915	2.857	8.1	21.9
4 11	11 5.69	+ 4 20.6	1.971	2.847	11.8	22.1
4 21	11 1.16	+ 4 56.3	2.048	2.835	14.9	22.3

388378 2006 UE_{207} 3 12.1 170°.24 1°.2/10.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.79	+ 5 40.2	2.603	3.465	9.2	22.0
2 21	11 43.50	+ 6 21.0	2.533	3.467	6.3	21.8
3 2	11 36.93	+ 7 6.9	2.491	3.469	3.2	21.6
3 12	11 29.67	+ 7 53.7	2.479	3.471	1.3	21.5
3 22	11 22.40	+ 8 36.6	2.497	3.472	4.0	21.7
4 1	11 15.78	+ 9 11.9	2.544	3.473	7.1	21.9
4 11	11 10.40	+ 9 36.5	2.618	3.474	9.9	22.0
4 21	11 6.62	+ 9 49.2	2.713	3.474	12.3	22.2

134637 1999 UD_{24} 3 12.1 174°.46 1°.4/13.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.01	− 2 17.0	1.879	2.724	12.9	20.3
2 21	11 47.55	− 2 0.4	1.806	2.726	9.3	20.1
3 2	11 39.16	− 1 30.0	1.757	2.728	5.3	19.8
3 12	11 29.70	− 0 49.7	1.737	2.729	1.5	19.6
3 22	11 20.17	− 0 5.0	1.746	2.730	4.1	19.8
4 1	11 11.59	+ 0 38.1	1.783	2.730	8.3	20.0
4 11	11 4.83	+ 1 14.1	1.846	2.730	12.1	20.2
4 21	11 0.38	+ 1 39.2	1.930	2.729	15.3	20.5

431554 2007 TT_{446} 3 12.1 99°.57 4°.6/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.37	+17 5.0	2.331	3.205	9.6	21.3
2 21	11 45.31	+18 4.3	2.289	3.222	6.9	21.2
3 2	11 37.83	+18 59.6	2.276	3.239	4.9	21.1
3 12	11 29.68	+19 45.1	2.291	3.256	4.9	21.1
3 22	11 21.67	+20 15.9	2.334	3.272	7.0	21.2
4 1	11 14.55	+20 29.7	2.405	3.289	9.5	21.4
4 11	11 8.95	+20 25.9	2.500	3.305	11.9	21.6
4 21	11 5.22	+20 6.1	2.614	3.320	13.9	21.8

286639 2002 ED_{47} 3 12.1 330°.68 0°.7/12.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.46	− 0 21.7	1.251	2.127	16.0	20.4
2 21	11 45.81	+ 0 3.5	1.180	2.117	11.5	20.1
3 2	11 38.55	+ 0 47.1	1.130	2.107	6.2	19.8
3 12	11 29.70	+ 1 42.9	1.104	2.098	0.8	19.4
3 22	11 20.59	+ 2 42.3	1.104	2.089	5.6	19.7
4 1	11 12.72	+ 3 35.7	1.128	2.081	11.2	19.9
4 11	11 7.26	+ 4 15.1	1.173	2.074	16.1	20.2
4 21	11 4.86	+ 4 36.2	1.236	2.068	20.3	20.4

497418 2005 WU_{124} 3 12.1 212°.90 2°.7/ 9.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 52.08	+10 0.2	2.395	3.263	9.7	22.7
2 21	11 45.95	+10 54.6	2.319	3.254	6.7	22.5
3 2	11 38.27	+11 52.2	2.270	3.245	3.7	22.3
3 12	11 29.71	+12 47.1	2.251	3.236	2.9	22.2
3 22	11 21.04	+13 33.9	2.263	3.225	5.5	22.4
4 1	11 13.10	+14 8.3	2.303	3.214	8.6	22.5
4 11	11 6.57	+14 27.8	2.368	3.202	11.6	22.7
4 21	11 1.90	+14 31.8	2.455	3.189	14.1	22.9

215049 2009 DQ_{34} 3 12.1 280°.61 0°.9/11.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.74	+ 4 16.7	2.337	3.200	10.0	20.6
2 21	11 43.71	+ 4 55.1	2.249	3.183	7.0	20.4
3 2	11 37.15	+ 5 41.2	2.187	3.165	3.5	20.1
3 12	11 29.70	+ 6 30.2	2.155	3.147	1.0	19.9
3 22	11 22.08	+ 7 17.0	2.152	3.129	4.2	20.1
4 1	11 15.10	+ 7 56.9	2.177	3.111	7.8	20.3
4 11	11 9.44	+ 8 25.8	2.228	3.093	11.1	20.5
4 21	11 5.58	+ 8 41.8	2.301	3.075	13.8	20.6

357569 2004 TC_{136} 3 12.1 186°.42 2°.8/14.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.06	− 6 48.9	1.914	2.741	13.5	21.5
2 21	11 47.62	− 6 31.3	1.835	2.741	10.1	21.3
3 2	11 39.24	− 5 55.7	1.780	2.741	6.3	21.0
3 12	11 29.73	− 5 5.3	1.753	2.739	3.0	20.8
3 22	11 20.10	− 4 5.4	1.755	2.737	4.3	20.9
4 1	11 11.39	− 3 3.0	1.785	2.734	8.1	21.1
4 11	11 4.46	− 2 5.0	1.842	2.731	11.8	21.3
4 21	10 59.83	− 1 16.6	1.920	2.726	15.1	21.5

498142 2007 TX_{61} 3 12.1 159°.40 0°.7/11.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.72	+ 3 36.6	2.424	3.282	9.9	22.1
2 21	11 44.22	+ 4 12.7	2.354	3.286	6.8	22.0
3 2	11 37.33	+ 4 55.8	2.312	3.290	3.4	21.7
3 12	11 29.71	+ 5 41.4	2.300	3.293	0.7	21.5
3 22	11 22.07	+ 6 24.8	2.317	3.296	3.9	21.8
4 1	11 15.14	+ 7 1.6	2.363	3.298	7.2	22.0
4 11	11 9.56	+ 7 28.5	2.436	3.300	10.2	22.2
4 21	11 5.70	+ 7 43.7	2.530	3.302	12.8	22.4

434922 2006 TE_{98} 3 12.1 237°.33 3°.6/16.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 46.98	−12 7.5	2.422	3.223	11.8	21.1
2 21	11 42.42	−11 37.9	2.334	3.220	9.2	20.9
3 2	11 36.46	−10 49.5	2.271	3.215	6.4	20.7
3 12	11 29.70	− 9 44.8	2.236	3.211	4.0	20.5
3 22	11 22.85	− 8 28.2	2.229	3.207	4.1	20.5
4 1	11 16.65	− 7 5.8	2.252	3.203	6.5	20.7
4 11	11 11.72	− 5 44.2	2.301	3.198	9.4	20.9
4 21	11 8.50	− 4 29.2	2.375	3.194	12.2	21.0

6730 Ikeda 3 12.1 7°.30 4°.9/ 6.2 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 45.67	+12 26.0	1.768	2.658	11.3	16.4
2 21	11 41.83	+14 24.3	1.715	2.659	7.9	16.2
3 2	11 36.24	+16 25.3	1.689	2.661	5.2	16.0
3 12	11 29.70	+18 18.4	1.691	2.663	5.5	16.0
3 22	11 23.12	+19 54.0	1.720	2.666	8.4	16.2
4 1	11 17.47	+21 5.5	1.775	2.670	11.8	16.4
4 11	11 13.50	+21 50.1	1.852	2.674	14.8	16.6
4 21	11 11.66	+22 8.6	1.947	2.678	17.4	16.8

199063 2005 XE_{16} 3 12.1 138°.86 3°.2/14.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.93	− 6 56.7	1.525	2.364	15.7	20.6
2 21	11 47.81	− 6 42.5	1.458	2.370	11.7	20.4
3 2	11 39.42	− 6 6.6	1.413	2.376	7.3	20.2
3 12	11 29.74	− 5 12.9	1.394	2.382	3.6	19.9
3 22	11 20.01	− 4 8.1	1.403	2.387	5.0	20.0
4 1	11 11.47	− 3 0.9	1.438	2.392	9.3	20.3
4 11	11 5.11	− 1 59.8	1.498	2.396	13.5	20.6
4 21	11 1.46	− 1 10.7	1.578	2.400	17.1	20.8

18331 1987 DQ_6 3 12.1 159°.65 0°.1/12.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.47	+ 3 1.6	2.492	3.343	9.9	17.1
2 21	11 46.09	+ 3 8.4	2.419	3.346	6.9	17.0
3 2	11 38.30	+ 3 21.4	2.373	3.349	3.6	16.7
3 12	11 29.74	+ 3 37.4	2.358	3.351	0.1	16.4
3 22	11 21.16	+ 3 52.9	2.373	3.354	3.5	16.7
4 1	11 13.32	+ 4 4.5	2.417	3.356	6.9	17.0
4 11	11 6.84	+ 4 9.6	2.489	3.358	9.9	17.2
4 21	11 2.15	+ 4 6.5	2.583	3.360	12.4	17.3

239067 2006 FC_{50} 3 12.1 97°.70 1°.0/11.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.51	+ 3 22.6	1.935	2.802	11.6	20.3
2 21	11 44.33	+ 4 17.9	1.872	2.807	8.0	20.1
3 2	11 37.48	+ 5 22.6	1.835	2.813	4.0	19.8
3 12	11 29.73	+ 6 30.3	1.826	2.818	1.1	19.6
3 22	11 21.98	+ 7 34.4	1.845	2.824	4.8	19.9
4 1	11 15.12	+ 8 28.4	1.893	2.829	8.7	20.1
4 11	11 9.90	+ 9 8.2	1.965	2.834	12.1	20.4
4 21	11 6.74	+ 9 31.8	2.058	2.839	15.0	20.6

165834 2001 RW_{135} 3 12.1 32°.34 2°.8/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 51.34	+10 20.4	1.955	2.831	11.1	18.9
2 21	11 45.57	+10 54.4	1.897	2.836	7.6	18.7
3 2	11 38.09	+11 30.4	1.865	2.841	4.2	18.5
3 12	11 29.74	+12 2.4	1.861	2.847	3.0	18.4
3 22	11 21.43	+12 25.2	1.885	2.852	5.9	18.6
4 1	11 14.09	+12 35.2	1.936	2.859	9.4	18.8
4 11	11 8.45	+12 30.5	2.012	2.865	12.6	19.0
4 21	11 4.93	+12 11.1	2.107	2.871	15.3	19.3

259264 2003 CQ_{12} 3 12.1 91°.81 1°.4/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.72	+ 5 22.6	1.828	2.694	12.3	20.7
2 21	11 47.83	+ 6 3.3	1.784	2.719	8.4	20.5
3 2	11 39.20	+ 6 50.2	1.766	2.744	4.2	20.3
3 12	11 29.76	+ 7 37.2	1.777	2.769	1.5	20.2
3 22	11 20.53	+ 8 18.1	1.816	2.793	5.1	20.5
4 1	11 12.48	+ 8 48.2	1.884	2.816	9.0	20.7
4 11	11 6.34	+ 9 4.5	1.976	2.839	12.3	21.0
4 21	11 2.47	+ 9 6.4	2.089	2.861	15.1	21.2

435226 2007 RT_{294} 3 12.1 299°.76 1°.4/10.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.25	+ 4 58.7	1.995	2.865	11.2	21.2
2 21	11 44.18	+ 5 46.7	1.924	2.861	7.7	21.0
3 2	11 37.43	+ 6 42.6	1.878	2.857	3.9	20.7
3 12	11 29.74	+ 7 40.5	1.861	2.853	1.5	20.5
3 22	11 21.97	+ 8 34.1	1.873	2.849	4.9	20.8
4 1	11 15.04	+ 9 17.8	1.912	2.846	8.8	21.0
4 11	11 9.68	+ 9 47.6	1.976	2.842	12.2	21.2
4 21	11 6.36	+10 1.7	2.060	2.838	15.1	21.4

378896 2008 UK_{32} 3 12.1 86°.97 1°.7/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.96	+ 5 50.6	1.989	2.860	11.2	21.4
2 21	11 44.61	+ 6 39.4	1.927	2.864	7.7	21.2
3 2	11 37.62	+ 7 34.8	1.890	2.869	3.9	20.9
3 12	11 29.75	+ 8 30.9	1.882	2.873	1.8	20.8
3 22	11 21.87	+ 9 21.3	1.903	2.877	5.1	21.0
4 1	11 14.89	+10 0.9	1.951	2.882	8.8	21.2
4 11	11 9.51	+10 26.2	2.024	2.886	12.1	21.5
4 21	11 6.18	+10 35.8	2.117	2.890	14.9	21.7

28597 2000 ER_{137} 3 12.1 9°.58 1°.1/13.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 46.99	− 5 9.9	1.519	2.375	14.8	17.4
2 21	11 42.97	− 3 42.6	1.449	2.375	10.7	17.2
3 2	11 36.93	− 1 50.8	1.404	2.376	6.0	16.9
3 12	11 29.74	+ 0 17.1	1.385	2.378	1.3	16.6
3 22	11 22.48	+ 2 29.5	1.394	2.379	4.7	16.8
4 1	11 16.25	+ 4 34.1	1.430	2.381	9.6	17.1
4 11	11 11.95	+ 6 20.7	1.491	2.383	13.9	17.3
4 21	11 10.09	+ 7 43.6	1.572	2.386	17.5	17.6

492912 2014 RX_{1} 3 12.1 240°.74 1°.8/10.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.48	+ 5 51.5	1.901	2.765	12.0	22.7
2 21	11 48.77	+ 6 37.8	1.812	2.746	8.3	22.5
3 2	11 39.94	+ 7 32.6	1.749	2.726	4.3	22.2
3 12	11 29.79	+ 8 29.5	1.715	2.706	1.9	22.0
3 22	11 19.33	+ 9 21.5	1.710	2.684	5.6	22.2
4 1	11 9.71	+10 2.4	1.734	2.662	9.9	22.4
4 11	11 1.88	+10 27.9	1.782	2.638	13.8	22.6
4 21	10 56.47	+10 36.4	1.851	2.614	17.1	22.7

379506 2010 GN_{105} 3 12.1 25°.68 9°.9/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.98	+29 8.6	1.669	2.539	13.0	19.6
2 21	11 47.64	+30 18.7	1.638	2.548	10.9	19.5
3 2	11 39.20	+31 11.4	1.632	2.558	9.9	19.4
3 12	11 29.77	+31 38.0	1.650	2.568	10.6	19.5
3 22	11 20.62	+31 34.1	1.692	2.579	12.4	19.6
4 1	11 12.91	+30 59.8	1.756	2.591	14.8	19.8
4 11	11 7.46	+29 58.7	1.839	2.603	17.0	20.0
4 21	11 4.63	+28 36.4	1.939	2.616	19.0	20.2

66836 1999 UM_{48} 3 12.1 187°.18 0°.2/12.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.75	− 0 10.9	2.677	3.521	9.6	20.6
2 21	11 44.19	+ 0 31.0	2.598	3.521	6.7	20.4
3 2	11 37.33	+ 1 22.2	2.546	3.519	3.5	20.2
3 12	11 29.76	+ 2 19.0	2.524	3.518	0.3	19.9
3 22	11 22.12	+ 3 16.6	2.533	3.515	3.3	20.2
4 1	11 15.11	+ 4 10.4	2.572	3.512	6.5	20.4
4 11	11 9.29	+ 4 56.2	2.639	3.508	9.4	20.6
4 21	11 5.08	+ 5 31.6	2.729	3.504	11.9	20.7

407672 2011 SR_{260} 3 12.1 336°.84 8°.5/19.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 46.79	−17 30.8	1.217	2.034	20.2	19.6
2 21	11 43.44	−17 40.4	1.139	2.023	16.7	19.3
3 2	11 37.44	−17 11.9	1.079	2.013	12.9	19.0
3 12	11 29.76	−16 4.2	1.039	2.004	9.5	18.8
3 22	11 21.74	−14 22.4	1.023	1.996	8.6	18.7
4 1	11 14.90	−12 18.3	1.030	1.989	11.3	18.9
4 11	11 10.52	−10 8.0	1.058	1.982	15.4	19.1
4 21	11 9.28	− 8 6.1	1.106	1.977	19.5	19.3

519353 2011 KG_{7} 3 12.1 198°.80 2°.1/ 9.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 48.21	+ 8 12.8	2.794	3.660	8.5	21.8
2 21	11 43.10	+ 9 21.6	2.721	3.657	5.8	21.6
3 2	11 36.77	+10 34.7	2.676	3.652	3.1	21.5
3 12	11 29.75	+11 46.7	2.662	3.648	2.3	21.4
3 22	11 22.67	+12 52.5	2.678	3.642	4.6	21.5
4 1	11 16.17	+13 47.7	2.724	3.636	7.4	21.7
4 11	11 10.80	+14 29.5	2.797	3.630	10.0	21.9
4 21	11 6.94	+14 56.5	2.891	3.623	12.2	22.0

204173 2004 BL_{35} 3 12.1 29°.26 1°.7/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.49	+ 6 0.7	1.886	2.760	11.5	20.3
2 21	11 44.35	+ 6 44.7	1.825	2.764	7.9	20.1
3 2	11 37.51	+ 7 35.4	1.790	2.769	4.0	19.8
3 12	11 29.76	+ 8 26.5	1.783	2.774	1.8	19.7
3 22	11 22.02	+ 9 11.9	1.804	2.779	5.2	19.9
4 1	11 15.21	+ 9 46.3	1.852	2.785	9.0	20.2
4 11	11 10.08	+10 6.2	1.924	2.791	12.5	20.4
4 21	11 7.05	+10 10.6	2.016	2.797	15.3	20.6

387358 2012 XK_{26} 3 12.1 132°.51 4°.7/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.85	+17 53.9	2.469	3.343	9.1	20.9
2 21	11 44.30	+18 58.1	2.418	3.350	6.7	20.7
3 2	11 37.38	+19 58.6	2.395	3.356	4.9	20.6
3 12	11 29.76	+20 49.4	2.401	3.362	5.1	20.7
3 22	11 22.18	+21 25.8	2.436	3.368	7.0	20.8
4 1	11 15.38	+21 44.9	2.498	3.374	9.5	21.0
4 11	11 9.98	+21 46.1	2.583	3.380	11.8	21.1
4 21	11 6.33	+21 30.6	2.687	3.385	13.8	21.3

430692 2003 YB_{25} 3 12.1 59°.45 1°.7/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.38	+ 5 44.9	1.802	2.672	12.2	21.3
2 21	11 46.15	+ 6 36.3	1.769	2.707	8.2	21.2
3 2	11 38.31	+ 7 33.3	1.762	2.741	4.1	21.0
3 12	11 29.77	+ 8 29.1	1.784	2.775	1.8	20.9
3 22	11 21.51	+ 9 17.2	1.834	2.808	5.2	21.2
4 1	11 14.43	+ 9 52.9	1.911	2.842	8.9	21.5
4 11	11 9.19	+10 13.6	2.013	2.876	12.2	21.7
4 21	11 6.11	+10 18.8	2.135	2.909	14.8	22.0

30876 1992 EM_{27} 3 12.1 14°.11 1°.3/13.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.64	− 1 18.4	1.973	2.824	12.1	18.8
2 21	11 45.13	− 1 15.9	1.902	2.826	8.7	18.5
3 2	11 37.92	− 1 2.0	1.857	2.828	4.9	18.3
3 12	11 29.77	− 0 39.9	1.839	2.831	1.4	18.1
3 22	11 21.58	− 0 13.9	1.850	2.834	3.9	18.3
4 1	11 14.25	+ 0 11.1	1.889	2.838	7.7	18.5
4 11	11 8.56	+ 0 30.7	1.953	2.842	11.3	18.7
4 21	11 4.96	+ 0 41.6	2.038	2.846	14.3	18.9

502223 2015 BH_{88} 3 12.1 72°.29 0°.2/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.40	+ 1 2.3	1.872	2.735	12.2	21.5
2 21	11 44.29	+ 1 51.9	1.810	2.743	8.5	21.3
3 2	11 37.49	+ 2 53.2	1.774	2.751	4.3	21.0
3 12	11 29.77	+ 4 0.1	1.765	2.759	0.2	20.7
3 22	11 22.07	+ 5 5.6	1.785	2.767	4.4	21.1
4 1	11 15.30	+ 6 3.3	1.833	2.775	8.5	21.3
4 11	11 10.21	+ 6 48.1	1.905	2.783	12.0	21.5
4 21	11 7.22	+ 7 17.5	1.998	2.791	15.0	21.8

355260 2007 OO_{3} 3 12.1 226°.98 0°.1/12.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.42	+ 0 7.9	1.743	2.601	13.1	21.3
2 21	11 46.68	+ 1 2.5	1.662	2.592	9.3	21.1
3 2	11 38.86	+ 2 12.4	1.606	2.582	4.8	20.8
3 12	11 29.80	+ 3 31.1	1.578	2.571	0.1	20.4
3 22	11 20.53	+ 4 50.8	1.578	2.560	4.8	20.7
4 1	11 12.17	+ 6 3.0	1.607	2.548	9.5	21.0
4 11	11 5.68	+ 7 1.2	1.660	2.536	13.6	21.2
4 21	11 1.62	+ 7 41.5	1.733	2.523	17.1	21.4

30813 1990 QT 3 12.1 188°.94 0°.0/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.73	+ 1 30.4	1.810	2.665	12.9	18.7
2 21	11 48.85	+ 1 55.4	1.737	2.665	9.1	18.4
3 2	11 39.92	+ 2 31.5	1.688	2.664	4.7	18.2
3 12	11 29.82	+ 3 13.7	1.668	2.662	0.1	17.8
3 22	11 19.63	+ 3 55.8	1.678	2.659	4.6	18.1
4 1	11 10.44	+ 4 32.0	1.715	2.656	9.0	18.4
4 11	11 3.18	+ 4 57.6	1.778	2.652	12.9	18.6
4 21	10 58.37	+ 5 10.0	1.861	2.648	16.2	18.8

497950 2006 WP_{179} 3 12.1 148°.50 1°.1/13.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.04	− 3 15.0	2.934	3.766	9.1	22.8
2 21	11 42.89	− 2 45.7	2.861	3.774	6.6	22.7
3 2	11 36.63	− 2 6.5	2.815	3.782	3.8	22.5
3 12	11 29.78	− 1 20.5	2.799	3.790	1.2	22.3
3 22	11 22.92	− 0 31.5	2.814	3.797	2.8	22.4
4 1	11 16.63	+ 0 16.4	2.858	3.804	5.6	22.6
4 11	11 11.43	+ 0 59.6	2.931	3.810	8.2	22.8
4 21	11 7.65	+ 1 35.1	3.028	3.816	10.5	23.0

471676 2012 TU_{185} 3 12.1 185°.68 7°.6/24.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 48.91	−29 16.8	2.937	3.603	12.8	21.7
2 21	11 43.70	−29 21.2	2.842	3.603	11.3	21.6
3 2	11 37.13	−29 2.4	2.768	3.602	9.7	21.4
3 12	11 29.78	−28 19.6	2.717	3.601	8.3	21.3
3 22	11 22.35	−27 14.6	2.693	3.600	7.6	21.3
4 1	11 15.53	−25 51.3	2.696	3.598	7.9	21.3
4 11	11 9.95	−24 15.9	2.725	3.595	9.1	21.4
4 21	11 6.02	−22 35.3	2.780	3.592	10.7	21.5

451027 2008 WF_{50} 3 12.1 38°.37 21°.9/25.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.79	+51 27.2	1.107	1.912	22.6	20.4
2 21	11 58.89	+52 56.9	1.117	1.932	22.0	20.4
3 2	11 44.97	+53 32.9	1.143	1.954	22.0	20.5
3 12	11 29.88	+53 7.0	1.183	1.976	22.6	20.6
3 22	11 16.48	+51 41.7	1.237	1.999	23.6	20.8
4 1	11 6.77	+49 27.2	1.306	2.023	24.7	21.0
4 11	11 1.48	+46 37.3	1.386	2.048	25.8	21.1
4 21	11 0.38	+43 25.0	1.478	2.073	26.7	21.3

10505 1988 BN_{4} 3 12.1 41°.60 4°.3/16.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.51	−11 32.3	2.127	2.935	13.0	17.2
2 21	11 44.33	−11 34.9	2.049	2.937	10.2	17.1
3 2	11 37.52	−11 18.7	1.995	2.939	7.2	16.9
3 12	11 29.79	−10 45.4	1.968	2.941	4.7	16.7
3 22	11 21.98	− 9 58.6	1.968	2.944	4.8	16.7
4 1	11 14.94	− 9 4.0	1.996	2.946	7.3	16.9
4 11	11 9.41	− 8 8.0	2.050	2.949	10.4	17.1
4 21	11 5.86	− 7 16.4	2.128	2.951	13.2	17.3

502272 2015 BM_{128} 3 12.1 234°.27 0°.3/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.44	+ 2 16.4	2.020	2.879	11.5	21.7
2 21	11 45.72	+ 2 43.9	1.943	2.874	8.1	21.5
3 2	11 38.26	+ 3 20.9	1.893	2.870	4.2	21.2
3 12	11 29.81	+ 4 2.7	1.871	2.865	0.3	20.9
3 22	11 21.26	+ 4 43.9	1.878	2.859	4.3	21.2
4 1	11 13.54	+ 5 19.1	1.913	2.854	8.3	21.5
4 11	11 7.43	+ 5 44.2	1.973	2.848	11.8	21.7
4 21	11 3.41	+ 5 56.8	2.055	2.843	14.8	21.9

2431 Skovoroda 3 12.1 249°.28 0°.6/12.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.89	− 0 32.9	2.279	3.124	10.9	17.6
2 21	11 46.01	− 0 5.2	2.182	3.105	7.8	17.4
3 2	11 38.43	+ 0 33.9	2.111	3.084	4.2	17.1
3 12	11 29.82	+ 1 20.7	2.070	3.063	0.6	16.8
3 22	11 20.96	+ 2 10.1	2.059	3.042	3.8	17.0
4 1	11 12.73	+ 2 57.1	2.077	3.019	7.6	17.2
4 11	11 5.91	+ 3 36.5	2.121	2.996	11.1	17.4
4 21	11 1.03	+ 4 5.1	2.188	2.973	14.1	17.6

423514 2005 UT_{54} 3 12.2 171°.09 1°.8/14.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.62	− 5 29.6	2.648	3.469	10.4	22.2
2 21	11 45.49	− 5 4.7	2.569	3.474	7.6	22.0
3 2	11 38.02	− 4 27.4	2.516	3.479	4.6	21.8
3 12	11 29.81	− 3 40.5	2.494	3.482	2.0	21.6
3 22	11 21.56	− 2 48.2	2.502	3.485	3.2	21.7
4 1	11 13.97	− 1 55.1	2.541	3.487	6.2	21.9
4 11	11 7.65	− 1 6.0	2.607	3.488	9.1	22.1
4 21	11 3.00	− 0 24.3	2.698	3.488	11.6	22.3

367541 2009 RK_{31} 3 12.2 174°.87 1°.0/13.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.93	− 2 43.1	2.355	3.194	10.9	22.3
2 21	11 45.14	− 2 6.1	2.279	3.197	7.8	22.1
3 2	11 37.88	− 1 16.7	2.229	3.199	4.4	21.9
3 12	11 29.81	− 0 19.0	2.209	3.201	1.1	21.6
3 22	11 21.69	+ 0 41.8	2.218	3.202	3.4	21.8
4 1	11 14.29	+ 1 40.3	2.258	3.202	6.9	22.0
4 11	11 8.29	+ 2 31.5	2.324	3.202	10.1	22.2
4 21	11 4.10	+ 3 12.1	2.413	3.201	12.9	22.4

185225 2006 TV_{74} 3 12.2 111°.95 0°.1/11.9 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.98	+ 1 45.1	2.554	3.407	9.6	21.2
2 21	11 43.64	+ 2 19.3	2.492	3.420	6.7	21.1
3 2	11 37.04	+ 3 1.1	2.456	3.432	3.4	20.9
3 12	11 29.80	+ 3 46.5	2.451	3.444	0.1	20.6
3 22	11 22.59	+ 4 31.0	2.475	3.456	3.4	20.9
4 1	11 16.08	+ 5 10.4	2.529	3.468	6.6	21.1
4 11	11 10.84	+ 5 41.4	2.609	3.479	9.5	21.3
4 21	11 7.21	+ 6 2.0	2.712	3.490	11.9	21.5

138775 2000 SA_{328} 3 12.2 85°.14 4°.4/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.13	+17 52.3	2.343	3.211	9.8	19.4
2 21	11 47.98	+18 15.1	2.287	3.217	7.1	19.3
3 2	11 39.29	+18 33.0	2.258	3.222	4.9	19.1
3 12	11 29.84	+18 41.0	2.258	3.227	4.7	19.1
3 22	11 20.50	+18 35.7	2.288	3.233	6.7	19.2
4 1	11 12.11	+18 15.3	2.346	3.238	9.4	19.4
4 11	11 5.33	+17 40.3	2.428	3.243	11.9	19.6
4 21	11 0.56	+16 52.2	2.531	3.249	14.1	19.8

360155 2013 CC_{66} 3 12.2 305°.76 1°.5/13.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 51.81	− 2 1.9	1.301	2.169	16.1	20.6
2 21	11 46.84	− 1 44.6	1.222	2.153	11.7	20.3
3 2	11 39.19	− 1 7.5	1.164	2.138	6.6	20.0
3 12	11 29.84	− 0 15.6	1.131	2.123	1.7	19.6
3 22	11 20.13	+ 0 43.4	1.123	2.109	5.4	19.8
4 1	11 11.53	+ 1 40.1	1.140	2.095	10.9	20.1
4 11	11 5.33	+ 2 25.8	1.179	2.081	16.0	20.3
4 21	11 2.21	+ 2 54.9	1.236	2.068	20.3	20.5

114251 2002 WP_{14} 3 12.2 77°.07 5°.0/18.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.37	−16 26.3	2.206	2.986	13.5	19.9
2 21	11 43.40	−16 0.4	2.141	3.006	10.8	19.7
3 2	11 36.98	−15 11.9	2.099	3.026	8.0	19.6
3 12	11 29.81	−14 3.3	2.083	3.046	5.6	19.5
3 22	11 22.69	−12 39.6	2.095	3.065	5.2	19.5
4 1	11 16.41	−11 7.9	2.136	3.085	7.0	19.6
4 11	11 11.61	− 9 35.9	2.205	3.104	9.7	19.8
4 21	11 8.67	− 8 10.2	2.297	3.123	12.3	20.0

462427 2008 TG_{127} 3 12.2 235°.58 3°.9/16.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.33	−12 24.9	2.366	3.163	12.2	21.6
2 21	11 44.18	−11 59.3	2.268	3.150	9.6	21.4
3 2	11 37.47	−11 14.1	2.194	3.137	6.7	21.2
3 12	11 29.82	−10 11.1	2.148	3.123	4.3	21.0
3 22	11 21.99	− 8 54.7	2.131	3.108	4.3	21.0
4 1	11 14.78	− 7 31.0	2.144	3.094	6.9	21.1
4 11	11 8.92	− 6 7.1	2.184	3.078	10.0	21.3
4 21	11 4.89	− 4 49.2	2.248	3.062	12.9	21.4

271657 2004 RP_{5} 3 12.2 142°.81 3°.9/ 7.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.23	+13 33.4	2.207	3.080	10.1	21.1
2 21	11 46.07	+14 34.0	2.153	3.089	7.1	20.9
3 2	11 38.35	+15 34.0	2.127	3.098	4.5	20.8
3 12	11 29.84	+16 26.9	2.130	3.106	4.2	20.8
3 22	11 21.38	+17 7.3	2.163	3.114	6.5	20.9
4 1	11 13.82	+17 31.5	2.222	3.121	9.5	21.1
4 11	11 7.84	+17 38.3	2.306	3.128	12.2	21.3
4 21	11 3.83	+17 28.4	2.410	3.135	14.5	21.5

423415 2005 NJ_{14} 3 12.2 202°.16 5°.4/17.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.50	−14 53.0	2.252	3.032	13.3	22.6
2 21	11 47.15	−15 9.2	2.162	3.027	10.7	22.5
3 2	11 39.03	−15 5.6	2.096	3.023	8.0	22.3
3 12	11 29.85	−14 42.5	2.057	3.017	5.9	22.1
3 22	11 20.48	−14 2.5	2.046	3.011	5.7	22.1
4 1	11 11.83	−13 10.4	2.063	3.004	7.7	22.2
4 11	11 4.72	−12 12.8	2.108	2.997	10.5	22.4
4 21	10 59.67	−11 16.2	2.175	2.989	13.3	22.5

38314 1999 RR_{112} 3 12.2 285°.32 1°.5/13.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.39	− 3 41.5	1.527	2.383	14.8	18.5
2 21	11 45.61	− 2 57.9	1.436	2.362	10.8	18.2
3 2	11 38.49	− 1 52.4	1.368	2.340	6.2	17.9
3 12	11 29.85	− 0 30.0	1.326	2.319	1.6	17.5
3 22	11 20.81	+ 1 0.7	1.311	2.297	4.9	17.7
4 1	11 12.65	+ 2 29.7	1.323	2.275	10.1	17.9
4 11	11 6.51	+ 3 47.3	1.358	2.253	14.8	18.2
4 21	11 3.08	+ 4 46.9	1.413	2.231	18.9	18.4

56256 1999 JO_{82} 3 12.2 310°.75 0°.0/12.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 47.73	− 1 0.1	1.642	2.506	13.4	18.2
2 21	11 43.48	+ 0 10.4	1.564	2.497	9.5	18.0
3 2	11 37.24	+ 1 39.0	1.511	2.488	5.0	17.7
3 12	11 29.83	+ 3 18.5	1.485	2.479	0.1	17.3
3 22	11 22.26	+ 4 59.5	1.487	2.470	4.9	17.6
4 1	11 15.59	+ 6 32.2	1.516	2.462	9.6	17.9
4 11	11 10.75	+ 7 48.5	1.569	2.453	13.8	18.1
4 21	11 8.26	+ 8 44.2	1.642	2.445	17.3	18.3

401563 2013 FH_{5} 3 12.2 91°.06 5°.2/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.78	+14 20.0	1.472	2.354	13.6	20.5
2 21	11 49.70	+15 17.1	1.429	2.368	9.6	20.3
3 2	11 40.35	+16 11.9	1.410	2.382	6.1	20.1
3 12	11 29.88	+16 55.2	1.418	2.395	5.6	20.1
3 22	11 19.64	+17 19.9	1.453	2.409	8.6	20.3
4 1	11 10.89	+17 22.5	1.513	2.422	12.4	20.6
4 11	11 4.53	+17 3.1	1.594	2.435	15.9	20.8
4 21	11 0.97	+16 24.3	1.694	2.448	18.8	21.0

246102 2007 EY_{156} 3 12.2 324°.93 2°.1/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.00	+ 3 51.8	1.169	2.058	15.9	20.2
2 21	11 45.65	+ 5 0.2	1.103	2.049	11.0	19.9
3 2	11 38.58	+ 6 25.3	1.059	2.040	5.6	19.5
3 12	11 29.86	+ 7 56.4	1.039	2.031	2.3	19.3
3 22	11 20.92	+ 9 21.2	1.044	2.023	7.3	19.6
4 1	11 13.30	+10 28.4	1.072	2.016	12.9	19.8
4 11	11 8.21	+11 11.0	1.121	2.009	17.8	20.1
4 21	11 6.29	+11 26.7	1.186	2.003	21.9	20.3

72506 2001 DV_{69} 3 12.2 40°.64 0°.6/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 51.15	− 0 45.0	1.280	2.153	16.0	18.7
2 21	11 46.04	− 0 7.1	1.229	2.164	11.3	18.4
3 2	11 38.57	+ 0 48.5	1.200	2.176	6.0	18.2
3 12	11 29.86	+ 1 54.2	1.195	2.189	0.7	17.8
3 22	11 21.24	+ 3 0.7	1.217	2.202	5.3	18.2
4 1	11 14.01	+ 3 58.9	1.264	2.216	10.4	18.5
4 11	11 9.14	+ 4 41.9	1.333	2.230	14.9	18.8
4 21	11 7.08	+ 5 6.5	1.420	2.244	18.5	19.1

62668 2000 TR_2 3 12.2 119°.92 0°.1/12.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.70	+ 1 51.4	2.450	3.301	10.0	20.0
2 21	11 44.90	+ 2 8.7	2.382	3.309	7.0	19.8
3 2	11 37.74	+ 2 33.4	2.341	3.316	3.6	19.6
3 12	11 29.86	+ 3 2.0	2.330	3.323	0.1	19.3
3 22	11 21.97	+ 3 30.6	2.349	3.330	3.5	19.6
4 1	11 14.83	+ 3 55.2	2.396	3.337	6.8	19.8
4 11	11 9.03	+ 4 12.7	2.471	3.344	9.8	20.0
4 21	11 4.96	+ 4 21.1	2.568	3.351	12.3	20.2

133269 2003 SG_4 3 12.2 247°.82 0°.4/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.76	+ 2 29.7	2.106	2.966	11.1	20.6
2 21	11 45.24	+ 3 2.8	2.026	2.957	7.8	20.3
3 2	11 38.04	+ 3 45.1	1.971	2.948	4.0	20.1
3 12	11 29.86	+ 4 32.1	1.945	2.938	0.4	19.8
3 22	11 21.55	+ 5 18.2	1.948	2.929	4.2	20.1
4 1	11 14.00	+ 5 58.2	1.979	2.919	8.1	20.3
4 11	11 7.97	+ 6 27.7	2.036	2.909	11.6	20.5
4 21	11 3.96	+ 6 44.3	2.115	2.899	14.6	20.7

86553 2000 ER_8 3 12.2 237°.81 1°.4/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.43	+ 2 52.9	1.619	2.488	13.4	19.4
2 21	11 46.85	+ 4 6.5	1.540	2.476	9.3	19.1
3 2	11 39.05	+ 5 34.7	1.485	2.464	4.7	18.8
3 12	11 29.88	+ 7 9.3	1.459	2.451	1.6	18.6
3 22	11 20.47	+ 8 40.5	1.460	2.437	5.9	18.8
4 1	11 12.02	+ 9 59.0	1.488	2.423	10.7	19.1
4 11	11 5.56	+10 58.2	1.541	2.408	15.0	19.3
4 21	11 1.70	+11 35.1	1.612	2.393	18.5	19.5

104105 2000 EQ_{44} 3 12.2 169°.29 1°.6/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.76	− 5 20.9	2.254	3.084	11.6	19.9
2 21	11 45.09	− 4 33.5	2.177	3.089	8.5	19.7
3 2	11 37.90	− 3 30.7	2.127	3.093	5.0	19.5
3 12	11 29.87	− 2 16.8	2.106	3.096	1.8	19.3
3 22	11 21.79	− 0 57.7	2.115	3.099	3.5	19.4
4 1	11 14.47	+ 0 20.0	2.154	3.101	7.1	19.6
4 11	11 8.61	+ 1 30.2	2.220	3.102	10.4	19.9
4 21	11 4.62	+ 2 28.7	2.309	3.103	13.2	20.0

400254 2007 RC 3 12.2 202°.27 1°.8/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.63	+ 5 28.8	1.891	2.757	11.9	22.1
2 21	11 47.37	+ 6 27.5	1.818	2.753	8.2	21.9
3 2	11 39.19	+ 7 34.6	1.770	2.748	4.2	21.6
3 12	11 29.89	+ 8 43.4	1.752	2.742	2.0	21.4
3 22	11 20.48	+ 9 46.4	1.762	2.736	5.5	21.7
4 1	11 11.99	+10 37.3	1.801	2.729	9.6	21.9
4 11	11 5.28	+11 11.9	1.864	2.721	13.2	22.1
4 21	11 0.87	+11 28.7	1.948	2.713	16.3	22.3

57183 2001 QG_{29} 3 12.2 168°.41 0°.1/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 47.96	+ 1 13.6	3.123	3.969	8.3	20.2
2 21	11 42.82	+ 2 0.2	3.049	3.974	5.7	20.1
3 2	11 36.62	+ 2 54.1	3.003	3.978	2.9	19.9
3 12	11 29.86	+ 3 51.4	2.989	3.982	0.1	19.6
3 22	11 23.07	+ 4 48.2	3.005	3.986	3.0	19.9
4 1	11 16.82	+ 5 40.5	3.053	3.988	5.8	20.1
4 11	11 11.57	+ 6 25.2	3.128	3.990	8.3	20.3
4 21	11 7.67	+ 6 59.9	3.226	3.992	10.4	20.4

21396 Fisher–Ives 3 12.2 290°.68 2°.1/10.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.74	+ 5 53.0	1.493	2.371	13.8	19.1
2 21	11 47.31	+ 6 38.9	1.408	2.349	9.6	18.8
3 2	11 39.40	+ 7 35.5	1.348	2.327	5.0	18.5
3 12	11 29.90	+ 8 35.1	1.314	2.305	2.3	18.3
3 22	11 20.03	+ 9 29.1	1.306	2.283	6.6	18.5
4 1	11 11.14	+10 9.6	1.325	2.261	11.6	18.7
4 11	11 4.39	+10 31.2	1.365	2.239	16.1	18.9
4 21	11 0.49	+10 32.3	1.424	2.217	20.0	19.1

176779 2002 RU_{246} 3 12.2 94°.15 2°.8/15.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.37	− 9 2.4	1.642	2.476	15.1	20.1
2 21	11 44.51	− 8 1.4	1.575	2.485	11.3	19.9
3 2	11 37.72	− 6 35.5	1.532	2.493	7.0	19.6
3 12	11 29.87	− 4 50.7	1.515	2.502	3.2	19.4
3 22	11 22.02	− 2 56.2	1.526	2.511	4.4	19.5
4 1	11 15.20	− 1 2.7	1.565	2.519	8.5	19.8
4 11	11 10.28	+ 0 39.9	1.629	2.527	12.5	20.0
4 21	11 7.72	+ 2 5.1	1.715	2.536	16.0	20.3

121886 2000 DF_{10} 3 12.2 15°.36 1°.3/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 51.60	+ 2 38.1	1.228	2.109	15.8	19.3
2 21	11 46.57	+ 3 36.9	1.168	2.110	11.0	19.0
3 2	11 38.96	+ 4 51.5	1.132	2.112	5.5	18.7
3 12	11 29.90	+ 6 12.3	1.120	2.113	1.4	18.5
3 22	11 20.78	+ 7 28.4	1.134	2.115	6.5	18.8
4 1	11 13.03	+ 8 29.8	1.172	2.117	11.8	19.1
4 11	11 7.77	+ 9 10.0	1.232	2.120	16.5	19.4
4 21	11 5.53	+ 9 27.0	1.309	2.123	20.4	19.6

205450 2001 PQ_{32} 3 12.2 178°.97 4°.9/ 6.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.48	+18 10.8	2.418	3.293	9.3	20.6
2 21	11 44.84	+19 16.7	2.362	3.293	6.8	20.5
3 2	11 37.75	+20 18.9	2.334	3.294	5.1	20.4
3 12	11 29.88	+21 11.1	2.334	3.294	5.3	20.4
3 22	11 22.02	+21 48.5	2.363	3.294	7.3	20.5
4 1	11 14.94	+22 7.8	2.419	3.294	9.8	20.6
4 11	11 9.29	+22 8.6	2.498	3.294	12.2	20.8
4 21	11 5.47	+21 51.8	2.596	3.293	14.2	21.0

499146 2009 RC_{29} 3 12.2 232°.49 1°.9/14.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.26	− 4 57.6	2.146	2.980	12.0	22.7
2 21	11 45.63	− 4 29.6	2.055	2.968	8.8	22.4
3 2	11 38.28	− 3 46.0	1.989	2.955	5.3	22.2
3 12	11 29.89	− 2 50.2	1.952	2.942	2.1	21.9
3 22	11 21.31	− 1 47.4	1.944	2.928	3.8	22.0
4 1	11 13.43	− 0 43.9	1.965	2.914	7.5	22.2
4 11	11 7.04	+ 0 14.2	2.013	2.899	11.1	22.4
4 21	11 2.67	+ 1 2.2	2.083	2.884	14.2	22.6

45183 1999 XG_{153} 3 12.2 233°.19 1°.0/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.42	+ 3 49.5	1.929	2.791	11.9	19.8
2 21	11 47.27	+ 4 30.3	1.846	2.779	8.3	19.5
3 2	11 39.17	+ 5 20.6	1.789	2.766	4.2	19.3
3 12	11 29.91	+ 6 14.7	1.761	2.753	1.1	19.0
3 22	11 20.45	+ 7 6.3	1.761	2.740	4.9	19.2
4 1	11 11.83	+ 7 49.2	1.790	2.725	9.1	19.5
4 11	11 4.93	+ 8 19.0	1.844	2.711	12.9	19.7
4 21	11 0.31	+ 8 33.4	1.919	2.695	16.1	19.8

9045 1991 PG_{15} 3 12.2 181°.25 0°.8/11.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.95	+ 3 3.9	2.063	2.921	11.4	19.3
2 21	11 46.74	+ 3 51.4	1.991	2.922	7.9	19.1
3 2	11 38.80	+ 4 48.2	1.946	2.923	4.0	18.8
3 12	11 29.90	+ 5 48.6	1.930	2.923	0.8	18.6
3 22	11 20.95	+ 6 46.3	1.944	2.922	4.5	18.9
4 1	11 12.86	+ 7 35.7	1.986	2.921	8.4	19.1
4 11	11 6.40	+ 8 12.4	2.054	2.919	11.9	19.3
4 21	11 2.04	+ 8 34.4	2.144	2.916	14.8	19.5

473250 2015 MA_2 3 12.2 289°.13 4°.0/ 7.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.13	+13 43.1	2.280	3.159	9.6	21.3
2 21	11 43.36	+14 53.8	2.207	3.145	6.8	21.1
3 2	11 37.05	+16 5.5	2.162	3.132	4.4	20.9
3 12	11 29.87	+17 11.5	2.145	3.119	4.4	20.9
3 22	11 22.58	+18 5.6	2.157	3.106	6.8	21.0
4 1	11 15.99	+18 43.4	2.196	3.093	9.7	21.2
4 11	11 10.79	+19 2.6	2.259	3.080	12.5	21.4
4 21	11 7.43	+19 3.2	2.341	3.067	14.9	21.5

301811 2011 OE_{20} 3 12.2 236°.76 1°.5/13.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.57	− 2 19.9	1.652	2.500	14.2	21.8
2 21	11 49.09	− 2 3.5	1.566	2.488	10.4	21.5
3 2	11 40.25	− 1 30.9	1.503	2.474	5.9	21.2
3 12	11 29.94	− 0 46.1	1.468	2.460	1.7	20.9
3 22	11 19.30	+ 0 4.8	1.462	2.446	4.7	21.1
4 1	11 9.63	+ 0 54.5	1.482	2.430	9.5	21.3
4 11	11 2.00	+ 1 36.0	1.527	2.414	13.9	21.5
4 21	10 57.06	+ 2 4.9	1.593	2.398	17.7	21.7

224255 2005 SV_{213} 3 12.2 188°.61 4°.1/16.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.02	−10 2.2	2.061	2.872	13.3	21.2
2 21	11 46.88	−10 9.3	1.979	2.871	10.3	21.0
3 2	11 38.92	− 9 58.2	1.922	2.870	7.0	20.8
3 12	11 29.92	− 9 30.6	1.892	2.869	4.4	20.7
3 22	11 20.77	− 8 50.1	1.890	2.868	4.8	20.7
4 1	11 12.44	− 8 2.1	1.917	2.866	7.7	20.8
4 11	11 5.76	− 7 13.1	1.970	2.863	11.0	21.0
4 21	11 1.23	− 6 28.7	2.045	2.860	14.0	21.2

491305 2011 WR_{25} 3 12.2 245°.65 0°.2/12.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.74	− 0 0.5	1.740	2.596	13.3	22.6
2 21	11 47.74	+ 0 41.7	1.651	2.579	9.5	22.4
3 2	11 39.53	+ 1 39.1	1.587	2.562	5.0	22.1
3 12	11 29.93	+ 2 46.2	1.550	2.543	0.2	21.6
3 22	11 20.01	+ 3 55.5	1.542	2.524	4.8	22.0
4 1	11 10.95	+ 4 59.2	1.561	2.504	9.6	22.2
4 11	11 3.77	+ 5 50.5	1.606	2.484	13.9	22.4
4 21	10 59.11	+ 6 25.5	1.670	2.463	17.5	22.6

104944 2000 JN_{41} 3 12.2 102°.65 3°.6/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 51.93	+13 12.0	2.165	3.039	10.2	19.5
2 21	11 45.89	+13 57.2	2.111	3.048	7.2	19.4
3 2	11 38.29	+14 41.9	2.084	3.056	4.4	19.2
3 12	11 29.91	+15 20.0	2.086	3.064	3.9	19.2
3 22	11 21.59	+15 46.7	2.116	3.073	6.3	19.3
4 1	11 14.19	+15 58.7	2.174	3.081	9.3	19.5
4 11	11 8.37	+15 54.8	2.256	3.088	12.1	19.7
4 21	11 4.54	+15 35.6	2.358	3.096	14.5	19.9

434303 2004 EU_{100} 3 12.2 212°.62 0°.2/12.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 47.52	− 0 50.2	2.395	3.245	10.3	21.7
2 21	11 42.82	+ 0 3.7	2.316	3.242	7.3	21.5
3 2	11 36.74	+ 1 9.2	2.265	3.239	3.8	21.3
3 12	11 29.89	+ 2 21.5	2.242	3.236	0.3	21.0
3 22	11 22.96	+ 3 34.9	2.250	3.232	3.5	21.2
4 1	11 16.69	+ 4 43.6	2.287	3.229	7.0	21.5
4 11	11 11.70	+ 5 42.7	2.350	3.225	10.2	21.7
4 21	11 8.39	+ 6 28.9	2.436	3.221	12.9	21.8

58530 1997 CU_{2} 3 12.2 318°.68 2°.4/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 46.62	+ 6 53.1	2.002	2.879	10.8	19.0
2 21	11 42.46	+ 8 6.8	1.924	2.866	7.4	18.7
3 2	11 36.65	+ 9 28.6	1.873	2.852	3.9	18.5
3 12	11 29.89	+10 51.3	1.851	2.839	2.6	18.4
3 22	11 22.98	+12 7.2	1.857	2.826	5.8	18.6
4 1	11 16.80	+13 9.7	1.889	2.813	9.5	18.8
4 11	11 12.12	+13 54.6	1.946	2.801	12.9	18.9
4 21	11 9.42	+14 20.0	2.023	2.789	15.7	19.1

246319 2007 TQ_{172} 3 12.2 79°.18 2°.9/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.23	+ 7 42.8	2.180	3.054	10.2	19.9
2 21	11 43.28	+ 9 39.9	2.137	3.076	6.9	19.7
3 2	11 36.94	+11 41.4	2.122	3.099	3.8	19.5
3 12	11 29.89	+13 38.8	2.138	3.121	3.3	19.5
3 22	11 22.92	+15 24.0	2.185	3.143	6.0	19.8
4 1	11 16.79	+16 51.0	2.260	3.164	9.1	20.0
4 11	11 12.11	+17 56.6	2.360	3.186	11.9	20.2
4 21	11 9.23	+18 40.4	2.480	3.207	14.1	20.4

202798 2008 QG_{36} 3 12.2 167°.42 0°.0/12.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.44	+ 1 30.7	2.215	3.069	10.9	21.4
2 21	11 45.59	+ 2 0.1	2.144	3.072	7.6	21.2
3 2	11 38.18	+ 2 38.8	2.099	3.074	4.0	21.0
3 12	11 29.92	+ 3 22.1	2.083	3.077	0.1	20.7
3 22	11 21.62	+ 4 5.3	2.097	3.079	3.9	21.0
4 1	11 14.11	+ 4 43.3	2.139	3.080	7.5	21.2
4 11	11 8.10	+ 5 12.3	2.208	3.081	10.8	21.4
4 21	11 4.00	+ 5 29.8	2.299	3.082	13.6	21.6

128582 2004 PC_{106} 3 12.2 222°.70 2°.1/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.67	+ 7 54.1	2.390	3.255	9.8	20.9
2 21	11 45.75	+ 8 44.3	2.310	3.245	6.7	20.7
3 2	11 38.29	+ 9 39.3	2.256	3.233	3.6	20.5
3 12	11 29.92	+10 33.6	2.233	3.221	2.2	20.3
3 22	11 21.44	+11 22.0	2.240	3.208	5.0	20.5
4 1	11 13.63	+11 59.7	2.275	3.195	8.3	20.7
4 11	11 7.21	+12 23.9	2.336	3.181	11.4	20.9
4 21	11 2.64	+12 33.3	2.419	3.166	13.9	21.0

355789 2008 SA_{57} 3 12.2 61°.21 3°.5/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.35	+ 9 30.3	1.272	2.157	15.1	20.4
2 21	11 49.72	+10 10.8	1.222	2.165	10.5	20.2
3 2	11 40.51	+10 55.4	1.196	2.174	5.7	19.9
3 12	11 29.96	+11 34.9	1.196	2.184	3.7	19.8
3 22	11 19.55	+12 1.4	1.221	2.193	7.7	20.1
4 1	11 10.73	+12 9.5	1.271	2.203	12.4	20.4
4 11	11 4.53	+11 57.4	1.342	2.213	16.6	20.7
4 21	11 1.41	+11 26.6	1.431	2.222	20.0	20.9

271740 2004 RQ_{308} 3 12.2 256°.32 2°.3/14.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.91	− 5 11.8	2.085	2.918	12.3	21.1
2 21	11 46.18	− 5 1.7	1.990	2.901	9.2	20.8
3 2	11 38.62	− 4 36.5	1.921	2.885	5.6	20.6
3 12	11 29.93	− 3 58.8	1.879	2.867	2.5	20.3
3 22	11 20.99	− 3 13.0	1.866	2.850	4.0	20.4
4 1	11 12.74	− 2 24.5	1.882	2.832	7.7	20.6
4 11	11 6.03	− 1 39.5	1.924	2.813	11.4	20.8
4 21	11 1.43	− 1 2.6	1.988	2.794	14.6	20.9

319297 2006 BX_{103} 3 12.2 47°.19 0°.8/12.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.62	− 0 28.0	1.156	2.031	17.1	20.7
2 21	11 47.90	− 0 4.0	1.110	2.047	12.1	20.4
3 2	11 39.59	+ 0 37.8	1.086	2.062	6.5	20.1
3 12	11 29.95	+ 1 30.2	1.085	2.079	0.9	19.8
3 22	11 20.48	+ 2 23.9	1.110	2.096	5.5	20.2
4 1	11 12.63	+ 3 10.0	1.159	2.113	10.9	20.5
4 11	11 7.43	+ 3 41.7	1.230	2.131	15.6	20.8
4 21	11 5.29	+ 3 56.1	1.319	2.149	19.4	21.1

178978 2001 QK_{257} 3 12.2 194°.25 2°.3/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 55.33	+ 9 16.0	2.144	3.009	10.7	20.2
2 21	11 48.36	+ 9 46.4	2.072	3.007	7.4	20.0
3 2	11 39.64	+10 19.5	2.028	3.004	4.0	19.8
3 12	11 29.96	+10 50.0	2.013	3.001	2.5	19.7
3 22	11 20.23	+11 13.1	2.028	2.998	5.4	19.9
4 1	11 11.39	+11 24.9	2.072	2.993	8.9	20.1
4 11	11 4.22	+11 23.4	2.141	2.989	12.1	20.3
4 21	10 59.17	+11 8.4	2.231	2.983	14.8	20.4

200800 2001 XY_{120} 3 12.2 48°.26 1°.1/13.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.94	− 2 4.1	1.244	2.114	16.6	20.4
2 21	11 46.70	− 1 27.4	1.190	2.123	11.8	20.1
3 2	11 38.99	− 0 30.6	1.158	2.133	6.5	19.9
3 12	11 29.94	+ 0 38.9	1.151	2.144	1.2	19.5
3 22	11 20.94	+ 1 51.5	1.169	2.155	5.3	19.8
4 1	11 13.37	+ 2 57.1	1.212	2.166	10.6	20.2
4 11	11 8.24	+ 3 47.8	1.277	2.177	15.2	20.5
4 21	11 6.05	+ 4 19.7	1.361	2.189	19.0	20.7

408248 2013 EC_{125} 3 12.2 318°.56 1°.0/11.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.05	+ 1 59.7	1.306	2.186	15.2	20.7
2 21	11 45.52	+ 2 56.5	1.235	2.176	10.7	20.4
3 2	11 38.48	+ 4 10.3	1.187	2.166	5.4	20.1
3 12	11 29.94	+ 5 32.7	1.163	2.157	1.0	19.8
3 22	11 21.17	+ 6 53.0	1.166	2.148	6.2	20.1
4 1	11 13.57	+ 8 1.0	1.193	2.139	11.6	20.3
4 11	11 8.28	+ 8 49.1	1.242	2.131	16.3	20.6
4 21	11 5.92	+ 9 14.2	1.309	2.124	20.3	20.8

343672 2010 OP_{69} 3 12.2 136°.97 2°.4/15.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 47.99	− 7 37.4	2.388	3.211	11.3	20.8
2 21	11 43.13	− 7 4.0	2.312	3.216	8.4	20.6
3 2	11 36.90	− 6 15.1	2.261	3.220	5.3	20.4
3 12	11 29.91	− 5 13.9	2.239	3.225	2.6	20.3
3 22	11 22.88	− 4 5.4	2.246	3.229	3.4	20.3
4 1	11 16.55	− 2 55.5	2.283	3.234	6.5	20.5
4 11	11 11.52	− 1 49.7	2.346	3.238	9.5	20.7
4 21	11 8.20	− 0 52.7	2.433	3.242	12.2	20.9

514546 2017 SK_{23} 3 12.2 220°.81 1°.2/13.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.44	− 2 39.3	2.148	2.991	11.6	21.9
2 21	11 45.00	− 2 13.9	2.067	2.986	8.4	21.7
3 2	11 37.93	− 1 35.5	2.011	2.982	4.8	21.5
3 12	11 29.93	− 0 47.7	1.984	2.976	1.4	21.2
3 22	11 21.81	+ 0 4.3	1.987	2.971	3.7	21.4
4 1	11 14.43	+ 0 54.9	2.018	2.965	7.4	21.6
4 11	11 8.55	+ 1 38.9	2.075	2.959	10.9	21.8
4 21	11 4.62	+ 2 12.5	2.154	2.953	13.9	22.0

397492 2007 RS_{138} 3 12.2 168°.46 0°.8/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.41	− 1 41.4	1.915	2.762	12.6	22.2
2 21	11 47.15	− 1 1.7	1.844	2.767	9.0	21.9
3 2	11 39.06	− 0 8.0	1.798	2.771	4.9	21.7
3 12	11 29.95	+ 0 54.7	1.781	2.774	0.9	21.4
3 22	11 20.79	+ 1 59.8	1.793	2.777	4.1	21.7
4 1	11 12.57	+ 3 0.5	1.834	2.778	8.3	21.9
4 11	11 6.11	+ 3 51.1	1.900	2.780	12.0	22.1
4 21	11 1.88	+ 4 28.0	1.988	2.780	15.1	22.4

219323 2000 GC 3 12.2 250°.48 4°.1/ 8.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.49	+14 21.1	2.041	2.909	11.1	21.4
2 21	11 50.09	+14 55.0	1.958	2.891	7.9	21.1
3 2	11 40.65	+15 27.8	1.902	2.873	4.9	20.9
3 12	11 29.99	+15 52.9	1.875	2.854	4.3	20.8
3 22	11 19.14	+16 5.0	1.878	2.834	7.0	20.9
4 1	11 9.19	+16 0.6	1.908	2.814	10.5	21.1
4 11	11 1.04	+15 38.7	1.963	2.793	13.8	21.3
4 21	10 55.27	+15 0.5	2.038	2.771	16.6	21.4

333604 2007 GS_{44} 3 12.2 245°.78 1°.8/10.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.17	+ 6 39.9	2.151	3.018	10.6	21.7
2 21	11 45.56	+ 7 27.4	2.069	3.006	7.3	21.5
3 2	11 38.25	+ 8 21.2	2.015	2.992	3.8	21.3
3 12	11 29.95	+ 9 15.7	1.989	2.979	2.0	21.1
3 22	11 21.50	+10 5.0	1.993	2.965	5.1	21.3
4 1	11 13.78	+10 43.9	2.024	2.951	8.8	21.5
4 11	11 7.58	+11 8.7	2.081	2.937	12.1	21.7
4 21	11 3.37	+11 18.2	2.159	2.922	15.0	21.8

169996 2002 TX_{262} 3 12.2 229°.30 0°.9/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.32	+ 3 46.6	2.261	3.123	10.4	20.1
2 21	11 44.15	+ 4 32.0	2.185	3.118	7.2	19.9
3 2	11 37.47	+ 5 25.5	2.135	3.113	3.6	19.7
3 12	11 29.94	+ 6 22.0	2.115	3.107	1.0	19.4
3 22	11 22.32	+ 7 15.9	2.124	3.102	4.3	19.7
4 1	11 15.42	+ 8 2.0	2.161	3.096	7.8	19.9
4 11	11 9.91	+ 8 36.5	2.224	3.090	11.1	20.1
4 21	11 6.24	+ 8 57.3	2.309	3.084	13.8	20.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
371225 2006 BO_{52}			3 12.2 121°.73		1°.4/10.6 16	
	h m	° ′			°	m
2 11	11 51.26	+ 5 13.2	2.194	3.058	10.6	21.9
2 21	11 45.39	+ 6 8.2	2.139	3.073	7.2	21.7
3 2	11 38.05	+ 7 9.5	2.110	3.088	3.6	21.5
3 12	11 29.95	+ 8 11.2	2.111	3.102	1.6	21.4
3 22	11 21.92	+ 9 7.5	2.142	3.116	4.6	21.6
4 1	11 14.76	+ 9 53.4	2.202	3.130	8.1	21.9
4 11	11 9.11	+10 25.8	2.286	3.143	11.1	22.1
4 21	11 5.36	+10 43.4	2.393	3.155	13.7	22.3
9915 Potanin			3 12.2 125°.02		1°.2/10.8 18	
2 11	11 50.71	+ 5 15.5	2.424	3.285	9.8	18.5
2 21	11 44.92	+ 5 57.0	2.366	3.299	6.7	18.4
3 2	11 37.78	+ 6 43.9	2.334	3.312	3.4	18.2
3 12	11 29.96	+ 7 31.4	2.332	3.324	1.3	18.0
3 22	11 22.18	+ 8 14.8	2.361	3.336	4.1	18.3
4 1	11 15.17	+ 8 50.0	2.418	3.348	7.4	18.5
4 11	11 9.53	+ 9 14.0	2.502	3.359	10.3	18.7
4 21	11 5.63	+ 9 25.7	2.607	3.370	12.7	18.9
58544 1997 EK_{42}			3 12.2 310°.05		1°.4/13.6 18	
2 11	11 49.38	− 2 26.6	2.203	3.048	11.3	19.0
2 21	11 44.26	− 2 14.7	2.121	3.041	8.2	18.8
3 2	11 37.57	− 1 51.0	2.064	3.033	4.7	18.6
3 12	11 29.96	− 1 18.5	2.035	3.026	1.5	18.3
3 22	11 22.24	− 0 41.5	2.035	3.019	3.6	18.5
4 1	11 15.22	− 0 4.9	2.063	3.012	7.2	18.7
4 11	11 9.62	+ 0 26.6	2.118	3.006	10.6	18.9
4 21	11 5.91	+ 0 49.6	2.194	2.999	13.5	19.1
399426 2001 XW_{102}			3 12.2 81°.33		6°.0/ 7.4 18	
2 11	11 54.79	+14 40.0	1.373	2.261	14.0	20.9
2 21	11 48.56	+15 58.2	1.328	2.269	10.0	20.6
3 2	11 39.91	+17 14.7	1.306	2.277	6.6	20.5
3 12	11 30.01	+18 18.4	1.310	2.285	6.5	20.5
3 22	11 20.24	+19 0.5	1.341	2.293	9.6	20.7
4 1	11 11.93	+19 16.3	1.395	2.301	13.5	20.9
4 11	11 6.07	+19 5.7	1.469	2.308	17.1	21.2
4 21	11 3.11	+18 31.6	1.561	2.316	20.1	21.4
466161 2012 HR_{79}			3 12.2 305°.02		3°.7/ 8.3 17	
2 11	11 47.90	+ 7 51.5	1.591	2.477	12.6	20.9
2 21	11 43.75	+ 9 36.2	1.516	2.461	8.7	20.7
3 2	11 37.50	+11 31.8	1.467	2.445	4.8	20.4
3 12	11 29.97	+13 27.7	1.445	2.429	4.1	20.3
3 22	11 22.22	+15 12.5	1.450	2.414	7.8	20.5
4 1	11 15.37	+16 36.7	1.481	2.399	12.1	20.7
4 11	11 10.42	+17 34.6	1.534	2.384	16.0	20.9
4 21	11 7.95	+18 5.1	1.605	2.369	19.3	21.1
87716 2000 SP_{36}			3 12.2 205°.67		4°.3/ 8.0 18	
2 11	11 54.49	+14 48.1	2.088	2.961	10.6	20.1
2 21	11 47.84	+15 34.3	2.023	2.957	7.6	19.9
3 2	11 39.42	+16 19.0	1.984	2.953	4.9	19.8
3 12	11 30.02	+16 55.6	1.974	2.949	4.5	19.7
3 22	11 20.60	+17 18.9	1.993	2.944	7.0	19.9
4 1	11 12.11	+17 25.4	2.039	2.940	10.2	20.0
4 11	11 5.33	+17 14.2	2.109	2.934	13.1	20.2
4 21	11 0.73	+16 46.4	2.199	2.928	15.7	20.4
241499 2009 CD_{24}			3 12.2 6°.75		1°.0/10.9 17	
2 11	11 47.48	+ 3 1.5	2.164	3.029	10.6	20.4
2 21	11 42.91	+ 4 6.7	2.094	3.029	7.3	20.1
3 2	11 36.85	+ 5 21.6	2.051	3.029	3.7	19.9
3 12	11 29.97	+ 6 39.9	2.037	3.029	1.1	19.7
3 22	11 23.04	+ 7 55.0	2.052	3.029	4.4	20.0
4 1	11 16.85	+ 9 0.8	2.095	3.030	8.1	20.2
4 11	11 12.07	+ 9 52.7	2.164	3.030	11.3	20.4
4 21	11 9.12	+10 28.5	2.254	3.030	14.0	20.6
298859 2004 RX_{250}			3 12.2 138°.00		0°.7/11.5 18	
2 11	11 54.72	+ 2 26.4	1.832	2.691	12.6	21.4
2 21	11 48.04	+ 3 16.7	1.774	2.705	8.7	21.2
3 2	11 39.52	+ 4 17.3	1.741	2.718	4.4	21.0
3 12	11 30.02	+ 5 21.6	1.737	2.730	0.7	20.7
3 22	11 20.59	+ 6 22.7	1.763	2.742	4.8	21.0
4 1	11 12.24	+ 7 14.2	1.816	2.753	8.9	21.3
4 11	11 5.77	+ 7 51.7	1.895	2.763	12.6	21.5
4 21	11 1.61	+ 8 13.3	1.995	2.772	15.6	21.8
182573 2001 TF_{160}			3 12.2 160°.64		2°.3/ 9.5 18	
2 11	11 51.96	+ 8 24.6	2.434	3.299	9.6	21.4
2 21	11 45.83	+ 9 25.4	2.372	3.307	6.6	21.2
3 2	11 38.29	+10 29.9	2.338	3.314	3.5	21.0
3 12	11 30.00	+11 32.3	2.335	3.321	2.4	20.9
3 22	11 21.72	+12 27.3	2.361	3.327	5.0	21.1
4 1	11 14.21	+13 10.4	2.417	3.332	8.1	21.3
4 11	11 8.09	+13 39.0	2.499	3.336	10.9	21.5
4 21	11 3.77	+13 52.5	2.602	3.340	13.3	21.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
458823 2011 UH_2			3 12.2 194°.96		3°.1/15.0 18	
	h m	° ′			°	m
2 11	11 53.26	− 7 38.8	1.766	2.595	14.4	22.1
2 21	11 47.29	− 7 16.3	1.687	2.594	10.8	21.9
3 2	11 39.26	− 6 33.2	1.631	2.591	6.8	21.6
3 12	11 30.02	− 5 33.0	1.602	2.589	3.4	21.4
3 22	11 20.63	− 4 21.8	1.602	2.585	4.5	21.5
4 1	11 12.18	− 3 7.5	1.629	2.581	8.5	21.7
4 11	11 5.62	− 1 58.3	1.682	2.577	12.5	21.9
4 21	11 1.49	− 1 0.3	1.757	2.571	15.9	22.1
407368 2010 RS_{129}			3 12.2 202°.02		0°.8/11.4 17	
2 11	11 52.62	+ 2 41.9	1.957	2.816	11.8	21.7
2 21	11 46.66	+ 3 34.3	1.881	2.813	8.2	21.5
3 2	11 38.86	+ 4 37.3	1.831	2.808	4.2	21.2
3 12	11 30.02	+ 5 44.9	1.810	2.803	0.9	21.0
3 22	11 21.05	+ 6 50.2	1.819	2.798	4.7	21.2
4 1	11 12.95	+ 7 46.7	1.856	2.791	8.8	21.5
4 11	11 6.54	+ 8 29.5	1.918	2.784	12.5	21.7
4 21	11 2.32	+ 8 56.3	2.001	2.777	15.6	21.9
367496 2009 HW_{46}			3 12.2 285°.88		1°.7/10.8 17	
2 11	11 52.45	+ 4 51.6	1.536	2.411	13.6	21.3
2 21	11 47.05	+ 5 37.4	1.454	2.393	9.5	21.0
3 2	11 39.28	+ 6 34.5	1.396	2.375	4.9	20.7
3 12	11 30.03	+ 7 35.7	1.365	2.357	1.8	20.5
3 22	11 20.47	+ 8 32.6	1.361	2.339	6.1	20.7
4 1	11 11.88	+ 9 17.3	1.383	2.321	11.0	20.9
4 11	11 5.38	+ 9 44.4	1.427	2.303	15.5	21.1
4 21	11 1.61	+ 9 51.8	1.490	2.285	19.2	21.3
236176 2005 VP_{38}			3 12.2 239°.05		2°.1/10.4 18	
2 11	11 54.05	+ 5 9.5	1.608	2.480	13.3	20.7
2 21	11 48.07	+ 6 13.6	1.529	2.467	9.3	20.4
3 2	11 39.77	+ 7 29.1	1.475	2.453	4.7	20.1
3 12	11 30.04	+ 8 47.9	1.448	2.439	2.2	19.9
3 22	11 20.05	+10 0.9	1.450	2.424	6.3	20.1
4 1	11 11.05	+10 59.8	1.478	2.409	11.0	20.3
4 11	11 4.11	+11 39.2	1.529	2.393	15.3	20.6
4 21	10 59.84	+11 57.2	1.599	2.376	18.8	20.8
439898 2000 TG_2			3 12.2 101°.54		8°.5/18.6 17	
2 11	12 2.60	−20 15.4	0.759	1.584	28.5	21.6
2 21	11 54.89	−19 6.5	0.723	1.616	22.6	21.3
3 2	11 43.38	−16 56.2	0.702	1.647	16.0	21.1
3 12	11 30.10	−13 52.5	0.700	1.676	10.1	20.9
3 22	11 17.51	−10 18.2	0.722	1.703	8.9	21.0
4 1	11 7.74	− 6 43.2	0.766	1.729	13.4	21.3
4 11	11 2.04	− 3 33.6	0.832	1.753	18.8	21.7
4 21	11 0.59	− 1 3.1	0.915	1.776	23.5	22.1
19539 Anaverdu			3 12.2 283°.70		2°.6/ 9.8 18	
2 11	11 51.08	+ 5 38.4	1.484	2.364	13.7	18.7
2 21	11 46.18	+ 6 55.8	1.402	2.344	9.5	18.4
3 2	11 38.87	+ 8 26.8	1.344	2.323	4.9	18.1
3 12	11 30.03	+10 1.8	1.313	2.302	2.9	17.9
3 22	11 20.84	+11 30.1	1.309	2.282	7.1	18.1
4 1	11 12.61	+12 41.8	1.330	2.261	12.0	18.3
4 11	11 6.48	+13 30.4	1.373	2.240	16.5	18.5
4 21	11 3.13	+13 53.8	1.435	2.219	20.3	18.7
20052 1993 FS_{27}			3 12.2 163°.26		1°.9/14.2 18	R
2 11	11 49.93	− 5 15.4	2.101	2.937	12.1	18.6
2 21	11 44.66	− 4 41.8	2.026	2.939	8.9	18.4
3 2	11 37.79	− 3 52.5	1.976	2.942	5.3	18.2
3 12	11 30.02	− 2 51.5	1.954	2.944	2.1	17.9
3 22	11 22.18	− 1 44.4	1.961	2.946	3.7	18.1
4 1	11 15.15	− 0 37.7	1.997	2.947	7.3	18.3
4 11	11 9.62	+ 0 22.6	2.059	2.949	10.8	18.5
4 21	11 6.06	+ 1 12.0	2.144	2.950	13.7	18.7
31577 1999 FO_{27}			3 12.2 5°.64		1°.4/13.7 18	
2 11	11 48.30	− 5 15.7	1.764	2.610	13.6	18.3
2 21	11 43.77	− 4 6.6	1.690	2.610	9.9	18.1
3 2	11 37.41	− 2 37.0	1.640	2.610	5.6	17.8
3 12	11 30.01	− 0 53.0	1.618	2.610	1.6	17.5
3 22	11 22.52	+ 0 56.4	1.625	2.610	4.1	17.7
4 1	11 15.94	+ 2 41.5	1.660	2.611	8.5	18.0
4 11	11 11.09	+ 4 13.7	1.720	2.611	12.5	18.2
4 21	11 8.44	+ 5 27.9	1.802	2.611	15.8	18.4
206329 2003 OB_6			3 12.2 239°.77		1°.5/10.7 17	
2 11	11 52.79	+ 4 6.2	1.894	2.758	12.0	20.9
2 21	11 46.95	+ 5 11.1	1.807	2.742	8.3	20.7
3 2	11 39.11	+ 6 27.3	1.747	2.725	4.2	20.4
3 12	11 30.05	+ 7 47.8	1.716	2.707	1.6	20.1
3 22	11 20.72	+ 9 4.7	1.713	2.689	5.4	20.4
4 1	11 12.19	+10 10.6	1.739	2.670	9.7	20.6
4 11	11 5.39	+11 0.1	1.790	2.650	13.6	20.8
4 21	11 0.88	+11 30.6	1.861	2.629	16.8	20.9

451240 2010 FZ_{29} 3 12.2 21°.04 4°.0/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 57.05	+10 46.7	1.165	2.054	15.9	20.8
2 21	11 50.48	+11 12.6	1.112	2.057	11.1	20.5
3 2	11 41.06	+11 40.7	1.083	2.061	6.2	20.2
3 12	11 30.09	+12 2.0	1.077	2.065	4.2	20.1
3 22	11 19.21	+12 9.0	1.097	2.070	8.2	20.4
4 1	11 10.02	+11 57.0	1.140	2.075	13.2	20.6
4 11	11 3.68	+11 25.2	1.204	2.081	17.6	20.9
4 21	11 0.66	+10 35.5	1.285	2.087	21.3	21.2

498109 2007 RW_{317} 3 12.2 237°.12 1°.3/13.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.02	− 3 21.9	1.841	2.685	13.2	22.6
2 21	11 47.16	− 2 43.1	1.751	2.671	9.6	22.4
3 2	11 39.25	− 1 46.9	1.685	2.655	5.5	22.1
3 12	11 30.06	− 0 37.8	1.647	2.639	1.5	21.8
3 22	11 20.59	+ 0 37.4	1.638	2.623	4.3	21.9
4 1	11 11.93	+ 1 50.9	1.658	2.605	8.8	22.2
4 11	11 5.04	+ 2 55.3	1.703	2.587	12.9	22.4
4 21	11 0.51	+ 3 45.6	1.769	2.568	16.4	22.6

232020 2001 SB_{321} 3 12.2 278°.30 1°.3/11.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.67	+ 4 26.2	1.443	2.316	14.5	20.5
2 21	11 49.55	+ 4 55.2	1.356	2.293	10.2	20.2
3 2	11 40.71	+ 5 35.7	1.292	2.271	5.3	19.9
3 12	11 30.10	+ 6 21.0	1.255	2.248	1.3	19.5
3 22	11 19.01	+ 7 3.3	1.244	2.224	6.2	19.8
4 1	11 8.93	+ 7 34.9	1.259	2.201	11.6	20.0
4 11	11 1.15	+ 7 50.3	1.297	2.177	16.4	20.2
4 21	10 56.42	+ 7 47.3	1.353	2.153	20.5	20.4

99945 4589 P–L 3 12.2 241°.45 2°.0/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.79	+ 7 41.1	2.039	2.903	11.3	19.7
2 21	11 48.93	+ 8 14.4	1.952	2.886	7.9	19.4
3 2	11 40.11	+ 8 52.8	1.891	2.868	4.1	19.1
3 12	11 30.09	+ 9 30.7	1.860	2.850	2.2	19.0
3 22	11 19.83	+10 2.6	1.858	2.830	5.4	19.1
4 1	11 10.37	+10 23.5	1.885	2.811	9.4	19.3
4 11	11 2.62	+10 30.6	1.937	2.790	13.0	19.5
4 21	10 57.14	+10 22.7	2.010	2.769	16.1	19.7

292441 2006 SL_{351} 3 12.2 180°.10 1°.3/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.56	+ 5 27.3	2.672	3.534	9.0	21.4
2 21	11 43.44	+ 6 17.2	2.601	3.535	6.2	21.2
3 2	11 37.07	+ 7 12.6	2.558	3.535	3.1	21.0
3 12	11 30.03	+ 8 8.9	2.544	3.535	1.4	20.9
3 22	11 22.94	+ 9 1.4	2.561	3.535	4.0	21.1
4 1	11 16.48	+ 9 45.9	2.607	3.535	7.0	21.2
4 11	11 11.20	+10 19.3	2.680	3.534	9.8	21.4
4 21	11 7.48	+10 40.0	2.775	3.533	12.1	21.6

203474 2002 AK_{23} 3 12.2 72°.43 2°.8/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.97	+ 5 58.8	1.320	2.201	14.9	20.0
2 21	11 47.85	+ 7 22.3	1.284	2.226	10.1	19.8
3 2	11 39.49	+ 8 54.0	1.272	2.251	5.2	19.6
3 12	11 30.07	+10 22.6	1.287	2.276	3.1	19.5
3 22	11 20.95	+11 37.9	1.328	2.301	7.1	19.8
4 1	11 13.36	+12 32.4	1.395	2.326	11.6	20.2
4 11	11 8.16	+13 3.2	1.484	2.350	15.5	20.5
4 21	11 5.71	+13 10.8	1.590	2.374	18.6	20.7

427382 2014 XZ_{26} 3 12.2 34°.82 4°.5/16.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.67	− 9 26.4	1.522	2.356	16.0	20.8
2 21	11 45.57	− 9 30.7	1.463	2.368	12.3	20.6
3 2	11 38.37	− 9 12.1	1.426	2.381	8.2	20.4
3 12	11 30.06	− 8 33.3	1.414	2.395	4.9	20.3
3 22	11 21.76	− 7 40.2	1.428	2.409	5.3	20.3
4 1	11 14.62	− 6 40.6	1.468	2.424	8.8	20.6
4 11	11 9.54	− 5 43.1	1.532	2.439	12.6	20.8
4 21	11 6.99	− 4 54.2	1.617	2.455	16.0	21.1

93212 2000 SA_{127} 3 12.2 41°.53 0°.4/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.20	− 0 11.4	1.449	2.321	14.5	18.7
2 21	11 43.79	+ 1 8.1	1.403	2.340	10.0	18.5
3 2	11 37.41	+ 2 43.5	1.381	2.359	5.1	18.3
3 12	11 30.04	+ 4 25.3	1.385	2.379	0.5	18.0
3 22	11 22.80	+ 6 3.0	1.417	2.399	5.2	18.4
4 1	11 16.76	+ 7 27.2	1.475	2.420	9.8	18.7
4 11	11 12.73	+ 8 31.5	1.556	2.441	13.8	19.0
4 21	11 11.10	+ 9 13.6	1.656	2.463	17.1	19.3

517968 2015 TT_{366} 3 12.2 39°.32 0°.9/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.90	+ 1 12.8	1.223	2.103	16.0	21.1
2 21	11 46.08	+ 2 19.5	1.168	2.109	11.2	20.8
3 2	11 38.77	+ 3 44.0	1.135	2.115	5.7	20.6
3 12	11 30.08	+ 5 16.1	1.128	2.121	0.9	20.2
3 22	11 21.39	+ 6 44.4	1.146	2.128	6.2	20.6
4 1	11 14.09	+ 7 57.9	1.188	2.135	11.5	20.9
4 11	11 9.23	+ 8 49.8	1.252	2.142	16.2	21.2
4 21	11 7.31	+ 9 17.6	1.334	2.150	20.0	21.5

244624 2003 BO_{18} 3 12.2 109°.88 4°.0/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 48.33	+13 49.7	2.411	3.288	9.2	20.2
2 21	11 43.36	+15 19.4	2.363	3.300	6.5	20.1
3 2	11 37.05	+16 48.8	2.343	3.311	4.3	19.9
3 12	11 30.05	+18 10.8	2.352	3.323	4.4	20.0
3 22	11 23.07	+19 19.6	2.391	3.334	6.6	20.1
4 1	11 16.84	+20 11.0	2.458	3.345	9.2	20.3
4 11	11 11.94	+20 43.2	2.548	3.355	11.7	20.5
4 21	11 8.76	+20 56.6	2.658	3.366	13.7	20.6

480128 2015 FA_{142} 3 12.2 281°.12 5°.8/ 6.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 58.28	+21 45.6	2.302	3.164	10.2	21.2
2 21	11 50.53	+22 14.5	2.220	3.141	7.8	21.0
3 2	11 40.88	+22 36.0	2.165	3.118	6.0	20.8
3 12	11 30.13	+22 43.7	2.139	3.094	6.1	20.8
3 22	11 19.25	+22 33.4	2.142	3.070	8.1	20.9
4 1	11 9.25	+22 3.2	2.173	3.046	10.8	21.0
4 11	11 0.97	+21 14.0	2.228	3.022	13.5	21.1
4 21	10 54.93	+20 8.3	2.304	2.998	15.9	21.3

242441 2004 PW_{47} 3 12.2 240°.88 6°.3/17.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.01	−14 15.0	1.887	2.680	15.0	20.1
2 21	11 47.83	−14 52.4	1.805	2.678	12.1	19.9
3 2	11 39.59	−15 8.5	1.746	2.676	9.1	19.7
3 12	11 30.11	−15 2.7	1.712	2.674	6.7	19.5
3 22	11 20.39	−14 37.2	1.706	2.671	6.6	19.5
4 1	11 11.56	−13 57.2	1.726	2.669	8.8	19.6
4 11	11 4.55	−13 9.9	1.772	2.667	11.9	19.8
4 21	10 59.94	−12 22.5	1.839	2.664	14.9	20.0

42293 2001 UZ_{3} 3 12.2 123°.26 0°.2/12.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.20	+ 0 0.3	1.831	2.689	12.6	19.8
2 21	11 45.70	+ 0 40.3	1.764	2.694	8.9	19.6
3 2	11 38.39	+ 1 33.1	1.723	2.698	4.7	19.3
3 12	11 30.08	+ 2 33.1	1.709	2.703	0.3	19.0
3 22	11 21.75	+ 3 33.7	1.724	2.707	4.3	19.3
4 1	11 14.36	+ 4 28.2	1.766	2.711	8.5	19.6
4 11	11 8.72	+ 5 11.2	1.834	2.715	12.3	19.8
4 21	11 5.30	+ 5 39.8	1.922	2.719	15.4	20.0

433949 1996 MG 3 12.2 178°.23 12°.1/23.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.48	−29 13.8	1.512	2.228	21.3	21.8
2 21	11 49.43	−29 38.0	1.432	2.230	18.8	21.6
3 2	11 40.63	−29 20.6	1.368	2.232	16.0	21.4
3 12	11 30.13	−28 17.7	1.325	2.233	13.5	21.2
3 22	11 19.37	−26 30.8	1.304	2.233	12.2	21.2
4 1	11 9.89	−24 9.2	1.308	2.232	12.8	21.2
4 11	11 2.93	−21 28.4	1.335	2.230	15.0	21.3
4 21	10 59.17	−18 44.7	1.385	2.227	17.9	21.5

313822 2004 BS_{146} 3 12.2 352°.23 1°.5/10.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 46.03	+ 6 35.7	2.718	3.586	8.6	20.0
2 21	11 41.70	+ 7 20.2	2.647	3.584	5.9	19.9
3 2	11 36.19	+ 8 9.4	2.604	3.582	3.0	19.7
3 12	11 30.05	+ 8 58.7	2.591	3.581	1.6	19.5
3 22	11 23.87	+ 9 43.8	2.607	3.580	4.0	19.7
4 1	11 18.27	+10 20.9	2.652	3.579	6.9	19.9
4 11	11 13.78	+10 47.1	2.722	3.578	9.6	20.1
4 21	11 10.75	+11 1.1	2.815	3.578	11.8	20.2

66855 1999 VM_{22} 3 12.2 195°.01 1°.0/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.49	+ 4 52.7	2.192	3.053	10.7	18.4
2 21	11 46.41	+ 5 21.2	2.119	3.051	7.4	18.2
3 2	11 38.71	+ 5 56.2	2.072	3.050	3.8	18.0
3 12	11 30.10	+ 6 32.9	2.055	3.047	1.1	17.7
3 22	11 21.44	+ 7 6.5	2.067	3.045	4.4	18.0
4 1	11 13.58	+ 7 32.6	2.108	3.042	8.0	18.2
4 11	11 7.24	+ 7 47.9	2.175	3.039	11.3	18.4
4 21	11 2.87	+ 7 51.0	2.263	3.036	14.1	18.6

165499 2001 BN_{53} 3 12.2 13°.19 1°.9/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.93	+ 5 19.5	1.222	2.108	15.5	19.4
2 21	11 46.83	+ 5 56.2	1.166	2.111	10.7	19.1
3 2	11 39.18	+ 6 43.5	1.134	2.114	5.5	18.8
3 12	11 30.11	+ 7 32.7	1.125	2.118	2.0	18.6
3 22	11 21.05	+ 8 15.0	1.142	2.122	6.6	18.9
4 1	11 13.41	+ 8 42.9	1.183	2.128	11.8	19.2
4 11	11 8.27	+ 8 52.1	1.245	2.134	16.3	19.5
4 21	11 6.11	+ 8 41.7	1.325	2.141	20.0	19.8

302066 2000 WC_{40} 3 12.2 111°.06 1°.8/14.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.34	− 5 16.7	1.770	2.608	13.9	21.0
2 21	11 47.13	− 4 29.5	1.714	2.629	10.1	20.8
3 2	11 39.09	− 3 24.3	1.682	2.649	5.9	20.6
3 12	11 30.11	− 2 6.8	1.678	2.669	2.0	20.4
3 22	11 21.24	− 0 44.7	1.703	2.687	4.1	20.6
4 1	11 13.48	+ 0 34.0	1.756	2.706	8.2	20.9
4 11	11 7.61	+ 1 42.3	1.835	2.723	11.9	21.1
4 21	11 4.03	+ 2 35.9	1.936	2.740	15.0	21.4

383808 2007 YB_{72} 3 12.2 45°.25 2°.9/15.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 50.55	− 6 55.6	2.269	3.093	11.8	20.8
2 21	11 45.04	− 7 0.2	2.192	3.095	8.9	20.7
3 2	11 38.00	− 6 50.7	2.140	3.097	5.7	20.5
3 12	11 30.09	− 6 29.0	2.116	3.099	3.1	20.3
3 22	11 22.11	− 5 58.7	2.121	3.102	3.9	20.3
4 1	11 14.87	− 5 24.3	2.154	3.104	6.8	20.5
4 11	11 9.05	− 4 50.8	2.214	3.107	9.9	20.7
4 21	11 5.10	− 4 22.3	2.297	3.109	12.7	20.9

465191 2007 HQ_{1} 3 12.2 301°.24 4°.1/16.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 47.80	−11 19.6	1.743	2.565	14.8	21.3
2 21	11 43.69	−10 46.4	1.643	2.542	11.6	21.0
3 2	11 37.54	− 9 46.7	1.566	2.519	7.9	20.7
3 12	11 30.09	− 8 23.0	1.515	2.496	4.6	20.5
3 22	11 22.29	− 6 41.4	1.490	2.473	5.0	20.5
4 1	11 15.24	− 4 51.1	1.493	2.450	8.7	20.6
4 11	11 9.92	− 3 3.1	1.521	2.427	12.8	20.8
4 21	11 6.96	− 1 26.2	1.571	2.405	16.6	21.0

215318 2001 TQ_{93} 3 12.2 216°.11 6°.6/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.65	+21 14.6	1.765	2.632	12.6	19.6
2 21	11 53.06	+21 39.9	1.706	2.631	9.5	19.4
3 2	11 42.20	+21 55.4	1.673	2.630	7.1	19.2
3 12	11 30.19	+21 53.8	1.668	2.629	6.9	19.2
3 22	11 18.31	+21 30.8	1.691	2.628	9.2	19.4
4 1	11 7.82	+20 45.6	1.740	2.627	12.4	19.5
4 11	10 59.66	+19 40.4	1.813	2.626	15.4	19.7
4 21	10 54.29	+18 19.5	1.905	2.625	18.0	19.9

320253 2007 OF 3 12.2 268°.07 6°.6/18.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.63	−17 51.5	2.144	2.914	14.2	20.2
2 21	11 45.39	−18 9.0	2.046	2.899	11.8	20.0
3 2	11 38.33	−18 3.7	1.970	2.884	9.2	19.8
3 12	11 30.11	−17 35.2	1.919	2.869	7.1	19.6
3 22	11 21.61	−16 45.8	1.895	2.854	6.7	19.6
4 1	11 13.79	−15 40.5	1.899	2.839	8.4	19.6
4 11	11 7.49	−14 26.7	1.928	2.824	11.1	19.8
4 21	11 3.29	−13 12.2	1.980	2.808	13.9	19.9

242571 2005 EQ_{330} 3 12.2 117°.59 5°.7/ 6.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.91	+19 53.0	2.135	3.009	10.4	20.0
2 21	11 46.69	+20 51.4	2.085	3.014	7.8	19.8
3 2	11 38.83	+21 43.8	2.063	3.019	5.9	19.7
3 12	11 30.12	+22 23.3	2.068	3.024	6.2	19.8
3 22	11 21.49	+22 45.0	2.101	3.029	8.2	19.9
4 1	11 13.83	+22 46.5	2.160	3.034	10.8	20.1
4 11	11 7.86	+22 28.0	2.241	3.039	13.3	20.2
4 21	11 3.98	+21 51.7	2.342	3.044	15.5	20.4

269028 2007 FH_{7} 3 12.2 122°.12 0°.5/12.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.47	+ 0 27.2	2.247	3.090	11.2	21.8
2 21	11 48.31	+ 0 39.9	2.187	3.109	7.9	21.6
3 2	11 39.62	+ 1 1.5	2.155	3.127	4.2	21.4
3 12	11 30.15	+ 1 28.4	2.152	3.145	0.6	21.2
3 22	11 20.77	+ 1 56.2	2.180	3.162	3.6	21.4
4 1	11 12.32	+ 2 21.0	2.237	3.179	7.2	21.7
4 11	11 5.46	+ 2 39.1	2.322	3.195	10.4	21.9
4 21	11 0.60	+ 2 48.3	2.429	3.210	13.0	22.1

297659 2001 TR_{261} 3 12.2 321°.86 3°.2/16.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 47.25	−10 11.3	2.191	3.008	12.4	20.6
2 21	11 42.82	− 9 38.0	2.109	3.005	9.5	20.4
3 2	11 36.89	− 8 45.4	2.050	3.003	6.3	20.2
3 12	11 30.09	− 7 36.8	2.019	3.001	3.6	20.1
3 22	11 23.20	− 6 17.3	2.017	2.999	4.0	20.1
4 1	11 17.02	− 4 53.6	2.043	2.997	6.9	20.2
4 11	11 12.23	− 3 33.0	2.096	2.995	10.2	20.4
4 21	11 9.28	− 2 21.2	2.172	2.993	13.1	20.6

102138 1999 RS_{182} 3 12.2 170°.26 0°.5/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.46	− 0 53.7	2.084	2.929	11.8	20.5
2 21	11 47.13	− 0 16.5	2.011	2.934	8.4	20.3
3 2	11 39.11	+ 0 33.0	1.965	2.938	4.5	20.1
3 12	11 30.14	+ 1 29.8	1.948	2.941	0.6	19.8
3 22	11 21.13	+ 2 28.3	1.960	2.943	3.9	20.1
4 1	11 12.98	+ 3 22.5	2.002	2.945	7.8	20.3
4 11	11 6.44	+ 4 7.2	2.070	2.946	11.3	20.5
4 21	11 1.99	+ 4 39.4	2.160	2.946	14.3	20.7

380407 2003 AL_{9} 3 12.2 85°.03 2°.0/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.10	+ 7 31.6	2.250	3.119	10.1	21.1
2 21	11 44.59	+ 8 25.9	2.202	3.139	6.9	20.9
3 2	11 37.69	+ 9 24.2	2.182	3.159	3.6	20.7
3 12	11 30.12	+10 20.5	2.190	3.179	2.2	20.7
3 22	11 22.64	+11 9.6	2.229	3.199	4.9	20.9
4 1	11 16.02	+11 47.2	2.295	3.218	8.1	21.1
4 11	11 10.85	+12 10.9	2.386	3.237	10.9	21.3
4 21	11 7.49	+12 19.9	2.499	3.256	13.3	21.5

152346 2005 UY_{79} 3 12.2 154°.44 0°.2/12.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 51.01	+ 0 55.6	2.061	2.917	11.5	20.4
2 21	11 45.43	+ 1 44.4	1.993	2.922	8.0	20.2
3 2	11 38.22	+ 2 44.3	1.951	2.927	4.1	20.0
3 12	11 30.13	+ 3 49.6	1.938	2.932	0.2	19.6
3 22	11 22.01	+ 4 54.2	1.955	2.936	4.1	20.0
4 1	11 14.74	+ 5 51.8	2.000	2.940	8.0	20.2
4 11	11 9.03	+ 6 37.8	2.070	2.943	11.4	20.4
4 21	11 5.33	+ 7 9.3	2.163	2.947	14.3	20.6

22954 1999 TU_{248} 3 12.2 203°.50 1°.3/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.79	+ 4 20.4	2.199	3.063	10.5	19.3
2 21	11 44.56	+ 5 17.5	2.126	3.060	7.3	19.1
3 2	11 37.77	+ 6 22.7	2.080	3.057	3.7	18.9
3 12	11 30.12	+ 7 30.3	2.062	3.054	1.4	18.7
3 22	11 22.39	+ 8 34.1	2.075	3.050	4.6	18.9
4 1	11 15.40	+ 9 28.5	2.115	3.046	8.2	19.1
4 11	11 9.86	+10 9.4	2.181	3.042	11.4	19.3
4 21	11 6.20	+10 34.9	2.269	3.038	14.2	19.5

382368 2013 TX_{98} 3 12.2 136°.39 1°.8/10.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.95	+ 6 32.0	2.147	3.014	10.6	21.3
2 21	11 45.31	+ 7 23.2	2.085	3.021	7.3	21.1
3 2	11 38.13	+ 8 20.1	2.050	3.028	3.7	20.9
3 12	11 30.13	+ 9 16.6	2.045	3.035	1.9	20.8
3 22	11 22.14	+10 7.1	2.069	3.041	4.9	21.0
4 1	11 14.99	+10 46.6	2.120	3.047	8.4	21.2
4 11	11 9.36	+11 12.1	2.197	3.053	11.6	21.4
4 21	11 5.68	+11 22.5	2.296	3.059	14.2	21.6

374531 2006 AS_{65} 3 12.2 191°.46 1°.5/13.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.02	− 2 44.1	2.073	2.915	12.0	21.1
2 21	11 46.19	− 2 29.4	1.996	2.915	8.7	20.9
3 2	11 38.65	− 2 1.7	1.945	2.914	5.0	20.7
3 12	11 30.15	− 1 24.7	1.921	2.913	1.6	20.4
3 22	11 21.55	− 0 42.9	1.927	2.911	3.8	20.6
4 1	11 13.76	− 0 1.8	1.961	2.910	7.6	20.8
4 11	11 7.56	+ 0 33.6	2.021	2.908	11.1	21.0
4 21	11 3.40	+ 0 59.5	2.104	2.906	14.1	21.2

271098 2003 QJ_{75} 3 12.2 198°.76 1°.4/14.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.34	− 4 41.0	2.419	3.252	10.8	21.0
2 21	11 44.16	− 3 59.3	2.336	3.249	7.9	20.8
3 2	11 37.55	− 3 3.7	2.279	3.245	4.6	20.5
3 12	11 30.13	− 1 57.9	2.251	3.241	1.6	20.3
3 22	11 22.62	− 0 47.2	2.253	3.237	3.3	20.4
4 1	11 15.76	+ 0 22.7	2.284	3.232	6.7	20.6
4 11	11 10.20	+ 1 26.3	2.343	3.227	9.9	20.8
4 21	11 6.37	+ 2 19.5	2.425	3.221	12.6	21.0

343486 2010 EJ_{87} 3 12.2 12°.80 2°.5/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.81	+ 9 51.5	2.030	2.901	10.9	20.8
2 21	11 46.71	+10 18.2	1.965	2.902	7.6	20.6
3 2	11 38.90	+10 47.1	1.926	2.902	4.1	20.4
3 12	11 30.16	+11 12.8	1.916	2.903	2.7	20.3
3 22	11 21.42	+11 30.4	1.934	2.904	5.5	20.5
4 1	11 13.60	+11 36.5	1.980	2.905	9.1	20.7
4 11	11 7.45	+11 29.0	2.051	2.906	12.3	20.9
4 21	11 3.41	+11 8.0	2.143	2.907	15.0	21.1

34573 2000 SG_{316} 3 12.2 118°.30 6°.1/20.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.92	−20 26.2	2.569	3.313	12.8	19.5
2 21	11 43.84	−20 30.9	2.489	3.321	10.7	19.4
3 2	11 37.37	−20 14.5	2.431	3.329	8.5	19.2
3 12	11 30.13	−19 37.4	2.399	3.337	6.7	19.1
3 22	11 22.83	−18 42.4	2.395	3.345	6.1	19.1
4 1	11 16.20	−17 34.3	2.418	3.352	7.2	19.2
4 11	11 10.88	−16 19.3	2.469	3.360	9.1	19.3
4 21	11 7.28	−15 3.9	2.543	3.367	11.3	19.5

289563 2005 EF_{270} 3 12.2 42°.14 4°.6/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.25	+10 41.3	1.424	2.313	13.6	20.1
2 21	11 46.12	+12 9.5	1.372	2.317	9.4	19.8
3 2	11 38.75	+13 42.0	1.346	2.322	5.6	19.6
3 12	11 30.16	+15 7.7	1.345	2.327	5.0	19.6
3 22	11 21.60	+16 16.5	1.371	2.332	8.4	19.8
4 1	11 14.29	+17 1.7	1.421	2.337	12.6	20.1
4 11	11 9.19	+17 20.7	1.492	2.343	16.3	20.3
4 21	11 6.76	+17 14.8	1.581	2.348	19.4	20.5

332338 2007 BU_{68} 3 12.2 342°.95 3°.1/ 9.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 46.46	+ 5 38.2	1.395	2.284	13.8	20.1
2 21	11 42.90	+ 7 18.2	1.329	2.276	9.4	19.8
3 2	11 37.16	+ 9 11.7	1.288	2.268	4.9	19.5
3 12	11 30.13	+11 7.4	1.273	2.261	3.4	19.4
3 22	11 22.95	+12 53.0	1.284	2.255	7.5	19.6
4 1	11 16.84	+14 18.0	1.320	2.250	12.2	19.9
4 11	11 12.79	+15 16.1	1.377	2.245	16.3	20.1
4 21	11 11.33	+15 46.0	1.452	2.242	19.8	20.4

32383 2000 QG_{188} 3 12.2 77°.06 5°.2/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 50.68	+13 59.4	1.720	2.605	11.8	18.6
2 21	11 45.38	+15 40.8	1.679	2.620	8.4	18.4
3 2	11 38.24	+17 21.4	1.664	2.634	5.6	18.3
3 12	11 30.16	+18 51.0	1.677	2.648	5.8	18.3
3 22	11 22.18	+20 1.4	1.718	2.662	8.5	18.5
4 1	11 15.31	+20 47.8	1.783	2.677	11.8	18.7
4 11	11 10.32	+21 8.8	1.871	2.691	14.8	18.9
4 21	11 7.62	+21 6.3	1.976	2.705	17.2	19.1

405366 2003 WM_{151} 3 12.2 155°.69 2°.2/10.1 18

2 11	11 52.61	+ 6 2.2	1.819	2.689	12.1	21.9
2 21	11 46.71	+ 7 9.7	1.758	2.695	8.3	21.7
3 2	11 38.95	+ 8 25.1	1.722	2.700	4.3	21.4
3 12	11 30.18	+ 9 40.5	1.715	2.705	2.3	21.3
3 22	11 21.40	+10 48.3	1.737	2.709	5.8	21.5
4 1	11 13.62	+11 42.1	1.787	2.713	9.7	21.8
4 11	11 7.65	+12 17.9	1.860	2.717	13.3	22.0
4 21	11 3.97	+12 34.7	1.954	2.720	16.2	22.2

262851 2007 BT_{19} 3 12.2 5°.81 12°.2/ 3.2 18

2 11	11 51.17	+26 56.1	1.069	1.966	16.3	19.0
2 21	11 46.63	+28 22.1	1.037	1.966	13.6	18.8
3 2	11 39.15	+29 27.7	1.024	1.968	12.2	18.8
3 12	11 30.18	+29 59.4	1.033	1.972	13.1	18.8
3 22	11 21.46	+29 50.1	1.062	1.978	15.6	19.0
4 1	11 14.59	+28 59.7	1.111	1.986	18.7	19.2
4 11	11 10.64	+27 34.4	1.175	1.995	21.7	19.4
4 21	11 9.96	+25 42.4	1.254	2.006	24.3	19.6

354818 2005 WP_{78} 3 12.2 352°.71 5°.7/16.3 18

2 11	11 52.16	−10 24.2	1.251	2.091	18.4	20.5
2 21	11 47.18	−10 38.6	1.182	2.089	14.4	20.3
3 2	11 39.51	−10 25.1	1.132	2.087	9.9	20.0
3 12	11 30.20	− 9 44.8	1.106	2.086	6.2	19.8
3 22	11 20.66	− 8 43.7	1.104	2.085	6.6	19.8
4 1	11 12.40	− 7 31.7	1.126	2.084	10.6	20.0
4 11	11 6.64	− 6 20.2	1.170	2.084	15.1	20.3
4 21	11 4.01	− 5 18.5	1.233	2.085	19.2	20.5

374085 2004 RR_{199} 3 12.2 172°.15 2°.9/15.7 17

2 11	11 51.32	− 9 3.8	2.668	3.473	10.8	21.7
2 21	11 45.42	− 8 49.8	2.586	3.477	8.2	21.5
3 2	11 38.17	− 8 21.4	2.530	3.481	5.4	21.4
3 12	11 30.17	− 7 40.8	2.503	3.484	3.1	21.2
3 22	11 22.11	− 6 51.6	2.506	3.486	3.6	21.2
4 1	11 14.68	− 5 58.5	2.540	3.487	6.1	21.4
4 11	11 8.50	− 5 6.3	2.601	3.488	8.9	21.6
4 21	11 3.98	− 4 19.3	2.686	3.488	11.4	21.8

502483 2015 BT_{354} 3 12.2 74°.22 1°.1/11.1 17

2 11	11 50.03	+ 3 47.3	1.937	2.804	11.6	21.4
2 21	11 44.83	+ 4 35.8	1.874	2.810	8.0	21.2
3 2	11 37.95	+ 5 33.0	1.837	2.815	4.0	20.9
3 12	11 30.16	+ 6 32.9	1.828	2.820	1.1	20.7
3 22	11 22.37	+ 7 29.1	1.848	2.826	4.7	21.0
4 1	11 15.48	+ 8 15.7	1.895	2.832	8.6	21.2
4 11	11 10.21	+ 8 48.7	1.967	2.837	12.1	21.5
4 21	11 7.01	+ 9 6.2	2.059	2.843	15.0	21.7

501009 2013 RN_{36} 3 12.2 178°.29 0°.6/11.7 17

2 11	11 53.03	+ 3 29.8	1.922	2.784	11.9	21.5
2 21	11 46.97	+ 3 54.4	1.852	2.784	8.3	21.2
3 2	11 39.09	+ 4 27.4	1.808	2.785	4.2	21.0
3 12	11 30.19	+ 5 3.9	1.791	2.785	0.6	20.7
3 22	11 21.24	+ 5 38.3	1.804	2.785	4.5	21.0
4 1	11 13.22	+ 6 5.7	1.845	2.785	8.6	21.2
4 11	11 6.92	+ 6 22.2	1.911	2.784	12.2	21.5
4 21	11 2.83	+ 6 25.9	1.997	2.784	15.2	21.7

410272 2007 TN_{155} 3 12.2 151°.80 2°.3/14.4 18

2 11	11 53.86	− 5 35.1	1.862	2.695	13.5	21.7
2 21	11 47.58	− 5 11.8	1.792	2.703	10.0	21.5
3 2	11 39.41	− 4 31.2	1.746	2.711	6.0	21.2
3 12	11 30.20	− 3 37.3	1.729	2.718	2.5	21.0
3 22	11 20.96	− 2 36.0	1.740	2.724	4.1	21.2
4 1	11 12.69	− 1 34.4	1.779	2.729	8.1	21.4
4 11	11 6.24	− 0 39.1	1.845	2.734	11.8	21.6
4 21	11 2.07	+ 0 5.3	1.932	2.739	15.0	21.8

374546 2006 BL_{90} 3 12.2 114°.19 2°.0/10.0 18

2 11	11 50.14	+ 6 9.4	1.970	2.841	11.2	21.0
2 21	11 44.88	+ 7 14.3	1.910	2.848	7.7	20.8
3 2	11 37.97	+ 8 26.1	1.876	2.855	3.9	20.6
3 12	11 30.17	+ 9 37.8	1.871	2.861	2.2	20.5
3 22	11 22.38	+10 42.6	1.895	2.867	5.4	20.7
4 1	11 15.48	+11 34.4	1.947	2.874	9.1	20.9
4 11	11 10.20	+12 9.8	2.023	2.880	12.4	21.2
4 21	11 6.96	+12 27.7	2.119	2.886	15.1	21.4

49503 1999 CX_{16} 3 12.2 42°.96 2°.8/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 52.89	+10 19.6	1.975	2.848	11.1	18.0
2 21	11 46.79	+10 49.2	1.914	2.852	7.7	17.8
3 2	11 38.95	+11 20.6	1.879	2.855	4.2	17.6
3 12	11 30.20	+11 48.2	1.873	2.859	2.9	17.5
3 22	11 21.47	+12 6.9	1.895	2.863	5.8	17.7
4 1	11 13.70	+12 13.2	1.944	2.867	9.3	17.9
4 11	11 7.66	+12 5.2	2.018	2.871	12.5	18.2
4 21	11 3.76	+11 43.2	2.112	2.876	15.2	18.4

407874 2012 BN_{91} 3 12.2 128°.81 3°.3/ 8.8 18

2 11	11 52.43	+ 9 8.5	1.824	2.700	11.8	21.3
2 21	11 46.54	+10 32.6	1.773	2.712	8.1	21.1
3 2	11 38.84	+12 1.1	1.747	2.723	4.5	20.9
3 12	11 30.19	+13 25.2	1.751	2.735	3.7	20.8
3 22	11 21.60	+14 37.1	1.783	2.745	6.7	21.1
4 1	11 14.06	+15 30.7	1.842	2.755	10.3	21.3
4 11	11 8.34	+16 3.4	1.925	2.765	13.6	21.5
4 21	11 4.86	+16 15.2	2.027	2.774	16.3	21.7

94192 2001 BC_{7} 3 12.2 88°.32 3°.2/ 8.5 18

2 11	11 50.19	+ 8 49.9	1.937	2.813	11.2	19.5
2 21	11 44.85	+10 23.5	1.893	2.833	7.6	19.3
3 2	11 37.91	+12 1.0	1.876	2.852	4.2	19.1
3 12	11 30.17	+13 33.7	1.889	2.872	3.5	19.1
3 22	11 22.53	+14 53.9	1.930	2.891	6.4	19.3
4 1	11 15.87	+15 56.0	1.999	2.910	9.8	19.6
4 11	11 10.87	+16 37.4	2.091	2.929	12.8	19.8
4 21	11 7.90	+16 57.9	2.204	2.947	15.3	20.0

332363 2007 EC_{91} 3 12.2 26°.31 2°.8/ 9.4 18

2 11	11 47.58	+ 5 13.1	1.463	2.348	13.5	19.7
2 21	11 43.50	+ 6 56.1	1.410	2.354	9.2	19.4
3 2	11 37.38	+ 8 50.6	1.381	2.361	4.7	19.2
3 12	11 30.16	+10 45.3	1.379	2.368	3.1	19.1
3 22	11 22.94	+12 28.8	1.405	2.376	7.0	19.3
4 1	11 16.84	+13 51.8	1.456	2.384	11.4	19.6
4 11	11 12.73	+14 49.2	1.529	2.393	15.2	19.9
4 21	11 11.07	+15 20.1	1.620	2.402	18.4	20.1

198482 2004 XK_{42} 3 12.2 339°.58 2°.6/ 9.7 18

2 11	11 51.59	+ 8 45.8	1.888	2.763	11.5	20.0
2 21	11 45.99	+ 9 32.0	1.823	2.762	7.9	19.8
3 2	11 38.59	+10 22.6	1.784	2.762	4.2	19.5
3 12	11 30.19	+11 11.0	1.774	2.761	2.8	19.4
3 22	11 21.76	+11 50.8	1.791	2.761	5.9	19.6
4 1	11 14.27	+12 17.3	1.836	2.761	9.6	19.9
4 11	11 8.51	+12 27.6	1.904	2.760	13.0	20.1
4 21	11 4.95	+12 21.4	1.993	2.760	15.9	20.3

215787 2004 LT 3 12.2 281°.54 2°.9/16.0 17

2 11	11 46.90	−10 25.2	2.374	3.185	11.7	20.9
2 21	11 42.60	− 9 35.9	2.271	3.166	9.0	20.7
3 2	11 36.83	− 8 26.7	2.194	3.146	6.0	20.5
3 12	11 30.16	− 7 0.6	2.144	3.127	3.3	20.3
3 22	11 23.30	− 5 22.9	2.125	3.107	3.7	20.2
4 1	11 17.01	− 3 40.7	2.135	3.088	6.7	20.4
4 11	11 11.98	− 2 1.6	2.173	3.068	10.0	20.6
4 21	11 8.69	− 0 31.8	2.234	3.048	13.0	20.7

114285 2002 XG_{25} 3 12.2 239°.16 0°.4/11.9 17

2 11	11 51.89	+ 1 41.1	1.823	2.684	12.5	20.2
2 21	11 46.34	+ 2 22.6	1.745	2.677	8.8	19.9
3 2	11 38.84	+ 3 16.1	1.693	2.670	4.5	19.7
3 12	11 30.21	+ 4 15.9	1.668	2.662	0.4	19.3
3 22	11 21.42	+ 5 15.1	1.672	2.654	4.7	19.6
4 1	11 13.52	+ 6 7.0	1.704	2.645	9.0	19.9
4 11	11 7.37	+ 6 46.3	1.760	2.637	12.9	20.1
4 21	11 3.52	+ 7 10.0	1.836	2.628	16.2	20.3

208333 2001 QM_{138} 3 12.2 139°.21 1°.1/13.5 18

2 11	11 50.90	− 2 3.3	2.741	3.576	9.6	20.8
2 21	11 45.04	− 1 49.4	2.671	3.586	6.9	20.6
3 2	11 37.94	− 1 26.4	2.628	3.597	3.9	20.4
3 12	11 30.19	− 0 57.0	2.615	3.606	1.2	20.2
3 22	11 22.44	− 0 24.7	2.632	3.616	3.0	20.4
4 1	11 15.34	+ 0 6.7	2.679	3.624	6.0	20.6
4 11	11 9.45	+ 0 33.8	2.754	3.633	8.7	20.8
4 21	11 5.14	+ 0 53.9	2.853	3.641	11.1	21.0

473547 2015 XX_{195} 3 12.2 52°.09 1°.1/11.5 18

2 11	11 53.53	+ 2 49.2	1.201	2.082	16.2	21.5
2 21	11 47.82	+ 3 36.1	1.159	2.100	11.2	21.2
3 2	11 39.64	+ 4 36.4	1.139	2.118	5.6	21.0
3 12	11 30.23	+ 5 40.8	1.144	2.137	1.1	20.7
3 22	11 21.04	+ 6 39.5	1.174	2.156	6.1	21.1
4 1	11 13.43	+ 7 24.3	1.229	2.176	11.3	21.4
4 11	11 8.36	+ 7 50.3	1.306	2.195	15.7	21.7
4 21	11 6.23	+ 7 56.4	1.401	2.215	19.2	22.0

369271 2009 QU_5 3 12.2 197°.52 2°.2/14.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 50.30	− 6 51.1	1.986	2.818	12.9	21.6
2 21	11 45.09	− 6 8.0	1.906	2.816	9.6	21.4
3 2	11 38.15	− 5 6.1	1.850	2.813	5.9	21.1
3 12	11 30.20	− 3 49.6	1.822	2.811	2.5	20.9
3 22	11 22.14	− 2 24.9	1.823	2.808	3.9	21.0
4 1	11 14.89	− 0 59.9	1.853	2.804	7.7	21.2
4 11	11 9.23	+ 0 18.2	1.909	2.801	11.4	21.4
4 21	11 5.66	+ 1 23.7	1.988	2.797	14.5	21.6

465767 2009 WH_{185} 3 12.2 274°.00 3°.5/15.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.75	− 9 16.9	1.855	2.680	13.9	21.5
2 21	11 44.89	− 8 55.5	1.768	2.670	10.7	21.2
3 2	11 38.12	− 8 12.9	1.704	2.660	7.0	21.0
3 12	11 30.21	− 7 11.7	1.667	2.650	3.9	20.8
3 22	11 22.08	− 5 57.6	1.658	2.640	4.5	20.8
4 1	11 14.77	− 4 38.1	1.676	2.630	8.1	21.0
4 11	11 9.13	− 3 21.5	1.720	2.620	11.9	21.2
4 21	11 5.74	− 2 14.6	1.785	2.610	15.3	21.4

182441 2001 SB_{21} 3 12.2 112°.48 2°.2/10.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.41	+ 7 24.5	1.930	2.799	11.5	20.6
2 21	11 47.11	+ 8 14.9	1.878	2.814	7.9	20.4
3 2	11 39.10	+ 9 10.1	1.852	2.829	4.1	20.2
3 12	11 30.23	+10 3.5	1.855	2.844	2.3	20.1
3 22	11 21.45	+10 49.1	1.887	2.858	5.5	20.3
4 1	11 13.71	+11 21.9	1.946	2.872	9.1	20.5
4 11	11 7.72	+11 39.3	2.030	2.885	12.4	20.8
4 21	11 3.90	+11 40.9	2.135	2.898	15.1	21.0

426623 2013 SV_{59} 3 12.2 74°.53 2°.3/13.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 59.88	− 1 51.7	1.774	2.613	13.8	20.7
2 21	11 51.80	− 2 29.6	1.709	2.625	10.1	20.5
3 2	11 41.62	− 2 56.1	1.670	2.637	5.9	20.3
3 12	11 30.29	− 3 12.7	1.660	2.649	2.5	20.1
3 22	11 18.99	− 3 22.2	1.679	2.661	4.5	20.2
4 1	11 8.88	− 3 28.1	1.726	2.673	8.5	20.5
4 11	11 0.86	− 3 34.7	1.800	2.686	12.2	20.8
4 21	10 55.44	− 3 45.2	1.895	2.698	15.4	21.0

473999 2016 FW_{23} 3 12.2 279°.15 1°.5/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.22	+ 5 12.1	1.761	2.631	12.4	21.4
2 21	11 46.69	+ 5 52.1	1.679	2.616	8.6	21.1
3 2	11 39.09	+ 6 41.1	1.623	2.601	4.4	20.8
3 12	11 30.23	+ 7 32.8	1.594	2.586	1.6	20.6
3 22	11 21.15	+ 8 20.4	1.593	2.571	5.5	20.8
4 1	11 12.95	+ 8 57.4	1.619	2.555	9.9	21.0
4 11	11 6.58	+ 9 19.5	1.669	2.540	13.8	21.2
4 21	11 2.61	+ 9 24.8	1.739	2.525	17.2	21.4

93305 2000 SK_{208} 3 12.2 258°.15 1°.8/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.01	− 4 50.6	1.917	2.758	12.9	20.1
2 21	11 44.99	− 4 16.6	1.832	2.749	9.5	19.8
3 2	11 38.15	− 3 25.3	1.772	2.739	5.6	19.6
3 12	11 30.21	− 2 20.7	1.739	2.730	2.1	19.3
3 22	11 22.10	− 1 8.9	1.735	2.720	4.0	19.4
4 1	11 14.77	+ 0 2.7	1.759	2.710	8.0	19.7
4 11	11 9.08	+ 1 7.0	1.808	2.700	11.9	19.9
4 21	11 5.53	+ 1 59.1	1.879	2.690	15.2	20.1

519957 2013 SX_{101} 3 12.2 190°.35 0°.5/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.74	+ 2 13.3	2.355	3.209	10.3	22.7
2 21	11 45.16	+ 3 1.1	2.279	3.208	7.2	22.4
3 2	11 38.10	+ 3 57.8	2.230	3.207	3.7	22.2
3 12	11 30.22	+ 4 58.6	2.211	3.204	0.5	22.0
3 22	11 22.26	+ 5 58.0	2.222	3.201	3.9	22.2
4 1	11 15.01	+ 6 50.8	2.262	3.198	7.5	22.4
4 11	11 9.12	+ 7 32.8	2.329	3.194	10.6	22.6
4 21	11 5.04	+ 8 1.6	2.417	3.190	13.3	22.8

500663 2012 VS_{27} 3 12.2 48°.60 1°.3/13.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.00	− 2 16.3	2.050	2.897	11.9	20.9
2 21	11 44.73	− 1 59.8	1.985	2.907	8.6	20.7
3 2	11 37.89	− 1 30.9	1.946	2.917	4.8	20.5
3 12	11 30.21	− 0 53.5	1.935	2.926	1.4	20.3
3 22	11 22.53	− 0 12.4	1.952	2.937	3.6	20.4
4 1	11 15.70	+ 0 27.2	1.997	2.947	7.3	20.7
4 11	11 10.42	+ 1 0.3	2.068	2.957	10.7	20.9
4 21	11 7.11	+ 1 23.8	2.161	2.968	13.6	21.1

92395 2000 JK_{20} 3 12.2 281°.72 0°.0/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.31	+ 1 29.5	1.391	2.261	15.1	19.8
2 21	11 48.57	+ 1 53.4	1.314	2.249	10.8	19.5
3 2	11 40.23	+ 2 31.8	1.259	2.236	5.7	19.2
3 12	11 30.27	+ 3 18.8	1.230	2.224	0.1	18.7
3 22	11 20.00	+ 4 6.7	1.228	2.211	5.5	19.1
4 1	11 10.87	+ 4 47.4	1.251	2.199	10.9	19.4
4 11	11 4.05	+ 5 14.4	1.296	2.187	15.7	19.6
4 21	11 0.23	+ 5 24.6	1.360	2.174	19.7	19.8

136733 1995 UE_{61} 3 12.2 54°.64 0°.7/13.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 47.33	− 2 32.0	2.207	3.055	11.2	19.8
2 21	11 42.85	− 1 38.5	2.135	3.058	8.0	19.6
3 2	11 36.92	− 0 31.5	2.089	3.061	4.4	19.4
3 12	11 30.20	+ 0 44.1	2.071	3.064	0.8	19.2
3 22	11 23.43	+ 2 2.0	2.083	3.067	3.5	19.4
4 1	11 17.39	+ 3 15.8	2.123	3.070	7.2	19.6
4 11	11 12.72	+ 4 19.9	2.190	3.073	10.5	19.8
4 21	11 9.83	+ 5 10.8	2.279	3.076	13.3	20.0

11233 1999 JA_{82} 3 12.2 208°.76 5°.7/ 5.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.91	+19 4.4	2.222	3.097	10.0	17.6
2 21	11 46.12	+20 33.3	2.162	3.091	7.5	17.5
3 2	11 38.65	+21 58.7	2.129	3.085	5.9	17.4
3 12	11 30.24	+23 12.3	2.126	3.079	6.3	17.4
3 22	11 21.76	+24 7.9	2.150	3.072	8.5	17.5
4 1	11 14.09	+24 41.6	2.201	3.064	11.1	17.6
4 11	11 7.98	+24 52.5	2.274	3.056	13.6	17.8
4 21	11 3.91	+24 42.3	2.365	3.048	15.8	17.9

183357 Rickshelton 3 12.2 77°.25 3°.0/15.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.89	− 7 40.6	1.636	2.470	15.1	20.8
2 21	11 46.94	− 7 12.7	1.585	2.494	11.2	20.6
3 2	11 39.07	− 6 24.0	1.557	2.518	7.0	20.4
3 12	11 30.25	− 5 19.4	1.555	2.542	3.4	20.2
3 22	11 21.57	− 4 6.2	1.582	2.566	4.5	20.3
4 1	11 14.10	− 2 52.6	1.636	2.589	8.3	20.6
4 11	11 8.61	− 1 46.6	1.714	2.612	12.1	20.9
4 21	11 5.53	− 0 53.2	1.815	2.635	15.3	21.1

346807 2009 CZ_{19} 3 12.2 134°.43 4°.0/ 6.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.92	+16 22.8	2.782	3.653	8.3	21.6
2 21	11 44.36	+17 28.2	2.734	3.666	6.0	21.5
3 2	11 37.60	+18 31.1	2.715	3.678	4.2	21.4
3 12	11 30.23	+19 26.1	2.726	3.690	4.3	21.4
3 22	11 22.90	+20 9.0	2.766	3.702	6.1	21.5
4 1	11 16.27	+20 36.9	2.833	3.713	8.4	21.7
4 11	11 10.86	+20 48.8	2.926	3.724	10.5	21.9
4 21	11 7.02	+20 45.4	3.039	3.734	12.4	22.0

46583 1992 RW_3 3 12.2 183°.35 0°.3/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.15	− 0 0.4	2.293	3.143	10.7	19.9
2 21	11 44.78	+ 0 31.5	2.218	3.143	7.6	19.7
3 2	11 37.93	+ 1 13.6	2.169	3.143	4.0	19.4
3 12	11 30.24	+ 2 1.9	2.149	3.143	0.4	19.1
3 22	11 22.50	+ 2 51.3	2.159	3.142	3.6	19.4
4 1	11 15.47	+ 3 36.8	2.198	3.141	7.2	19.6
4 11	11 9.84	+ 4 14.0	2.263	3.140	10.4	19.8
4 21	11 6.02	+ 4 40.2	2.350	3.139	13.2	20.0

62567 2000 SJ_{274} 3 12.3 213°.58 3°.0/15.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.57	− 9 59.3	2.234	3.046	12.3	20.1
2 21	11 44.49	− 9 19.3	2.145	3.040	9.4	19.9
3 2	11 37.83	− 8 19.9	2.081	3.034	6.2	19.7
3 12	11 30.25	− 7 4.1	2.045	3.027	3.4	19.5
3 22	11 22.53	− 5 37.5	2.038	3.020	3.9	19.5
4 1	11 15.51	− 4 7.0	2.061	3.012	7.0	19.7
4 11	11 9.90	− 2 40.1	2.111	3.004	10.3	19.9
4 21	11 6.17	− 1 22.7	2.184	2.996	13.3	20.1

428168 2006 SY_{385} 3 12.3 303°.78 6°.7/ 4.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.21	+19 50.8	1.965	2.846	10.8	20.6
2 21	11 45.30	+21 23.2	1.883	2.815	8.3	20.4
3 2	11 38.41	+22 53.4	1.828	2.783	6.7	20.2
3 12	11 30.27	+24 12.0	1.801	2.752	7.4	20.2
3 22	11 21.81	+25 10.8	1.799	2.720	9.9	20.3
4 1	11 14.10	+25 44.4	1.823	2.689	12.9	20.4
4 11	11 8.08	+25 51.2	1.867	2.657	15.9	20.5
4 21	11 4.33	+25 32.6	1.929	2.626	18.5	20.7

514316 2016 GN_{130} 3 12.3 276°.30 1°.2/13.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.36	− 2 48.7	1.822	2.672	13.0	21.4
2 21	11 45.34	− 2 14.5	1.736	2.659	9.5	21.1
3 2	11 38.39	− 1 24.0	1.675	2.646	5.3	20.9
3 12	11 30.27	− 0 21.6	1.641	2.633	1.4	20.6
3 22	11 21.92	+ 0 46.1	1.635	2.620	4.2	20.7
4 1	11 14.38	+ 1 51.9	1.657	2.607	8.6	21.0
4 11	11 8.54	+ 2 48.6	1.704	2.594	12.6	21.2
4 21	11 4.98	+ 3 31.8	1.772	2.581	16.0	21.4

128840 2004 RH_{333} 3 12.3 144°.08 2°.7/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.88	+ 9 27.3	2.203	3.073	10.3	20.3
2 21	11 45.97	+10 24.6	2.145	3.082	7.1	20.1
3 2	11 38.52	+11 25.0	2.114	3.090	3.9	19.9
3 12	11 30.27	+12 22.2	2.113	3.098	2.9	19.9
3 22	11 22.05	+13 10.5	2.140	3.105	5.5	20.1
4 1	11 14.68	+13 45.5	2.196	3.112	8.8	20.3
4 11	11 8.83	+14 5.0	2.277	3.119	11.7	20.5
4 21	11 4.91	+14 8.6	2.379	3.125	14.2	20.7

341425 2007 TP_{204} 3 12.3 93°.38 1°.0/11.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 49.41	+ 3 54.2	2.196	3.059	10.6	21.1
2 21	11 44.27	+ 4 40.1	2.132	3.066	7.3	20.9
3 2	11 37.65	+ 5 33.7	2.096	3.073	3.7	20.7
3 12	11 30.26	+ 6 29.4	2.088	3.080	1.0	20.5
3 22	11 22.86	+ 7 21.9	2.109	3.087	4.3	20.7
4 1	11 16.25	+ 8 6.0	2.159	3.094	7.8	21.0
4 11	11 11.08	+ 8 38.1	2.234	3.101	11.0	21.2
4 21	11 7.75	+ 8 56.4	2.331	3.108	13.6	21.4

403794 2011 SB_{232} 3 12.3 132°.60 1°.1/11.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.16	+ 4 43.8	1.633	2.498	13.5	21.7
2 21	11 50.04	+ 5 9.2	1.574	2.507	9.4	21.5
3 2	11 40.76	+ 5 42.8	1.539	2.516	4.8	21.2
3 12	11 30.34	+ 6 18.3	1.532	2.525	1.2	21.0
3 22	11 19.97	+ 6 49.5	1.554	2.533	5.3	21.3
4 1	11 10.82	+ 7 11.1	1.603	2.541	9.8	21.6
4 11	11 3.83	+ 7 19.5	1.676	2.548	13.7	21.8
4 21	10 59.46	+ 7 13.6	1.769	2.555	16.9	22.1

319649 2006 SC_{412} 3 12.3 89°.42 1°.9/10.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.73	+ 3 53.0	1.684	2.556	12.8	20.2
2 21	11 45.45	+ 5 24.5	1.635	2.573	8.7	20.0
3 2	11 38.33	+ 7 6.3	1.611	2.589	4.4	19.8
3 12	11 30.28	+ 8 49.1	1.615	2.606	2.1	19.7
3 22	11 22.31	+10 23.3	1.648	2.622	5.8	19.9
4 1	11 15.42	+11 41.2	1.708	2.638	9.9	20.2
4 11	11 10.40	+12 38.1	1.792	2.654	13.5	20.5
4 21	11 7.65	+13 12.9	1.896	2.669	16.4	20.7

414921 2011 AX_{34} 3 12.3 23°.98 5°.5/16.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.20	−11 28.0	1.344	2.179	17.7	20.4
2 21	11 44.84	−11 31.4	1.285	2.189	13.8	20.1
3 2	11 38.19	−11 6.7	1.247	2.199	9.6	19.9
3 12	11 30.28	−10 16.8	1.233	2.211	6.1	19.8
3 22	11 22.35	− 9 8.3	1.243	2.224	6.1	19.8
4 1	11 15.68	− 7 51.0	1.278	2.237	9.5	20.0
4 11	11 11.23	− 6 35.5	1.336	2.252	13.5	20.3
4 21	11 9.49	− 5 30.3	1.414	2.267	17.1	20.5

345071 2005 JE_{47} 3 12.3 256°.01 6°.1/ 5.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.97	+21 36.1	2.195	3.066	10.2	21.1
2 21	11 46.84	+22 33.5	2.137	3.062	7.8	20.9
3 2	11 39.02	+23 23.9	2.106	3.058	6.3	20.8
3 12	11 30.30	+24 0.7	2.103	3.053	6.6	20.8
3 22	11 21.58	+24 18.8	2.128	3.048	8.6	20.9
4 1	11 13.78	+24 15.9	2.178	3.044	11.1	21.1
4 11	11 7.62	+23 52.3	2.250	3.039	13.6	21.3
4 21	11 3.55	+23 10.2	2.342	3.034	15.7	21.4

368212 2001 RA_{23} 3 12.3 212°.08 1°.0/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.36	+ 2 8.1	2.232	3.089	10.7	21.9
2 21	11 45.04	+ 3 32.2	2.151	3.082	7.4	21.6
3 2	11 38.13	+ 5 7.9	2.096	3.074	3.7	21.4
3 12	11 30.29	+ 6 48.8	2.072	3.065	1.1	21.2
3 22	11 22.31	+ 8 27.1	2.079	3.055	4.6	21.4
4 1	11 15.02	+ 9 55.6	2.116	3.045	8.3	21.6
4 11	11 9.14	+11 8.9	2.179	3.035	11.6	21.8
4 21	11 5.16	+12 4.1	2.263	3.023	14.4	22.0

48668 1995 XB_{1} 3 12.3 114°.85 3°.6/16.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.64	−11 53.1	2.732	3.524	10.9	18.8
2 21	11 44.22	−11 46.2	2.661	3.539	8.5	18.7
3 2	11 37.57	−11 23.9	2.615	3.554	5.9	18.5
3 12	11 30.27	−10 48.3	2.598	3.569	3.9	18.4
3 22	11 22.97	−10 2.6	2.610	3.584	3.9	18.4
4 1	11 16.33	− 9 11.1	2.651	3.598	5.9	18.6
4 11	11 10.89	− 8 18.8	2.720	3.612	8.4	18.7
4 21	11 7.01	− 7 30.1	2.814	3.625	10.6	18.9

76770 2000 KZ_{43} 3 12.3 234°.57 1°.0/11.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.38	+ 4 17.5	2.569	3.428	9.4	19.6
2 21	11 44.20	+ 5 2.8	2.485	3.417	6.5	19.4
3 2	11 37.63	+ 5 55.1	2.428	3.405	3.3	19.2
3 12	11 30.28	+ 6 49.9	2.401	3.393	1.0	19.0
3 22	11 22.80	+ 7 42.3	2.404	3.381	4.0	19.2
4 1	11 15.91	+ 8 27.7	2.436	3.368	7.2	19.4
4 11	11 10.24	+ 9 2.5	2.495	3.355	10.2	19.6
4 21	11 6.22	+ 9 24.8	2.576	3.341	12.7	19.7

459088 2012 BK_{74} 3 12.3 117°.16 7°.2/19.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.24	−17 57.4	1.832	2.605	16.2	21.5
2 21	11 48.69	−18 23.4	1.764	2.619	13.3	21.3
3 2	11 40.09	−18 23.3	1.718	2.633	10.2	21.1
3 12	11 30.34	−17 57.2	1.696	2.647	7.8	21.0
3 22	11 20.54	−17 8.1	1.701	2.660	7.3	21.0
4 1	11 11.80	−16 2.9	1.733	2.672	9.1	21.1
4 11	11 5.02	−14 50.4	1.790	2.685	11.8	21.3
4 21	11 0.71	−13 39.0	1.870	2.696	14.6	21.5

298887 2004 SN_{48} 3 12.3 127°.92 1°.1/13.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 56.33	− 1 53.5	1.859	2.702	13.1	21.6
2 21	11 49.23	− 1 28.3	1.800	2.720	9.4	21.4
3 2	11 40.27	− 0 49.7	1.766	2.737	5.2	21.2
3 12	11 30.35	− 0 2.4	1.761	2.753	1.2	20.9
3 22	11 20.51	+ 0 47.6	1.785	2.769	4.1	21.1
4 1	11 11.78	+ 1 34.2	1.838	2.784	8.2	21.4
4 11	11 4.93	+ 2 12.2	1.917	2.798	11.8	21.7
4 21	11 0.43	+ 2 38.3	2.017	2.811	14.9	21.9

159859 2004 LE_{23} 3 12.3 172°.22 9°.6/28.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.11	+31 4.6	2.093	2.945	11.5	20.4
2 21	11 49.95	+33 12.7	2.060	2.950	10.0	20.3
3 2	11 40.72	+35 5.0	2.055	2.955	9.7	20.2
3 12	11 30.36	+36 31.6	2.076	2.958	10.6	20.3
3 22	11 20.01	+37 26.7	2.123	2.960	12.4	20.4
4 1	11 10.77	+37 48.8	2.192	2.961	14.4	20.6
4 11	11 3.56	+37 40.4	2.279	2.962	16.2	20.7
4 21	10 58.84	+37 6.5	2.382	2.961	17.8	20.9

173860 2001 TP_{182} 3 12.3 140°.02 0°.4/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.29	− 0 8.2	2.931	3.771	8.9	21.1
2 21	11 44.58	+ 0 15.5	2.864	3.784	6.3	21.0
3 2	11 37.73	+ 0 46.9	2.824	3.796	3.4	20.8
3 12	11 30.29	+ 1 22.8	2.814	3.807	0.5	20.6
3 22	11 22.87	+ 1 59.7	2.835	3.818	2.9	20.8
4 1	11 16.06	+ 2 34.0	2.887	3.829	5.8	21.0
4 11	11 10.37	+ 3 2.6	2.967	3.839	8.4	21.2
4 21	11 6.14	+ 3 23.3	3.070	3.848	10.6	21.3

87806 2000 SR_{140} 3 12.3 194°.86 1°.3/13.6 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.74	− 2 44.3	2.107	2.949	11.9	20.1
2 21	11 46.04	− 2 20.2	2.029	2.948	8.6	19.9
3 2	11 38.66	− 1 42.8	1.976	2.946	4.9	19.6
3 12	11 30.32	− 0 56.1	1.952	2.944	1.4	19.4
3 22	11 21.88	− 0 5.0	1.957	2.941	3.7	19.5
4 1	11 14.23	+ 0 44.7	1.990	2.938	7.5	19.8
4 11	11 8.11	+ 1 27.6	2.050	2.935	11.0	20.0
4 21	11 4.01	+ 2 0.2	2.132	2.931	14.0	20.2

332355 2007 EQ_{18} 3 12.3 36°.21 4°.7/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.57	+11 28.2	1.326	2.218	14.1	19.5
2 21	11 46.35	+12 38.1	1.288	2.233	9.8	19.3
3 2	11 38.88	+13 49.4	1.274	2.250	5.8	19.1
3 12	11 30.32	+14 51.7	1.285	2.267	5.0	19.1
3 22	11 21.97	+15 36.4	1.322	2.285	8.4	19.4
4 1	11 15.05	+15 58.5	1.382	2.304	12.4	19.7
4 11	11 10.44	+15 56.7	1.464	2.323	16.1	19.9
4 21	11 8.52	+15 33.0	1.563	2.343	19.1	20.2

109600 2001 QJ_{282} 3 12.3 162°.48 4°.1/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.21	+14 24.7	2.437	3.308	9.4	21.1
2 21	11 46.14	+15 45.8	2.382	3.315	6.7	20.9
3 2	11 38.62	+17 6.3	2.355	3.322	4.4	20.8
3 12	11 30.33	+18 19.3	2.359	3.329	4.4	20.8
3 22	11 22.05	+19 19.0	2.392	3.334	6.6	20.9
4 1	11 14.54	+20 1.7	2.453	3.338	9.3	21.1
4 11	11 8.45	+20 25.6	2.539	3.342	11.8	21.3
4 21	11 4.19	+20 31.4	2.645	3.345	13.9	21.4

384950 2012 TE_{129} 3 12.3 55°.54 2°.2/10.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.09	+ 8 22.8	2.020	2.892	10.9	20.2
2 21	11 45.47	+ 9 1.8	1.970	2.908	7.5	20.0
3 2	11 38.28	+ 9 44.2	1.947	2.924	3.9	19.8
3 12	11 30.33	+10 24.3	1.952	2.941	2.4	19.8
3 22	11 22.47	+10 56.8	1.986	2.957	5.3	20.0
4 1	11 15.57	+11 17.6	2.047	2.974	8.7	20.2
4 11	11 10.29	+11 24.7	2.133	2.990	11.8	20.4
4 21	11 7.00	+11 17.6	2.239	3.007	14.3	20.7

382161 2012 HM_{41} 3 12.3 210°.42 3°.5/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.52	+11 9.6	2.261	3.134	9.9	21.3
2 21	11 45.13	+12 32.9	2.191	3.128	6.9	21.1
3 2	11 38.18	+13 59.4	2.149	3.122	4.2	20.9
3 12	11 30.33	+15 22.0	2.136	3.115	3.8	20.9
3 22	11 22.38	+16 33.7	2.153	3.107	6.4	21.0
4 1	11 15.15	+17 29.4	2.198	3.100	9.5	21.2
4 11	11 9.36	+18 6.1	2.268	3.091	12.4	21.4
4 21	11 5.46	+18 23.5	2.357	3.082	14.8	21.5

501193 2013 TJ_{115} 3 12.3 252°.91 1°.4/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.77	+ 5 25.6	2.134	2.996	10.9	21.7
2 21	11 46.86	+ 6 5.0	2.044	2.978	7.6	21.5
3 2	11 39.15	+ 6 51.8	1.982	2.959	3.9	21.2
3 12	11 30.36	+ 7 40.8	1.948	2.940	1.5	21.0
3 22	11 21.33	+ 8 26.1	1.944	2.920	4.8	21.2
4 1	11 13.01	+ 9 2.6	1.969	2.900	8.7	21.4
4 11	11 6.22	+ 9 26.4	2.019	2.879	12.2	21.6
4 21	11 1.50	+ 9 35.6	2.090	2.858	15.2	21.7

459508 2013 EQ_{15} 3 12.3 104°.00 3°.2/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 53.78	+ 7 52.4	1.458	2.339	13.8	20.9
2 21	11 47.87	+ 9 5.1	1.406	2.348	9.5	20.6
3 2	11 39.71	+10 24.6	1.379	2.357	5.1	20.4
3 12	11 30.37	+11 41.2	1.378	2.366	3.5	20.3
3 22	11 21.08	+12 45.5	1.405	2.374	7.2	20.5
4 1	11 13.10	+13 30.5	1.457	2.383	11.5	20.8
4 11	11 7.34	+13 53.1	1.531	2.391	15.4	21.1
4 21	11 4.28	+13 53.5	1.624	2.399	18.6	21.3

502406 2015 BO_{253} 3 12.3 319°.52 0°.3/12.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.19	− 0 31.0	1.793	2.654	12.7	21.2
2 21	11 44.50	+ 0 11.5	1.717	2.647	9.0	21.0
3 2	11 37.95	+ 1 8.4	1.666	2.641	4.8	20.7
3 12	11 30.32	+ 2 14.1	1.641	2.635	0.4	20.4
3 22	11 22.56	+ 3 21.6	1.645	2.629	4.3	20.7
4 1	11 15.66	+ 4 23.6	1.676	2.624	8.7	20.9
4 11	11 10.46	+ 5 14.0	1.732	2.618	12.6	21.1
4 21	11 7.48	+ 5 49.0	1.808	2.613	15.9	21.3

509256 2006 UF_{62} 3 12.3 144°.61 3°.1/16.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.28	−10 11.4	2.637	3.442	10.9	21.8
2 21	11 43.37	− 9 52.3	2.557	3.447	8.3	21.6
3 2	11 37.19	− 9 17.9	2.504	3.452	5.6	21.4
3 12	11 30.31	− 8 30.6	2.478	3.456	3.4	21.3
3 22	11 23.38	− 7 34.1	2.482	3.461	3.6	21.3
4 1	11 17.06	− 6 33.2	2.515	3.465	6.0	21.5
4 11	11 11.95	− 5 33.4	2.575	3.469	8.7	21.6
4 21	11 8.40	− 4 38.9	2.660	3.473	11.2	21.8

200587 2001 QU_{212} 3 12.3 183°.36 0°.9/13.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.92	− 1 15.7	1.812	2.658	13.3	21.6
2 21	11 49.17	− 0 50.4	1.737	2.659	9.5	21.3
3 2	11 40.37	− 0 11.3	1.688	2.660	5.2	21.1
3 12	11 30.40	+ 0 37.0	1.666	2.659	1.0	20.8
3 22	11 20.31	+ 1 28.4	1.674	2.658	4.3	21.0
4 1	11 11.22	+ 2 16.4	1.710	2.656	8.7	21.3
4 11	11 4.02	+ 2 55.2	1.772	2.653	12.6	21.5
4 21	10 59.26	+ 3 21.3	1.855	2.649	16.0	21.7

374167 2004 VT_{53} 3 12.3 195°.22 5°.6/ 6.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.08	+19 54.0	2.269	3.139	10.0	21.1
2 21	11 47.58	+20 53.8	2.210	3.137	7.5	20.9
3 2	11 39.42	+21 48.3	2.179	3.135	5.8	20.8
3 12	11 30.37	+22 30.7	2.176	3.132	6.0	20.8
3 22	11 21.32	+22 56.0	2.202	3.128	8.0	21.0
4 1	11 13.16	+23 1.5	2.254	3.125	10.6	21.1
4 11	11 6.61	+22 47.1	2.329	3.121	13.1	21.3
4 21	11 2.12	+22 14.7	2.424	3.116	15.2	21.4

519924 2013 RA_{105} 3 12.3 188°.17 1°.0/13.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.39	− 1 42.2	2.270	3.111	11.1	22.5
2 21	11 46.40	− 1 20.6	2.191	3.110	8.0	22.3
3 2	11 38.83	− 0 47.6	2.139	3.109	4.5	22.1
3 12	11 30.36	− 0 6.8	2.115	3.108	1.1	21.9
3 22	11 21.81	+ 0 37.1	2.122	3.106	3.5	22.0
4 1	11 13.99	+ 1 19.2	2.157	3.103	7.2	22.3
4 11	11 7.64	+ 1 54.9	2.220	3.100	10.5	22.5
4 21	11 3.19	+ 2 21.0	2.305	3.096	13.3	22.6

375893 2009 VB_{83} 3 12.3 189°.45 2°.4/14.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.03	− 5 43.1	2.049	2.881	12.6	21.1
2 21	11 46.30	− 5 31.1	1.971	2.880	9.3	20.9
3 2	11 38.83	− 5 3.4	1.917	2.879	5.8	20.7
3 12	11 30.36	− 4 23.3	1.891	2.878	2.7	20.5
3 22	11 21.79	− 3 35.3	1.893	2.877	3.9	20.5
4 1	11 14.02	− 2 45.3	1.925	2.876	7.5	20.8
4 11	11 7.84	− 1 59.0	1.982	2.874	11.0	21.0
4 21	11 3.74	− 1 21.2	2.062	2.872	14.0	21.2

178983 2001 QU_{273} 3 12.3 209°.94 1°.1/13.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.33	− 0 28.0	1.794	2.645	13.2	20.1
2 21	11 48.78	− 0 27.8	1.719	2.643	9.5	19.8
3 2	11 40.19	− 0 15.8	1.669	2.641	5.3	19.6
3 12	11 30.40	+ 0 4.3	1.647	2.639	1.2	19.3
3 22	11 20.49	+ 0 28.1	1.653	2.637	4.3	19.5
4 1	11 11.56	+ 0 50.2	1.687	2.635	8.6	19.7
4 11	11 4.53	+ 1 5.8	1.746	2.633	12.5	20.0
4 21	10 59.93	+ 1 12.0	1.827	2.630	15.8	20.2

150182 1998 GM_{7} 3 12.3 289°.49 3°.4/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.66	+ 8 1.2	1.798	2.678	11.7	19.2
2 21	11 44.24	+ 9 39.3	1.718	2.660	8.1	19.0
3 2	11 37.88	+11 27.0	1.664	2.642	4.5	18.7
3 12	11 30.34	+13 15.1	1.639	2.623	3.7	18.6
3 22	11 22.56	+14 53.7	1.642	2.605	7.1	18.8
4 1	11 15.57	+16 14.2	1.672	2.587	11.1	19.0
4 11	11 10.27	+17 11.6	1.724	2.569	14.7	19.2
4 21	11 7.23	+17 44.4	1.796	2.550	17.8	19.3

64421 2001 UD_{203} 3 12.3 347°.28 1°.1/11.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 50.60	+ 5 3.7	1.921	2.790	11.6	19.1
2 21	11 45.35	+ 5 29.1	1.850	2.787	8.0	18.8
3 2	11 38.35	+ 6 1.6	1.805	2.783	4.1	18.6
3 12	11 30.35	+ 6 36.1	1.788	2.780	1.2	18.4
3 22	11 22.28	+ 7 7.1	1.799	2.778	4.7	18.6
4 1	11 15.08	+ 7 29.9	1.837	2.775	8.7	18.8
4 11	11 9.53	+ 7 40.8	1.899	2.774	12.2	19.0
4 21	11 6.11	+ 7 38.5	1.983	2.772	15.2	19.2

427839 2005 JU_{153} 3 12.3 265°.20 5°.9/ 5.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.67	+19 49.2	2.182	3.059	10.1	21.2
2 21	11 45.30	+21 4.0	2.124	3.053	7.6	21.0
3 2	11 38.28	+22 14.1	2.092	3.047	6.0	20.9
3 12	11 30.35	+23 12.1	2.088	3.041	6.4	20.9
3 22	11 22.37	+23 52.1	2.112	3.036	8.5	21.0
4 1	11 15.23	+24 10.8	2.161	3.030	11.1	21.2
4 11	11 9.66	+24 7.6	2.233	3.024	13.6	21.3
4 21	11 6.09	+23 44.4	2.322	3.018	15.8	21.5

382337 2013 TC_{33} 3 12.3 211°.35 1°.0/13.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.67	− 2 48.9	2.259	3.099	11.2	21.6
2 21	11 45.25	− 2 10.6	2.175	3.093	8.1	21.4
3 2	11 38.26	− 1 19.0	2.117	3.087	4.6	21.2
3 12	11 30.36	− 0 18.1	2.088	3.080	1.2	20.9
3 22	11 22.32	+ 0 46.7	2.088	3.073	3.5	21.1
4 1	11 14.99	+ 1 49.4	2.119	3.065	7.2	21.3
4 11	11 9.06	+ 2 44.6	2.175	3.057	10.6	21.5
4 21	11 5.00	+ 3 28.4	2.254	3.048	13.5	21.7

87251 2000 OV_{49} 3 12.3 166°.78 2°.9/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.12	+ 9 43.5	2.281	3.151	10.0	19.4
2 21	11 45.47	+10 55.5	2.219	3.156	6.9	19.2
3 2	11 38.32	+12 10.9	2.185	3.160	3.9	19.1
3 12	11 30.36	+13 23.0	2.180	3.163	3.1	19.0
3 22	11 22.38	+14 25.7	2.206	3.166	5.7	19.2
4 1	11 15.17	+15 14.1	2.259	3.169	8.9	19.4
4 11	11 9.42	+15 45.7	2.337	3.171	11.7	19.6
4 21	11 5.53	+15 59.9	2.436	3.172	14.1	19.7

424556 2008 FZ_{25} 3 12.3 320°.63 6°.1/ 8.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.50	+16 40.7	1.428	2.313	13.8	20.1
2 21	11 50.10	+17 16.7	1.359	2.297	10.1	19.8
3 2	11 41.06	+17 48.6	1.313	2.282	6.9	19.6
3 12	11 30.44	+18 7.1	1.293	2.268	6.4	19.5
3 22	11 19.64	+18 5.2	1.298	2.254	9.5	19.7
4 1	11 10.13	+17 39.3	1.328	2.240	13.6	19.9
4 11	11 3.08	+16 49.8	1.379	2.228	17.5	20.1
4 21	10 59.08	+15 40.1	1.447	2.216	20.8	20.3

342643 2008 UG_{360} 3 12.3 340°.33 6°.7/18.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.73	−16 36.4	1.849	2.637	15.5	20.6
2 21	11 44.96	−16 56.0	1.766	2.632	12.7	20.4
3 2	11 38.25	−16 50.8	1.704	2.628	9.7	20.2
3 12	11 30.37	−16 20.8	1.667	2.624	7.3	20.0
3 22	11 22.28	−15 29.1	1.656	2.620	6.9	20.0
4 1	11 15.03	−14 21.8	1.670	2.617	8.8	20.1
4 11	11 9.51	−13 7.5	1.710	2.614	11.7	20.3
4 21	11 6.29	−11 54.5	1.772	2.612	14.7	20.5

463307 2012 JD_{20} 3 12.3 312°.18 5°.0/16.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 47.45	−12 32.6	1.541	2.365	16.3	20.5
2 21	11 43.72	−12 5.7	1.445	2.343	12.9	20.2
3 2	11 37.77	−11 8.8	1.371	2.322	9.0	19.9
3 12	11 30.36	− 9 43.6	1.322	2.301	5.6	19.7
3 22	11 22.57	− 7 56.4	1.298	2.280	5.6	19.6
4 1	11 15.62	− 5 58.0	1.300	2.260	9.4	19.8
4 11	11 10.61	− 4 0.7	1.327	2.240	13.8	20.0
4 21	11 8.21	− 2 15.3	1.375	2.221	17.8	20.2

294128 2007 TR_{270} 3 12.3 236°.77 2°.5/14.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.92	− 5 51.3	1.729	2.567	14.2	20.7
2 21	11 47.27	− 5 28.2	1.644	2.557	10.6	20.5
3 2	11 39.49	− 4 45.5	1.582	2.547	6.5	20.2
3 12	11 30.41	− 3 46.9	1.548	2.537	2.8	20.0
3 22	11 21.07	− 2 38.7	1.541	2.526	4.4	20.0
4 1	11 12.63	− 1 28.6	1.562	2.515	8.8	20.3
4 11	11 6.05	− 0 24.7	1.608	2.503	12.9	20.5
4 21	11 1.95	+ 0 27.1	1.675	2.491	16.5	20.7

297620 2001 TQ_{32} 3 12.3 150°.74 0°.3/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.48	+ 0 20.5	1.818	2.668	13.0	21.7
2 21	11 49.47	+ 0 48.9	1.753	2.678	9.2	21.5
3 2	11 40.49	+ 1 29.2	1.713	2.687	4.9	21.2
3 12	11 30.46	+ 2 16.3	1.702	2.696	0.4	20.9
3 22	11 20.42	+ 3 4.0	1.721	2.704	4.4	21.2
4 1	11 11.46	+ 3 46.1	1.768	2.711	8.7	21.5
4 11	11 4.43	+ 4 18.0	1.840	2.717	12.5	21.7
4 21	10 59.80	+ 4 36.7	1.933	2.722	15.6	22.0

158361 2001 XH_{140} 3 12.3 82°.76 1°.0/13.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 52.06	− 2 22.5	1.772	2.622	13.3	20.7
2 21	11 46.34	− 1 45.8	1.717	2.640	9.5	20.5
3 2	11 38.83	− 0 54.5	1.686	2.658	5.3	20.3
3 12	11 30.41	+ 0 6.1	1.683	2.676	1.2	20.0
3 22	11 22.07	+ 1 9.1	1.709	2.694	4.1	20.3
4 1	11 14.79	+ 2 7.6	1.762	2.711	8.2	20.6
4 11	11 9.33	+ 2 55.7	1.840	2.728	11.9	20.8
4 21	11 6.10	+ 3 30.3	1.940	2.745	15.0	21.1

337644 2001 TM_{122} 3 12.3 142°.53 4°.9/19.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.42	−17 47.9	2.860	3.615	11.3	20.9
2 21	11 44.12	−17 45.0	2.780	3.625	9.3	20.7
3 2	11 37.59	−17 24.1	2.723	3.634	7.1	20.6
3 12	11 30.38	−16 46.3	2.694	3.643	5.4	20.5
3 22	11 23.13	−15 54.2	2.693	3.652	5.0	20.5
4 1	11 16.48	−14 52.3	2.722	3.660	6.2	20.6
4 11	11 11.00	−13 45.9	2.778	3.668	8.3	20.7
4 21	11 7.06	−12 40.3	2.859	3.675	10.4	20.9

63724 2001 QO_{235} 3 12.3 113°.17 2°.3/15.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.39	− 7 9.6	2.319	3.144	11.5	19.2
2 21	11 43.58	− 6 36.1	2.244	3.150	8.6	19.0
3 2	11 37.36	− 5 47.0	2.196	3.156	5.3	18.8
3 12	11 30.37	− 4 45.7	2.175	3.162	2.5	18.7
3 22	11 23.35	− 3 37.5	2.183	3.167	3.4	18.7
4 1	11 17.03	− 2 28.1	2.221	3.173	6.6	18.9
4 11	11 12.04	− 1 23.5	2.286	3.178	9.7	19.1
4 21	11 8.81	− 0 28.1	2.373	3.184	12.4	19.3

358012 2006 DO_{128} 3 12.3 296°.13 1°.6/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.84	+ 5 32.4	1.387	2.263	14.7	20.8
2 21	11 49.62	+ 5 54.8	1.317	2.256	10.3	20.5
3 2	11 40.82	+ 6 26.1	1.270	2.249	5.3	20.2
3 12	11 30.47	+ 6 59.6	1.250	2.242	1.6	19.9
3 22	11 19.94	+ 7 27.8	1.256	2.236	6.2	20.2
4 1	11 10.66	+ 7 44.5	1.287	2.229	11.3	20.5
4 11	11 3.77	+ 7 45.6	1.341	2.223	15.8	20.7
4 21	10 59.88	+ 7 29.9	1.413	2.216	19.6	21.0

190363 1999 JL_{134} 3 12.3 252°.61 3°.7/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.07	+10 24.0	2.010	2.888	10.8	20.4
2 21	11 45.06	+11 57.8	1.934	2.874	7.5	20.2
3 2	11 38.27	+13 37.3	1.885	2.859	4.5	20.0
3 12	11 30.41	+15 13.8	1.865	2.845	4.1	19.9
3 22	11 22.36	+16 39.2	1.874	2.830	7.0	20.0
4 1	11 15.07	+17 46.5	1.910	2.815	10.5	20.2
4 11	11 9.35	+18 32.1	1.970	2.799	13.8	20.4
4 21	11 5.73	+18 55.2	2.049	2.783	16.5	20.6

506191 2016 GN_{108} 3 12.3 214°.71 1°.5/14.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.86	− 5 18.9	2.397	3.227	11.0	21.9
2 21	11 44.65	− 4 32.4	2.308	3.219	8.1	21.7
3 2	11 37.96	− 3 30.9	2.245	3.211	4.8	21.5
3 12	11 30.40	− 2 18.2	2.211	3.202	1.7	21.3
3 22	11 22.71	− 0 59.6	2.208	3.192	3.3	21.4
4 1	11 15.65	+ 0 18.5	2.234	3.182	6.8	21.6
4 11	11 9.90	+ 1 30.3	2.288	3.172	10.1	21.8
4 21	11 5.91	+ 2 31.2	2.365	3.161	12.9	21.9

368121 2013 GL_{130} 3 12.3 272°.97 7°.9/ 3.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.99	+20 13.8	1.646	2.530	12.4	20.4
2 21	11 47.55	+22 8.6	1.578	2.509	9.6	20.2
3 2	11 39.74	+24 0.2	1.535	2.489	7.9	20.1
3 12	11 30.46	+25 36.5	1.519	2.468	8.8	20.1
3 22	11 20.88	+26 47.1	1.529	2.446	11.6	20.2
4 1	11 12.31	+27 26.1	1.562	2.425	14.9	20.3
4 11	11 5.82	+27 32.5	1.615	2.403	18.1	20.5
4 21	11 2.06	+27 9.4	1.684	2.381	20.8	20.6

256224 2006 VV_{140} 3 12.3 47°.53 0°.4/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.54	− 0 15.3	1.580	2.443	14.0	20.5
2 21	11 46.26	+ 0 20.8	1.517	2.448	9.9	20.3
3 2	11 38.91	+ 1 11.6	1.477	2.453	5.3	20.0
3 12	11 30.43	+ 2 10.9	1.465	2.458	0.5	19.7
3 22	11 21.92	+ 3 11.3	1.479	2.464	4.7	20.0
4 1	11 14.50	+ 4 5.2	1.521	2.469	9.3	20.3
4 11	11 9.06	+ 4 46.5	1.586	2.475	13.4	20.5
4 21	11 6.09	+ 5 12.1	1.671	2.481	16.8	20.8

495092 2011 SB_{74} 3 12.3 159°.45 3°.6/15.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.97	− 9 41.4	1.820	2.638	14.5	21.9
2 21	11 47.81	− 9 18.1	1.747	2.645	11.0	21.7
3 2	11 39.69	− 8 33.1	1.697	2.651	7.3	21.5
3 12	11 30.46	− 7 29.8	1.674	2.657	4.0	21.3
3 22	11 21.15	− 6 14.3	1.680	2.661	4.6	21.4
4 1	11 12.83	− 4 54.4	1.714	2.665	8.2	21.6
4 11	11 6.36	− 3 38.6	1.773	2.669	11.9	21.8
4 21	11 2.25	− 2 33.1	1.855	2.671	15.1	22.0

96725 1999 LA_{30} 3 12.3 351°.56 2°.5/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 53.31	+ 6 24.8	1.438	2.318	14.1	19.6
2 21	11 47.70	+ 7 21.2	1.377	2.318	9.7	19.4
3 2	11 39.74	+ 8 26.6	1.339	2.318	5.0	19.1
3 12	11 30.47	+ 9 32.4	1.327	2.317	2.7	18.9
3 22	11 21.13	+10 29.5	1.342	2.317	6.7	19.2
4 1	11 13.00	+11 10.5	1.383	2.317	11.4	19.4
4 11	11 7.11	+11 31.4	1.446	2.317	15.5	19.7
4 21	11 3.97	+11 31.5	1.527	2.317	19.0	19.9

376276 2011 FW_{55} 3 12.3 267°.59 0°.5/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.03	+ 3 22.9	1.899	2.762	12.0	20.7
2 21	11 47.08	+ 3 42.9	1.828	2.760	8.4	20.5
3 2	11 39.29	+ 4 11.5	1.782	2.758	4.3	20.2
3 12	11 30.46	+ 4 43.7	1.763	2.757	0.5	19.9
3 22	11 21.55	+ 5 14.3	1.774	2.755	4.5	20.2
4 1	11 13.55	+ 5 38.3	1.812	2.754	8.6	20.5
4 11	11 7.28	+ 5 51.9	1.875	2.752	12.3	20.7
4 21	11 3.24	+ 5 53.1	1.960	2.751	15.3	20.9

146511 2001 SE_{81} 3 12.3 79°.95 1°.1/13.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.81	− 2 46.3	1.719	2.568	13.7	20.0
2 21	11 46.85	− 2 2.4	1.670	2.593	9.8	19.8
3 2	11 39.09	− 1 3.2	1.646	2.618	5.4	19.6
3 12	11 30.46	+ 0 5.2	1.650	2.643	1.2	19.4
3 22	11 21.98	+ 1 15.5	1.682	2.667	4.1	19.6
4 1	11 14.64	+ 2 20.2	1.742	2.691	8.3	19.9
4 11	11 9.19	+ 3 13.4	1.827	2.715	12.0	20.2
4 21	11 6.02	+ 3 51.9	1.934	2.738	15.0	20.5

97497 2000 CQ_{88} 3 12.3 325°.64 2°.1/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.73	+ 6 2.6	1.231	2.115	15.6	18.9
2 21	11 49.06	+ 6 35.6	1.166	2.109	10.9	18.6
3 2	11 40.61	+ 7 18.5	1.123	2.103	5.6	18.3
3 12	11 30.50	+ 8 3.1	1.105	2.097	2.2	18.1
3 22	11 20.23	+ 8 40.4	1.113	2.092	6.9	18.3
4 1	11 11.33	+ 9 3.0	1.144	2.087	12.3	18.6
4 11	11 5.02	+ 9 6.5	1.197	2.083	17.1	18.9
4 21	11 1.92	+ 8 50.2	1.267	2.079	21.0	19.1

130833 2000 UH_{44} 3 12.3 234°.08 1°.1/11.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.03	+ 4 7.0	1.909	2.769	12.1	20.6
2 21	11 48.63	+ 4 49.2	1.823	2.755	8.4	20.4
3 2	11 40.19	+ 5 41.0	1.763	2.740	4.3	20.1
3 12	11 30.50	+ 6 36.6	1.732	2.724	1.2	19.8
3 22	11 20.55	+ 7 29.3	1.730	2.707	5.1	20.1
4 1	11 11.43	+ 8 12.9	1.756	2.690	9.4	20.3
4 11	11 4.07	+ 8 42.8	1.807	2.672	13.2	20.5
4 21	10 59.06	+ 8 56.8	1.879	2.653	16.5	20.7

355786 2008 SV_{41} 3 12.3 190°.23 0°.3/12.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.31	+ 1 49.3	1.685	2.543	13.5	21.8
2 21	11 49.59	+ 2 22.9	1.613	2.543	9.5	21.6
3 2	11 40.68	+ 3 8.6	1.565	2.541	4.9	21.3
3 12	11 30.51	+ 4 0.4	1.546	2.539	0.3	20.9
3 22	11 20.22	+ 4 51.3	1.555	2.537	4.9	21.3
4 1	11 10.99	+ 5 34.7	1.592	2.533	9.6	21.6
4 11	11 3.79	+ 6 5.3	1.653	2.529	13.7	21.8
4 21	10 59.18	+ 6 20.6	1.734	2.524	17.1	22.0

465673 2009 SM_{108} 3 12.3 134°.36 1°.8/10.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.94	+ 6 57.0	2.306	3.168	10.2	22.6
2 21	11 46.67	+ 7 43.3	2.248	3.182	7.0	22.4
3 2	11 38.94	+ 8 34.1	2.219	3.196	3.6	22.2
3 12	11 30.47	+ 9 23.9	2.219	3.209	1.9	22.1
3 22	11 22.05	+10 7.7	2.249	3.221	4.7	22.3
4 1	11 14.47	+10 41.2	2.308	3.233	8.0	22.5
4 11	11 8.38	+11 1.9	2.393	3.244	10.9	22.7
4 21	11 4.15	+11 8.8	2.500	3.255	13.4	22.9

100880 1998 HM_{93} 3 12.3 274°.93 0°.2/12.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.09	+ 1 1.4	2.372	3.224	10.3	19.8
2 21	11 44.85	+ 1 23.0	2.284	3.210	7.3	19.6
3 2	11 38.09	+ 1 53.6	2.222	3.196	3.9	19.3
3 12	11 30.45	+ 2 29.7	2.189	3.182	0.3	19.0
3 22	11 22.64	+ 3 6.9	2.185	3.168	3.6	19.2
4 1	11 15.46	+ 3 40.7	2.211	3.154	7.2	19.4
4 11	11 9.59	+ 4 7.1	2.263	3.140	10.4	19.6
4 21	11 5.51	+ 4 23.4	2.337	3.126	13.2	19.8

435313 2007 UX_{96} 3 12.3 80°.20 3°.8/16.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.96	−11 5.1	2.215	3.023	12.6	21.3
2 21	11 44.08	−10 51.1	2.137	3.027	9.7	21.1
3 2	11 37.68	−10 18.7	2.084	3.031	6.7	20.9
3 12	11 30.43	− 9 30.0	2.058	3.035	4.2	20.8
3 22	11 23.11	− 8 29.6	2.061	3.039	4.3	20.8
4 1	11 16.53	− 7 23.2	2.091	3.043	6.9	20.9
4 11	11 11.36	− 6 17.5	2.149	3.047	9.9	21.1
4 21	11 8.06	− 5 17.9	2.229	3.052	12.7	21.3

462227 2007 YU_{43} 3 12.3 140°.47 0°.5/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 54.19	+ 2 16.6	1.964	2.820	12.0	22.2
2 21	11 47.76	+ 2 58.2	1.902	2.831	8.3	22.0
3 2	11 39.58	+ 3 49.4	1.866	2.843	4.3	21.8
3 12	11 30.49	+ 4 44.7	1.860	2.853	0.5	21.5
3 22	11 21.42	+ 5 37.8	1.882	2.863	4.4	21.8
4 1	11 13.32	+ 6 22.9	1.934	2.872	8.4	22.1
4 11	11 6.96	+ 6 56.1	2.010	2.881	11.9	22.3
4 21	11 2.76	+ 7 15.1	2.109	2.889	14.8	22.5

224506 2005 WA_{32} 3 12.3 156°.29 2°.0/10.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.94	+ 7 35.5	2.204	3.069	10.5	21.0
2 21	11 46.78	+ 8 22.2	2.141	3.076	7.2	20.8
3 2	11 39.04	+ 9 13.4	2.106	3.082	3.8	20.6
3 12	11 30.48	+10 3.3	2.099	3.088	2.2	20.5
3 22	11 21.92	+10 46.6	2.122	3.093	5.0	20.7
4 1	11 14.20	+11 18.8	2.174	3.098	8.4	20.9
4 11	11 8.02	+11 37.2	2.251	3.102	11.5	21.1
4 21	11 3.79	+11 41.1	2.350	3.106	14.1	21.3

393518 2002 TC_{37} 3 12.3 196°.78 2°.1/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.65	+ 6 36.5	1.540	2.411	13.9	20.7
2 21	11 50.68	+ 7 14.1	1.472	2.409	9.6	20.5
3 2	11 41.31	+ 7 59.3	1.429	2.407	5.0	20.2
3 12	11 30.55	+ 8 44.6	1.413	2.404	2.2	20.0
3 22	11 19.68	+ 9 22.7	1.425	2.401	6.2	20.3
4 1	11 10.03	+ 9 47.3	1.463	2.397	10.9	20.5
4 11	11 2.64	+ 9 55.1	1.525	2.392	15.1	20.7
4 21	10 58.08	+ 9 45.3	1.606	2.388	18.6	21.0

364340 2006 UX_{161} 3 12.3 211°.48 2°.2/10.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.78	+ 7 31.7	2.077	2.943	11.0	22.2
2 21	11 47.56	+ 8 24.3	2.001	2.936	7.6	22.0
3 2	11 39.55	+ 9 22.6	1.952	2.928	4.0	21.8
3 12	11 30.50	+10 20.4	1.932	2.920	2.4	21.6
3 22	11 21.33	+11 11.4	1.941	2.911	5.5	21.8
4 1	11 12.98	+11 50.2	1.979	2.902	9.2	22.0
4 11	11 6.24	+12 13.7	2.042	2.892	12.5	22.2
4 21	11 1.64	+12 20.8	2.125	2.881	15.4	22.4

247063 2000 QY_{124} 3 12.3 155°.38 1°.9/ 9.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.42	+ 8 0.8	2.966	3.830	8.1	21.2
2 21	11 43.36	+ 9 1.1	2.903	3.838	5.5	21.1
3 2	11 37.19	+10 4.8	2.868	3.845	2.9	20.9
3 12	11 30.43	+11 7.2	2.865	3.851	2.0	20.9
3 22	11 23.67	+12 3.8	2.891	3.858	4.2	21.0
4 1	11 17.48	+12 50.9	2.948	3.863	6.8	21.2
4 11	11 12.36	+13 26.0	3.031	3.869	9.2	21.4
4 21	11 8.65	+13 48.1	3.136	3.873	11.2	21.5

186005 2001 QW_{54} 3 12.3 147°.88 1°.4/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.16	+ 6 1.8	2.313	3.171	10.3	21.3
2 21	11 47.54	+ 6 41.5	2.251	3.183	7.1	21.1
3 2	11 39.41	+ 7 26.3	2.217	3.194	3.6	20.9
3 12	11 30.50	+ 8 11.2	2.213	3.204	1.5	20.8
3 22	11 21.62	+ 8 51.1	2.240	3.214	4.5	21.0
4 1	11 13.59	+ 9 22.0	2.295	3.223	7.8	21.2
4 11	11 7.07	+ 9 41.0	2.377	3.231	10.9	21.4
4 21	11 2.46	+ 9 47.2	2.481	3.238	13.4	21.6

416221 2002 WG_{31} 3 12.3 114°.86 5°.7/18.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.81	−15 56.4	1.897	2.684	15.2	21.5
2 21	11 46.26	−15 45.2	1.827	2.697	12.2	21.3
3 2	11 38.87	−15 8.6	1.779	2.709	9.0	21.1
3 12	11 30.49	−14 8.6	1.757	2.721	6.3	21.0
3 22	11 22.07	−12 50.3	1.762	2.732	5.9	21.0
4 1	11 14.62	−11 21.4	1.794	2.743	8.1	21.1
4 11	11 8.93	− 9 51.0	1.853	2.754	11.1	21.3
4 21	11 5.47	− 8 26.8	1.935	2.765	14.1	21.5

497803 2006 TC_{23} 3 12.3 157°.23 2°.5/15.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 47.88	− 8 51.2	2.697	3.509	10.5	21.8
2 21	11 43.11	− 8 17.5	2.617	3.513	7.9	21.7
3 2	11 37.11	− 7 29.1	2.563	3.517	5.1	21.5
3 12	11 30.44	− 6 28.9	2.538	3.521	2.8	21.3
3 22	11 23.72	− 5 21.1	2.542	3.524	3.2	21.4
4 1	11 17.60	− 4 10.9	2.577	3.527	5.8	21.6
4 11	11 12.63	− 3 3.6	2.639	3.530	8.6	21.7
4 21	11 9.18	− 2 3.4	2.726	3.533	11.1	21.9

20773 Aneeshvenkat 3 12.3 224°.60 0°.3/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.54	+ 1 42.6	2.799	3.650	9.0	19.9
2 21	11 43.57	+ 2 26.9	2.713	3.640	6.3	19.7
3 2	11 37.37	+ 3 19.3	2.655	3.630	3.2	19.4
3 12	11 30.45	+ 4 16.0	2.626	3.620	0.3	19.2
3 22	11 23.43	+ 5 12.3	2.629	3.609	3.3	19.4
4 1	11 16.94	+ 6 3.9	2.661	3.598	6.4	19.6
4 11	11 11.54	+ 6 47.1	2.720	3.586	9.2	19.8
4 21	11 7.64	+ 7 19.3	2.802	3.575	11.7	19.9

499436 2010 CL_{203} 3 12.3 211°.22 2°.5/ 9.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 51.22	+10 41.6	2.616	3.482	9.0	21.7
2 21	11 45.46	+11 20.2	2.543	3.478	6.2	21.5
3 2	11 38.35	+12 0.4	2.498	3.472	3.5	21.3
3 12	11 30.48	+12 37.6	2.482	3.467	2.7	21.3
3 22	11 22.56	+13 7.5	2.497	3.461	4.9	21.4
4 1	11 15.29	+13 26.7	2.541	3.455	7.8	21.6
4 11	11 9.29	+13 33.2	2.610	3.448	10.5	21.7
4 21	11 4.97	+13 26.8	2.701	3.441	12.8	21.9

186026 2001 QZ_{229} 3 12.3 72°.81 2°.2/14.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.01	− 7 14.8	1.654	2.494	14.7	19.7
2 21	11 45.05	− 6 10.9	1.598	2.512	10.8	19.5
3 2	11 38.24	− 4 45.2	1.565	2.531	6.4	19.3
3 12	11 30.48	− 3 4.3	1.559	2.549	2.5	19.1
3 22	11 22.80	− 1 17.5	1.582	2.568	4.1	19.2
4 1	11 16.19	+ 0 25.4	1.633	2.586	8.3	19.5
4 11	11 11.45	+ 1 55.7	1.708	2.604	12.2	19.8
4 21	11 8.99	+ 3 8.3	1.806	2.623	15.5	20.0

462942 2011 BT_{116} 3 12.3 356°.11 6°.2/17.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.33	−13 15.4	1.586	2.399	16.5	20.5
2 21	11 46.32	−13 39.5	1.510	2.397	13.2	20.3
3 2	11 39.09	−13 38.6	1.456	2.396	9.6	20.0
3 12	11 30.52	−13 13.1	1.425	2.395	6.8	19.9
3 22	11 21.75	−12 26.8	1.421	2.394	6.6	19.9
4 1	11 13.98	−11 26.8	1.442	2.394	9.3	20.0
4 11	11 8.23	−10 22.1	1.486	2.394	12.9	20.2
4 21	11 5.09	− 9 21.3	1.552	2.395	16.3	20.4

425875 2011 FW_{18} 3 12.3 339°.83 2°.5/15.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.53	− 7 39.2	1.869	2.703	13.5	20.7
2 21	11 44.02	− 6 53.6	1.792	2.702	10.1	20.5
3 2	11 37.75	− 5 47.4	1.738	2.701	6.3	20.2
3 12	11 30.48	− 4 25.1	1.712	2.700	2.8	20.0
3 22	11 23.11	− 2 53.6	1.714	2.699	4.0	20.1
4 1	11 16.57	− 1 21.5	1.744	2.698	7.8	20.3
4 11	11 11.66	+ 0 3.2	1.799	2.697	11.6	20.5
4 21	11 8.86	+ 1 14.6	1.877	2.697	14.9	20.8

368733 2005 UK_{171} 3 12.3 147°.95 4°.2/17.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.39	−13 7.1	2.279	3.071	12.8	21.8
2 21	11 45.74	−12 47.4	2.203	3.081	10.0	21.6
3 2	11 38.54	−12 7.9	2.151	3.089	7.1	21.4
3 12	11 30.51	−11 10.9	2.126	3.098	4.6	21.3
3 22	11 22.43	−10 0.8	2.130	3.106	4.5	21.3
4 1	11 15.13	− 8 43.9	2.164	3.113	6.9	21.5
4 11	11 9.28	− 7 27.1	2.224	3.119	9.8	21.6
4 21	11 5.34	− 6 16.4	2.309	3.125	12.5	21.8

198239 2004 TE_{204} 3 12.3 230°.37 0°.5/12.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.39	− 0 20.5	2.040	2.892	11.8	20.8
2 21	11 45.91	+ 0 7.4	1.961	2.887	8.4	20.5
3 2	11 38.71	+ 0 47.1	1.909	2.882	4.5	20.3
3 12	11 30.52	+ 1 34.2	1.884	2.877	0.6	20.0
3 22	11 22.20	+ 2 23.3	1.888	2.872	3.9	20.2
4 1	11 14.67	+ 3 8.7	1.921	2.867	7.9	20.5
4 11	11 8.71	+ 3 45.4	1.979	2.861	11.5	20.7
4 21	11 4.80	+ 4 10.3	2.059	2.856	14.5	20.9

84870 2003 BB_{24} 3 12.3 293°.51 0°.3/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 46.93	− 1 48.0	2.185	3.036	11.1	19.3
2 21	11 42.77	− 0 39.5	2.095	3.021	7.9	19.1
3 2	11 37.08	+ 0 44.2	2.032	3.006	4.2	18.8
3 12	11 30.47	+ 2 17.4	1.997	2.991	0.4	18.5
3 22	11 23.70	+ 3 53.3	1.993	2.976	3.8	18.7
4 1	11 17.55	+ 5 24.3	2.017	2.961	7.7	18.9
4 11	11 12.75	+ 6 44.0	2.067	2.946	11.2	19.1
4 21	11 9.77	+ 7 48.0	2.140	2.932	14.2	19.3

209561 2004 XF_{12} 3 12.3 41°.46 2°.3/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.10	+ 5 59.2	1.180	2.067	15.9	19.7
2 21	11 48.40	+ 6 40.5	1.137	2.081	11.0	19.5
3 2	11 40.13	+ 7 30.9	1.115	2.095	5.6	19.2
3 12	11 30.56	+ 8 21.1	1.119	2.110	2.4	19.0
3 22	11 21.18	+ 9 2.1	1.147	2.126	6.8	19.3
4 1	11 13.40	+ 9 27.1	1.200	2.142	11.9	19.7
4 11	11 8.21	+ 9 32.7	1.273	2.159	16.2	20.0
4 21	11 6.04	+ 9 18.8	1.364	2.176	19.8	20.3

37612 1993 FJ_{37} 3 12.3 233°.43 2°.1/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.46	+ 7 59.5	2.075	2.942	10.9	19.3
2 21	11 47.33	+ 8 32.1	2.000	2.935	7.6	19.1
3 2	11 39.44	+ 9 9.1	1.951	2.928	4.0	18.9
3 12	11 30.55	+ 9 45.1	1.932	2.921	2.2	18.7
3 22	11 21.56	+10 14.7	1.941	2.914	5.2	18.9
4 1	11 13.39	+10 33.6	1.979	2.906	8.9	19.1
4 11	11 6.85	+10 39.2	2.041	2.898	12.3	19.3
4 21	11 2.40	+10 30.6	2.125	2.890	15.1	19.5

177115 2003 GP_{16} 3 12.3 3°.54 3°.1/ 8.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 46.71	+ 8 25.3	2.001	2.881	10.7	19.8
2 21	11 42.64	+ 9 59.7	1.939	2.881	7.3	19.6
3 2	11 36.99	+11 40.3	1.904	2.881	4.1	19.4
3 12	11 30.48	+13 18.6	1.898	2.882	3.4	19.3
3 22	11 23.90	+14 46.7	1.920	2.882	6.3	19.5
4 1	11 18.11	+15 57.9	1.970	2.884	9.7	19.7
4 11	11 13.81	+16 48.5	2.043	2.885	12.8	19.9
4 21	11 11.43	+17 17.7	2.136	2.887	15.5	20.1

12545 1998 QT_{19} 3 12.3 255°.40 0°.4/11.9 18

2 11	11 49.60	+ 1 13.7	1.998	2.858	11.6	18.5
2 21	11 44.68	+ 2 4.9	1.922	2.853	8.1	18.3
3 2	11 38.08	+ 3 7.8	1.872	2.849	4.2	18.0
3 12	11 30.52	+ 4 16.8	1.851	2.844	0.4	17.7
3 22	11 22.84	+ 5 25.1	1.858	2.840	4.3	18.0
4 1	11 15.96	+ 6 26.3	1.894	2.835	8.3	18.2
4 11	11 10.62	+ 7 15.0	1.955	2.831	11.9	18.4
4 21	11 7.30	+ 7 48.5	2.036	2.826	14.9	18.6

437109 2012 UB_{116} 3 12.3 141°.87 1°.8/10.4 17

2 11	11 51.79	+ 7 46.7	2.370	3.234	9.8	21.6
2 21	11 45.92	+ 8 17.7	2.304	3.239	6.8	21.4
3 2	11 38.61	+ 8 52.3	2.266	3.243	3.5	21.2
3 12	11 30.53	+ 9 25.7	2.258	3.247	1.9	21.1
3 22	11 22.45	+ 9 53.7	2.279	3.251	4.6	21.2
4 1	11 15.14	+10 12.6	2.329	3.255	7.8	21.5
4 11	11 9.23	+10 20.0	2.404	3.259	10.7	21.6
4 21	11 5.13	+10 15.2	2.501	3.262	13.2	21.8

471107 2010 BX_{93} 3 12.3 186°.67 8°.9/25.9 18

2 11	11 53.89	+38 45.5	2.868	3.687	9.7	21.7
2 21	11 47.44	+40 12.0	2.839	3.687	9.0	21.6
3 2	11 39.42	+41 22.0	2.836	3.686	9.0	21.6
3 12	11 30.57	+42 9.8	2.857	3.684	9.7	21.6
3 22	11 21.73	+42 32.3	2.903	3.683	10.9	21.7
4 1	11 13.77	+42 29.0	2.970	3.681	12.2	21.8
4 11	11 7.37	+42 1.9	3.055	3.678	13.4	21.9
4 21	11 2.94	+41 14.7	3.155	3.675	14.5	22.0

128405 2004 LE_{15} 3 12.3 220°.40 6°.3/ 5.0 17

2 11	11 53.68	+20 55.7	2.178	3.049	10.3	20.1
2 21	11 47.49	+22 14.1	2.116	3.041	7.9	19.9
3 2	11 39.53	+23 27.0	2.082	3.033	6.4	19.8
3 12	11 30.57	+24 26.5	2.075	3.023	6.8	19.8
3 22	11 21.53	+25 6.6	2.097	3.014	8.9	19.9
4 1	11 13.36	+25 24.0	2.144	3.004	11.5	20.1
4 11	11 6.84	+25 18.5	2.213	2.993	14.0	20.2
4 21	11 2.46	+24 52.1	2.301	2.982	16.2	20.4

227470 2005 WU_{147} 3 12.3 163°.32 0°.1/12.5 17

2 11	11 52.32	+ 0 37.3	2.124	2.975	11.4	22.1
2 21	11 46.45	+ 1 11.0	2.053	2.979	8.0	21.9
3 2	11 38.95	+ 1 55.1	2.008	2.983	4.2	21.7
3 12	11 30.56	+ 2 45.1	1.993	2.986	0.2	21.3
3 22	11 22.12	+ 3 35.3	2.006	2.989	3.9	21.6
4 1	11 14.50	+ 4 20.5	2.049	2.992	7.7	21.9
4 11	11 8.43	+ 4 56.2	2.118	2.994	11.1	22.1
4 21	11 4.35	+ 5 19.7	2.208	2.995	14.0	22.3

39646 1995 SK_{4} 3 12.3 107°.32 2°.5/ 8.8 18

2 11	11 51.38	+ 5 50.4	2.272	3.135	10.3	19.2
2 21	11 45.62	+ 7 58.6	2.224	3.160	6.9	19.1
3 2	11 38.43	+10 13.1	2.207	3.184	3.7	18.9
3 12	11 30.54	+12 24.9	2.222	3.207	2.8	18.9
3 22	11 22.71	+14 25.3	2.269	3.230	5.6	19.1
4 1	11 15.72	+16 7.7	2.346	3.252	8.8	19.3
4 11	11 10.18	+17 28.4	2.450	3.273	11.6	19.5
4 21	11 6.48	+18 26.8	2.574	3.294	13.8	19.7

170730 2004 BO_{79} 3 12.3 15°.47 3°.8/16.5 18

2 11	11 48.69	−10 49.7	2.071	2.884	13.1	19.7
2 21	11 44.03	−10 32.9	1.992	2.885	10.2	19.6
3 2	11 37.74	− 9 56.4	1.937	2.886	6.9	19.4
3 12	11 30.52	− 9 2.7	1.909	2.887	4.2	19.2
3 22	11 23.21	− 7 56.6	1.909	2.889	4.4	19.2
4 1	11 16.67	− 6 44.6	1.936	2.890	7.2	19.4
4 11	11 11.63	− 5 33.9	1.990	2.892	10.5	19.6
4 21	11 8.54	− 4 30.4	2.067	2.893	13.4	19.8

501152 2013 TX_{71} 3 12.3 207°.85 0°.2/12.5 17

2 11	11 51.55	+ 0 4.1	2.074	2.926	11.6	22.5
2 21	11 46.01	+ 0 43.6	1.995	2.922	8.2	22.3
3 2	11 38.77	+ 1 35.0	1.943	2.918	4.4	22.1
3 12	11 30.56	+ 2 33.3	1.919	2.913	0.3	21.7
3 22	11 22.23	+ 3 32.7	1.925	2.908	4.0	22.0
4 1	11 14.68	+ 4 27.0	1.959	2.903	7.9	22.2
4 11	11 8.67	+ 5 11.3	2.019	2.897	11.5	22.4
4 21	11 4.69	+ 5 42.4	2.101	2.891	14.5	22.6

522097 2015 YO_{26} 3 12.3 314°.50 3°.8/ 9.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 51.25	+ 8 28.1	1.392	2.279	13.9	20.8
2 21	11 46.42	+ 9 47.7	1.327	2.272	9.7	20.5
3 2	11 39.20	+11 16.0	1.286	2.265	5.4	20.3
3 12	11 30.57	+12 42.2	1.272	2.258	4.1	20.2
3 22	11 21.79	+13 55.8	1.283	2.251	7.9	20.4
4 1	11 14.17	+14 48.2	1.319	2.245	12.5	20.6
4 11	11 8.77	+15 15.3	1.376	2.239	16.7	20.8
4 21	11 6.16	+15 17.1	1.450	2.233	20.2	21.1

186870 2004 HM_{33} 3 12.3 276°.94 2°.8/ 9.6 17

2 11	11 51.90	+ 7 40.5	1.807	2.681	11.9	20.5
2 21	11 46.61	+ 8 45.8	1.719	2.659	8.3	20.3
3 2	11 39.25	+ 9 59.6	1.658	2.636	4.5	20.0
3 12	11 30.58	+11 14.2	1.625	2.612	3.0	19.8
3 22	11 21.60	+12 21.4	1.619	2.589	6.5	20.0
4 1	11 13.41	+13 14.0	1.641	2.565	10.6	20.2
4 11	11 6.97	+13 47.4	1.686	2.541	14.5	20.4
4 21	11 2.90	+14 0.0	1.750	2.517	17.8	20.5

36406 2000 OQ_{48} 3 12.3 186°.37 2°.5/ 9.8 18

2 11	11 54.41	+ 7 29.8	1.899	2.767	11.7	19.5
2 21	11 48.10	+ 8 33.5	1.831	2.767	8.1	19.3
3 2	11 39.89	+ 9 43.6	1.790	2.767	4.3	19.1
3 12	11 30.60	+10 52.6	1.777	2.765	2.7	18.9
3 22	11 21.24	+11 53.4	1.794	2.763	5.9	19.1
4 1	11 12.83	+12 39.8	1.838	2.760	9.8	19.4
4 11	11 6.20	+13 8.5	1.907	2.757	13.3	19.6
4 21	11 1.86	+13 18.7	1.996	2.753	16.2	19.8

498258 2007 UM_{116} 3 12.3 95°.10 0°.8/11.3 17

2 11	11 50.59	+ 3 44.6	2.360	3.219	10.1	22.1
2 21	11 45.02	+ 4 27.8	2.307	3.238	7.0	21.9
3 2	11 38.12	+ 5 17.5	2.281	3.258	3.5	21.7
3 12	11 30.55	+ 6 9.0	2.284	3.277	0.9	21.5
3 22	11 23.05	+ 6 57.1	2.318	3.296	3.9	21.8
4 1	11 16.35	+ 7 37.6	2.380	3.315	7.2	22.0
4 11	11 11.03	+ 8 7.1	2.468	3.333	10.1	22.2
4 21	11 7.45	+ 8 24.3	2.579	3.351	12.6	22.4

46209 2001 FK_{160} 3 12.3 93°.82 3°.8/16.9 18

2 11	11 48.46	−12 32.7	2.028	2.835	13.6	18.4
2 21	11 43.86	−11 49.0	1.952	2.840	10.6	18.2
3 2	11 37.64	−10 42.4	1.899	2.846	7.2	18.0
3 12	11 30.53	− 9 16.4	1.873	2.851	4.4	17.8
3 22	11 23.37	− 7 37.4	1.876	2.857	4.4	17.8
4 1	11 17.01	− 5 53.5	1.908	2.862	7.3	18.0
4 11	11 12.19	− 4 13.5	1.966	2.868	10.6	18.2
4 21	11 9.35	− 2 44.1	2.048	2.873	13.6	18.4

350552 2000 SN_{310} 3 12.3 183°.75 4°.5/18.8 18

2 11	11 50.14	−17 1.9	3.204	3.956	10.3	22.0
2 21	11 44.62	−17 9.9	3.112	3.956	8.4	21.8
3 2	11 37.92	−17 2.5	3.046	3.956	6.5	21.7
3 12	11 30.54	−16 40.3	3.007	3.955	4.9	21.6
3 22	11 23.07	−16 5.2	2.997	3.954	4.6	21.6
4 1	11 16.09	−15 20.4	3.017	3.952	5.8	21.6
4 11	11 10.15	−14 30.5	3.065	3.950	7.7	21.8
4 21	11 5.61	−13 39.9	3.137	3.947	9.7	21.9

439777 2015 GW_{24} 3 12.3 176°.96 4°.0/ 6.9 17

2 11	11 49.58	+15 35.0	2.595	3.469	8.8	21.0
2 21	11 44.35	+16 39.1	2.536	3.470	6.3	20.8
3 2	11 37.80	+17 41.8	2.505	3.471	4.3	20.7
3 12	11 30.54	+18 37.2	2.503	3.471	4.3	20.7
3 22	11 23.26	+19 20.6	2.530	3.471	6.3	20.8
4 1	11 16.65	+19 48.7	2.585	3.471	8.8	21.0
4 11	11 11.32	+20 0.1	2.663	3.471	11.2	21.1
4 21	11 7.65	+19 55.4	2.762	3.471	13.2	21.3

431522 2007 TL_{228} 3 12.3 199°.70 0°.2/12.5 17

2 11	11 50.29	+ 0 41.0	2.353	3.203	10.4	21.9
2 21	11 44.96	+ 1 11.3	2.276	3.202	7.4	21.6
3 2	11 38.16	+ 1 51.1	2.225	3.200	3.9	21.4
3 12	11 30.55	+ 2 36.3	2.204	3.198	0.3	21.1
3 22	11 22.86	+ 3 22.2	2.212	3.195	3.5	21.4
4 1	11 15.86	+ 4 4.0	2.250	3.193	7.1	21.6
4 11	11 10.21	+ 4 37.5	2.314	3.190	10.3	21.8
4 21	11 6.33	+ 5 0.3	2.400	3.187	13.0	22.0

31922 Alsharif 3 12.3 244°.61 3°.0/ 9.9 18

2 11	11 55.35	+ 8 7.7	1.583	2.458	13.3	18.8
2 21	11 49.17	+ 9 2.5	1.507	2.446	9.3	18.6
3 2	11 40.62	+10 4.6	1.457	2.435	5.0	18.3
3 12	11 30.63	+11 5.6	1.434	2.422	3.2	18.1
3 22	11 20.42	+11 57.3	1.438	2.409	6.9	18.3
4 1	11 11.25	+12 32.8	1.469	2.396	11.4	18.5
4 11	11 4.21	+12 48.1	1.523	2.383	15.5	18.7
4 21	10 59.90	+12 43.0	1.595	2.369	19.0	19.0

192060 2006 BW_{58} 3 12.3 124°.03 1°.1/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 50.85	+ 3 39.5	2.060	2.923	11.2	20.8
2 21	11 45.43	+ 4 32.6	1.998	2.932	7.7	20.6
3 2	11 38.42	+ 5 34.3	1.962	2.940	3.9	20.4
3 12	11 30.56	+ 6 38.4	1.955	2.947	1.1	20.2
3 22	11 22.70	+ 7 38.8	1.977	2.955	4.5	20.4
4 1	11 15.70	+ 8 29.6	2.027	2.962	8.3	20.7
4 11	11 10.24	+ 9 7.1	2.103	2.969	11.6	20.9
4 21	11 6.77	+ 9 29.3	2.199	2.976	14.3	21.1

101261 1998 SS_{102} 3 12.3 207°.35 0°.9/11.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.61	+ 3 43.8	2.058	2.917	11.4	21.2
2 21	11 47.48	+ 4 25.5	1.980	2.911	7.9	21.0
3 2	11 39.56	+ 5 16.0	1.929	2.905	4.1	20.7
3 12	11 30.61	+ 6 9.8	1.906	2.899	1.0	20.5
3 22	11 21.52	+ 7 1.0	1.913	2.892	4.6	20.7
4 1	11 13.26	+ 7 43.9	1.949	2.884	8.5	20.9
4 11	11 6.61	+ 8 14.4	2.010	2.876	12.1	21.1
4 21	11 2.07	+ 8 30.5	2.093	2.867	15.0	21.3

387410 2013 TE_{12} 3 12.3 148°.77 1°.0/11.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.13	+ 4 27.7	2.248	3.107	10.5	21.7
2 21	11 46.23	+ 5 8.4	2.183	3.115	7.3	21.5
3 2	11 38.81	+ 5 55.9	2.145	3.122	3.7	21.3
3 12	11 30.58	+ 6 45.1	2.136	3.128	1.1	21.1
3 22	11 22.35	+ 7 30.7	2.157	3.135	4.3	21.3
4 1	11 14.92	+ 8 8.2	2.207	3.140	7.8	21.6
4 11	11 8.97	+ 8 34.2	2.283	3.146	10.9	21.8
4 21	11 4.91	+ 8 47.1	2.380	3.151	13.5	22.0

48145 2001 FJ_{157} 3 12.3 222°.92 3°.9/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.84	+11 37.8	1.910	2.785	11.4	19.7
2 21	11 47.77	+12 45.0	1.839	2.777	8.0	19.5
3 2	11 39.76	+13 55.1	1.794	2.768	4.8	19.3
3 12	11 30.61	+15 0.3	1.778	2.758	4.2	19.2
3 22	11 21.34	+15 53.1	1.790	2.749	7.1	19.4
4 1	11 12.96	+16 28.4	1.830	2.738	10.7	19.6
4 11	11 6.36	+16 43.4	1.892	2.727	14.0	19.8
4 21	11 2.06	+16 38.6	1.974	2.716	16.8	19.9

211595 2003 SQ_{269} 3 12.3 123°.83 2°.0/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.90	+ 6 15.2	1.790	2.658	12.4	21.1
2 21	11 48.38	+ 7 9.0	1.736	2.672	8.5	20.9
3 2	11 39.98	+ 8 9.3	1.709	2.686	4.4	20.7
3 12	11 30.62	+ 9 9.1	1.709	2.700	2.1	20.6
3 22	11 21.34	+10 1.3	1.739	2.713	5.6	20.8
4 1	11 13.17	+10 40.4	1.796	2.725	9.5	21.1
4 11	11 6.91	+11 3.1	1.877	2.737	13.0	21.3
4 21	11 2.98	+11 8.8	1.979	2.748	15.9	21.5

38072 1999 GO_{11} 3 12.3 160°.27 0°.3/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.79	− 0 53.7	1.843	2.694	12.9	19.9
2 21	11 47.67	− 0 3.2	1.775	2.700	9.1	19.7
3 2	11 39.66	+ 1 1.4	1.732	2.706	4.9	19.5
3 12	11 30.62	+ 2 14.2	1.718	2.712	0.4	19.1
3 22	11 21.53	+ 3 27.8	1.733	2.716	4.3	19.4
4 1	11 13.41	+ 4 35.0	1.777	2.720	8.6	19.7
4 11	11 7.10	+ 5 29.7	1.845	2.723	12.4	19.9
4 21	11 3.07	+ 6 8.8	1.935	2.726	15.5	20.2

65899 1998 DG_{12} 3 12.3 193°.43 1°.5/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.80	+ 4 4.4	2.015	2.877	11.5	20.3
2 21	11 46.92	+ 5 11.8	1.942	2.875	7.9	20.1
3 2	11 39.27	+ 6 28.9	1.895	2.872	4.0	19.8
3 12	11 30.61	+ 7 48.9	1.878	2.869	1.6	19.7
3 22	11 21.83	+ 9 4.4	1.890	2.865	5.0	19.9
4 1	11 13.90	+10 8.7	1.931	2.860	8.9	20.1
4 11	11 7.60	+10 57.2	1.997	2.855	12.4	20.3
4 21	11 3.41	+11 28.1	2.084	2.848	15.4	20.5

470035 2006 SA_{33} 3 12.3 152°.31 0°.8/13.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.23	− 3 1.4	3.006	3.839	9.0	22.6
2 21	11 43.25	− 2 17.0	2.933	3.847	6.4	22.5
3 2	11 37.18	− 1 22.7	2.887	3.856	3.6	22.3
3 12	11 30.54	− 0 21.9	2.871	3.863	1.0	22.1
3 22	11 23.88	+ 0 41.2	2.887	3.871	2.7	22.2
4 1	11 17.77	+ 1 42.1	2.933	3.878	5.5	22.4
4 11	11 12.70	+ 2 37.0	3.007	3.884	8.1	22.6
4 21	11 9.00	+ 3 23.0	3.105	3.890	10.4	22.8

217102 2001 XM_{47} 3 12.3 125°.42 3°.0/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.56	+11 28.7	2.390	3.255	9.8	20.7
2 21	11 47.75	+12 20.4	2.342	3.276	6.8	20.5
3 2	11 39.53	+13 12.5	2.322	3.295	3.9	20.4
3 12	11 30.62	+13 59.3	2.333	3.315	3.2	20.4
3 22	11 21.83	+14 36.3	2.374	3.333	5.5	20.5
4 1	11 13.92	+15 0.0	2.443	3.350	8.4	20.7
4 11	11 7.53	+15 9.0	2.538	3.367	11.0	20.9
4 21	11 3.01	+15 3.6	2.654	3.383	13.3	21.1

515688 2014 PC_{34} 3 12.3 193°.04 0°.8/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 56.27	+ 3 40.4	1.817	2.677	12.6	21.3
2 21	11 49.48	+ 4 8.5	1.744	2.675	8.8	21.0
3 2	11 40.66	+ 4 45.6	1.697	2.673	4.5	20.8
3 12	11 30.66	+ 5 26.3	1.678	2.671	0.8	20.5
3 22	11 20.55	+ 6 4.4	1.688	2.668	4.9	20.8
4 1	11 11.44	+ 6 34.4	1.726	2.664	9.2	21.0
4 11	11 4.23	+ 6 52.4	1.789	2.660	13.0	21.3
4 21	10 59.44	+ 6 56.3	1.872	2.655	16.3	21.5

41576 2000 SF_{2} 3 12.3 187°.78 4°.6/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.45	+20 14.2	3.102	3.969	7.7	19.9
2 21	11 44.15	+21 28.5	3.045	3.968	5.8	19.8
3 2	11 37.69	+22 38.8	3.016	3.967	4.7	19.7
3 12	11 30.58	+23 39.9	3.018	3.965	5.0	19.7
3 22	11 23.44	+24 27.7	3.049	3.963	6.6	19.8
4 1	11 16.87	+24 59.4	3.108	3.960	8.5	19.9
4 11	11 11.39	+25 14.3	3.190	3.956	10.4	20.1
4 21	11 7.36	+25 13.1	3.293	3.952	12.1	20.2

361682 2007 UY_{50} 3 12.3 107°.74 6°.7/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.03	+17 55.9	1.606	2.488	12.7	20.5
2 21	11 48.69	+19 23.3	1.564	2.499	9.4	20.3
3 2	11 40.22	+20 45.3	1.548	2.510	7.0	20.2
3 12	11 30.67	+21 51.7	1.558	2.520	7.2	20.2
3 22	11 21.24	+22 35.0	1.595	2.530	9.8	20.4
4 1	11 13.11	+22 51.5	1.656	2.540	13.0	20.6
4 11	11 7.16	+22 41.9	1.738	2.550	16.0	20.8
4 21	11 3.80	+22 9.4	1.838	2.559	18.6	21.0

467646 2008 SY_{186} 3 12.3 203°.46 1°.3/13.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.24	− 3 0.9	2.226	3.065	11.4	21.9
2 21	11 45.73	− 2 37.2	2.145	3.062	8.3	21.7
3 2	11 38.63	− 2 0.7	2.091	3.059	4.8	21.4
3 12	11 30.63	− 1 15.0	2.064	3.056	1.5	21.2
3 22	11 22.52	− 0 24.8	2.068	3.052	3.5	21.3
4 1	11 15.13	+ 0 24.5	2.100	3.048	7.1	21.6
4 11	11 9.17	+ 1 7.7	2.158	3.044	10.5	21.8
4 21	11 5.11	+ 1 41.2	2.239	3.039	13.4	21.9

249827 2001 KR_{54} 3 12.3 339°.32 1°.9/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.85	+ 4 35.3	1.255	2.142	15.1	19.6
2 21	11 45.65	+ 5 27.4	1.188	2.132	10.6	19.3
3 2	11 38.91	+ 6 33.0	1.143	2.123	5.4	19.0
3 12	11 30.64	+ 7 43.0	1.123	2.115	2.1	18.7
3 22	11 22.17	+ 8 47.1	1.127	2.107	6.7	19.0
4 1	11 14.90	+ 9 36.2	1.156	2.101	12.0	19.3
4 11	11 9.99	+10 4.1	1.205	2.095	16.7	19.5
4 21	11 8.01	+10 9.0	1.272	2.090	20.6	19.7

329825 2004 RH_{210} 3 12.3 175°.90 5°.0/17.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.09	−14 45.4	2.207	2.992	13.4	20.9
2 21	11 45.68	−14 38.3	2.124	2.994	10.7	20.7
3 2	11 38.63	−14 10.0	2.064	2.995	7.8	20.5
3 12	11 30.64	−13 21.9	2.031	2.996	5.5	20.4
3 22	11 22.53	−12 18.0	2.026	2.997	5.2	20.3
4 1	11 15.16	−11 4.1	2.049	2.997	7.3	20.5
4 11	11 9.29	− 9 47.7	2.099	2.997	10.2	20.6
4 21	11 5.38	− 8 35.3	2.173	2.996	13.0	20.8

238530 2004 TM_{275} 3 12.3 221°.03 1°.6/13.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.89	− 3 49.1	1.793	2.635	13.6	21.4
2 21	11 47.96	− 3 16.8	1.709	2.627	9.9	21.1
3 2	11 39.96	− 2 27.1	1.649	2.618	5.8	20.8
3 12	11 30.69	− 1 24.3	1.617	2.608	1.8	20.5
3 22	11 21.19	− 0 15.0	1.613	2.598	4.2	20.7
4 1	11 12.56	+ 0 53.2	1.638	2.587	8.7	20.9
4 11	11 5.76	+ 1 52.9	1.688	2.576	12.8	21.1
4 21	11 1.37	+ 2 39.2	1.759	2.564	16.3	21.3

110540 2001 TO_{95} 3 12.3 144°.63 0°.7/13.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.18	− 0 53.8	2.014	2.862	12.1	20.9
2 21	11 47.13	− 0 26.9	1.946	2.869	8.6	20.7
3 2	11 39.37	+ 0 11.9	1.904	2.876	4.7	20.5
3 12	11 30.67	+ 0 58.3	1.890	2.883	0.8	20.2
3 22	11 21.94	+ 1 46.6	1.905	2.889	3.8	20.5
4 1	11 14.11	+ 2 31.4	1.949	2.895	7.8	20.7
4 11	11 7.92	+ 3 7.6	2.018	2.900	11.3	20.9
4 21	11 3.83	+ 3 32.3	2.110	2.905	14.3	21.1

283566 2001 VS_{107} 3 12.3 136°.07 2°.7/14.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.87	− 7 10.7	1.797	2.625	14.2	21.8
2 21	11 48.44	− 6 39.9	1.732	2.639	10.6	21.6
3 2	11 40.08	− 5 49.5	1.691	2.652	6.5	21.4
3 12	11 30.69	− 4 44.1	1.678	2.665	3.0	21.2
3 22	11 21.31	− 3 30.1	1.693	2.677	4.2	21.3
4 1	11 12.99	− 2 15.6	1.737	2.688	8.1	21.5
4 11	11 6.56	− 1 8.0	1.807	2.699	11.9	21.8
4 21	11 2.48	− 0 12.5	1.899	2.708	15.1	22.0

255703 Stetson 3 12.3 232°.27 1°.1/11.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 54.86	+ 4 20.8	1.774	2.638	12.6	21.4
2 21	11 48.62	+ 4 53.0	1.697	2.630	8.8	21.1
3 2	11 40.28	+ 5 34.3	1.645	2.622	4.5	20.9
3 12	11 30.70	+ 6 18.7	1.621	2.613	1.1	20.6
3 22	11 20.95	+ 6 59.9	1.625	2.604	5.1	20.9
4 1	11 12.14	+ 7 32.0	1.657	2.595	9.5	21.1
4 11	11 5.22	+ 7 50.8	1.713	2.585	13.5	21.3
4 21	11 0.74	+ 7 54.3	1.790	2.575	16.8	21.5

79725 1998 SN_{125} 3 12.3 38°.56 4°.3/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.15	+11 43.0	1.496	2.379	13.4	18.3
2 21	11 48.23	+12 37.0	1.442	2.383	9.4	18.1
3 2	11 40.06	+13 32.9	1.412	2.387	5.5	17.9
3 12	11 30.69	+14 21.5	1.409	2.392	4.6	17.8
3 22	11 21.36	+14 55.5	1.432	2.396	7.8	18.0
4 1	11 13.30	+15 9.8	1.481	2.401	11.8	18.3
4 11	11 7.44	+15 2.8	1.551	2.406	15.5	18.5
4 21	11 4.26	+14 36.0	1.640	2.412	18.6	18.7

464649 2000 VR_{1} 3 12.3 185°.04 5°.0/ 6.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.00	+18 47.2	2.406	3.273	9.6	21.8
2 21	11 48.23	+19 42.1	2.346	3.273	7.1	21.7
3 2	11 39.88	+20 32.6	2.314	3.272	5.3	21.5
3 12	11 30.69	+21 12.3	2.311	3.271	5.4	21.5
3 22	11 21.50	+21 36.8	2.338	3.270	7.3	21.6
4 1	11 13.16	+21 43.3	2.392	3.267	9.9	21.8
4 11	11 6.36	+21 31.6	2.469	3.264	12.3	22.0
4 21	11 1.52	+21 3.2	2.567	3.261	14.4	22.1

453340 2008 YQ_{79} 3 12.3 98°.12 0°.3/12.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.28	+ 0 46.9	1.590	2.450	14.1	21.8
2 21	11 48.75	+ 1 42.8	1.543	2.473	9.8	21.5
3 2	11 40.22	+ 2 51.7	1.520	2.496	5.0	21.3
3 12	11 30.70	+ 4 5.8	1.526	2.519	0.3	21.0
3 22	11 21.37	+ 5 16.9	1.559	2.541	4.9	21.4
4 1	11 13.30	+ 6 17.4	1.620	2.563	9.4	21.7
4 11	11 7.34	+ 7 2.2	1.706	2.583	13.2	22.0
4 21	11 3.88	+ 7 29.4	1.812	2.604	16.4	22.2

152889 2000 CF_{59} 3 12.3 132°.13 10°.3/ 1.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 11.14	+24 58.6	1.669	2.520	14.0	20.4
2 21	12 0.09	+28 36.1	1.652	2.554	11.3	20.3
3 2	11 46.23	+31 54.7	1.667	2.586	10.3	20.3
3 12	11 30.92	+34 36.9	1.713	2.614	11.4	20.5
3 22	11 15.80	+36 33.2	1.789	2.640	13.7	20.7
4 1	11 2.47	+37 42.2	1.890	2.663	16.2	20.9
4 11	10 52.07	+38 9.9	2.010	2.683	18.4	21.1
4 21	10 45.08	+38 5.1	2.144	2.701	20.0	21.3

385607 2005 EO_{297} 3 12.3 17°.27 0°.2/ 7.7 13 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 32.47	+14 34.9	42.410	43.281	0.6	23.6
2 21	11 31.84	+14 41.1	42.351	43.286	0.4	23.6
3 2	11 31.15	+14 47.1	42.321	43.290	0.3	23.6
3 12	11 30.43	+14 52.7	42.321	43.295	0.3	23.6
3 22	11 29.70	+14 57.9	42.351	43.300	0.4	23.6
4 1	11 29.01	+15 2.4	42.409	43.304	0.6	23.6
4 11	11 28.37	+15 6.2	42.494	43.309	0.8	23.7
4 21	11 27.81	+15 9.0	42.603	43.314	0.9	23.7

27013 1998 FU_{60} 3 12.3 356°.52 0°.4/12.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 47.86	− 0 51.5	1.354	2.228	15.2	17.9
2 21	11 44.07	− 0 9.3	1.287	2.223	10.8	17.7
3 2	11 38.02	+ 0 51.4	1.243	2.220	5.8	17.4
3 12	11 30.65	+ 2 3.7	1.224	2.218	0.6	17.0
3 22	11 23.16	+ 3 18.2	1.231	2.217	5.1	17.3
4 1	11 16.78	+ 4 25.5	1.263	2.217	10.2	17.6
4 11	11 12.52	+ 5 17.5	1.317	2.218	14.7	17.9
4 21	11 10.90	+ 5 50.3	1.389	2.220	18.5	18.1

256326 2006 XK_{18} 3 12.3 135°.75 0°.9/11.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.98	+ 3 43.7	2.378	3.230	10.3	21.3
2 21	11 47.41	+ 4 29.0	2.320	3.248	7.1	21.1
3 2	11 39.42	+ 5 21.0	2.289	3.265	3.6	20.9
3 12	11 30.70	+ 6 14.8	2.289	3.282	0.9	20.7
3 22	11 22.05	+ 7 5.2	2.319	3.297	4.0	21.0
4 1	11 14.23	+ 7 47.6	2.380	3.312	7.4	21.2
4 11	11 7.86	+ 8 18.9	2.466	3.325	10.3	21.4
4 21	11 3.34	+ 8 37.5	2.576	3.338	12.8	21.6

378749 2008 RR_{92} 3 12.3 249°.65 0°.7/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.05	+ 3 16.9	1.988	2.850	11.6	21.2
2 21	11 46.46	+ 3 48.0	1.912	2.844	8.1	20.9
3 2	11 39.09	+ 4 28.1	1.861	2.838	4.2	20.7
3 12	11 30.70	+ 5 12.0	1.839	2.832	0.7	20.4
3 22	11 22.18	+ 5 54.2	1.846	2.826	4.4	20.7
4 1	11 14.49	+ 6 29.2	1.880	2.820	8.4	20.9
4 11	11 8.42	+ 6 53.0	1.940	2.814	12.0	21.1
4 21	11 4.46	+ 7 3.3	2.021	2.808	15.1	21.3

112756 2002 PB_{136} 3 12.3 127°.65 0°.5/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 51.22	+ 2 52.3	2.232	3.089	10.7	20.4
2 21	11 45.64	+ 3 27.1	2.166	3.097	7.4	20.2
3 2	11 38.56	+ 4 9.9	2.127	3.104	3.8	20.0
3 12	11 30.68	+ 4 55.9	2.117	3.111	0.5	19.7
3 22	11 22.79	+ 5 40.1	2.137	3.117	3.9	20.0
4 1	11 15.68	+ 6 17.8	2.185	3.124	7.5	20.2
4 11	11 10.03	+ 6 45.2	2.259	3.130	10.7	20.4
4 21	11 6.24	+ 7 0.5	2.355	3.136	13.4	20.6

113151 2002 RX_{95} 3 12.3 79°.10 0°.6/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.45	− 0 11.3	2.077	2.928	11.6	19.8
2 21	11 45.86	+ 0 11.0	2.014	2.939	8.2	19.6
3 2	11 38.69	+ 0 43.9	1.977	2.950	4.4	19.4
3 12	11 30.69	+ 1 23.1	1.968	2.962	0.7	19.1
3 22	11 22.70	+ 2 3.8	1.989	2.973	3.7	19.4
4 1	11 15.57	+ 2 40.7	2.038	2.984	7.5	19.7
4 11	11 10.00	+ 3 9.7	2.112	2.995	10.8	19.9
4 21	11 6.40	+ 3 28.0	2.208	3.006	13.6	20.1

403817 2011 UR_{144} 3 12.3 240°.79 3°.8/15.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.23	− 8 23.7	1.671	2.499	15.1	20.9
2 21	11 48.39	− 8 19.0	1.584	2.488	11.6	20.7
3 2	11 40.29	− 7 53.0	1.520	2.478	7.6	20.4
3 12	11 30.75	− 7 7.7	1.483	2.466	4.2	20.2
3 22	11 20.90	− 6 8.3	1.472	2.455	5.0	20.2
4 1	11 11.96	− 5 2.5	1.489	2.442	9.0	20.4
4 11	11 4.98	− 3 58.7	1.530	2.430	13.2	20.6
4 21	11 0.61	− 3 4.0	1.593	2.417	16.9	20.8

146377 2001 QF_{16} 3 12.3 141°.64 1°.9/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.83	+ 7 0.2	2.205	3.067	10.6	20.5
2 21	11 47.43	+ 7 49.3	2.146	3.080	7.3	20.3
3 2	11 39.48	+ 8 43.1	2.115	3.092	3.8	20.1
3 12	11 30.72	+ 9 35.9	2.113	3.103	2.0	20.0
3 22	11 22.01	+10 22.2	2.142	3.114	4.9	20.2
4 1	11 14.17	+10 57.5	2.199	3.124	8.3	20.5
4 11	11 7.90	+11 19.1	2.282	3.133	11.4	20.7
4 21	11 3.58	+11 26.2	2.386	3.142	13.9	20.9

60084 1999 TT_{151} 3 12.3 171°.35 1°.1/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.95	+ 3 53.7	2.020	2.884	11.3	19.4
2 21	11 45.62	+ 4 41.3	1.951	2.885	7.8	19.2
3 2	11 38.62	+ 5 37.7	1.908	2.885	4.0	19.0
3 12	11 30.70	+ 6 36.9	1.893	2.886	1.1	18.8
3 22	11 22.71	+ 7 32.6	1.908	2.887	4.6	19.0
4 1	11 15.55	+ 8 19.3	1.951	2.887	8.4	19.2
4 11	11 9.97	+ 8 52.7	2.018	2.887	11.9	19.4
4 21	11 6.42	+ 9 11.0	2.107	2.887	14.8	19.6

496066 2009 PK_{16} 3 12.3 139°.31 0°.5/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.96	− 0 8.1	2.471	3.311	10.4	21.9
2 21	11 47.39	+ 0 16.0	2.406	3.326	7.3	21.8
3 2	11 39.43	+ 0 49.2	2.368	3.340	3.9	21.6
3 12	11 30.73	+ 1 27.6	2.361	3.354	0.6	21.3
3 22	11 22.07	+ 2 7.0	2.384	3.367	3.3	21.5
4 1	11 14.18	+ 2 43.2	2.438	3.379	6.7	21.8
4 11	11 7.69	+ 3 12.3	2.518	3.391	9.7	22.0
4 21	11 2.99	+ 3 32.3	2.622	3.402	12.2	22.2

460902 2014 WP_{188} 3 12.4 5°.66 5°.9/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.08	+13 47.7	1.401	2.295	13.4	20.1
2 21	11 45.55	+15 21.2	1.350	2.295	9.6	19.9
3 2	11 38.75	+16 55.6	1.323	2.295	6.4	19.7
3 12	11 30.71	+18 19.1	1.322	2.296	6.4	19.7
3 22	11 22.64	+19 22.0	1.346	2.298	9.6	19.9
4 1	11 15.80	+19 57.9	1.394	2.301	13.5	20.1
4 11	11 11.15	+20 5.3	1.462	2.304	17.0	20.3
4 21	11 9.16	+19 46.3	1.547	2.308	20.0	20.6

101962 1999 RV_{39} 3 12.4 162°.50 0°.2/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.10	+ 2 17.7	1.939	2.792	12.2	19.9
2 21	11 49.25	+ 2 40.6	1.870	2.798	8.6	19.7
3 2	11 40.53	+ 3 12.8	1.827	2.803	4.5	19.4
3 12	11 30.77	+ 3 49.5	1.813	2.807	0.2	19.1
3 22	11 20.99	+ 4 25.3	1.829	2.811	4.3	19.4
4 1	11 12.17	+ 4 55.1	1.873	2.814	8.4	19.7
4 11	11 5.15	+ 5 14.8	1.943	2.816	12.1	19.9
4 21	11 0.39	+ 5 22.5	2.034	2.818	15.1	20.1

93113 2000 SZ_{56} 3 12.4 97°.91 0°.5/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.28	− 0 17.1	1.841	2.696	12.7	19.8
2 21	11 46.64	+ 0 11.8	1.775	2.702	9.0	19.6
3 2	11 39.18	+ 0 53.2	1.735	2.709	4.8	19.4
3 12	11 30.73	+ 1 42.0	1.722	2.716	0.6	19.1
3 22	11 22.25	+ 2 32.2	1.738	2.722	4.1	19.3
4 1	11 14.74	+ 3 17.7	1.782	2.729	8.3	19.6
4 11	11 8.97	+ 3 53.2	1.851	2.735	12.0	19.8
4 21	11 5.41	+ 4 15.9	1.940	2.742	15.1	20.1

248151 2004 TP_{197} 3 12.4 265°.20 1°.2/13.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 53.01	− 2 37.7	1.544	2.399	14.7	21.0
2 21	11 47.68	− 2 1.8	1.458	2.384	10.7	20.7
3 2	11 39.98	− 1 6.6	1.395	2.368	6.0	20.4
3 12	11 30.77	+ 0 2.8	1.359	2.352	1.4	20.0
3 22	11 21.21	+ 1 18.6	1.350	2.335	4.8	20.2
4 1	11 12.57	+ 2 31.6	1.367	2.318	9.9	20.4
4 11	11 5.98	+ 3 33.4	1.408	2.301	14.5	20.7
4 21	11 2.11	+ 4 18.5	1.469	2.284	18.5	20.9

62430 2000 SV_{187} 3 12.4 150°.52 4°.2/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.71	+17 14.9	2.694	3.565	8.6	19.3
2 21	11 45.12	+18 10.9	2.640	3.570	6.2	19.2
3 2	11 38.24	+19 3.8	2.614	3.576	4.5	19.0
3 12	11 30.71	+19 48.5	2.617	3.581	4.5	19.1
3 22	11 23.19	+20 20.6	2.649	3.586	6.3	19.2
4 1	11 16.37	+20 37.6	2.709	3.590	8.7	19.3
4 11	11 10.83	+20 38.6	2.794	3.595	10.9	19.5
4 21	11 6.91	+20 24.4	2.898	3.599	12.8	19.6

346091 2007 VH_{30} 3 12.4 130°.95 1°.0/13.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.06	− 2 16.7	2.317	3.159	10.9	21.4
2 21	11 44.82	− 1 46.2	2.246	3.165	7.8	21.2
3 2	11 38.16	− 1 4.0	2.201	3.171	4.4	21.0
3 12	11 30.71	− 0 14.0	2.185	3.177	1.1	20.8
3 22	11 23.23	+ 0 38.9	2.198	3.183	3.3	21.0
4 1	11 16.47	+ 1 29.5	2.241	3.188	6.8	21.2
4 11	11 11.08	+ 2 13.2	2.310	3.193	10.0	21.4
4 21	11 7.46	+ 2 46.7	2.401	3.199	12.7	21.6

186151 2001 UW_{56} 3 12.4 182°.57 0°.7/13.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.04	− 0 53.9	1.992	2.840	12.2	21.2
2 21	11 47.13	− 0 27.7	1.917	2.841	8.7	21.0
3 2	11 39.45	+ 0 10.8	1.868	2.841	4.8	20.7
3 12	11 30.76	+ 0 57.3	1.848	2.841	0.8	20.4
3 22	11 21.98	+ 1 46.2	1.856	2.840	3.9	20.7
4 1	11 14.05	+ 2 31.7	1.893	2.839	7.9	20.9
4 11	11 7.77	+ 3 8.7	1.955	2.838	11.6	21.1
4 21	11 3.61	+ 3 34.0	2.039	2.836	14.6	21.3

285178 1996 OZ 3 12.4 192°.69 10°.1/24.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.34	−32 38.5	2.658	3.290	14.7	21.4
2 21	11 50.22	−33 42.0	2.565	3.288	13.3	21.3
3 2	11 41.15	−34 21.2	2.491	3.285	11.9	21.2
3 12	11 30.83	−34 32.6	2.440	3.281	10.7	21.1
3 22	11 20.16	−34 15.6	2.413	3.277	10.1	21.0
4 1	11 10.13	−33 32.7	2.411	3.273	10.4	21.0
4 11	11 1.65	−32 29.7	2.434	3.267	11.3	21.1
4 21	10 55.32	−31 14.2	2.480	3.261	12.8	21.2

384916 2012 TW_{59} 3 12.4 225°.18 1°.1/11.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.73	+ 4 38.9	2.318	3.179	10.2	21.6
2 21	11 45.36	+ 5 17.9	2.241	3.174	7.1	21.4
3 2	11 38.48	+ 6 3.8	2.191	3.168	3.6	21.1
3 12	11 30.74	+ 6 51.9	2.170	3.162	1.1	20.9
3 22	11 22.90	+ 7 36.9	2.179	3.156	4.2	21.2
4 1	11 15.76	+ 8 14.3	2.216	3.150	7.7	21.4
4 11	11 9.99	+ 8 40.5	2.279	3.143	10.9	21.6
4 21	11 6.03	+ 8 53.7	2.364	3.136	13.6	21.7

166880 2002 XD_{83} 3 12.4 42°.23 2°.6/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.29	+ 8 55.3	2.014	2.889	10.9	19.5
2 21	11 45.14	+ 9 46.5	1.955	2.894	7.5	19.3
3 2	11 38.37	+10 41.4	1.923	2.900	4.1	19.1
3 12	11 30.73	+11 33.8	1.918	2.905	2.8	19.0
3 22	11 23.10	+12 17.7	1.943	2.911	5.6	19.2
4 1	11 16.35	+12 48.5	1.994	2.917	9.1	19.4
4 11	11 11.17	+13 3.4	2.069	2.923	12.2	19.6
4 21	11 7.99	+13 2.3	2.165	2.929	14.9	19.8

15229 1987 QZ_6 3 12.4 232°.53 3°.3/14.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.86	− 6 22.2	1.533	2.373	15.6	17.8
2 21	11 48.93	− 6 18.9	1.455	2.368	11.8	17.5
3 2	11 40.61	− 5 55.0	1.400	2.363	7.4	17.2
3 12	11 30.82	− 5 13.5	1.370	2.357	3.6	17.0
3 22	11 20.78	− 4 20.0	1.367	2.351	5.0	17.1
4 1	11 11.80	− 3 22.5	1.391	2.345	9.4	17.3
4 11	11 4.96	− 2 29.3	1.439	2.339	13.8	17.5
4 21	11 0.88	− 1 46.8	1.507	2.333	17.6	17.8

232556 2003 SK_{242} 3 12.4 186°.61 0°.3/12.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.14	+ 0 5.4	2.103	2.955	11.5	20.9
2 21	11 45.74	+ 0 34.8	2.029	2.955	8.1	20.7
3 2	11 38.70	+ 1 15.2	1.981	2.955	4.3	20.4
3 12	11 30.75	+ 2 2.1	1.961	2.954	0.5	20.1
3 22	11 22.72	+ 2 50.3	1.970	2.954	3.8	20.4
4 1	11 15.48	+ 3 34.2	2.008	2.953	7.6	20.6
4 11	11 9.74	+ 4 9.4	2.071	2.952	11.1	20.8
4 21	11 5.98	+ 4 32.9	2.157	2.952	14.0	21.0

162590 2000 SY_{38} 3 12.4 223°.49 0°.7/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 53.64	+ 1 40.3	2.004	2.859	11.8	21.8
2 21	11 47.67	+ 2 39.8	1.918	2.847	8.3	21.6
3 2	11 39.81	+ 3 51.9	1.858	2.834	4.3	21.3
3 12	11 30.80	+ 5 10.4	1.827	2.820	0.7	21.0
3 22	11 21.56	+ 6 28.1	1.826	2.805	4.6	21.2
4 1	11 13.08	+ 7 37.7	1.854	2.790	8.8	21.5
4 11	11 6.24	+ 8 33.6	1.907	2.773	12.6	21.7
4 21	11 1.57	+ 9 12.7	1.982	2.756	15.8	21.8

465924 2010 WH_{16} 3 12.4 101°.18 2°.2/14.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.61	− 6 36.5	1.815	2.649	13.8	21.5
2 21	11 46.17	− 5 53.4	1.753	2.664	10.2	21.3
3 2	11 38.93	− 4 51.2	1.715	2.679	6.1	21.1
3 12	11 30.76	− 3 35.0	1.705	2.694	2.5	20.9
3 22	11 22.62	− 2 12.2	1.723	2.708	4.0	21.0
4 1	11 15.46	− 0 50.6	1.770	2.722	7.9	21.3
4 11	11 10.07	+ 0 22.2	1.842	2.736	11.6	21.5
4 21	11 6.88	+ 1 21.4	1.936	2.749	14.7	21.8

495904 2005 RX_{25} 3 12.4 161°.26 1°.0/13.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.76	− 3 20.1	2.546	3.377	10.4	22.4
2 21	11 45.91	− 2 38.7	2.472	3.385	7.5	22.3
3 2	11 38.70	− 1 45.4	2.425	3.393	4.2	22.1
3 12	11 30.76	− 0 44.0	2.408	3.400	1.2	21.8
3 22	11 22.78	+ 0 20.4	2.421	3.405	3.1	22.0
4 1	11 15.49	+ 1 22.6	2.466	3.411	6.4	22.2
4 11	11 9.49	+ 2 17.9	2.537	3.415	9.4	22.4
4 21	11 5.18	+ 3 3.1	2.633	3.418	12.0	22.6

12632 Mignonette 3 12.4 336°.96 0°.8/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.19	− 0 12.2	1.328	2.198	15.6	18.1
2 21	11 47.25	+ 0 4.8	1.257	2.191	11.2	17.8
3 2	11 39.79	+ 0 38.3	1.208	2.184	6.1	17.5
3 12	11 30.81	+ 1 22.8	1.184	2.177	0.9	17.1
3 22	11 21.60	+ 2 10.7	1.186	2.172	5.2	17.4
4 1	11 13.56	+ 2 53.7	1.213	2.167	10.5	17.7
4 11	11 7.84	+ 3 24.7	1.261	2.162	15.3	17.9
4 21	11 5.04	+ 3 39.8	1.329	2.158	19.3	18.2

426916 2013 WT_{91} 3 12.4 248°.11 0°.9/11.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.30	+ 3 54.5	2.033	2.896	11.3	21.3
2 21	11 45.90	+ 4 30.6	1.961	2.894	7.9	21.1
3 2	11 38.81	+ 5 14.8	1.914	2.892	4.0	20.9
3 12	11 30.77	+ 6 2.1	1.897	2.890	0.9	20.6
3 22	11 22.65	+ 6 46.6	1.908	2.887	4.5	20.9
4 1	11 15.35	+ 7 23.2	1.947	2.885	8.3	21.1
4 11	11 9.61	+ 7 48.0	2.011	2.883	11.8	21.3
4 21	11 5.91	+ 7 59.0	2.096	2.880	14.7	21.5

297243 1994 SC_{13} 3 12.4 218°.18 3°.1/ 8.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.36	+14 19.4	2.971	3.835	8.1	21.7
2 21	11 46.24	+14 54.1	2.895	3.826	5.7	21.5
3 2	11 38.86	+15 27.7	2.848	3.817	3.6	21.3
3 12	11 30.78	+15 56.2	2.831	3.807	3.3	21.3
3 22	11 22.64	+16 15.8	2.845	3.797	5.1	21.4
4 1	11 15.09	+16 24.0	2.888	3.786	7.6	21.5
4 11	11 8.69	+16 19.7	2.957	3.775	9.9	21.7
4 21	11 3.84	+16 2.9	3.047	3.763	12.0	21.8

290071 2005 QW_{71} 3 12.4 230°.20 1°.4/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.76	− 2 23.1	2.914	3.740	9.4	21.0
2 21	11 47.28	− 2 29.6	2.818	3.728	6.9	20.8
3 2	11 39.45	− 2 27.9	2.751	3.716	4.0	20.6
3 12	11 30.81	− 2 19.7	2.713	3.703	1.5	20.4
3 22	11 22.01	− 2 7.4	2.708	3.691	3.0	20.5
4 1	11 13.74	− 1 54.1	2.733	3.677	5.9	20.7
4 11	11 6.61	− 1 42.9	2.786	3.663	8.7	20.8
4 21	11 1.04	− 1 36.1	2.864	3.649	11.1	21.0

84525 2002 UC_7 3 12.4 103°.23 1°.1/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.03	+ 3 24.7	2.208	3.071	10.6	19.7
2 21	11 44.15	+ 4 31.2	2.147	3.081	7.3	19.5
3 2	11 37.83	+ 5 46.3	2.113	3.090	3.7	19.3
3 12	11 30.75	+ 7 3.7	2.108	3.100	1.2	19.1
3 22	11 23.66	+ 8 17.0	2.133	3.109	4.4	19.4
4 1	11 17.34	+ 9 20.3	2.186	3.119	7.9	19.6
4 11	11 12.43	+10 9.7	2.265	3.128	11.0	19.8
4 21	11 9.31	+10 43.2	2.365	3.137	13.6	20.0

205252 2000 QH_{221} 3 12.4 221°.25 3°.9/ 8.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.50	+ 9 50.2	1.739	2.616	12.2	20.6
2 21	11 47.75	+11 17.4	1.669	2.608	8.5	20.4
3 2	11 39.91	+12 50.7	1.624	2.600	4.9	20.1
3 12	11 30.83	+14 20.8	1.608	2.591	4.2	20.1
3 22	11 21.57	+15 38.4	1.621	2.581	7.4	20.2
4 1	11 13.27	+16 36.3	1.660	2.571	11.4	20.5
4 11	11 6.87	+17 11.0	1.721	2.561	15.0	20.7
4 21	11 2.92	+17 22.4	1.802	2.549	18.0	20.8

200071 2051 T-2 3 12.4 217°.70 0°.3/12.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 52.73	+ 2 22.9	2.589	3.436	9.7	21.8
2 21	11 46.67	+ 2 54.5	2.500	3.426	6.8	21.6
3 2	11 39.17	+ 3 34.0	2.440	3.415	3.5	21.3
3 12	11 30.81	+ 4 17.4	2.409	3.403	0.3	21.0
3 22	11 22.30	+ 5 0.3	2.409	3.390	3.6	21.3
4 1	11 14.39	+ 5 38.4	2.440	3.376	7.0	21.5
4 11	11 7.75	+ 6 8.0	2.497	3.362	10.0	21.7
4 21	11 2.81	+ 6 27.0	2.578	3.347	12.6	21.8

496074 2009 RS_{50} 3 12.4 185°.87 1°.1/13.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.27	− 3 44.4	2.664	3.492	10.1	23.3
2 21	11 45.58	− 2 59.5	2.580	3.492	7.3	23.1
3 2	11 38.56	− 2 2.5	2.524	3.491	4.2	22.9
3 12	11 30.79	− 0 57.0	2.498	3.490	1.2	22.7
3 22	11 22.93	+ 0 12.2	2.503	3.487	3.0	22.8
4 1	11 15.68	+ 1 19.7	2.539	3.484	6.3	23.0
4 11	11 9.65	+ 2 20.6	2.603	3.480	9.2	23.2
4 21	11 5.23	+ 3 11.6	2.691	3.475	11.8	23.4

309112 2006 WW_{118} 3 12.4 103°.80 0°.9/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.63	+ 0 8.0	1.808	2.656	13.2	20.5
2 21	11 50.33	+ 0 9.8	1.750	2.673	9.4	20.3
3 2	11 41.10	+ 0 22.4	1.717	2.690	5.1	20.0
3 12	11 30.88	+ 0 42.0	1.713	2.706	1.0	19.8
3 22	11 20.74	+ 1 3.9	1.737	2.721	4.1	20.0
4 1	11 11.74	+ 1 23.2	1.790	2.737	8.3	20.3
4 11	11 4.70	+ 1 35.8	1.869	2.752	12.0	20.6
4 21	11 0.07	+ 1 39.0	1.969	2.766	15.1	20.8

307247 2002 JO_{150} 3 12.4 95°.35 4°.4/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.02	+13 39.8	1.925	2.803	11.1	20.5
2 21	11 46.45	+14 43.9	1.868	2.806	7.8	20.3
3 2	11 39.10	+15 48.0	1.837	2.808	5.0	20.1
3 12	11 30.81	+16 44.3	1.835	2.811	4.7	20.1
3 22	11 22.51	+17 26.6	1.860	2.813	7.3	20.2
4 1	11 15.16	+17 50.4	1.911	2.815	10.5	20.4
4 11	11 9.53	+17 54.4	1.986	2.818	13.6	20.6
4 21	11 6.07	+17 39.4	2.080	2.820	16.1	20.8

150129 Besshi 3 12.4 86°.54 3°.1/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.69	+ 8 39.8	1.691	2.565	12.6	20.4
2 21	11 48.27	+ 9 47.1	1.651	2.590	8.6	20.2
3 2	11 39.99	+10 58.0	1.638	2.614	4.7	20.1
3 12	11 30.84	+12 4.3	1.652	2.638	3.3	20.0
3 22	11 21.88	+12 58.6	1.694	2.662	6.4	20.3
4 1	11 14.16	+13 35.8	1.763	2.685	10.2	20.5
4 11	11 8.42	+13 53.8	1.856	2.708	13.5	20.8
4 21	11 5.04	+13 53.1	1.968	2.730	16.3	21.0

8697 Olofsson 3 12.4 237°.62 0°.4/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.69	− 0 7.3	2.626	3.471	9.7	19.0
2 21	11 44.55	+ 0 22.7	2.538	3.460	6.9	18.8
3 2	11 38.06	+ 1 2.0	2.476	3.449	3.7	18.6
3 12	11 30.78	+ 1 47.2	2.444	3.438	0.5	18.3
3 22	11 23.37	+ 2 34.1	2.443	3.426	3.2	18.5
4 1	11 16.52	+ 3 18.1	2.470	3.414	6.5	18.7
4 11	11 10.84	+ 3 55.3	2.525	3.401	9.5	18.9
4 21	11 6.77	+ 4 22.9	2.603	3.389	12.1	19.1

498415 2008 AV_{14} 3 12.4 30°.01 2°.6/ 9.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.12	+ 8 12.6	2.061	2.937	10.6	21.0
2 21	11 43.63	+ 9 22.9	2.002	2.942	7.2	20.8
3 2	11 37.60	+10 38.1	1.970	2.947	3.9	20.6
3 12	11 30.76	+11 51.3	1.967	2.953	2.9	20.5
3 22	11 23.90	+12 55.8	1.992	2.959	5.7	20.7
4 1	11 17.84	+13 46.2	2.044	2.965	9.0	20.9
4 11	11 13.27	+14 19.2	2.121	2.972	12.1	21.1
4 21	11 10.58	+14 34.3	2.218	2.978	14.7	21.3

177947 2006 JS_6 3 12.4 128°.78 2°.9/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.60	+ 8 33.8	1.709	2.581	12.6	20.8
2 21	11 49.03	+ 9 32.1	1.656	2.593	8.7	20.6
3 2	11 40.46	+10 35.0	1.628	2.605	4.7	20.3
3 12	11 30.86	+11 34.7	1.628	2.616	3.1	20.3
3 22	11 21.33	+12 23.8	1.657	2.626	6.4	20.5
4 1	11 12.96	+12 56.9	1.713	2.636	10.3	20.7
4 11	11 6.59	+13 11.5	1.792	2.646	13.9	21.0
4 21	11 2.68	+13 7.8	1.891	2.654	16.8	21.2

155363 3207 T-3 3 12.4 193°.37 0°.4/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.30	− 0 25.5	2.185	3.033	11.2	20.7
2 21	11 45.84	+ 0 12.3	2.108	3.032	8.0	20.5
3 2	11 38.78	+ 1 1.5	2.057	3.030	4.3	20.3
3 12	11 30.82	+ 1 57.6	2.035	3.028	0.5	19.9
3 22	11 22.76	+ 2 55.2	2.042	3.026	3.7	20.2
4 1	11 15.44	+ 3 48.6	2.079	3.023	7.5	20.4
4 11	11 9.59	+ 4 32.8	2.141	3.020	10.9	20.6
4 21	11 5.65	+ 5 4.8	2.226	3.016	13.8	20.8

82004 2000 QA_{226} 3 12.4 238°.91 0°.9/13.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 51.88	− 0 43.3	2.347	3.190	10.7	19.6
2 21	11 46.17	− 0 35.5	2.266	3.186	7.7	19.4
3 2	11 38.93	− 0 18.1	2.211	3.182	4.3	19.2
3 12	11 30.82	+ 0 6.0	2.185	3.178	1.0	19.0
3 22	11 22.61	+ 0 32.8	2.189	3.173	3.4	19.1
4 1	11 15.08	+ 0 58.4	2.222	3.169	6.9	19.4
4 11	11 8.92	+ 1 18.6	2.282	3.164	10.1	19.5
4 21	11 4.59	+ 1 31.0	2.364	3.160	12.9	19.7

231042 2005 EF_{296} 3 12.4 85°.57 1°.5/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.79	+ 4 38.5	2.001	2.870	11.2	20.5
2 21	11 44.84	+ 5 38.9	1.938	2.874	7.7	20.3
3 2	11 38.26	+ 6 47.6	1.900	2.878	3.9	20.1
3 12	11 30.80	+ 7 58.0	1.891	2.882	1.6	19.9
3 22	11 23.30	+ 9 3.5	1.911	2.887	4.9	20.1
4 1	11 16.64	+ 9 57.9	1.958	2.891	8.6	20.4
4 11	11 11.54	+10 37.2	2.030	2.895	12.0	20.6
4 21	11 8.42	+10 59.9	2.124	2.900	14.8	20.8

179027 2001 RC_{99} 3 12.4 28°.21 0°.9/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.99	+ 2 15.7	1.585	2.455	13.5	19.8
2 21	11 46.02	+ 3 11.7	1.521	2.457	9.4	19.6
3 2	11 39.00	+ 4 20.6	1.481	2.459	4.8	19.3
3 12	11 30.83	+ 5 35.0	1.468	2.461	0.9	19.0
3 22	11 22.59	+ 6 46.4	1.483	2.464	5.2	19.3
4 1	11 15.40	+ 7 46.8	1.524	2.466	9.8	19.6
4 11	11 10.16	+ 8 30.6	1.588	2.469	13.9	19.9
4 21	11 7.36	+ 8 55.5	1.672	2.472	17.2	20.1

431574 2007 VQ_2 3 12.4 114°.78 1°.9/14.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.43	− 5 34.3	2.499	3.325	10.8	21.5
2 21	11 45.00	− 5 12.7	2.432	3.339	7.9	21.3
3 2	11 38.25	− 4 38.3	2.391	3.353	4.8	21.1
3 12	11 30.80	− 3 54.4	2.378	3.366	2.1	21.0
3 22	11 23.36	− 3 5.0	2.396	3.380	3.2	21.1
4 1	11 16.63	− 2 15.0	2.443	3.393	6.2	21.3
4 11	11 11.18	− 1 29.0	2.517	3.405	9.1	21.5
4 21	11 7.41	− 0 50.6	2.615	3.418	11.6	21.7

215105 1995 UV_{52} 3 12.4 66°.51 0°.9/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.70	− 1 18.9	1.453	2.314	15.1	20.0
2 21	11 47.92	− 0 48.1	1.399	2.329	10.8	19.7
3 2	11 39.97	− 0 1.2	1.370	2.344	5.9	19.5
3 12	11 30.87	+ 0 55.5	1.366	2.359	1.0	19.2
3 22	11 21.85	+ 1 54.3	1.389	2.374	4.7	19.5
4 1	11 14.10	+ 2 47.2	1.439	2.390	9.5	19.8
4 11	11 8.55	+ 3 27.9	1.512	2.405	13.7	20.1
4 21	11 5.62	+ 3 52.9	1.605	2.421	17.1	20.4

499016 2009 CS_{52} 3 12.4 38°.22 3°.2/15.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.50	− 6 2.5	1.937	2.767	13.2	20.9
2 21	11 47.49	− 6 22.5	1.868	2.775	9.9	20.7
3 2	11 39.68	− 6 27.5	1.824	2.783	6.4	20.5
3 12	11 30.86	− 6 19.5	1.807	2.792	3.4	20.3
3 22	11 22.00	− 6 1.9	1.819	2.801	4.3	20.4
4 1	11 14.05	− 5 39.4	1.858	2.810	7.6	20.6
4 11	11 7.81	− 5 17.2	1.923	2.819	11.0	20.9
4 21	11 3.76	− 4 59.7	2.010	2.829	14.0	21.1

181212 2005 SW_{190} 3 12.4 220°.56 1°.7/10.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.83	+ 7 49.6	2.734	3.597	8.7	20.3
2 21	11 44.57	+ 8 28.8	2.657	3.591	6.0	20.1
3 2	11 38.05	+ 9 11.7	2.608	3.585	3.2	19.9
3 12	11 30.80	+ 9 54.0	2.589	3.578	1.8	19.8
3 22	11 23.49	+10 31.4	2.601	3.571	4.2	19.9
4 1	11 16.76	+11 0.4	2.641	3.564	7.1	20.1
4 11	11 11.19	+11 18.3	2.707	3.557	9.8	20.3
4 21	11 7.16	+11 24.2	2.796	3.549	12.1	20.4

44889 1999 VC_6 3 12.4 134°.44 0°.9/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.71	− 2 4.4	1.546	2.399	14.8	18.6
2 21	11 49.31	− 1 22.1	1.485	2.410	10.6	18.3
3 2	11 40.70	− 0 22.7	1.448	2.421	5.8	18.1
3 12	11 30.90	+ 0 47.4	1.439	2.432	1.1	17.8
3 22	11 21.10	+ 2 0.0	1.457	2.441	4.6	18.1
4 1	11 12.52	+ 3 6.6	1.502	2.450	9.4	18.4
4 11	11 6.10	+ 4 0.2	1.572	2.459	13.6	18.6
4 21	11 2.32	+ 4 37.2	1.662	2.467	17.1	18.9

324472 2006 UZ_{82} 3 12.4 106°.25 1°.7/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.95	− 3 33.8	1.778	2.621	13.6	21.2
2 21	11 47.85	− 3 12.1	1.716	2.635	9.9	21.0
3 2	11 39.87	− 2 34.8	1.679	2.648	5.7	20.8
3 12	11 30.87	− 1 46.4	1.670	2.661	1.9	20.6
3 22	11 21.90	− 0 53.0	1.689	2.674	4.1	20.7
4 1	11 13.97	− 0 1.2	1.735	2.686	8.2	21.0
4 11	11 7.90	+ 0 43.0	1.807	2.698	11.9	21.3
4 21	11 4.15	+ 1 15.5	1.900	2.710	15.1	21.5

323434 2004 FF_{165} 3 12.4 283°.64 3°.5/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 50.93	+ 8 33.7	1.694	2.574	12.3	20.3
2 21	11 46.08	+ 9 55.8	1.614	2.555	8.6	20.1
3 2	11 39.12	+11 26.6	1.559	2.536	4.8	19.8
3 12	11 30.85	+12 57.0	1.532	2.517	3.8	19.7
3 22	11 22.29	+14 17.5	1.532	2.498	7.2	19.8
4 1	11 14.59	+15 20.1	1.559	2.479	11.4	20.0
4 11	11 8.73	+15 59.9	1.608	2.459	15.3	20.2
4 21	11 5.32	+16 15.9	1.676	2.440	18.6	20.4

225964 2002 CG_{96} 3 12.4 48°.97 1°.6/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.51	+ 4 26.6	1.716	2.589	12.5	20.2
2 21	11 45.54	+ 5 27.9	1.656	2.594	8.7	20.0
3 2	11 38.70	+ 6 38.9	1.621	2.599	4.4	19.7
3 12	11 30.83	+ 7 52.1	1.613	2.605	1.7	19.5
3 22	11 22.95	+ 8 59.5	1.633	2.610	5.4	19.8
4 1	11 16.05	+ 9 54.2	1.680	2.616	9.6	20.0
4 11	11 10.96	+10 31.8	1.751	2.622	13.3	20.3
4 21	11 8.13	+10 50.7	1.842	2.628	16.3	20.5

383997 2008 UO_{2} 3 12.4 190°.52 1°.2/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.00	− 4 12.4	2.486	3.318	10.6	21.9
2 21	11 44.79	− 3 27.8	2.404	3.317	7.7	21.7
3 2	11 38.20	− 2 29.9	2.348	3.315	4.5	21.4
3 12	11 30.82	− 1 22.5	2.322	3.313	1.4	21.2
3 22	11 23.35	− 0 10.8	2.326	3.310	3.2	21.3
4 1	11 16.51	+ 0 59.4	2.360	3.307	6.5	21.6
4 11	11 10.93	+ 2 2.9	2.421	3.303	9.6	21.7
4 21	11 7.04	+ 2 55.8	2.505	3.299	12.3	21.9

248381 2005 SF_{1} 3 12.4 186°.35 1°.6/13.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.25	− 4 6.1	1.804	2.643	13.7	21.5
2 21	11 48.89	− 3 28.3	1.727	2.643	10.0	21.2
3 2	11 40.50	− 2 32.8	1.675	2.643	5.8	21.0
3 12	11 30.91	− 1 24.6	1.650	2.641	1.8	20.7
3 22	11 21.18	− 0 10.6	1.654	2.639	4.2	20.9
4 1	11 12.40	+ 1 1.4	1.687	2.636	8.5	21.1
4 11	11 5.48	+ 2 4.3	1.746	2.632	12.5	21.4
4 21	11 0.97	+ 2 53.3	1.826	2.627	15.9	21.6

426913 2013 WM_{84} 3 12.4 166°.60 2°.8/ 9.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.84	+ 9 44.0	2.227	3.099	10.1	21.1
2 21	11 45.46	+10 44.7	2.164	3.101	7.0	21.0
3 2	11 38.56	+11 48.7	2.128	3.103	3.9	20.8
3 12	11 30.84	+12 49.6	2.121	3.105	3.0	20.7
3 22	11 23.07	+13 41.6	2.143	3.106	5.6	20.9
4 1	11 16.09	+14 20.2	2.193	3.108	8.8	21.1
4 11	11 10.56	+14 42.8	2.267	3.109	11.8	21.3
4 21	11 6.90	+14 48.8	2.362	3.109	14.2	21.4

155192 2005 UV_{371} 3 12.4 198°.00 0°.7/11.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.93	+ 3 16.7	2.363	3.216	10.3	21.6
2 21	11 46.90	+ 3 55.8	2.284	3.212	7.2	21.4
3 2	11 39.33	+ 4 42.8	2.232	3.208	3.7	21.1
3 12	11 30.88	+ 5 33.0	2.210	3.203	0.7	20.9
3 22	11 22.32	+ 6 21.3	2.219	3.198	4.0	21.1
4 1	11 14.47	+ 7 3.0	2.257	3.192	7.5	21.3
4 11	11 8.02	+ 7 34.2	2.321	3.185	10.7	21.5
4 21	11 3.41	+ 7 53.0	2.408	3.177	13.4	21.7

345075 2005 JP_{78} 3 12.4 293°.77 2°.0/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.25	+ 7 21.8	2.048	2.918	10.9	21.4
2 21	11 45.97	+ 7 59.8	1.966	2.903	7.6	21.1
3 2	11 38.94	+ 8 43.4	1.911	2.889	4.0	20.9
3 12	11 30.86	+ 9 27.1	1.884	2.874	2.1	20.7
3 22	11 22.61	+10 5.1	1.886	2.859	5.2	20.9
4 1	11 15.11	+10 32.6	1.915	2.845	9.0	21.1
4 11	11 9.16	+10 46.0	1.968	2.830	12.4	21.3
4 21	11 5.27	+10 44.4	2.043	2.816	15.4	21.4

458870 2011 UZ_{129} 3 12.4 96°.24 2°.8/14.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.39	− 5 39.8	1.583	2.421	15.3	21.4
2 21	11 49.69	− 5 31.2	1.527	2.440	11.3	21.2
3 2	11 40.86	− 5 3.7	1.495	2.459	6.9	20.9
3 12	11 30.94	− 4 21.5	1.489	2.477	3.1	20.7
3 22	11 21.09	− 3 30.8	1.511	2.495	4.6	20.9
4 1	11 12.50	− 2 38.9	1.560	2.513	8.7	21.2
4 11	11 6.05	− 1 52.9	1.634	2.530	12.7	21.4
4 21	11 2.20	− 1 17.7	1.729	2.547	16.0	21.7

81863 2000 KV_{74} 3 12.4 211°.99 0°.1/12.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.94	+ 0 39.8	1.948	2.803	12.1	19.9
2 21	11 46.46	+ 1 24.5	1.871	2.800	8.5	19.7
3 2	11 39.19	+ 2 21.3	1.820	2.795	4.5	19.4
3 12	11 30.88	+ 3 25.0	1.797	2.791	0.2	19.0
3 22	11 22.43	+ 4 29.0	1.803	2.786	4.2	19.4
4 1	11 14.82	+ 5 26.6	1.838	2.781	8.4	19.6
4 11	11 8.84	+ 6 12.5	1.897	2.775	12.1	19.8
4 21	11 4.99	+ 6 43.7	1.978	2.769	15.2	20.0

372007 2008 JW_{30} 3 12.4 275°.77 1°.7/10.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 51.08	+ 4 33.6	1.726	2.598	12.5	21.5
2 21	11 46.04	+ 5 34.5	1.654	2.592	8.7	21.3
3 2	11 39.03	+ 6 45.8	1.608	2.586	4.4	21.0
3 12	11 30.88	+ 8 0.3	1.589	2.580	1.8	20.8
3 22	11 22.58	+ 9 9.7	1.597	2.574	5.6	21.0
4 1	11 15.20	+10 6.8	1.633	2.568	9.9	21.3
4 11	11 9.63	+10 46.5	1.693	2.562	13.7	21.5
4 21	11 6.40	+11 7.0	1.772	2.557	17.0	21.7

209622 2005 AW_{31} 3 12.4 15°.50 0°.2/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.35	+ 0 44.2	1.239	2.116	16.0	20.0
2 21	11 46.67	+ 1 24.8	1.180	2.119	11.3	19.7
3 2	11 39.49	+ 2 22.4	1.144	2.122	5.9	19.4
3 12	11 30.90	+ 3 29.2	1.132	2.126	0.2	19.0
3 22	11 22.24	+ 4 35.4	1.146	2.130	5.6	19.4
4 1	11 14.91	+ 5 31.6	1.184	2.136	11.0	19.7
4 11	11 9.97	+ 6 10.7	1.243	2.141	15.7	20.0
4 21	11 7.95	+ 6 29.7	1.321	2.148	19.5	20.2

287880 2003 SC_{324} 3 12.4 185°.57 0°.2/12.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.00	+ 0 0.5	2.007	2.856	12.1	22.5
2 21	11 47.85	+ 0 41.8	1.931	2.856	8.5	22.3
3 2	11 39.90	+ 1 35.4	1.882	2.856	4.5	22.0
3 12	11 30.92	+ 2 36.0	1.861	2.855	0.3	21.7
3 22	11 21.84	+ 3 37.5	1.870	2.853	4.1	22.0
4 1	11 13.61	+ 4 33.5	1.908	2.850	8.2	22.2
4 11	11 7.03	+ 5 18.7	1.971	2.847	11.8	22.5
4 21	11 2.60	+ 5 50.2	2.057	2.843	14.9	22.7

458931 2011 UE_{299} 3 12.4 150°.72 3°.6/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.16	+10 33.9	1.754	2.626	12.3	22.0
2 21	11 49.46	+11 33.8	1.697	2.634	8.6	21.7
3 2	11 40.74	+12 36.4	1.667	2.641	4.9	21.5
3 12	11 30.95	+13 33.8	1.664	2.648	3.8	21.5
3 22	11 21.19	+14 18.7	1.690	2.654	6.9	21.7
4 1	11 12.56	+14 46.3	1.743	2.660	10.6	21.9
4 11	11 5.92	+14 54.5	1.820	2.664	14.1	22.1
4 21	11 1.73	+14 43.9	1.916	2.669	16.9	22.3

370812 2004 TA_{282} 3 12.4 116°.75 5°.2/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.16	+17 26.9	2.135	3.010	10.4	21.2
2 21	11 47.07	+18 41.3	2.093	3.024	7.6	21.0
3 2	11 39.38	+19 51.6	2.077	3.038	5.5	20.9
3 12	11 30.90	+20 50.4	2.090	3.052	5.6	21.0
3 22	11 22.51	+21 32.3	2.131	3.065	7.8	21.1
4 1	11 15.07	+21 54.1	2.198	3.078	10.4	21.3
4 11	11 9.28	+21 55.4	2.289	3.091	13.0	21.5
4 21	11 5.52	+21 38.1	2.399	3.103	15.1	21.7

197528 2004 EM_{19} 3 12.4 15°.90 0°.6/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.55	+ 4 16.1	2.807	3.665	8.7	20.3
2 21	11 43.64	+ 4 34.7	2.736	3.667	6.1	20.1
3 2	11 37.56	+ 4 58.4	2.692	3.669	3.1	19.9
3 12	11 30.86	+ 5 23.9	2.678	3.671	0.6	19.7
3 22	11 24.12	+ 5 47.8	2.693	3.673	3.3	19.9
4 1	11 17.97	+ 6 6.9	2.738	3.676	6.2	20.1
4 11	11 12.93	+ 6 18.7	2.810	3.679	8.9	20.3
4 21	11 9.34	+ 6 21.6	2.904	3.682	11.2	20.4

425260 2009 WD_{86} 3 12.4 163°.17 1°.8/10.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.60	+ 6 49.3	1.955	2.822	11.5	21.8
2 21	11 47.58	+ 7 23.3	1.888	2.823	8.0	21.6
3 2	11 39.76	+ 8 2.9	1.847	2.825	4.1	21.4
3 12	11 30.96	+ 8 42.3	1.835	2.826	1.9	21.2
3 22	11 22.12	+ 9 15.9	1.852	2.827	5.1	21.4
4 1	11 14.19	+ 9 39.0	1.896	2.828	8.9	21.7
4 11	11 7.96	+ 9 48.7	1.965	2.829	12.4	21.9
4 21	11 3.91	+ 9 44.1	2.055	2.829	15.3	22.1

122549 2000 QD_{229} 3 12.4 286°.35 1°.0/11.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.75	+ 3 56.0	1.785	2.650	12.5	20.4
2 21	11 48.09	+ 4 26.2	1.691	2.624	8.9	20.1
3 2	11 40.25	+ 5 6.5	1.621	2.598	4.6	19.8
3 12	11 30.99	+ 5 51.6	1.579	2.572	1.0	19.5
3 22	11 21.32	+ 6 35.0	1.565	2.545	5.1	19.7
4 1	11 12.41	+ 7 10.3	1.578	2.518	9.7	19.9
4 11	11 5.29	+ 7 32.4	1.616	2.491	14.0	20.1
4 21	11 0.61	+ 7 38.9	1.673	2.464	17.6	20.3

160834 2000 YD_{51} 3 12.4 123°.22 2°.7/14.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.23	− 6 45.4	1.958	2.781	13.4	20.1
2 21	11 49.31	− 6 29.1	1.897	2.801	10.0	19.9
3 2	11 40.61	− 5 56.0	1.861	2.820	6.2	19.7
3 12	11 30.99	− 5 9.5	1.853	2.839	3.0	19.5
3 22	11 21.43	− 4 15.1	1.874	2.857	4.0	19.6
4 1	11 12.90	− 3 19.1	1.924	2.874	7.6	19.9
4 11	11 6.16	− 2 27.8	2.001	2.890	11.0	20.1
4 21	11 1.64	− 1 45.6	2.100	2.905	14.0	20.3

160113 2000 SK_{216} 3 12.4 202°.23 1°.6/10.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 53.94	+ 4 39.2	2.033	2.893	11.4	21.2
2 21	11 47.84	+ 5 45.0	1.956	2.888	7.9	21.0
3 2	11 39.94	+ 7 0.1	1.906	2.883	4.1	20.8
3 12	11 30.98	+ 8 17.8	1.885	2.876	1.7	20.6
3 22	11 21.87	+ 9 30.6	1.894	2.869	5.1	20.8
4 1	11 13.57	+10 32.2	1.932	2.861	9.0	21.0
4 11	11 6.91	+11 17.9	1.996	2.851	12.5	21.2
4 21	11 2.38	+11 45.9	2.080	2.841	15.5	21.4

99353 2001 XT_{133} 3 12.4 214°.75 0°.4/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.45	+ 1 57.0	2.142	2.996	11.2	20.3
2 21	11 46.74	+ 2 38.3	2.061	2.990	7.9	20.1
3 2	11 39.34	+ 3 29.6	2.007	2.983	4.1	19.9
3 12	11 30.96	+ 4 26.1	1.982	2.975	0.4	19.5
3 22	11 22.44	+ 5 21.8	1.986	2.967	4.1	19.8
4 1	11 14.66	+ 6 11.2	2.019	2.959	8.0	20.0
4 11	11 8.38	+ 6 49.5	2.078	2.950	11.5	20.2
4 21	11 4.10	+ 7 14.4	2.159	2.940	14.4	20.4

212989 2009 DZ_{22} 3 12.4 84°.37 1°.0/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.48	+ 3 22.2	1.478	2.349	14.3	20.3
2 21	11 48.58	+ 4 1.0	1.418	2.354	10.0	20.1
3 2	11 40.42	+ 4 51.0	1.382	2.360	5.1	19.8
3 12	11 31.00	+ 5 45.3	1.372	2.365	1.0	19.5
3 22	11 21.56	+ 6 35.8	1.389	2.370	5.5	19.8
4 1	11 13.34	+ 7 15.5	1.433	2.376	10.3	20.1
4 11	11 7.30	+ 7 39.6	1.499	2.381	14.5	20.4
4 21	11 3.96	+ 7 46.3	1.585	2.386	17.9	20.6

244096 2001 US_{118} 3 12.4 163°.65 2°.0/15.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.75	− 7 1.7	2.710	3.528	10.2	21.0
2 21	11 43.85	− 6 27.7	2.630	3.532	7.6	20.8
3 2	11 37.71	− 5 40.1	2.577	3.536	4.8	20.6
3 12	11 30.90	− 4 42.1	2.552	3.539	2.3	20.4
3 22	11 24.03	− 3 38.0	2.558	3.542	3.0	20.5
4 1	11 17.75	− 2 32.6	2.594	3.545	5.8	20.7
4 11	11 12.62	− 1 31.1	2.658	3.547	8.6	20.9
4 21	11 9.01	− 0 37.3	2.746	3.549	11.1	21.0

162604 2000 SM_{74} 3 12.4 246°.89 3°.9/ 8.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.60	+10 52.7	1.773	2.646	12.2	20.5
2 21	11 49.34	+11 58.3	1.692	2.630	8.6	20.2
3 2	11 40.87	+13 8.6	1.638	2.612	5.0	20.0
3 12	11 31.03	+14 15.2	1.611	2.593	4.2	19.9
3 22	11 20.91	+15 9.9	1.613	2.574	7.3	20.0
4 1	11 11.68	+15 46.5	1.641	2.555	11.4	20.2
4 11	11 4.37	+16 1.6	1.693	2.534	15.1	20.4
4 21	10 59.59	+15 55.5	1.763	2.513	18.3	20.6

28058 1998 NF 3 12.4 304°.91 2°.8/10.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.70	+ 7 2.4	1.422	2.304	14.0	17.9
2 21	11 47.63	+ 7 54.6	1.347	2.289	9.8	17.6
3 2	11 40.08	+ 8 56.4	1.295	2.274	5.2	17.3
3 12	11 31.00	+ 9 59.1	1.270	2.260	2.9	17.1
3 22	11 21.64	+10 53.6	1.271	2.246	7.0	17.3
4 1	11 13.36	+11 31.9	1.296	2.232	11.8	17.5
4 11	11 7.28	+11 49.4	1.344	2.219	16.3	17.7
4 21	11 4.04	+11 45.0	1.409	2.206	20.0	18.0

124905 2001 TB_{59} 3 12.4 106°.17 2°.4/14.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.91	− 6 16.3	1.507	2.350	15.7	20.0
2 21	11 48.12	− 5 37.3	1.448	2.364	11.6	19.8
3 2	11 40.15	− 4 36.4	1.411	2.377	6.9	19.5
3 12	11 31.00	− 3 19.2	1.400	2.390	2.8	19.3
3 22	11 21.88	− 1 54.2	1.417	2.403	4.5	19.5
4 1	11 13.96	− 0 31.0	1.461	2.415	9.1	19.7
4 11	11 8.19	+ 0 41.6	1.529	2.427	13.3	20.0
4 21	11 5.02	+ 1 38.2	1.618	2.438	16.8	20.3

21760 1999 RM_{199} 3 12.4 203°.03 1°.3/13.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.45	− 2 5.0	2.182	3.017	11.8	18.9
2 21	11 49.54	− 1 54.1	2.096	3.011	8.6	18.7
3 2	11 40.82	− 1 31.4	2.037	3.005	4.9	18.4
3 12	11 31.04	− 1 0.0	2.007	2.998	1.4	18.2
3 22	11 21.08	− 0 24.3	2.007	2.991	3.7	18.3
4 1	11 11.89	+ 0 10.7	2.037	2.982	7.5	18.6
4 11	11 4.28	+ 0 40.4	2.093	2.972	11.1	18.8
4 21	10 58.76	+ 1 1.4	2.172	2.962	14.1	18.9

513080 2017 WJ_{21} 3 12.4 249°.25 5°.4/18.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.35	−17 50.3	2.533	3.289	12.6	22.5
2 21	11 46.69	−17 39.9	2.417	3.265	10.4	22.2
3 2	11 39.37	−17 7.9	2.325	3.240	8.0	22.0
3 12	11 30.99	−16 14.4	2.260	3.214	5.9	21.9
3 22	11 22.28	−15 2.2	2.224	3.186	5.5	21.8
4 1	11 14.09	−13 36.5	2.217	3.158	7.3	21.9
4 11	11 7.18	−12 4.3	2.238	3.130	9.9	22.0
4 21	11 2.10	−10 32.9	2.284	3.100	12.7	22.1

299910 2006 SB_{394} 3 12.4 75°.90 3°.5/16.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 49.08	−10 49.4	2.316	3.123	12.1	20.5
2 21	11 44.23	−10 32.9	2.244	3.133	9.4	20.4
3 2	11 37.97	− 9 59.0	2.197	3.144	6.4	20.2
3 12	11 30.93	− 9 10.1	2.177	3.154	3.9	20.0
3 22	11 23.86	− 8 10.6	2.185	3.164	4.0	20.1
4 1	11 17.51	− 7 6.0	2.222	3.175	6.5	20.2
4 11	11 12.52	− 6 2.6	2.286	3.185	9.4	20.4
4 21	11 9.29	− 5 5.3	2.374	3.195	12.1	20.6

212996 3226 $T\text{-}_{2}$ 3 12.4 182°.83 1°.7/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.67	+ 5 52.9	2.043	2.905	11.3	21.3
2 21	11 48.30	+ 6 44.0	1.973	2.906	7.8	21.0
3 2	11 40.16	+ 7 42.1	1.929	2.906	4.0	20.8
3 12	11 31.02	+ 8 40.9	1.915	2.906	1.8	20.7
3 22	11 21.81	+ 9 34.1	1.931	2.905	5.1	20.9
4 1	11 13.47	+10 16.3	1.975	2.903	8.9	21.1
4 11	11 6.79	+10 43.9	2.044	2.900	12.3	21.3
4 21	11 2.24	+10 55.7	2.134	2.897	15.1	21.5

281024 2006 FH_{53} 3 12.4 200°.24 1°.3/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.42	+ 5 16.1	2.196	3.060	10.6	21.0
2 21	11 45.95	+ 5 57.8	2.124	3.058	7.3	20.8
3 2	11 38.90	+ 6 46.3	2.079	3.056	3.7	20.6
3 12	11 30.97	+ 7 36.2	2.062	3.054	1.4	20.4
3 22	11 22.97	+ 8 22.1	2.075	3.052	4.5	20.6
4 1	11 15.73	+ 8 59.2	2.117	3.049	8.1	20.8
4 11	11 9.94	+ 9 23.9	2.183	3.047	11.3	21.0
4 21	11 6.06	+ 9 34.8	2.271	3.044	14.0	21.2

369019 2007 TE_{198} 3 12.4 52°.02 1°.0/13.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.14	− 1 7.9	1.339	2.204	15.9	20.8
2 21	11 48.45	− 0 46.7	1.285	2.216	11.4	20.6
3 2	11 40.38	− 0 8.7	1.254	2.228	6.2	20.3
3 12	11 31.04	+ 0 40.0	1.248	2.241	1.2	20.0
3 22	11 21.75	+ 1 31.6	1.268	2.254	4.9	20.3
4 1	11 13.82	+ 2 17.9	1.314	2.267	10.0	20.6
4 11	11 8.24	+ 2 52.3	1.383	2.281	14.4	20.9
4 21	11 5.47	+ 3 11.4	1.471	2.295	18.0	21.2

99697 2002 JX_{31} 3 12.4 37°.68 2°.0/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.36	+ 5 10.1	1.244	2.128	15.5	19.2
2 21	11 48.02	+ 5 57.5	1.194	2.137	10.7	18.9
3 2	11 40.19	+ 6 55.4	1.167	2.147	5.5	18.6
3 12	11 31.04	+ 7 54.7	1.166	2.157	2.1	18.4
3 22	11 21.96	+ 8 46.0	1.189	2.168	6.6	18.8
4 1	11 14.32	+ 9 21.7	1.237	2.180	11.6	19.1
4 11	11 9.14	+ 9 37.7	1.306	2.192	15.9	19.4
4 21	11 6.87	+ 9 33.3	1.394	2.204	19.5	19.6

503202 2015 HM_{18} 3 12.4 294°.48 1°.5/14.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.26	− 4 48.7	2.198	3.036	11.6	20.8
2 21	11 43.77	− 4 2.9	2.119	3.034	8.5	20.6
3 2	11 37.78	− 3 1.5	2.065	3.032	5.0	20.4
3 12	11 30.94	− 1 49.1	2.040	3.031	1.7	20.2
3 22	11 24.01	− 0 31.5	2.044	3.029	3.4	20.3
4 1	11 17.77	+ 0 44.7	2.077	3.028	7.0	20.5
4 11	11 12.91	+ 1 53.4	2.136	3.026	10.4	20.7
4 21	11 9.85	+ 2 50.2	2.218	3.025	13.3	20.9

495208 2013 CC_{120} 3 12.4 44°.36 7°.9/ 6.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.42	+17 36.3	1.177	2.071	15.4	21.0
2 21	11 49.58	+19 5.2	1.139	2.080	11.3	20.8
3 2	11 41.02	+20 27.8	1.124	2.090	8.3	20.6
3 12	11 31.07	+21 30.9	1.133	2.100	8.5	20.7
3 22	11 21.31	+22 5.1	1.166	2.111	11.6	20.9
4 1	11 13.24	+22 6.7	1.221	2.122	15.4	21.1
4 11	11 7.92	+21 37.5	1.295	2.133	19.0	21.4
4 21	11 5.75	+20 42.7	1.384	2.145	22.0	21.6

302330 2002 AM_{89} 3 12.4 3°.44 1°.9/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.03	− 3 49.5	1.231	2.097	16.9	19.9
2 21	11 46.57	− 3 21.1	1.167	2.096	12.4	19.6
3 2	11 39.55	− 2 29.6	1.124	2.096	7.2	19.3
3 12	11 31.02	− 1 21.2	1.105	2.096	2.2	19.0
3 22	11 22.35	− 0 5.0	1.110	2.098	5.1	19.2
4 1	11 14.95	+ 1 8.0	1.141	2.099	10.5	19.5
4 11	11 9.95	+ 2 8.4	1.193	2.102	15.4	19.7
4 21	11 7.92	+ 2 50.5	1.264	2.105	19.5	20.0

435964 2009 DK_{57} 3 12.4 184°.19 0°.4/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.12	+ 3 25.7	2.522	3.375	9.8	21.2
2 21	11 46.27	+ 3 43.6	2.447	3.375	6.8	21.0
3 2	11 39.03	+ 4 7.7	2.399	3.374	3.5	20.8
3 12	11 31.01	+ 4 34.6	2.381	3.374	0.4	20.5
3 22	11 22.93	+ 5 0.3	2.393	3.373	3.5	20.8
4 1	11 15.53	+ 5 21.2	2.434	3.373	6.9	21.0
4 11	11 9.42	+ 5 34.3	2.502	3.371	9.8	21.2
4 21	11 5.02	+ 5 37.9	2.593	3.370	12.4	21.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
369600 2011 CC_{35}			3 12.4	71°.14	5°.4/16.8	18
	h m	° ′			°	m
2 11	11 55.83	−11 24.9	1.787	2.595	15.1	20.2
2 21	11 49.37	−12 1.5	1.717	2.603	11.9	20.0
3 2	11 40.83	−12 18.0	1.669	2.611	8.5	19.8
3 12	11 31.08	−12 14.6	1.648	2.618	5.9	19.6
3 22	11 21.22	−11 54.0	1.654	2.626	5.9	19.7
4 1	11 12.37	−11 21.7	1.686	2.634	8.6	19.8
4 11	11 5.44	−10 44.7	1.745	2.642	11.9	20.0
4 21	11 0.97	−10 9.4	1.824	2.650	15.0	20.3
199631 Giuseppesprizzi			3 12.4	107°.54	1°.2/13.7	18
2 11	11 51.74	− 2 38.5	2.036	2.880	12.1	20.4
2 21	11 46.23	− 2 12.6	1.969	2.889	8.8	20.2
3 2	11 39.07	− 1 33.5	1.927	2.897	5.0	20.0
3 12	11 31.02	− 0 45.4	1.914	2.906	1.4	19.7
3 22	11 22.95	+ 0 6.4	1.929	2.914	3.6	19.9
4 1	11 15.73	+ 0 56.1	1.973	2.922	7.4	20.1
4 11	11 10.08	+ 1 38.4	2.042	2.930	10.9	20.4
4 21	11 6.45	+ 2 9.9	2.134	2.938	13.8	20.6
468238 2015 BJ_{238}			3 12.4	151°.14	1°.7/14.2	17
2 11	11 50.92	− 4 45.0	2.011	2.849	12.5	21.6
2 21	11 45.72	− 4 8.8	1.938	2.852	9.2	21.4
3 2	11 38.84	− 3 16.6	1.889	2.856	5.4	21.2
3 12	11 31.02	− 2 12.8	1.868	2.859	1.9	21.0
3 22	11 23.12	− 1 3.2	1.876	2.862	3.7	21.1
4 1	11 16.04	+ 0 5.1	1.913	2.864	7.5	21.3
4 11	11 10.52	+ 1 6.1	1.976	2.867	11.1	21.6
4 21	11 7.03	+ 1 55.1	2.061	2.869	14.1	21.8
133894 2004 RZ_{25}			3 12.4	108°.88	1°.1/11.6	18
2 11	11 58.32	+ 4 41.5	1.494	2.361	14.4	20.4
2 21	11 51.23	+ 5 2.0	1.437	2.371	10.0	20.2
3 2	11 41.81	+ 5 31.0	1.404	2.381	5.2	19.9
3 12	11 31.14	+ 6 2.3	1.398	2.391	1.1	19.7
3 22	11 20.53	+ 6 29.4	1.420	2.401	5.5	20.0
4 1	11 11.25	+ 6 46.6	1.469	2.410	10.2	20.3
4 11	11 4.29	+ 6 50.5	1.541	2.419	14.4	20.6
4 21	11 0.13	+ 6 39.9	1.632	2.428	17.7	20.8
68662 2002 CP_{94}			3 12.4	214°.55	1°.6/10.7	18
2 11	11 52.03	+ 5 37.7	2.067	2.933	11.1	19.9
2 21	11 46.49	+ 6 25.5	1.994	2.929	7.7	19.7
3 2	11 39.25	+ 7 20.5	1.947	2.924	3.9	19.4
3 12	11 31.04	+ 8 16.9	1.929	2.920	1.7	19.3
3 22	11 22.72	+ 9 8.5	1.940	2.915	4.9	19.5
4 1	11 15.21	+ 9 49.9	1.979	2.910	8.7	19.7
4 11	11 9.25	+10 17.4	2.043	2.905	12.0	19.9
4 21	11 5.32	+10 29.4	2.127	2.899	14.9	20.1
381207 2007 RF_{110}			3 12.4	115°.77	0°.8/11.6	17
2 11	11 52.04	+ 4 5.3	2.337	3.194	10.3	21.7
2 21	11 46.23	+ 4 37.0	2.275	3.206	7.1	21.5
3 2	11 39.00	+ 5 15.1	2.241	3.218	3.6	21.3
3 12	11 31.03	+ 5 55.0	2.236	3.229	0.8	21.1
3 22	11 23.08	+ 6 32.3	2.261	3.240	3.9	21.4
4 1	11 15.92	+ 7 2.6	2.315	3.251	7.3	21.6
4 11	11 10.17	+ 7 22.9	2.395	3.262	10.3	21.8
4 21	11 6.21	+ 7 31.8	2.498	3.273	12.8	22.0
187341 2005 UT_{141}			3 12.4	172°.75	1°.9/10.3	18
2 11	11 52.41	+ 6 28.7	2.290	3.152	10.2	21.0
2 21	11 46.59	+ 7 26.8	2.222	3.156	7.0	20.8
3 2	11 39.24	+ 8 30.7	2.182	3.158	3.7	20.6
3 12	11 31.05	+ 9 34.6	2.171	3.161	2.0	20.5
3 22	11 22.82	+10 32.6	2.191	3.162	4.8	20.7
4 1	11 15.34	+11 19.7	2.239	3.163	8.2	20.9
4 11	11 9.31	+11 52.6	2.313	3.164	11.2	21.1
4 21	11 5.14	+12 10.3	2.409	3.163	13.8	21.3
499425 2010 CL_{116}			3 12.4	32°.19	2°.6/ 9.6	17
2 11	11 49.80	+ 7 28.2	1.919	2.794	11.3	21.5
2 21	11 44.99	+ 8 37.6	1.856	2.796	7.8	21.3
3 2	11 38.48	+ 9 53.3	1.820	2.798	4.1	21.1
3 12	11 31.03	+11 7.8	1.812	2.800	2.8	21.0
3 22	11 23.53	+12 14.0	1.832	2.802	5.8	21.2
4 1	11 16.89	+13 5.8	1.880	2.804	9.5	21.4
4 11	11 11.87	+13 39.5	1.951	2.806	12.8	21.6
4 21	11 8.91	+13 54.5	2.042	2.809	15.6	21.8
128128 2003 QO_{40}			3 12.4	200°.14	1°.8/14.9	18
2 11	11 49.28	− 5 31.9	3.102	3.920	9.1	20.5
2 21	11 44.15	− 5 22.7	3.015	3.917	6.7	20.4
3 2	11 37.90	− 5 3.4	2.955	3.914	4.2	20.2
3 12	11 31.01	− 4 35.9	2.924	3.911	2.0	20.0
3 22	11 24.03	− 4 3.2	2.924	3.907	2.8	20.1
4 1	11 17.55	− 3 28.5	2.954	3.903	5.3	20.2
4 11	11 12.06	− 2 55.4	3.012	3.899	7.8	20.4
4 21	11 7.93	− 2 27.0	3.095	3.894	10.1	20.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
299338 2005 RN_{42}			3 12.4	206°.51	1°.2/10.7	17
	h m	° ′			°	m
2 11	11 49.01	+ 5 37.9	2.979	3.837	8.3	21.7
2 21	11 44.00	+ 6 23.6	2.900	3.832	5.7	21.5
3 2	11 37.83	+ 7 14.2	2.849	3.826	2.9	21.3
3 12	11 31.01	+ 8 5.9	2.829	3.820	1.2	21.1
3 22	11 24.11	+ 8 54.4	2.839	3.813	3.6	21.3
4 1	11 17.73	+ 9 35.9	2.879	3.806	6.4	21.5
4 11	11 12.39	+10 7.6	2.946	3.799	9.0	21.7
4 21	11 8.45	+10 28.0	3.036	3.791	11.2	21.8
380915 2006 EW_{40}			3 12.4	198°.59	0°.7/11.7	18
2 11	11 51.55	+ 3 0.4	2.158	3.017	10.9	21.6
2 21	11 46.09	+ 3 39.3	2.085	3.015	7.6	21.3
3 2	11 39.03	+ 4 26.8	2.037	3.014	3.9	21.1
3 12	11 31.06	+ 5 18.0	2.018	3.012	0.7	20.8
3 22	11 23.00	+ 6 7.4	2.029	3.009	4.1	21.1
4 1	11 15.70	+ 6 49.7	2.068	3.007	7.9	21.3
4 11	11 9.89	+ 7 20.9	2.133	3.004	11.2	21.5
4 21	11 6.00	+ 7 38.9	2.219	3.001	14.1	21.7
305423 2008 CJ_{134}			3 12.4	215°.67	1°.5/14.4	17
2 11	11 49.50	− 4 25.8	2.771	3.598	9.8	21.4
2 21	11 44.43	− 4 6.0	2.684	3.593	7.2	21.2
3 2	11 38.09	− 3 34.9	2.623	3.587	4.3	21.1
3 12	11 31.02	− 2 55.3	2.591	3.581	1.7	20.9
3 22	11 23.85	− 2 10.8	2.590	3.574	2.9	20.9
4 1	11 17.22	− 1 25.6	2.618	3.567	5.9	21.1
4 11	11 11.70	− 0 43.9	2.674	3.560	8.7	21.3
4 21	11 7.69	− 0 9.0	2.754	3.553	11.2	21.4
385071 2012 UN_{74}			3 12.4	138°.42	1°.8/14.4	17
2 11	11 52.07	− 4 1.2	2.374	3.206	11.1	21.3
2 21	11 46.32	− 3 56.0	2.299	3.210	8.1	21.1
3 2	11 39.11	− 3 39.1	2.250	3.215	4.9	20.9
3 12	11 31.08	− 3 13.0	2.230	3.219	2.0	20.7
3 22	11 22.98	− 2 41.4	2.239	3.223	3.3	20.8
4 1	11 15.60	− 2 8.7	2.278	3.228	6.6	21.0
4 11	11 9.59	− 1 39.3	2.343	3.231	9.7	21.2
4 21	11 5.37	− 1 16.5	2.432	3.235	12.4	21.4
288693 2004 QT_{1}			3 12.4	177°.58	3°.7/16.5	17
2 11	11 53.26	−10 36.8	2.446	3.244	11.8	21.5
2 21	11 47.19	−10 36.9	2.362	3.246	9.2	21.3
3 2	11 39.59	−10 21.0	2.303	3.247	6.3	21.2
3 12	11 31.10	− 9 50.6	2.273	3.248	4.0	21.0
3 22	11 22.50	− 9 8.9	2.272	3.249	4.2	21.0
4 1	11 14.58	− 8 20.7	2.301	3.248	6.6	21.2
4 11	11 8.03	− 7 31.4	2.356	3.248	9.5	21.3
4 21	11 3.30	− 6 46.0	2.436	3.246	12.1	21.5
413906 2006 WF_{27}			3 12.4	119°.19	2°.1/10.7	18
2 11	11 58.59	+ 8 36.0	1.926	2.789	11.9	21.1
2 21	11 50.99	+ 8 55.7	1.870	2.803	8.2	20.9
3 2	11 41.55	+ 9 18.2	1.841	2.817	4.3	20.7
3 12	11 31.18	+ 9 38.2	1.841	2.830	2.2	20.5
3 22	11 20.92	+ 9 51.0	1.870	2.843	5.3	20.8
4 1	11 11.77	+ 9 53.2	1.928	2.856	9.1	21.0
4 11	11 4.54	+ 9 43.1	2.011	2.868	12.4	21.2
4 21	10 59.63	+ 9 20.7	2.115	2.880	15.2	21.5
424197 2007 LG_{32}			3 12.4	296°.51	8°.7/ 3.4	18
2 11	11 54.78	+25 55.2	1.821	2.692	12.0	20.4
2 21	11 48.70	+27 15.3	1.769	2.685	9.8	20.2
3 2	11 40.51	+28 23.9	1.742	2.677	8.7	20.1
3 12	11 31.14	+29 11.7	1.740	2.670	9.3	20.2
3 22	11 21.74	+29 32.4	1.764	2.662	11.4	20.3
4 1	11 13.47	+29 23.8	1.811	2.655	14.0	20.4
4 11	11 7.23	+28 47.4	1.878	2.648	16.5	20.6
4 21	11 3.52	+27 47.6	1.961	2.641	18.7	20.7
513046 2017 VR_{7}			3 12.4	211°.12	1°.3/14.0	17
2 11	11 49.69	− 3 27.4	2.676	3.508	9.9	22.1
2 21	11 44.59	− 3 3.8	2.591	3.504	7.2	21.9
3 2	11 38.19	− 2 29.1	2.532	3.499	4.2	21.7
3 12	11 31.05	− 1 46.4	2.503	3.494	1.5	21.5
3 22	11 23.81	− 0 59.5	2.504	3.488	3.0	21.6
4 1	11 17.13	− 0 12.8	2.534	3.483	6.1	21.8
4 11	11 11.61	+ 0 29.3	2.592	3.477	9.0	22.0
4 21	11 7.65	+ 1 3.7	2.674	3.470	11.5	22.1
127789 2003 FR_{66}			3 12.4	239°.48	3°.1/ 9.6	18
2 11	11 53.72	+ 7 23.0	1.619	2.494	13.0	20.3
2 21	11 48.14	+ 8 40.6	1.545	2.484	9.0	20.0
3 2	11 40.32	+10 7.6	1.496	2.473	4.9	19.8
3 12	11 31.14	+11 34.8	1.474	2.462	3.3	19.6
3 22	11 21.73	+12 52.4	1.481	2.450	7.0	19.8
4 1	11 13.30	+13 52.5	1.514	2.438	11.4	20.0
4 11	11 6.87	+14 30.4	1.569	2.425	15.4	20.2
4 21	11 3.03	+14 45.0	1.644	2.412	18.7	20.4

498810 2008 US_{323} 3 12.4 195°.61 3°.1/ 8.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 53.88	+13 20.1	2.818	3.680	8.5	22.6
2 21	11 47.42	+14 2.5	2.746	3.677	6.0	22.4
3 2	11 39.64	+14 44.6	2.703	3.673	3.7	22.2
3 12	11 31.12	+15 21.7	2.690	3.668	3.2	22.2
3 22	11 22.54	+15 49.9	2.709	3.663	5.2	22.3
4 1	11 14.61	+16 6.1	2.756	3.656	7.8	22.5
4 11	11 7.92	+16 8.9	2.829	3.649	10.3	22.6
4 21	11 2.87	+15 58.5	2.925	3.642	12.4	22.8

127284 2002 JF_{70} 3 12.4 297°.20 3°.3/ 8.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.97	+ 8 39.8	1.793	2.672	11.7	19.4
2 21	11 45.39	+ 9 56.5	1.713	2.654	8.2	19.2
3 2	11 38.84	+11 21.1	1.658	2.635	4.6	18.9
3 12	11 31.09	+12 45.0	1.632	2.617	3.6	18.8
3 22	11 23.09	+13 59.6	1.633	2.598	6.8	18.9
4 1	11 15.88	+14 57.7	1.660	2.580	10.8	19.1
4 11	11 10.39	+15 34.8	1.710	2.562	14.5	19.3
4 21	11 7.17	+15 49.7	1.780	2.544	17.6	19.5

227643 2006 BO_{107} 3 12.4 121°.27 1°.3/11.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.73	+ 4 25.8	1.958	2.823	11.6	20.6
2 21	11 46.29	+ 5 17.1	1.895	2.829	8.0	20.4
3 2	11 39.15	+ 6 16.6	1.858	2.835	4.1	20.2
3 12	11 31.10	+ 7 18.2	1.849	2.841	1.4	20.0
3 22	11 23.02	+ 8 15.2	1.870	2.847	4.8	20.2
4 1	11 15.83	+ 9 1.9	1.918	2.853	8.6	20.5
4 11	11 10.27	+ 9 34.4	1.991	2.858	12.1	20.7
4 21	11 6.78	+ 9 51.1	2.084	2.863	14.9	20.9

271057 2003 GH_{34} 3 12.4 294°.51 3°.0/ 9.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.75	+ 6 2.3	1.715	2.594	12.2	20.1
2 21	11 44.59	+ 7 49.4	1.636	2.577	8.4	19.8
3 2	11 38.45	+ 9 49.2	1.582	2.560	4.5	19.5
3 12	11 31.08	+11 51.9	1.557	2.544	3.3	19.4
3 22	11 23.45	+13 46.5	1.560	2.527	6.9	19.6
4 1	11 16.63	+15 23.1	1.590	2.511	11.1	19.8
4 11	11 11.54	+16 35.5	1.643	2.495	15.0	20.0
4 21	11 8.77	+17 21.6	1.715	2.479	18.2	20.2

298915 2004 TD_{103} 3 12.4 133°.27 0°.8/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.17	− 1 40.1	1.732	2.581	13.7	21.3
2 21	11 48.84	− 1 0.8	1.670	2.593	9.8	21.1
3 2	11 40.53	− 0 6.6	1.633	2.605	5.3	20.9
3 12	11 31.16	+ 0 56.7	1.623	2.616	0.9	20.6
3 22	11 21.80	+ 2 2.0	1.643	2.627	4.3	20.9
4 1	11 13.52	+ 3 2.1	1.690	2.637	8.7	21.1
4 11	11 7.17	+ 3 50.8	1.762	2.646	12.5	21.4
4 21	11 3.22	+ 4 24.8	1.856	2.655	15.8	21.6

136031 2002 VK_{109} 3 12.4 141°.74 3°.5/ 8.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.28	+13 29.4	2.366	3.237	9.6	20.0
2 21	11 46.45	+14 17.5	2.308	3.242	6.8	19.8
3 2	11 39.16	+15 5.2	2.277	3.248	4.2	19.6
3 12	11 31.11	+15 46.7	2.275	3.253	3.8	19.6
3 22	11 23.07	+16 17.4	2.303	3.258	6.0	19.7
4 1	11 15.81	+16 33.9	2.358	3.262	8.8	19.9
4 11	11 9.99	+16 35.0	2.438	3.267	11.5	20.1
4 21	11 6.00	+16 21.0	2.539	3.271	13.7	20.3

506268 2016 QH_{65} 3 12.4 296°.87 3°.8/16.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.96	− 8 57.8	2.180	2.994	12.5	21.1
2 21	11 46.54	− 9 14.1	2.087	2.981	9.7	20.9
3 2	11 39.37	− 9 14.8	2.017	2.967	6.6	20.7
3 12	11 31.13	− 9 0.7	1.976	2.954	4.1	20.5
3 22	11 22.63	− 8 34.9	1.962	2.940	4.5	20.5
4 1	11 14.78	− 8 1.5	1.977	2.927	7.3	20.6
4 11	11 8.38	− 7 26.3	2.017	2.914	10.6	20.8
4 21	11 3.97	− 6 54.1	2.081	2.901	13.6	21.0

13768 1998 SS_{143} 3 12.4 84°.26 0°.5/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.02	− 0 31.7	2.004	2.856	11.9	19.2
2 21	11 45.79	+ 0 1.0	1.936	2.862	8.5	19.0
3 2	11 38.90	+ 0 45.6	1.894	2.867	4.6	18.8
3 12	11 31.10	+ 1 37.4	1.879	2.873	0.6	18.5
3 22	11 23.26	+ 2 30.7	1.894	2.878	3.8	18.7
4 1	11 16.27	+ 3 19.5	1.937	2.884	7.7	19.0
4 11	11 10.84	+ 3 59.0	2.005	2.890	11.2	19.2
4 21	11 7.43	+ 4 26.1	2.095	2.895	14.2	19.4

424316 2007 TN_{414} 3 12.4 152°.93 5°.6/ 5.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.43	+20 29.2	2.441	3.312	9.3	21.1
2 21	11 45.88	+21 45.8	2.392	3.317	7.1	20.9
3 2	11 38.87	+22 57.1	2.371	3.322	5.7	20.8
3 12	11 31.10	+23 56.3	2.378	3.326	6.0	20.9
3 22	11 23.34	+24 38.5	2.413	3.331	7.9	21.0
4 1	11 16.35	+25 0.8	2.475	3.334	10.2	21.1
4 11	11 10.79	+25 2.9	2.559	3.338	12.4	21.3
4 21	11 7.04	+24 46.5	2.663	3.341	14.3	21.5

374164 2004 VD_{29} 3 12.4 90°.48 4°.0/ 8.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 53.16	+12 41.3	1.889	2.766	11.4	20.5
2 21	11 47.36	+13 35.6	1.831	2.768	8.0	20.3
3 2	11 39.75	+14 30.4	1.798	2.771	4.9	20.1
3 12	11 31.15	+15 18.6	1.793	2.773	4.3	20.1
3 22	11 22.54	+15 54.0	1.817	2.775	6.9	20.2
4 1	11 14.90	+16 12.2	1.866	2.778	10.3	20.4
4 11	11 9.03	+16 11.8	1.940	2.780	13.5	20.6
4 21	11 5.38	+15 53.4	2.032	2.782	16.2	20.8

313622 2003 QJ_{111} 3 12.4 145°.36 2°.3/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.39	+ 7 44.2	2.025	2.887	11.4	21.5
2 21	11 49.45	+ 8 33.1	1.967	2.900	7.8	21.3
3 2	11 40.78	+ 9 26.5	1.936	2.912	4.1	21.1
3 12	11 31.19	+10 18.0	1.934	2.923	2.4	21.0
3 22	11 21.65	+11 1.7	1.963	2.933	5.4	21.2
4 1	11 13.11	+11 33.0	2.019	2.943	9.0	21.5
4 11	11 6.31	+11 49.2	2.101	2.951	12.2	21.7
4 21	11 1.68	+11 50.0	2.204	2.959	14.9	21.9

16717 1995 UJ_{8} 3 12.4 92°.76 3°.8/17.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.41	−12 50.2	2.460	3.253	11.9	18.8
2 21	11 44.42	−12 30.4	2.391	3.269	9.3	18.7
3 2	11 38.10	−11 52.7	2.346	3.285	6.6	18.5
3 12	11 31.08	−10 59.6	2.329	3.301	4.3	18.4
3 22	11 24.05	− 9 55.1	2.341	3.317	4.1	18.4
4 1	11 17.74	− 8 44.9	2.382	3.332	6.3	18.6
4 11	11 12.72	− 7 35.0	2.450	3.348	8.9	18.8
4 21	11 9.38	− 6 30.6	2.542	3.363	11.4	19.0

128 Nemesis 3 12.4 141°.27 3°.0/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.80	+10 22.0	2.146	3.016	10.5	12.2
2 21	11 46.92	+11 18.2	2.087	3.024	7.3	12.0
3 2	11 39.45	+12 16.7	2.056	3.031	4.1	11.8
3 12	11 31.14	+13 11.2	2.054	3.038	3.2	11.8
3 22	11 22.84	+13 55.9	2.081	3.045	5.8	12.0
4 1	11 15.40	+14 26.6	2.136	3.051	9.0	12.2
4 11	11 9.52	+14 41.1	2.216	3.057	12.0	12.4
4 21	11 5.62	+14 39.3	2.316	3.062	14.5	12.6

468748 2011 AG_{69} 3 12.4 16°.18 4°.5/15.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.92	− 6 47.2	1.357	2.204	16.9	20.3
2 21	11 48.46	− 7 25.0	1.296	2.209	12.8	20.0
3 2	11 40.53	− 7 42.4	1.256	2.216	8.5	19.8
3 12	11 31.20	− 7 40.8	1.240	2.223	4.9	19.6
3 22	11 21.78	− 7 24.0	1.250	2.232	5.7	19.7
4 1	11 13.61	− 6 58.8	1.284	2.242	9.7	19.9
4 11	11 7.78	− 6 32.6	1.342	2.252	13.8	20.2
4 21	11 4.81	− 6 11.9	1.419	2.264	17.5	20.5

268384 2005 UJ_{57} 3 12.4 87°.03 4°.3/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.62	+13 2.0	1.780	2.657	11.9	20.4
2 21	11 48.35	+14 2.0	1.735	2.673	8.4	20.2
3 2	11 40.23	+15 1.3	1.717	2.689	5.2	20.1
3 12	11 31.19	+15 52.4	1.726	2.704	4.6	20.0
3 22	11 22.27	+16 28.7	1.763	2.720	7.3	20.2
4 1	11 14.51	+16 46.5	1.826	2.735	10.6	20.5
4 11	11 8.66	+16 44.7	1.912	2.750	13.8	20.7
4 21	11 5.12	+16 24.7	2.018	2.765	16.4	20.9

251603 2009 HO_{83} 3 12.4 281°.18 1°.2/13.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.96	− 3 21.5	1.585	2.439	14.4	20.8
2 21	11 46.26	− 2 33.3	1.503	2.428	10.5	20.6
3 2	11 39.38	− 1 25.0	1.445	2.417	5.9	20.3
3 12	11 31.16	− 0 2.1	1.414	2.407	1.4	19.9
3 22	11 22.68	+ 1 27.0	1.410	2.396	4.5	20.1
4 1	11 15.13	+ 2 52.4	1.432	2.385	9.4	20.4
4 11	11 9.50	+ 4 5.7	1.479	2.374	13.8	20.6
4 21	11 6.39	+ 5 1.2	1.546	2.363	17.6	20.8

343606 2010 GF_{114} 3 12.4 242°.97 3°.9/17.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.73	−12 19.9	2.255	3.056	12.6	21.3
2 21	11 44.15	−11 54.6	2.170	3.054	9.9	21.1
3 2	11 38.06	−11 9.4	2.109	3.053	6.9	21.0
3 12	11 31.10	−10 6.6	2.075	3.051	4.3	20.8
3 22	11 24.02	− 8 51.0	2.070	3.049	4.3	20.8
4 1	11 17.62	− 7 28.9	2.094	3.047	6.8	20.9
4 11	11 12.59	− 6 7.4	2.144	3.045	9.9	21.1
4 21	11 9.37	− 4 52.7	2.218	3.043	12.7	21.3

97107 1999 VC_{74} 3 12.4 253°.74 1°.4/13.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.83	− 3 31.0	1.966	2.810	12.5	20.5
2 21	11 45.76	− 3 1.4	1.888	2.807	9.1	20.2
3 2	11 38.96	− 2 16.8	1.835	2.804	5.3	20.0
3 12	11 31.14	− 1 21.1	1.810	2.801	1.7	19.7
3 22	11 23.20	− 0 20.3	1.813	2.798	3.8	19.9
4 1	11 16.05	+ 0 39.3	1.844	2.795	7.7	20.1
4 11	11 10.48	+ 1 31.4	1.901	2.792	11.4	20.3
4 21	11 6.98	+ 2 11.9	1.979	2.789	14.6	20.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
500989 2013 RM_{11}			3 12.4 217°.47		0°.1/12.6 17	
	h m	° ′			°	m
2 11	11 53.81	+ 0 51.2	2.393	3.238	10.5	23.8
2 21	11 47.64	+ 1 20.6	2.305	3.228	7.5	23.6
3 2	11 39.89	+ 1 59.5	2.243	3.217	4.0	23.4
3 12	11 31.19	+ 2 44.0	2.212	3.205	0.2	23.0
3 22	11 22.31	+ 3 29.5	2.210	3.193	3.6	23.3
4 1	11 14.09	+ 4 11.0	2.239	3.180	7.2	23.5
4 11	11 7.23	+ 4 44.4	2.294	3.166	10.5	23.7
4 21	11 2.22	+ 5 7.0	2.373	3.151	13.3	23.8
46133 2001 FT_{50}			3 12.4 138°.17		0°.2/12.2 18	
2 11	11 55.62	+ 2 11.5	1.703	2.563	13.3	19.6
2 21	11 49.24	+ 2 35.1	1.638	2.568	9.4	19.3
3 2	11 40.80	+ 3 9.4	1.597	2.573	4.9	19.1
3 12	11 31.22	+ 3 48.8	1.584	2.578	0.3	18.7
3 22	11 21.60	+ 4 27.3	1.600	2.582	4.6	19.1
4 1	11 13.05	+ 4 59.0	1.642	2.587	9.1	19.4
4 11	11 6.46	+ 5 19.4	1.710	2.591	13.0	19.6
4 21	11 2.34	+ 5 26.2	1.797	2.594	16.3	19.8
338952 2004 EL_{88}			3 12.4 34°.46		0°.7/13.1 17	
2 11	11 54.48	+ 0 53.8	1.845	2.700	12.7	20.6
2 21	11 48.28	+ 0 47.0	1.782	2.708	9.0	20.4
3 2	11 40.24	+ 0 49.9	1.744	2.717	4.9	20.2
3 12	11 31.20	+ 0 59.0	1.734	2.727	0.9	19.9
3 22	11 22.16	+ 1 10.3	1.752	2.737	4.0	20.2
4 1	11 14.12	+ 1 19.5	1.798	2.747	8.1	20.4
4 11	11 7.89	+ 1 22.8	1.869	2.757	11.7	20.7
4 21	11 3.91	+ 1 17.8	1.962	2.768	14.8	20.9
83535 2001 SX_{162}			3 12.5 173°.60		1°.7/14.5 18	
2 11	11 48.97	− 5 25.5	2.441	3.271	10.8	19.9
2 21	11 44.18	− 4 48.3	2.362	3.272	8.0	19.7
3 2	11 38.03	− 3 57.1	2.309	3.273	4.8	19.5
3 12	11 31.11	− 2 55.6	2.284	3.274	1.9	19.3
3 22	11 24.11	− 1 48.6	2.290	3.274	3.2	19.4
4 1	11 17.76	− 0 41.8	2.324	3.275	6.4	19.6
4 11	11 12.66	+ 0 19.5	2.386	3.275	9.5	19.8
4 21	11 9.22	+ 1 11.3	2.471	3.275	12.2	20.0
522642 2016 GT_{261}			3 12.5 248°.36		2°.1/10.1 17	
2 11	11 51.73	+ 7 12.3	2.167	3.034	10.5	22.2
2 21	11 46.34	+ 8 7.2	2.085	3.021	7.3	21.9
3 2	11 39.25	+ 9 8.5	2.030	3.007	3.9	21.7
3 12	11 31.17	+10 10.1	2.003	2.992	2.3	21.5
3 22	11 22.90	+11 5.8	2.006	2.977	5.2	21.7
4 1	11 15.33	+11 50.2	2.038	2.962	8.8	21.9
4 11	11 9.23	+12 19.6	2.094	2.947	12.1	22.1
4 21	11 5.10	+12 32.6	2.171	2.931	15.0	22.3
16872 1998 BZ			3 12.5 112°.33		4°.7/ 8.2 18	R
2 11	11 56.79	+13 1.2	1.696	2.571	12.5	17.9
2 21	11 49.91	+14 18.8	1.655	2.591	8.8	17.8
3 2	11 41.06	+15 35.8	1.640	2.611	5.5	17.6
3 12	11 31.24	+16 43.1	1.653	2.630	5.0	17.6
3 22	11 21.60	+17 33.3	1.694	2.648	7.8	17.8
4 1	11 13.21	+18 2.1	1.761	2.665	11.3	18.1
4 11	11 6.90	+18 8.7	1.851	2.682	14.5	18.3
4 21	11 3.07	+17 54.8	1.960	2.698	17.1	18.5
433795 2015 BW_{89}			3 12.5 175°.48		1°.9/10.3 17	
2 11	11 51.52	+ 6 40.1	2.207	3.073	10.4	21.2
2 21	11 46.06	+ 7 34.6	2.139	3.075	7.2	21.0
3 2	11 39.04	+ 8 35.0	2.099	3.076	3.7	20.8
3 12	11 31.17	+ 9 35.3	2.087	3.077	2.0	20.7
3 22	11 23.23	+10 29.6	2.105	3.077	4.9	20.9
4 1	11 16.07	+11 13.0	2.151	3.077	8.4	21.1
4 11	11 10.37	+11 42.2	2.222	3.077	11.5	21.3
4 21	11 6.55	+11 55.9	2.315	3.077	14.1	21.5
302011 2000 SN_{15}			3 12.5 228°.47		2°.3/15.4 17	
2 11	11 50.59	− 7 11.0	2.879	3.691	9.9	21.7
2 21	11 45.23	− 7 0.9	2.783	3.680	7.5	21.5
3 2	11 38.57	− 6 38.7	2.713	3.668	4.8	21.3
3 12	11 31.16	− 6 6.2	2.671	3.655	2.6	21.1
3 22	11 23.58	− 5 26.4	2.661	3.642	3.1	21.1
4 1	11 16.50	− 4 43.3	2.680	3.629	5.7	21.3
4 11	11 10.51	− 4 1.2	2.727	3.615	8.5	21.5
4 21	11 6.00	− 3 23.7	2.799	3.601	10.9	21.6
263711 2008 HQ_{34}			3 12.5 9°.73		0°.9/11.6 18	
2 11	11 48.32	+ 1 0.0	1.341	2.220	15.0	19.7
2 21	11 44.51	+ 2 14.0	1.281	2.221	10.4	19.4
3 2	11 38.46	+ 3 45.4	1.244	2.223	5.3	19.1
3 12	11 31.15	+ 5 24.9	1.233	2.226	1.0	18.8
3 22	11 23.76	+ 7 1.0	1.248	2.230	5.7	19.2
4 1	11 17.53	+ 8 23.3	1.288	2.235	10.8	19.5
4 11	11 13.41	+ 9 24.4	1.350	2.240	15.2	19.7
4 21	11 11.91	+10 1.4	1.430	2.246	18.8	20.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
147755 2005 OB_{22}			3 12.5 235°.84		1°.7/10.8 18	
	h m	° ′			°	m
2 11	11 52.09	+ 4 39.0	1.818	2.686	12.2	20.5
2 21	11 46.79	+ 5 38.4	1.744	2.680	8.5	20.2
3 2	11 39.56	+ 6 47.6	1.696	2.674	4.3	20.0
3 12	11 31.22	+ 7 59.7	1.676	2.668	1.7	19.8
3 22	11 22.72	+ 9 6.9	1.685	2.661	5.4	20.0
4 1	11 15.11	+10 2.5	1.720	2.654	9.5	20.2
4 11	11 9.23	+10 41.6	1.780	2.647	13.3	20.4
4 21	11 5.61	+11 2.2	1.860	2.640	16.4	20.6
503529 2016 FG_{20}			3 12.5 237°.20		1°.7/10.5 17	
2 11	11 52.70	+ 6 10.9	2.279	3.141	10.3	22.1
2 21	11 46.98	+ 7 2.6	2.193	3.126	7.2	21.9
3 2	11 39.60	+ 8 1.3	2.134	3.110	3.7	21.7
3 12	11 31.22	+ 9 1.3	2.104	3.094	1.8	21.5
3 22	11 22.65	+ 9 56.8	2.104	3.077	4.8	21.7
4 1	11 14.73	+10 42.4	2.133	3.059	8.4	21.9
4 11	11 8.22	+11 14.5	2.187	3.041	11.7	22.0
4 21	11 3.62	+11 31.3	2.263	3.022	14.5	22.2
495962 2007 RS_{6}			3 12.5 183°.33		1°.1/13.5 18	
2 11	11 53.35	− 3 16.2	1.761	2.607	13.6	21.9
2 21	11 47.69	− 2 27.8	1.687	2.608	9.9	21.7
3 2	11 40.04	− 1 21.9	1.637	2.608	5.5	21.4
3 12	11 31.24	− 0 4.0	1.615	2.608	1.3	21.1
3 22	11 22.31	+ 1 18.3	1.622	2.607	4.2	21.3
4 1	11 14.32	+ 2 36.5	1.656	2.605	8.6	21.6
4 11	11 8.15	+ 3 43.4	1.716	2.603	12.7	21.8
4 21	11 4.34	+ 4 34.6	1.797	2.601	16.0	22.0
505045 2011 RY_{15}			3 12.5 194°.21		2°.8/15.9 17	
2 11	11 48.84	− 8 48.1	2.402	3.217	11.5	21.6
2 21	11 44.15	− 8 21.8	2.319	3.217	8.7	21.5
3 2	11 38.05	− 7 39.4	2.262	3.216	5.7	21.3
3 12	11 31.15	− 6 43.5	2.233	3.216	3.1	21.1
3 22	11 24.16	− 5 38.8	2.232	3.215	3.5	21.1
4 1	11 17.80	− 4 30.7	2.261	3.214	6.4	21.3
4 11	11 12.72	− 3 25.3	2.317	3.213	9.4	21.5
4 21	11 9.34	− 2 27.3	2.397	3.212	12.1	21.7
15171 Xandertielens			3 12.5 228°.69		1°.7/11.0 18	
2 11	11 55.22	+ 4 39.2	1.651	2.518	13.2	19.0
2 21	11 49.18	+ 5 31.3	1.575	2.510	9.3	18.7
3 2	11 40.91	+ 6 34.1	1.523	2.501	4.8	18.4
3 12	11 31.29	+ 7 40.3	1.499	2.491	1.7	18.2
3 22	11 21.43	+ 8 41.7	1.503	2.481	5.7	18.4
4 1	11 12.57	+ 9 30.9	1.534	2.470	10.4	18.7
4 11	11 5.69	+10 3.1	1.589	2.458	14.5	18.9
4 21	11 1.41	+10 16.2	1.663	2.447	18.0	19.1
110831 2001 UO_{57}			3 12.5 281°.07		0°.1/12.6 17	
2 11	11 50.82	+ 0 44.0	2.223	3.075	10.9	20.6
2 21	11 45.74	+ 1 15.2	2.127	3.053	7.8	20.3
3 2	11 38.99	+ 1 57.2	2.057	3.031	4.2	20.0
3 12	11 31.20	+ 2 46.0	2.015	3.009	0.3	19.7
3 22	11 23.16	+ 3 36.3	2.003	2.987	3.8	19.9
4 1	11 15.72	+ 4 22.8	2.020	2.964	7.7	20.1
4 11	11 9.66	+ 5 0.6	2.063	2.941	11.2	20.3
4 21	11 5.49	+ 5 26.5	2.127	2.919	14.3	20.5
38743 2000 QB_{185}			3 12.5 142°.62		1°.4/11.2 18	
2 11	11 56.04	+ 4 26.5	1.787	2.649	12.7	20.5
2 21	11 49.43	+ 5 14.3	1.727	2.660	8.8	20.3
3 2	11 40.88	+ 6 10.6	1.693	2.670	4.5	20.1
3 12	11 31.29	+ 7 8.9	1.687	2.679	1.4	19.9
3 22	11 21.71	+ 8 2.0	1.710	2.688	5.1	20.1
4 1	11 13.21	+ 8 44.1	1.761	2.696	9.3	20.4
4 11	11 6.61	+ 9 11.1	1.837	2.704	13.0	20.6
4 21	11 2.39	+ 9 22.0	1.933	2.711	16.0	20.9
491702 2012 UH_{105}			3 12.5 113°.34		1°.4/14.0 17	
2 11	11 52.65	− 2 46.8	2.572	3.404	10.3	22.0
2 21	11 46.62	− 2 40.4	2.506	3.418	7.5	21.8
3 2	11 39.26	− 2 23.9	2.466	3.433	4.3	21.6
3 12	11 31.22	− 2 0.2	2.456	3.447	1.5	21.4
3 22	11 23.17	− 1 32.6	2.476	3.460	3.1	21.6
4 1	11 15.84	− 1 5.1	2.526	3.474	6.1	21.8
4 11	11 9.81	− 0 41.2	2.603	3.487	9.0	22.0
4 21	11 5.45	− 0 23.7	2.704	3.499	11.5	22.2
214761 2006 TN_{103}			3 12.5 171°.46		0°.0/12.5 17	
2 11	11 49.74	+ 0 57.9	2.605	3.454	9.6	21.3
2 21	11 44.65	+ 1 32.5	2.530	3.455	6.8	21.1
3 2	11 38.27	+ 2 15.5	2.483	3.457	3.6	20.9
3 12	11 31.17	+ 3 3.0	2.465	3.458	0.2	20.6
3 22	11 24.02	+ 3 50.7	2.477	3.459	3.2	20.9
4 1	11 17.49	+ 4 34.2	2.518	3.460	6.5	21.1
4 11	11 12.15	+ 5 9.8	2.586	3.461	9.4	21.3
4 21	11 8.39	+ 5 35.0	2.678	3.461	11.9	21.5

317167 2001 WP_{56} 3 12.5 247.°93 2.°0/10.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 51.25	+ 8 1.0	2.363	3.229	9.8	20.7
2 21	11 45.85	+ 8 39.6	2.287	3.222	6.8	20.4
3 2	11 38.95	+ 9 22.3	2.238	3.215	3.6	20.2
3 12	11 31.21	+10 4.2	2.219	3.207	2.1	20.1
3 22	11 23.36	+10 40.3	2.228	3.200	4.8	20.3
4 1	11 16.19	+11 6.7	2.266	3.192	8.0	20.5
4 11	11 10.38	+11 20.4	2.330	3.184	11.0	20.6
4 21	11 6.36	+11 20.7	2.415	3.176	13.6	20.8

495100 2011 UQ_{37} 3 12.5 163.°55 3.°6/15.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.64	− 9 9.5	1.795	2.614	14.6	22.1
2 21	11 48.58	− 8 52.6	1.720	2.619	11.1	21.9
3 2	11 40.51	− 8 14.6	1.669	2.624	7.3	21.6
3 12	11 31.28	− 7 18.6	1.645	2.628	4.0	21.4
3 22	11 21.93	− 6 10.3	1.648	2.631	4.6	21.5
4 1	11 13.55	− 4 57.3	1.680	2.633	8.2	21.7
4 11	11 7.03	− 3 47.9	1.738	2.635	12.0	21.9
4 21	11 2.89	− 2 48.1	1.818	2.637	15.3	22.1

269574 2009 WN_{182} 3 12.5 151.°98 3.°2/ 9.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.54	+10 41.0	1.983	2.856	11.1	20.4
2 21	11 47.59	+11 29.3	1.922	2.859	7.7	20.2
3 2	11 39.90	+12 19.9	1.886	2.861	4.4	19.9
3 12	11 31.25	+13 6.2	1.879	2.864	3.4	19.9
3 22	11 22.58	+13 42.4	1.901	2.866	6.1	20.1
4 1	11 14.83	+14 4.0	1.950	2.868	9.6	20.3
4 11	11 8.77	+14 9.1	2.023	2.870	12.8	20.5
4 21	11 4.85	+13 57.7	2.116	2.871	15.5	20.7

366453 2002 AU_{69} 3 12.5 95.°46 6.°2/18.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.67	−16 59.0	1.987	2.760	15.0	21.4
2 21	11 48.38	−17 11.8	1.924	2.782	12.2	21.3
3 2	11 40.30	−17 0.6	1.884	2.804	9.2	21.1
3 12	11 31.27	−16 26.5	1.870	2.825	6.8	21.0
3 22	11 22.26	−15 33.4	1.883	2.846	6.3	21.0
4 1	11 14.24	−14 27.5	1.924	2.867	8.1	21.2
4 11	11 7.99	−13 16.9	1.991	2.887	10.7	21.4
4 21	11 3.95	−12 8.9	2.080	2.906	13.4	21.6

183389 2002 XD_{63} 3 12.5 91.°37 4.°9/ 7.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.51	+17 52.6	2.246	3.118	10.0	20.3
2 21	11 47.33	+18 47.2	2.204	3.134	7.3	20.1
3 2	11 39.65	+19 37.1	2.189	3.151	5.3	20.0
3 12	11 31.24	+20 16.3	2.203	3.166	5.2	20.1
3 22	11 22.94	+20 40.1	2.245	3.182	7.2	20.2
4 1	11 15.59	+20 46.3	2.313	3.198	9.8	20.4
4 11	11 9.80	+20 34.6	2.405	3.213	12.2	20.6
4 21	11 5.96	+20 6.7	2.518	3.228	14.3	20.8

324515 2006 VS_{55} 3 12.5 36.°59 0.°2/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.87	+ 0 7.1	1.430	2.299	14.9	20.9
2 21	11 46.86	+ 0 45.3	1.373	2.307	10.5	20.7
3 2	11 39.65	+ 1 38.8	1.339	2.315	5.6	20.4
3 12	11 31.24	+ 2 40.8	1.331	2.325	0.4	20.0
3 22	11 22.83	+ 3 43.0	1.349	2.334	4.9	20.4
4 1	11 15.62	+ 4 37.1	1.394	2.344	9.8	20.7
4 11	11 10.54	+ 5 17.0	1.461	2.355	14.0	21.0
4 21	11 8.06	+ 5 39.5	1.548	2.366	17.6	21.2

74502 1999 DG_{2} 3 12.5 114.°40 2.°9/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 58.10	+10 44.8	1.937	2.803	11.7	18.3
2 21	11 50.68	+11 13.4	1.884	2.818	8.1	18.1
3 2	11 41.46	+11 42.9	1.859	2.833	4.5	17.9
3 12	11 31.33	+12 7.6	1.862	2.848	3.1	17.8
3 22	11 21.32	+12 22.6	1.894	2.862	5.9	18.0
4 1	11 12.44	+12 24.7	1.954	2.875	9.4	18.3
4 11	11 5.44	+12 12.6	2.040	2.888	12.6	18.5
4 21	11 0.74	+11 46.9	2.146	2.901	15.3	18.7

519848 2013 MV_{12} 3 12.5 233.°76 2.°7/15.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.43	− 8 4.9	1.992	2.816	13.2	21.8
2 21	11 46.28	− 7 29.0	1.902	2.806	10.0	21.6
3 2	11 39.31	− 6 33.1	1.837	2.796	6.3	21.3
3 12	11 31.24	− 5 20.7	1.799	2.785	3.1	21.1
3 22	11 22.95	− 3 57.8	1.790	2.774	4.0	21.1
4 1	11 15.40	− 2 31.9	1.809	2.762	7.7	21.3
4 11	11 9.42	− 1 10.9	1.855	2.750	11.4	21.5
4 21	11 5.55	− 0 1.0	1.923	2.738	14.7	21.7

26221 1997 WG_{41} 3 12.5 242.°62 4.°3/17.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.33	−12 44.7	2.350	3.144	12.4	18.6
2 21	11 45.31	−12 40.7	2.259	3.137	9.8	18.4
3 2	11 38.72	−12 18.4	2.192	3.130	7.0	18.2
3 12	11 31.22	−11 38.9	2.152	3.122	4.7	18.0
3 22	11 23.54	−10 45.7	2.140	3.115	4.6	18.0
4 1	11 16.48	− 9 44.0	2.157	3.107	6.9	18.1
4 11	11 10.77	− 8 40.1	2.201	3.099	9.8	18.3
4 21	11 6.88	− 7 39.7	2.268	3.091	12.5	18.5

332519 2008 JG_{26} 3 12.5 246.°17 4.°4/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 52.81	+13 23.5	2.040	2.915	10.7	20.5
2 21	11 47.22	+14 38.7	1.966	2.902	7.6	20.3
3 2	11 39.79	+15 55.7	1.917	2.887	5.0	20.1
3 12	11 31.27	+17 6.7	1.898	2.873	4.7	20.1
3 22	11 22.56	+18 4.5	1.907	2.858	7.3	20.2
4 1	11 14.64	+18 43.7	1.943	2.842	10.6	20.4
4 11	11 8.33	+19 2.0	2.002	2.826	13.8	20.6
4 21	11 4.16	+18 59.7	2.081	2.810	16.4	20.7

151950 2004 FM_{128} 3 12.5 298.°94 0.°9/13.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.51	− 2 23.7	1.254	2.123	16.5	19.4
2 21	11 47.21	− 1 39.3	1.171	2.103	12.0	19.1
3 2	11 40.16	− 0 30.9	1.109	2.084	6.7	18.7
3 12	11 31.29	+ 0 55.2	1.072	2.065	1.2	18.3
3 22	11 21.94	+ 2 29.0	1.060	2.046	5.5	18.5
4 1	11 13.63	+ 3 58.1	1.073	2.028	11.4	18.8
4 11	11 7.70	+ 5 11.5	1.107	2.010	16.8	19.0
4 21	11 4.91	+ 6 2.8	1.159	1.992	21.3	19.3

226832 2004 RA_{333} 3 12.5 101.°39 2.°3/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.05	+ 6 7.0	2.013	2.882	11.1	20.2
2 21	11 45.77	+ 7 33.5	1.962	2.899	7.6	20.0
3 2	11 38.90	+ 9 6.6	1.939	2.916	4.0	19.8
3 12	11 31.23	+10 38.4	1.945	2.933	2.5	19.8
3 22	11 23.60	+12 1.3	1.980	2.949	5.5	20.0
4 1	11 16.88	+13 9.2	2.043	2.965	9.0	20.2
4 11	11 11.74	+13 58.5	2.132	2.981	12.1	20.4
4 21	11 8.56	+14 28.3	2.240	2.997	14.7	20.7

104855 2000 HK_{76} 3 12.5 293.°21 7.°8/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.15	+25 29.5	2.050	2.919	11.0	19.4
2 21	11 48.16	+26 39.0	1.992	2.907	8.9	19.2
3 2	11 40.26	+27 38.6	1.959	2.896	7.8	19.1
3 12	11 31.29	+28 20.2	1.953	2.884	8.4	19.1
3 22	11 22.26	+28 38.2	1.973	2.873	10.3	19.2
4 1	11 14.19	+28 30.4	2.017	2.862	12.8	19.4
4 11	11 7.92	+27 57.6	2.082	2.851	15.2	19.5
4 21	11 3.93	+27 3.4	2.164	2.840	17.3	19.7

254509 2005 EM_{83} 3 12.5 307.°43 0.°2/12.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.37	− 0 5.4	1.404	2.273	15.0	20.7
2 21	11 46.86	+ 0 32.4	1.320	2.254	10.8	20.3
3 2	11 39.87	+ 1 28.3	1.259	2.235	5.8	20.0
3 12	11 31.28	+ 2 36.2	1.223	2.217	0.4	19.6
3 22	11 22.30	+ 3 47.3	1.214	2.199	5.3	19.9
4 1	11 14.28	+ 4 52.2	1.230	2.181	10.7	20.1
4 11	11 8.41	+ 5 42.6	1.268	2.164	15.5	20.3
4 21	11 5.38	+ 6 13.7	1.325	2.148	19.7	20.6

522235 2016 AT_{269} 3 12.5 287.°92 10.°4/29.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.96	+29 19.1	1.740	2.608	12.6	20.9
2 21	11 48.45	+31 15.4	1.686	2.591	10.9	20.8
3 2	11 40.58	+32 58.0	1.658	2.575	10.4	20.7
3 12	11 31.31	+34 15.4	1.654	2.558	11.5	20.7
3 22	11 21.85	+34 59.9	1.674	2.541	13.7	20.8
4 1	11 13.49	+35 8.2	1.715	2.525	16.2	21.0
4 11	11 7.29	+34 42.5	1.774	2.508	18.6	21.1
4 21	11 3.81	+33 47.6	1.847	2.491	20.7	21.2

95021 2002 AE_{14} 3 12.5 47.°18 0.°1/12.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.64	+ 2 23.3	1.157	2.033	17.0	18.8
2 21	11 51.09	+ 2 29.9	1.115	2.052	12.0	18.5
3 2	11 41.89	+ 2 49.5	1.095	2.072	6.2	18.3
3 12	11 31.37	+ 3 15.4	1.099	2.093	0.3	17.9
3 22	11 21.09	+ 3 40.3	1.129	2.114	5.6	18.3
4 1	11 12.54	+ 3 57.4	1.184	2.136	10.9	18.7
4 11	11 6.72	+ 4 2.1	1.260	2.158	15.5	19.0
4 21	11 4.04	+ 3 52.6	1.354	2.180	19.2	19.3

504688 2009 FT_{64} 3 12.5 243.°54 2.°6/ 9.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.03	+10 59.6	2.526	3.393	9.2	21.2
2 21	11 46.33	+11 33.9	2.451	3.385	6.4	21.0
3 2	11 39.19	+12 9.6	2.403	3.377	3.7	20.8
3 12	11 31.25	+12 42.0	2.384	3.368	2.8	20.7
3 22	11 23.22	+13 6.8	2.395	3.360	5.1	20.9
4 1	11 15.85	+13 20.8	2.435	3.351	8.0	21.0
4 11	11 9.79	+13 21.9	2.500	3.342	10.8	21.2
4 21	11 5.45	+13 10.0	2.587	3.333	13.2	21.3

259645 2003 WJ_{81} 3 12.5 140.°13 0.°5/12.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.10	+ 2 15.3	1.834	2.692	12.6	21.5
2 21	11 48.77	+ 2 53.8	1.771	2.701	8.8	21.3
3 2	11 40.55	+ 3 42.7	1.734	2.710	4.6	21.1
3 12	11 31.32	+ 4 36.0	1.725	2.718	0.5	20.8
3 22	11 22.07	+ 5 27.4	1.745	2.726	4.5	21.1
4 1	11 13.84	+ 6 10.7	1.793	2.734	8.7	21.3
4 11	11 7.44	+ 6 41.6	1.866	2.741	12.4	21.6
4 21	11 3.33	+ 6 57.9	1.960	2.747	15.5	21.8

155936 2001 QG_{17} 3 12.5 147°.58 0°.9/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 56.33	+ 2 50.3	1.849	2.706	12.6	21.0
2 21	11 49.60	+ 3 42.9	1.788	2.718	8.7	20.8
3 2	11 40.98	+ 4 45.7	1.753	2.730	4.5	20.6
3 12	11 31.34	+ 5 51.9	1.747	2.740	0.9	20.3
3 22	11 21.72	+ 6 54.5	1.770	2.750	4.8	20.6
4 1	11 13.13	+ 7 47.0	1.822	2.758	8.9	20.9
4 11	11 6.41	+ 8 25.0	1.899	2.766	12.6	21.1
4 21	11 2.00	+ 8 46.7	1.997	2.773	15.6	21.4

274840 2009 QO_{23} 3 12.5 216°.35 1°.9/10.4 17

2 11	11 53.17	+ 6 31.4	2.208	3.070	10.6	22.1
2 21	11 47.32	+ 7 26.6	2.128	3.062	7.3	21.9
3 2	11 39.80	+ 8 28.4	2.076	3.053	3.8	21.7
3 12	11 31.29	+ 9 30.8	2.053	3.043	2.0	21.5
3 22	11 22.63	+10 27.8	2.060	3.033	5.0	21.7
4 1	11 14.70	+11 13.9	2.096	3.022	8.6	21.9
4 11	11 8.25	+11 45.6	2.157	3.010	11.9	22.1
4 21	11 3.76	+12 1.4	2.240	2.998	14.6	22.3

402034 2003 SP_{206} 3 12.5 135°.00 0°.2/12.3 18

2 11	11 56.82	+ 2 9.7	1.783	2.639	13.0	21.5
2 21	11 50.00	+ 2 33.6	1.721	2.649	9.1	21.3
3 2	11 41.21	+ 3 7.5	1.684	2.659	4.8	21.1
3 12	11 31.36	+ 3 46.2	1.675	2.668	0.3	20.7
3 22	11 21.51	+ 4 23.9	1.695	2.677	4.5	21.1
4 1	11 12.74	+ 4 54.9	1.743	2.686	8.8	21.3
4 11	11 5.90	+ 5 15.0	1.816	2.693	12.6	21.6
4 21	11 1.47	+ 5 22.3	1.910	2.701	15.7	21.8

217927 2001 TU_{13} 3 12.5 157°.17 6°.0/ 5.4 18

2 11	11 55.10	+20 55.3	2.284	3.151	10.1	20.7
2 21	11 48.54	+22 10.9	2.236	3.159	7.7	20.6
3 2	11 40.35	+23 20.1	2.217	3.167	6.1	20.5
3 12	11 31.32	+24 15.7	2.226	3.174	6.4	20.5
3 22	11 22.32	+24 52.5	2.263	3.180	8.3	20.7
4 1	11 14.25	+25 8.0	2.326	3.185	10.8	20.8
4 11	11 7.79	+25 2.2	2.412	3.190	13.1	21.0
4 21	11 3.37	+24 37.4	2.517	3.194	15.1	21.2

300041 2006 UR_{135} 3 12.5 249°.09 1°.8/14.8 17

2 11	11 49.33	− 6 1.3	2.614	3.437	10.4	21.6
2 21	11 44.49	− 5 29.9	2.516	3.422	7.8	21.4
3 2	11 38.27	− 4 44.7	2.445	3.407	4.8	21.2
3 12	11 31.23	− 3 48.5	2.403	3.391	2.1	21.0
3 22	11 24.01	− 2 45.5	2.390	3.375	3.1	21.0
4 1	11 17.31	− 1 41.0	2.408	3.358	6.2	21.2
4 11	11 11.76	− 0 40.2	2.452	3.341	9.3	21.4
4 21	11 7.82	+ 0 12.7	2.521	3.324	12.0	21.5

309925 2009 FN_{35} 3 12.5 42°.92 3°.3/10.1 18

2 11	11 55.77	+ 8 55.0	1.304	2.188	14.9	20.8
2 21	11 49.74	+ 9 37.1	1.254	2.196	10.4	20.6
3 2	11 41.21	+10 24.1	1.226	2.204	5.6	20.3
3 12	11 31.36	+11 7.2	1.225	2.213	3.5	20.2
3 22	11 21.58	+11 38.2	1.249	2.223	7.3	20.4
4 1	11 13.25	+11 51.6	1.298	2.232	11.9	20.7
4 11	11 7.40	+11 45.1	1.368	2.242	16.1	21.0
4 21	11 4.49	+11 19.4	1.456	2.252	19.5	21.3

457599 2009 BU_{31} 3 12.5 103°.81 0°.1/12.4 18

2 11	11 56.76	+ 1 3.4	1.593	2.451	14.2	21.8
2 21	11 50.03	+ 1 39.6	1.541	2.470	9.9	21.5
3 2	11 41.23	+ 2 28.1	1.514	2.489	5.2	21.3
3 12	11 31.37	+ 3 22.5	1.513	2.507	0.2	21.0
3 22	11 21.61	+ 4 15.6	1.542	2.525	4.7	21.4
4 1	11 13.12	+ 5 0.5	1.597	2.542	9.3	21.7
4 11	11 6.74	+ 5 32.3	1.677	2.558	13.2	21.9
4 21	11 2.92	+ 5 48.9	1.777	2.574	16.4	22.2

196202 2003 BL_{9} 3 12.5 93°.73 5°.0/16.5 18

2 11	11 54.83	−10 37.9	1.399	2.227	17.5	19.7
2 21	11 49.11	−10 37.5	1.334	2.235	13.5	19.5
3 2	11 40.94	−10 10.6	1.290	2.243	9.2	19.2
3 12	11 31.36	− 9 19.5	1.270	2.250	5.6	19.0
3 22	11 21.67	− 8 10.9	1.277	2.258	5.8	19.1
4 1	11 13.23	− 6 54.1	1.309	2.266	9.6	19.3
4 11	11 7.12	− 5 39.9	1.365	2.273	13.8	19.5
4 21	11 3.87	− 4 36.1	1.441	2.280	17.5	19.8

339044 2004 JZ_{40} 3 12.5 45°.60 8°.3/ 2.4 18

2 11	11 52.17	+27 24.4	2.052	2.920	11.0	19.9
2 21	11 46.67	+28 51.4	2.018	2.928	9.1	19.8
3 2	11 39.42	+30 5.8	2.010	2.936	8.3	19.7
3 12	11 31.28	+30 59.5	2.028	2.945	9.0	19.8
3 22	11 23.23	+31 27.8	2.071	2.953	10.8	19.9
4 1	11 16.22	+31 28.9	2.138	2.962	12.9	20.1
4 11	11 10.96	+31 4.6	2.224	2.971	14.9	20.2
4 21	11 7.88	+30 18.6	2.327	2.980	16.7	20.4

370705 2004 PH_{33} 3 12.5 168°.90 1°.7/13.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 55.20	− 2 26.8	1.982	2.822	12.6	20.6
2 21	11 48.83	− 2 27.5	1.907	2.823	9.2	20.4
3 2	11 40.62	− 2 15.9	1.857	2.825	5.3	20.1
3 12	11 31.35	− 1 54.8	1.835	2.826	1.9	19.9
3 22	11 21.97	− 1 28.5	1.842	2.827	3.8	20.0
4 1	11 13.47	− 1 1.8	1.878	2.828	7.7	20.3
4 11	11 6.65	− 0 39.6	1.940	2.828	11.4	20.5
4 21	11 2.04	− 0 25.4	2.023	2.828	14.4	20.7

423566 2005 UL_{480} 3 12.5 172°.79 6°.6/ 3.7 17

2 11	11 54.21	+23 38.0	2.429	3.294	9.7	21.9
2 21	11 47.93	+25 10.2	2.383	3.298	7.7	21.8
3 2	11 40.06	+26 34.6	2.364	3.301	6.6	21.8
3 12	11 31.33	+27 43.9	2.373	3.304	7.1	21.8
3 22	11 22.58	+28 32.8	2.411	3.306	8.9	21.9
4 1	11 14.66	+28 58.5	2.475	3.307	11.1	22.1
4 11	11 8.27	+29 1.3	2.560	3.307	13.2	22.2
4 21	11 3.83	+28 43.6	2.663	3.307	14.9	22.4

296244 2009 DA_{12} 3 12.5 174°.05 11°.8/ 6.4 17

2 11	12 12.87	+28 48.0	1.250	2.110	17.2	20.2
2 21	12 2.09	+29 39.1	1.203	2.112	14.1	20.0
3 2	11 47.78	+30 7.5	1.179	2.113	12.0	19.9
3 12	11 31.68	+30 0.3	1.179	2.114	12.2	19.9
3 22	11 15.99	+29 11.9	1.203	2.115	14.5	20.0
4 1	11 2.70	+27 45.0	1.251	2.115	17.8	20.2
4 11	10 53.09	+25 48.4	1.318	2.114	21.0	20.5
4 21	10 47.55	+23 32.3	1.402	2.114	23.8	20.7

40501 1999 RM_{82} 3 12.5 242°.68 2°.2/14.6 18 R

2 11	11 51.96	− 4 58.9	1.970	2.807	12.8	19.4
2 21	11 46.62	− 4 43.2	1.890	2.803	9.5	19.1
3 2	11 39.49	− 4 11.9	1.835	2.799	5.7	18.9
3 12	11 31.31	− 3 28.2	1.807	2.796	2.4	18.7
3 22	11 22.97	− 2 37.1	1.807	2.792	3.9	18.8
4 1	11 15.43	− 1 44.7	1.835	2.788	7.7	19.0
4 11	11 9.50	− 0 57.2	1.889	2.784	11.3	19.2
4 21	11 5.68	− 0 19.2	1.965	2.780	14.5	19.4

160169 2001 UJ_{149} 3 12.5 135°.57 1°.9/10.6 18

2 11	11 53.98	+ 6 38.4	2.067	2.931	11.1	21.5
2 21	11 47.82	+ 7 26.5	2.008	2.942	7.7	21.3
3 2	11 40.01	+ 8 19.9	1.976	2.953	4.0	21.1
3 12	11 31.33	+ 9 12.8	1.973	2.963	2.0	21.0
3 22	11 22.67	+ 9 59.3	1.999	2.972	5.0	21.2
4 1	11 14.92	+10 34.6	2.053	2.981	8.6	21.4
4 11	11 8.80	+10 55.8	2.133	2.990	11.8	21.6
4 21	11 4.73	+11 1.9	2.233	2.998	14.5	21.8

264662 2001 XS_{116} 3 12.5 128°.87 1°.3/11.1 18

2 11	11 54.52	+ 5 21.2	2.297	3.153	10.4	21.3
2 21	11 48.03	+ 6 3.7	2.240	3.171	7.2	21.1
3 2	11 40.06	+ 6 51.7	2.212	3.188	3.7	20.9
3 12	11 31.35	+ 7 40.1	2.213	3.204	1.4	20.7
3 22	11 22.70	+ 8 23.8	2.244	3.220	4.3	21.0
4 1	11 14.90	+ 8 58.5	2.305	3.235	7.7	21.2
4 11	11 8.61	+ 9 21.4	2.391	3.249	10.7	21.4
4 21	11 4.20	+ 9 31.4	2.500	3.263	13.2	21.6

425712 2011 BS_{23} 3 12.5 305°.67 3°.2/14.9 17

2 11	11 53.12	− 5 39.7	1.641	2.482	14.7	20.8
2 21	11 47.98	− 5 49.5	1.542	2.455	11.2	20.5
3 2	11 40.48	− 5 41.6	1.466	2.429	7.1	20.2
3 12	11 31.38	− 5 17.5	1.415	2.402	3.6	19.9
3 22	11 21.76	− 4 41.3	1.391	2.376	4.9	19.9
4 1	11 12.87	− 3 59.3	1.394	2.349	9.3	20.1
4 11	11 5.85	− 3 18.9	1.420	2.323	13.7	20.3
4 21	11 1.48	− 2 46.5	1.467	2.298	17.7	20.5

163131 2002 CF_{6} 3 12.5 329°.87 1°.4/13.4 18

2 11	11 55.44	− 0 16.6	1.272	2.140	16.4	19.1
2 21	11 49.87	− 0 26.2	1.199	2.130	11.9	18.8
3 2	11 41.52	− 0 20.6	1.147	2.121	6.7	18.4
3 12	11 31.43	− 0 3.9	1.120	2.113	1.6	18.1
3 22	11 21.02	+ 0 18.2	1.119	2.105	5.3	18.3
4 1	11 11.83	+ 0 38.6	1.142	2.098	10.8	18.6
4 11	11 5.14	+ 0 50.9	1.187	2.091	15.8	18.8
4 21	11 1.62	+ 0 50.9	1.251	2.086	19.9	19.1

203448 2001 YE_{87} 3 12.5 340°.73 10°.0/ 4.6 18

2 11	11 49.38	+19 25.4	0.987	1.895	16.2	18.7
2 21	11 46.14	+21 10.3	0.932	1.878	12.5	18.5
3 2	11 39.72	+22 50.4	0.898	1.862	10.2	18.3
3 12	11 31.35	+24 8.5	0.885	1.848	11.0	18.3
3 22	11 22.72	+24 50.9	0.893	1.835	14.5	18.4
4 1	11 15.63	+24 50.7	0.919	1.824	18.8	18.6
4 11	11 11.48	+24 8.9	0.962	1.815	22.9	18.8
4 21	11 10.88	+22 51.9	1.017	1.808	26.4	19.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
48323 2002 NN_{33}			3 12.5 225°.11		2°.7/15.3 18	
	h m	° ′			°	m
2 11	11 53.56	− 7 46.1	2.181	2.998	12.4	19.4
2 21	11 47.71	− 7 23.9	2.086	2.986	9.4	19.2
3 2	11 40.09	− 6 44.3	2.016	2.973	6.0	19.0
3 12	11 31.38	− 5 49.9	1.974	2.959	3.1	18.7
3 22	11 22.41	− 4 45.5	1.962	2.945	3.9	18.8
4 1	11 14.12	− 3 37.3	1.979	2.929	7.3	18.9
4 11	11 7.30	− 2 32.0	2.023	2.914	10.9	19.1
4 21	11 2.51	− 1 35.0	2.090	2.897	14.0	19.3
463298 2012 HX_{70}			3 12.5 280°.93		0°.7/11.9 17	
2 11	11 53.82	+ 3 2.8	1.806	2.668	12.6	21.5
2 21	11 48.23	+ 3 33.9	1.713	2.645	8.9	21.2
3 2	11 40.50	+ 4 15.9	1.645	2.622	4.7	20.9
3 12	11 31.40	+ 5 3.5	1.605	2.598	0.7	20.5
3 22	11 21.93	+ 5 50.3	1.593	2.575	4.9	20.8
4 1	11 13.22	+ 6 30.0	1.609	2.550	9.5	21.0
4 11	11 6.26	+ 6 57.2	1.648	2.526	13.6	21.2
4 21	11 1.69	+ 7 9.1	1.708	2.502	17.2	21.4
239881 2000 QW_{55}			3 12.5 178°.66		0°.3/12.2 18	
2 11	11 56.56	+ 1 54.9	2.128	2.976	11.5	21.6
2 21	11 49.69	+ 2 28.5	2.054	2.979	8.1	21.4
3 2	11 41.06	+ 3 11.4	2.006	2.981	4.2	21.2
3 12	11 31.44	+ 3 59.1	1.988	2.982	0.3	20.8
3 22	11 21.73	+ 4 45.9	2.000	2.982	4.1	21.1
4 1	11 12.87	+ 5 26.6	2.042	2.981	8.0	21.4
4 11	11 5.64	+ 5 57.0	2.110	2.979	11.4	21.6
4 21	11 0.52	+ 6 14.9	2.200	2.976	14.3	21.8
390487 2014 AV_{19}			3 12.5 294°.92		2°.4/ 9.5 17	
2 11	11 48.60	+ 7 32.4	2.203	3.075	10.2	21.1
2 21	11 44.13	+ 8 44.2	2.130	3.068	7.0	20.9
3 2	11 38.15	+10 2.2	2.085	3.062	3.8	20.7
3 12	11 31.30	+11 19.8	2.068	3.055	2.6	20.6
3 22	11 24.34	+12 30.4	2.081	3.049	5.4	20.8
4 1	11 18.06	+13 28.2	2.121	3.043	8.7	20.9
4 11	11 13.16	+14 9.6	2.186	3.036	11.8	21.1
4 21	11 10.08	+14 33.1	2.272	3.030	14.4	21.3
10716 Olivermorton			3 12.5 173°.92		4°.5/ 7.8 18	
2 11	11 54.55	+15 10.4	2.109	2.981	10.6	17.8
2 21	11 48.28	+16 8.5	2.050	2.983	7.6	17.6
3 2	11 40.31	+17 5.1	2.017	2.985	5.0	17.4
3 12	11 31.40	+17 53.0	2.014	2.986	4.8	17.4
3 22	11 22.48	+18 26.9	2.039	2.987	7.1	17.5
4 1	11 14.47	+18 43.0	2.091	2.987	10.1	17.7
4 11	11 8.11	+18 40.3	2.166	2.987	13.0	17.9
4 21	11 3.84	+18 20.0	2.262	2.987	15.4	18.1
498177 2007 TJ_{212}			3 12.5 79°.67		2°.3/14.9 17	
2 11	11 51.50	− 5 57.3	2.192	3.020	12.0	21.5
2 21	11 46.04	− 5 42.3	2.129	3.037	8.9	21.4
3 2	11 39.08	− 5 12.9	2.092	3.054	5.5	21.2
3 12	11 31.34	− 4 32.4	2.083	3.070	2.5	21.0
3 22	11 23.63	− 3 45.2	2.103	3.087	3.5	21.1
4 1	11 16.72	− 2 56.9	2.152	3.104	6.7	21.3
4 11	11 11.29	− 2 12.5	2.227	3.120	9.9	21.6
4 21	11 7.72	− 1 36.1	2.325	3.137	12.6	21.8
388285 2006 SQ_{22}			3 12.5 162°.35		3°.1/ 8.6 17	
2 11	11 52.07	+13 21.4	2.793	3.659	8.5	21.6
2 21	11 46.22	+14 3.8	2.732	3.664	6.0	21.5
3 2	11 39.11	+14 45.8	2.698	3.668	3.7	21.3
3 12	11 31.35	+15 22.7	2.695	3.673	3.2	21.3
3 22	11 23.58	+15 50.6	2.722	3.676	5.2	21.4
4 1	11 16.47	+16 6.6	2.777	3.680	7.7	21.6
4 11	11 10.58	+16 9.5	2.859	3.683	10.1	21.8
4 21	11 6.27	+15 59.4	2.962	3.685	12.1	21.9
175347 2005 NV_{122}			3 12.5 64°.27		2°.6/15.2 17	
2 11	11 51.59	− 6 12.6	2.259	3.084	11.8	20.1
2 21	11 46.15	− 6 13.1	2.184	3.089	8.8	19.9
3 2	11 39.18	− 5 59.9	2.135	3.094	5.6	19.7
3 12	11 31.35	− 5 35.1	2.113	3.099	2.9	19.6
3 22	11 23.45	− 5 2.6	2.121	3.104	3.7	19.6
4 1	11 16.27	− 4 26.9	2.157	3.109	6.7	19.8
4 11	11 10.52	− 3 52.9	2.220	3.114	9.9	20.0
4 21	11 6.61	− 3 24.6	2.305	3.119	12.6	20.2
461383 2001 OR_{28}			3 12.5 189°.97		2°.1/10.4 16	
2 11	11 55.28	+ 7 56.9	2.145	3.008	10.8	21.8
2 21	11 48.80	+ 8 37.0	2.073	3.007	7.5	21.6
3 2	11 40.60	+ 9 21.5	2.029	3.005	4.0	21.4
3 12	11 31.42	+10 4.8	2.014	3.003	2.2	21.3
3 22	11 22.17	+10 41.4	2.029	3.000	5.1	21.4
4 1	11 13.76	+11 6.9	2.072	2.997	8.7	21.7
4 11	11 6.94	+11 18.7	2.140	2.993	11.9	21.9
4 21	11 2.19	+11 16.0	2.230	2.988	14.7	22.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
191120 2002 EZ_{130}			3 12.5 160°.30		1°.2/11.2 18	
	h m	° ′			°	m
2 11	11 51.09	+ 3 27.1	1.980	2.844	11.5	20.6
2 21	11 45.95	+ 4 26.5	1.912	2.846	8.0	20.3
3 2	11 39.13	+ 5 35.6	1.871	2.848	4.1	20.1
3 12	11 31.36	+ 6 48.0	1.857	2.850	1.2	19.9
3 22	11 23.52	+ 7 56.7	1.873	2.851	4.7	20.1
4 1	11 16.51	+ 8 55.4	1.916	2.852	8.6	20.4
4 11	11 11.08	+ 9 39.4	1.985	2.854	12.1	20.6
4 21	11 7.69	+10 6.7	2.075	2.855	15.0	20.8
159320 2006 BH_{222}			3 12.5 215°.17		2°.0/10.1 17	
2 11	11 50.90	+ 6 21.4	2.281	3.146	10.2	20.4
2 21	11 45.72	+ 7 30.4	2.205	3.140	7.0	20.2
3 2	11 38.99	+ 8 46.3	2.156	3.133	3.7	20.0
3 12	11 31.37	+10 3.0	2.137	3.126	2.1	19.9
3 22	11 23.62	+11 14.0	2.147	3.118	5.0	20.0
4 1	11 16.55	+12 13.5	2.187	3.110	8.4	20.2
4 11	11 10.86	+12 57.7	2.251	3.101	11.5	20.4
4 21	11 7.00	+13 25.1	2.337	3.092	14.2	20.6
704 Interamnia			3 12.5 159°.68		6°.5/21.1 18	
2 11	11 51.90	−22 25.5	2.775	3.495	12.4	11.8
2 21	11 46.29	−22 47.5	2.689	3.500	10.6	11.6
3 2	11 39.26	−22 49.4	2.625	3.504	8.7	11.5
3 12	11 31.40	−22 30.9	2.587	3.508	7.1	11.4
3 22	11 23.42	−21 53.6	2.577	3.512	6.5	11.3
4 1	11 16.04	−21 1.3	2.594	3.516	7.3	11.4
4 11	11 9.91	−19 59.5	2.638	3.519	9.0	11.5
4 21	11 5.45	−18 54.1	2.706	3.522	10.9	11.7
116209 2003 XC_{35}			3 12.5 194°.67		1°.5/10.8 18	
2 11	11 51.58	+ 5 44.8	2.224	3.087	10.5	20.4
2 21	11 46.18	+ 6 29.0	2.152	3.086	7.2	20.2
3 2	11 39.22	+ 7 19.5	2.108	3.085	3.7	20.0
3 12	11 31.40	+ 8 11.0	2.092	3.083	1.6	19.9
3 22	11 23.50	+ 8 58.0	2.106	3.082	4.6	20.1
4 1	11 16.34	+ 9 35.7	2.148	3.080	8.1	20.3
4 11	11 10.62	+10 0.8	2.216	3.078	11.2	20.5
4 21	11 6.78	+10 11.7	2.305	3.076	13.9	20.6
301591 2010 CW_{33}			3 12.5 298°.50		2°.8/14.3 18	
2 11	11 55.64	− 3 51.3	1.298	2.155	16.9	20.8
2 21	11 50.09	− 3 59.7	1.219	2.142	12.6	20.5
3 2	11 41.73	− 3 48.4	1.161	2.130	7.6	20.2
3 12	11 31.54	− 3 20.3	1.128	2.118	3.1	19.9
3 22	11 20.91	− 2 41.2	1.120	2.106	5.4	20.0
4 1	11 11.42	− 1 59.2	1.137	2.095	10.6	20.3
4 11	11 4.39	− 1 22.8	1.177	2.083	15.7	20.5
4 21	11 0.54	− 0 58.1	1.235	2.073	20.0	20.7
43295 2000 GZ_{35}			3 12.5 207°.98		1°.5/11.3 18	
2 11	11 57.77	+ 5 18.1	1.813	2.673	12.6	19.8
2 21	11 50.87	+ 5 53.3	1.736	2.668	8.8	19.5
3 2	11 41.83	+ 6 36.6	1.685	2.661	4.6	19.3
3 12	11 31.54	+ 7 21.7	1.662	2.654	1.5	19.0
3 22	11 21.06	+ 8 2.4	1.668	2.646	5.3	19.3
4 1	11 11.54	+ 8 32.8	1.703	2.637	9.6	19.5
4 11	11 3.93	+ 8 49.1	1.762	2.628	13.5	19.7
4 21	10 58.80	+ 8 49.9	1.842	2.618	16.7	19.9
36869 2000 ST_{150}			3 12.5 110°.21		0°.4/12.9 18	
2 11	11 52.67	− 0 17.7	1.926	2.779	12.3	19.6
2 21	11 47.06	+ 0 15.3	1.861	2.787	8.8	19.4
3 2	11 39.72	+ 1 0.4	1.822	2.795	4.7	19.1
3 12	11 31.43	+ 1 52.5	1.810	2.804	0.6	18.8
3 22	11 23.11	+ 2 45.7	1.827	2.812	3.9	19.1
4 1	11 15.71	+ 3 34.0	1.873	2.819	8.0	19.4
4 11	11 9.96	+ 4 12.4	1.943	2.827	11.6	19.6
4 21	11 6.33	+ 4 37.8	2.036	2.835	14.6	19.8
9728 Videen			3 12.5 248°.77		4°.1/16.3 17	
2 11	11 53.80	−10 13.0	1.943	2.755	13.9	19.0
2 21	11 48.13	−10 11.8	1.848	2.740	10.9	18.8
3 2	11 40.44	− 9 50.6	1.776	2.725	7.4	18.6
3 12	11 31.48	− 9 10.8	1.731	2.710	4.6	18.4
3 22	11 22.18	− 8 16.3	1.714	2.693	4.9	18.3
4 1	11 13.60	− 7 13.4	1.725	2.677	8.1	18.5
4 11	11 6.68	− 6 9.8	1.762	2.660	11.8	18.7
4 21	11 2.03	− 5 12.1	1.821	2.642	15.2	18.8
432835 2011 HW_{33}			3 12.5 164°.89		6°.4/ 4.2 18	
2 11	11 53.57	+24 3.7	2.460	3.324	9.5	20.8
2 21	11 47.47	+25 16.3	2.413	3.328	7.6	20.7
3 2	11 39.85	+26 20.8	2.393	3.332	6.5	20.6
3 12	11 31.44	+27 10.5	2.402	3.335	6.9	20.6
3 22	11 23.04	+27 40.8	2.438	3.338	8.6	20.7
4 1	11 15.48	+27 49.8	2.500	3.340	10.7	20.9
4 11	11 9.41	+27 37.7	2.584	3.342	12.8	21.0
4 21	11 5.25	+27 7.0	2.686	3.344	14.6	21.2

384016 2008 UO_{73} 3 12.5 161°.15 0°.2/12.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 52.84	+ 2 14.3	2.236	3.089	10.8	21.7
2 21	11 47.03	+ 2 39.1	2.165	3.092	7.6	21.5
3 2	11 39.66	+ 3 12.2	2.120	3.095	4.0	21.2
3 12	11 31.44	+ 3 49.4	2.104	3.097	0.2	20.9
3 22	11 23.15	+ 4 25.9	2.117	3.100	3.8	21.2
4 1	11 15.63	+ 4 57.3	2.160	3.102	7.4	21.5
4 11	11 9.56	+ 5 19.8	2.229	3.103	10.7	21.7
4 21	11 5.39	+ 5 31.3	2.319	3.105	13.4	21.9

217886 2001 RM_{89} 3 12.5 141°.67 0°.3/12.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.01	+ 1 19.7	2.262	3.112	10.9	21.5
2 21	11 47.08	+ 2 11.0	2.199	3.125	7.6	21.3
3 2	11 39.65	+ 3 11.8	2.162	3.137	3.9	21.1
3 12	11 31.44	+ 4 16.8	2.155	3.149	0.4	20.8
3 22	11 23.22	+ 5 20.4	2.179	3.160	3.8	21.1
4 1	11 15.81	+ 6 16.8	2.232	3.170	7.4	21.4
4 11	11 9.85	+ 7 2.1	2.311	3.180	10.6	21.6
4 21	11 5.76	+ 7 33.8	2.412	3.189	13.2	21.8

470693 2008 TE_{40} 3 12.5 269°.72 5°.1/17.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.35	−13 53.9	2.072	2.865	13.8	21.9
2 21	11 46.34	−13 51.4	1.972	2.848	11.1	21.6
3 2	11 39.48	−13 26.9	1.894	2.829	8.1	21.4
3 12	11 31.44	−12 41.2	1.843	2.811	5.6	21.2
3 22	11 23.07	−11 37.8	1.819	2.792	5.4	21.2
4 1	11 15.36	−10 22.7	1.823	2.773	7.9	21.3
4 11	11 9.15	− 9 3.8	1.853	2.754	11.1	21.4
4 21	11 5.05	− 7 48.6	1.906	2.735	14.3	21.6

54361 2000 KM_{37} 3 12.5 138°.97 0°.9/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.97	+ 3 22.6	1.918	2.778	12.0	20.3
2 21	11 47.98	+ 4 2.9	1.854	2.786	8.4	20.0
3 2	11 40.21	+ 4 52.3	1.816	2.793	4.3	19.8
3 12	11 31.47	+ 5 44.9	1.806	2.799	0.9	19.6
3 22	11 22.70	+ 6 34.4	1.826	2.806	4.6	19.8
4 1	11 14.87	+ 7 15.3	1.873	2.812	8.6	20.1
4 11	11 8.76	+ 7 43.5	1.945	2.817	12.1	20.3
4 21	11 4.81	+ 7 57.1	2.039	2.823	15.1	20.5

428118 2006 RP_{100} 3 12.5 197°.05 2°.2/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.11	+10 53.7	2.880	3.739	8.5	21.9
2 21	11 47.66	+11 18.9	2.805	3.736	5.9	21.8
3 2	11 39.92	+11 45.0	2.759	3.732	3.3	21.6
3 12	11 31.46	+12 8.0	2.743	3.728	2.3	21.5
3 22	11 22.96	+12 24.4	2.758	3.723	4.4	21.6
4 1	11 15.07	+12 31.7	2.803	3.718	7.1	21.8
4 11	11 8.39	+12 28.3	2.875	3.712	9.7	22.0
4 21	11 3.29	+12 13.9	2.969	3.706	11.8	22.1

23079 Munguia 3 12.5 209°.78 0°.5/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.53	− 0 28.7	2.009	2.856	12.1	19.4
2 21	11 48.45	+ 0 2.9	1.927	2.850	8.7	19.2
3 2	11 40.52	+ 0 47.0	1.871	2.843	4.7	18.9
3 12	11 31.50	+ 1 39.0	1.843	2.836	0.6	18.6
3 22	11 22.29	+ 2 33.1	1.845	2.829	4.0	18.9
4 1	11 13.88	+ 3 23.3	1.875	2.820	8.1	19.1
4 11	11 7.10	+ 4 4.3	1.931	2.811	11.8	19.3
4 21	11 2.49	+ 4 32.7	2.009	2.802	15.0	19.5

405536 2005 EZ_{311} 3 12.5 63°.78 0°.4/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.15	+ 2 32.4	1.441	2.309	14.8	21.4
2 21	11 49.94	+ 2 51.7	1.383	2.317	10.4	21.2
3 2	11 41.38	+ 3 22.6	1.348	2.325	5.4	20.9
3 12	11 31.55	+ 3 58.9	1.340	2.333	0.4	20.6
3 22	11 21.71	+ 4 33.8	1.358	2.342	5.1	20.9
4 1	11 13.16	+ 5 0.7	1.402	2.350	10.0	21.2
4 11	11 6.87	+ 5 15.0	1.470	2.359	14.3	21.5
4 21	11 3.36	+ 5 14.7	1.557	2.367	17.8	21.8

64463 2001 VY_{37} 3 12.5 266°.26 0°.4/12.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.94	+ 2 7.8	1.799	2.660	12.6	19.5
2 21	11 47.51	+ 2 42.6	1.720	2.651	8.9	19.3
3 2	11 40.10	+ 3 28.7	1.666	2.643	4.7	19.0
3 12	11 31.50	+ 4 20.7	1.640	2.634	0.4	18.7
3 22	11 22.70	+ 5 12.1	1.642	2.624	4.6	19.0
4 1	11 14.77	+ 5 56.4	1.672	2.615	9.0	19.2
4 11	11 8.59	+ 6 28.5	1.725	2.606	12.9	19.4
4 21	11 4.73	+ 6 45.6	1.800	2.597	16.3	19.6

309040 2006 UK_{218} 3 12.5 28°.58 1°.6/13.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.15	− 2 19.9	1.395	2.256	15.6	20.3
2 21	11 47.92	− 2 6.1	1.335	2.262	11.3	20.1
3 2	11 40.37	− 1 34.8	1.296	2.268	6.5	19.8
3 12	11 31.52	− 0 50.9	1.283	2.275	1.8	19.6
3 22	11 22.61	− 0 1.7	1.296	2.283	4.7	19.8
4 1	11 14.92	+ 0 45.1	1.335	2.291	9.6	20.1
4 11	11 9.44	+ 1 22.2	1.397	2.299	14.0	20.3
4 21	11 6.68	+ 1 45.5	1.478	2.308	17.7	20.6

198808 2005 EY_{196} 3 12.5 67°.36 4°.5/17.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 49.45	−13 48.6	2.047	2.844	13.8	19.7
2 21	11 44.85	−13 24.9	1.971	2.850	10.9	19.5
3 2	11 38.61	−12 38.6	1.917	2.856	7.8	19.3
3 12	11 31.44	−11 32.2	1.891	2.862	5.1	19.2
3 22	11 24.20	−10 10.9	1.892	2.868	4.8	19.2
4 1	11 17.76	− 8 42.0	1.921	2.875	7.3	19.3
4 11	11 12.83	− 7 13.5	1.977	2.881	10.4	19.5
4 21	11 9.88	− 5 52.4	2.056	2.887	13.3	19.7

522399 2016 CF_{309} 3 12.5 168°.50 3°.2/ 9.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.06	+10 4.5	1.806	2.679	12.0	21.5
2 21	11 48.90	+10 51.1	1.743	2.680	8.4	21.3
3 2	11 40.77	+11 40.9	1.706	2.682	4.7	21.1
3 12	11 31.55	+12 26.7	1.697	2.683	3.4	21.0
3 22	11 22.30	+13 2.1	1.716	2.683	6.4	21.2
4 1	11 14.05	+13 22.4	1.762	2.684	10.2	21.4
4 11	11 7.68	+13 25.3	1.831	2.684	13.6	21.6
4 21	11 3.65	+13 11.0	1.921	2.685	16.5	21.8

29317 1994 PR_{9} 3 12.5 51°.33 0°.7/13.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.54	− 1 25.3	1.206	2.076	16.9	18.6
2 21	11 48.36	− 0 43.1	1.154	2.088	12.0	18.3
3 2	11 40.64	+ 0 18.9	1.125	2.100	6.5	18.1
3 12	11 31.55	+ 1 32.5	1.120	2.113	0.9	17.7
3 22	11 22.50	+ 2 47.7	1.140	2.126	5.3	18.1
4 1	11 14.90	+ 3 53.9	1.185	2.140	10.7	18.4
4 11	11 9.79	+ 4 43.6	1.253	2.154	15.4	18.7
4 21	11 7.63	+ 5 13.3	1.338	2.168	19.2	19.0

56825 2000 QA_{14} 3 12.5 238°.63 1°.3/13.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.08	− 2 25.2	1.881	2.727	12.9	19.9
2 21	11 47.54	− 2 5.0	1.801	2.722	9.4	19.7
3 2	11 40.10	− 1 30.4	1.747	2.717	5.4	19.4
3 12	11 31.53	− 0 45.5	1.719	2.711	1.5	19.1
3 22	11 22.80	+ 0 4.2	1.721	2.706	3.9	19.3
4 1	11 14.89	+ 0 52.4	1.750	2.701	8.1	19.5
4 11	11 8.68	+ 1 33.3	1.804	2.695	12.0	19.8
4 21	11 4.70	+ 2 2.8	1.880	2.689	15.2	20.0

350326 2012 UU_{76} 3 12.5 152°.15 1°.3/14.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.94	− 3 53.7	2.561	3.393	10.3	21.8
2 21	11 44.89	− 3 21.8	2.486	3.398	7.5	21.6
3 2	11 38.54	− 2 38.1	2.437	3.403	4.4	21.4
3 12	11 31.46	− 1 45.9	2.417	3.408	1.5	21.2
3 22	11 24.33	− 0 49.7	2.427	3.412	3.0	21.3
4 1	11 17.82	+ 0 5.5	2.467	3.416	6.2	21.5
4 11	11 12.54	+ 0 55.2	2.534	3.420	9.1	21.7
4 21	11 8.85	+ 1 36.1	2.625	3.424	11.7	21.9

236101 2005 QK_{2} 3 12.5 226°.22 0°.1/12.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.92	+ 0 39.9	2.843	3.689	9.0	21.2
2 21	11 44.15	+ 1 30.0	2.754	3.679	6.3	21.0
3 2	11 38.15	+ 2 29.1	2.694	3.668	3.3	20.8
3 12	11 31.44	+ 3 33.2	2.663	3.657	0.2	20.5
3 22	11 24.61	+ 4 37.8	2.664	3.646	3.1	20.8
4 1	11 18.28	+ 5 38.1	2.694	3.634	6.2	20.9
4 11	11 13.01	+ 6 30.0	2.752	3.622	9.1	21.1
4 21	11 9.18	+ 7 10.9	2.833	3.609	11.5	21.3

437807 2015 DG_{34} 3 12.5 104°.64 1°.3/11.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.40	+ 4 43.7	2.068	2.933	11.1	21.0
2 21	11 46.12	+ 5 32.1	2.005	2.939	7.7	20.8
3 2	11 39.24	+ 6 27.9	1.969	2.946	3.9	20.6
3 12	11 31.50	+ 7 25.3	1.960	2.952	1.4	20.4
3 22	11 23.73	+ 8 18.4	1.981	2.958	4.6	20.6
4 1	11 16.79	+ 9 1.7	2.030	2.965	8.3	20.9
4 11	11 11.38	+ 9 31.7	2.104	2.971	11.5	21.1
4 21	11 7.92	+ 9 46.8	2.199	2.977	14.3	21.3

350539 2000 RM_{90} 3 12.5 124°.56 2°.4/15.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.08	− 5 33.8	2.697	3.511	10.4	20.7
2 21	11 48.40	− 5 49.4	2.623	3.522	7.8	20.6
3 2	11 40.35	− 5 54.3	2.577	3.533	4.9	20.4
3 12	11 31.56	− 5 49.9	2.560	3.544	2.6	20.3
3 22	11 22.73	− 5 38.8	2.574	3.555	3.3	20.3
4 1	11 14.58	− 5 24.2	2.618	3.565	6.0	20.5
4 11	11 7.71	− 5 9.6	2.690	3.575	8.7	20.7
4 21	11 2.53	− 4 58.1	2.787	3.585	11.1	20.9

249396 2009 BF_{122} 3 12.5 271°.77 4°.3/16.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.05	−10 37.2	2.305	3.104	12.4	20.4
2 21	11 48.07	−11 5.0	2.210	3.093	9.8	20.2
3 2	11 40.36	−11 17.3	2.141	3.082	6.9	20.0
3 12	11 31.57	−11 14.5	2.099	3.071	4.7	19.8
3 22	11 22.52	−10 58.7	2.086	3.059	4.8	19.8
4 1	11 14.10	−10 33.7	2.101	3.048	7.2	20.0
4 11	11 7.09	−10 4.4	2.143	3.036	10.2	20.1
4 21	11 2.04	− 9 36.0	2.209	3.025	13.0	20.3

60002 1999 TU_5 3 12.5 94°.44 2°.9/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 52.95	+ 9 22.5	1.958	2.830	11.2	18.3
2 21	11 47.24	+10 15.5	1.904	2.841	7.8	18.1
3 2	11 39.83	+11 11.7	1.875	2.851	4.3	17.9
3 12	11 31.54	+12 4.5	1.875	2.861	3.0	17.9
3 22	11 23.28	+12 47.8	1.904	2.871	5.8	18.1
4 1	11 15.96	+13 16.9	1.959	2.881	9.3	18.3
4 11	11 10.32	+13 29.7	2.039	2.891	12.5	18.5
4 21	11 6.77	+13 25.9	2.139	2.900	15.1	18.7

141404 2002 AV_{150} 3 12.5 312°.81 2°.5/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.32	+ 8 52.7	2.264	3.136	9.9	19.6
2 21	11 44.64	+ 9 49.9	2.194	3.131	6.9	19.4
3 2	11 38.48	+10 51.3	2.150	3.126	3.8	19.2
3 12	11 31.47	+11 51.1	2.135	3.122	2.7	19.1
3 22	11 24.38	+12 43.3	2.150	3.117	5.3	19.3
4 1	11 17.98	+13 23.4	2.192	3.112	8.5	19.5
4 11	11 12.94	+13 48.3	2.258	3.108	11.5	19.6
4 21	11 9.69	+13 57.2	2.346	3.104	14.1	19.8

205653 2001 XU_{108} 3 12.5 162°.34 2°.2/14.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.54	− 4 57.9	1.984	2.811	13.1	20.7
2 21	11 50.53	− 4 46.9	1.910	2.818	9.7	20.5
3 2	11 41.62	− 4 20.8	1.862	2.825	5.9	20.3
3 12	11 31.64	− 3 42.6	1.842	2.831	2.5	20.1
3 22	11 21.58	− 2 57.3	1.852	2.836	3.9	20.2
4 1	11 12.45	− 2 10.7	1.891	2.840	7.7	20.4
4 11	11 5.09	− 1 28.7	1.957	2.844	11.4	20.6
4 21	10 59.98	− 0 55.5	2.045	2.846	14.4	20.8

511606 2015 BP_6 3 12.5 9°.64 2°.9/14.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.47	− 5 31.2	1.775	2.612	13.9	20.6
2 21	11 47.88	− 5 40.9	1.702	2.613	10.4	20.4
3 2	11 40.31	− 5 34.5	1.652	2.614	6.6	20.2
3 12	11 31.59	− 5 14.2	1.629	2.615	3.3	20.0
3 22	11 22.73	− 4 44.4	1.633	2.617	4.4	20.0
4 1	11 14.79	− 4 10.7	1.664	2.619	8.1	20.3
4 11	11 8.66	− 3 39.2	1.721	2.621	11.9	20.5
4 21	11 4.86	− 3 14.7	1.799	2.624	15.2	20.7

362065 2009 BN_{62} 3 12.5 7°.85 2°.3/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.60	+ 3 44.7	1.086	1.979	16.4	19.5
2 21	11 45.17	+ 5 2.6	1.032	1.980	11.4	19.3
3 2	11 39.10	+ 6 36.9	1.001	1.982	5.8	18.9
3 12	11 31.53	+ 8 15.8	0.993	1.985	2.5	18.7
3 22	11 23.88	+ 9 45.7	1.009	1.989	7.3	19.0
4 1	11 17.62	+10 55.4	1.048	1.994	12.7	19.4
4 11	11 13.86	+11 38.1	1.107	2.001	17.5	19.6
4 21	11 13.10	+11 52.6	1.182	2.008	21.4	19.9

417996 2007 TZ_{372} 3 12.5 69°.61 2°.0/10.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.05	+ 4 33.5	1.974	2.844	11.3	20.2
2 21	11 44.53	+ 6 9.4	1.919	2.856	7.7	20.0
3 2	11 38.43	+ 7 54.2	1.890	2.868	4.0	19.8
3 12	11 31.50	+ 9 39.7	1.891	2.881	2.2	19.7
3 22	11 24.56	+11 17.3	1.921	2.893	5.3	20.0
4 1	11 18.47	+12 39.9	1.980	2.906	9.0	20.2
4 11	11 13.90	+13 43.2	2.063	2.918	12.2	20.4
4 21	11 11.27	+14 25.6	2.166	2.931	14.9	20.6

94819 2001 XF_{177} 3 12.5 27°.52 0°.3/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.48	+ 1 0.4	1.675	2.539	13.3	19.3
2 21	11 46.51	+ 1 45.4	1.609	2.541	9.3	19.1
3 2	11 39.59	+ 2 43.5	1.567	2.543	4.9	18.8
3 12	11 31.57	+ 3 48.4	1.553	2.546	0.3	18.5
3 22	11 23.46	+ 4 52.6	1.566	2.549	4.6	18.8
4 1	11 16.33	+ 5 48.8	1.606	2.552	9.1	19.1
4 11	11 11.04	+ 6 31.3	1.670	2.555	13.0	19.3
4 21	11 8.07	+ 6 57.2	1.754	2.559	16.3	19.5

313594 2003 NB_7 3 12.5 228°.60 2°.0/10.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.13	+ 6 29.7	2.073	2.933	11.3	22.0
2 21	11 49.65	+ 7 20.4	1.987	2.919	7.9	21.8
3 2	11 41.24	+ 8 18.2	1.927	2.903	4.1	21.5
3 12	11 31.66	+ 9 17.1	1.897	2.887	2.1	21.3
3 22	11 21.82	+10 10.6	1.896	2.869	5.3	21.5
4 1	11 12.74	+10 53.0	1.925	2.851	9.2	21.7
4 11	11 5.27	+11 20.4	1.979	2.832	12.7	21.9
4 21	10 59.99	+11 31.4	2.053	2.812	15.8	22.1

482813 2013 WH_{67} 3 12.5 355°.30 19°.1/26.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.39	−31 25.7	1.088	1.824	27.0	20.2
2 21	11 51.61	−33 47.9	1.025	1.822	24.7	20.0
3 2	11 43.04	−35 26.3	0.974	1.820	22.4	19.8
3 12	11 31.77	−36 9.4	0.939	1.819	20.3	19.7
3 22	11 19.67	−35 51.2	0.920	1.819	19.2	19.6
4 1	11 9.03	−34 35.8	0.918	1.819	19.3	19.6
4 11	11 1.79	−32 37.8	0.934	1.820	20.7	19.7
4 21	10 58.94	−30 16.7	0.965	1.821	22.9	19.8

3862 Agekian 3 12.5 269°.30 4°.5/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 53.45	+12 39.2	1.895	2.771	11.4	17.3
2 21	11 47.97	+13 59.3	1.811	2.748	8.1	17.1
3 2	11 40.45	+15 23.3	1.753	2.724	5.2	16.8
3 12	11 31.62	+16 42.5	1.723	2.700	4.9	16.8
3 22	11 22.48	+17 48.6	1.722	2.675	7.8	16.9
4 1	11 14.09	+18 35.2	1.747	2.650	11.4	17.0
4 11	11 7.41	+18 58.9	1.795	2.625	14.9	17.2
4 21	11 3.05	+18 59.7	1.862	2.599	17.9	17.4

478294 2011 WQ_{19} 3 12.5 271°.33 7°.2/22.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.54	−24 31.1	2.615	3.327	13.3	22.1
2 21	11 44.89	−24 33.6	2.504	3.307	11.5	21.9
3 2	11 38.70	−24 12.4	2.415	3.287	9.6	21.7
3 12	11 31.54	−23 26.8	2.349	3.267	7.9	21.6
3 22	11 24.14	−22 18.5	2.311	3.247	7.2	21.5
4 1	11 17.26	−20 51.7	2.300	3.226	7.9	21.5
4 11	11 11.63	−19 13.3	2.316	3.205	9.7	21.6
4 21	11 7.75	−17 31.0	2.356	3.184	11.9	21.7

436902 2012 TD_{69} 3 12.5 62°.30 4°.2/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.58	+15 20.9	2.147	3.020	10.4	20.7
2 21	11 47.57	+16 2.5	2.096	3.030	7.4	20.6
3 2	11 39.99	+16 41.5	2.072	3.040	4.9	20.4
3 12	11 31.62	+17 12.1	2.077	3.051	4.5	20.4
3 22	11 23.32	+17 29.7	2.110	3.062	6.7	20.6
4 1	11 15.94	+17 31.5	2.170	3.073	9.5	20.7
4 11	11 10.16	+17 16.9	2.254	3.083	12.3	20.9
4 21	11 6.37	+16 47.1	2.359	3.094	14.6	21.1

30762 1981 ES_{42} 3 12.5 57°.00 0°.5/12.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.00	+ 2 25.2	1.559	2.426	13.9	18.8
2 21	11 48.24	+ 2 58.6	1.509	2.443	9.7	18.6
3 2	11 40.46	+ 3 43.1	1.483	2.460	5.0	18.3
3 12	11 31.65	+ 4 31.9	1.484	2.477	0.5	18.0
3 22	11 22.92	+ 5 18.2	1.512	2.495	4.8	18.4
4 1	11 15.40	+ 5 55.5	1.567	2.512	9.3	18.7
4 11	11 9.91	+ 6 19.3	1.645	2.530	13.2	19.0
4 21	11 6.88	+ 6 27.8	1.743	2.548	16.4	19.2

268516 2005 YR_{189} 3 12.6 131°.94 0°.8/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.92	+ 2 42.9	1.891	2.754	12.1	21.4
2 21	11 46.67	+ 3 30.2	1.823	2.756	8.4	21.2
3 2	11 39.64	+ 4 27.7	1.781	2.758	4.3	20.9
3 12	11 31.61	+ 5 29.5	1.766	2.760	0.8	20.7
3 22	11 23.50	+ 6 28.9	1.781	2.761	4.5	21.0
4 1	11 16.27	+ 7 19.5	1.823	2.763	8.6	21.2
4 11	11 10.71	+ 7 56.8	1.889	2.765	12.2	21.4
4 21	11 7.27	+ 8 18.4	1.977	2.767	15.3	21.6

142597 2002 TQ_{112} 3 12.6 280°.55 1°.1/11.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.88	+ 3 32.1	1.628	2.496	13.4	20.5
2 21	11 48.49	+ 4 12.6	1.543	2.477	9.5	20.2
3 2	11 40.81	+ 5 5.1	1.481	2.459	4.9	19.9
3 12	11 31.68	+ 6 3.3	1.447	2.440	1.1	19.6
3 22	11 22.19	+ 6 59.3	1.440	2.421	5.4	19.9
4 1	11 13.58	+ 7 45.8	1.460	2.402	10.2	20.1
4 11	11 6.91	+ 8 17.0	1.503	2.382	14.6	20.3
4 21	11 2.82	+ 8 30.3	1.566	2.363	18.3	20.5

502347 2015 BP_{198} 3 12.6 357°.58 2°.4/10.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.74	+ 7 18.6	1.815	2.689	11.9	21.1
2 21	11 46.61	+ 8 12.2	1.750	2.689	8.2	20.8
3 2	11 39.63	+ 9 12.1	1.711	2.688	4.4	20.6
3 12	11 31.61	+10 11.4	1.699	2.688	2.5	20.5
3 22	11 23.51	+11 3.1	1.715	2.688	5.8	20.7
4 1	11 16.33	+11 41.4	1.758	2.688	9.6	20.9
4 11	11 10.88	+12 2.8	1.825	2.688	13.2	21.1
4 21	11 7.64	+12 6.4	1.911	2.688	16.2	21.3

70700 1999 UQ_{28} 3 12.6 174°.29 3°.8/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.11	+11 3.2	1.599	2.475	13.1	18.8
2 21	11 50.57	+11 45.6	1.537	2.475	9.2	18.5
3 2	11 41.78	+12 30.2	1.501	2.476	5.3	18.3
3 12	11 31.73	+13 9.1	1.491	2.476	3.9	18.2
3 22	11 21.64	+13 35.6	1.509	2.476	7.1	18.4
4 1	11 12.72	+13 44.9	1.553	2.476	11.2	18.6
4 11	11 5.95	+13 35.3	1.620	2.476	14.9	18.8
4 21	11 1.85	+13 7.6	1.706	2.476	18.1	19.1

411685 2011 YO_{25} 3 12.6 6°.97 7°.6/17.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.59	−11 54.4	1.154	1.993	19.7	19.7
2 21	11 48.09	−12 51.8	1.091	1.993	15.8	19.4
3 2	11 40.75	−13 20.9	1.048	1.995	11.6	19.2
3 12	11 31.69	−13 20.2	1.026	1.998	8.2	19.0
3 22	11 22.37	−12 53.2	1.026	2.002	8.0	19.0
4 1	11 14.40	−12 7.7	1.050	2.008	11.2	19.2
4 11	11 9.05	−11 15.2	1.095	2.016	15.3	19.5
4 21	11 6.97	−10 25.6	1.158	2.024	19.2	19.7

522448 2016 CQ_{319} 3 12.6 270°.80 0°.6/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 50.10	+ 0 36.8	1.956	2.815	11.9	21.0
2 21	11 45.51	+ 1 51.8	1.867	2.797	8.4	20.8
3 2	11 39.12	+ 3 22.0	1.803	2.779	4.4	20.5
3 12	11 31.60	+ 5 0.7	1.768	2.762	0.6	20.2
3 22	11 23.83	+ 6 39.8	1.763	2.743	4.6	20.4
4 1	11 16.74	+ 8 10.8	1.785	2.725	8.8	20.6
4 11	11 11.18	+ 9 26.7	1.833	2.706	12.7	20.8
4 21	11 7.70	+10 23.6	1.903	2.688	16.0	21.0

403029 2007 XK_{52} 3 12.6 103°.89 4°.8/ 7.9 18

2 11	11 55.17	+12 59.8	1.709	2.587	12.3	21.1
2 21	11 48.95	+14 26.9	1.668	2.606	8.7	20.9
3 2	11 40.80	+15 53.8	1.653	2.624	5.5	20.7
3 12	11 31.68	+17 11.0	1.666	2.642	5.2	20.7
3 22	11 22.69	+18 10.6	1.707	2.659	7.9	20.9
4 1	11 14.89	+18 48.1	1.774	2.676	11.3	21.2
4 11	11 9.06	+19 2.1	1.863	2.693	14.4	21.4
4 21	11 5.61	+18 54.5	1.971	2.709	17.0	21.6

168328 1993 NX_{1} 3 12.6 249°.80 0°.8/11.8 17

2 11	11 55.51	+ 2 31.1	1.756	2.616	13.0	21.6
2 21	11 49.54	+ 3 16.3	1.667	2.598	9.2	21.3
3 2	11 41.34	+ 4 14.2	1.602	2.579	4.8	21.0
3 12	11 31.73	+ 5 18.6	1.566	2.559	0.8	20.6
3 22	11 21.75	+ 6 22.2	1.558	2.539	5.1	20.9
4 1	11 12.59	+ 7 17.4	1.578	2.518	9.8	21.1
4 11	11 5.27	+ 7 58.3	1.622	2.496	14.0	21.3
4 21	11 0.45	+ 8 22.0	1.687	2.474	17.6	21.5

425265 2009 WU_{105} 3 12.6 99°.04 3°.9/ 8.5 18

2 11	11 52.46	+11 39.2	1.873	2.750	11.4	20.7
2 21	11 47.04	+12 48.3	1.817	2.755	8.0	20.5
3 2	11 39.83	+13 59.3	1.787	2.760	4.8	20.3
3 12	11 31.64	+15 4.4	1.785	2.765	4.2	20.2
3 22	11 23.44	+15 56.6	1.811	2.770	6.9	20.4
4 1	11 16.19	+16 30.9	1.863	2.775	10.3	20.6
4 11	11 10.67	+16 45.3	1.939	2.780	13.5	20.8
4 21	11 7.33	+16 40.1	2.034	2.784	16.2	21.0

216170 2006 SF_{394} 3 12.6 65°.33 3°.6/ 8.6 17

2 11	11 52.00	+13 15.6	2.270	3.143	9.9	20.5
2 21	11 46.48	+14 0.9	2.211	3.146	7.0	20.3
3 2	11 39.45	+14 45.9	2.178	3.150	4.3	20.2
3 12	11 31.62	+15 24.9	2.175	3.153	3.8	20.1
3 22	11 23.79	+15 53.0	2.200	3.157	6.0	20.3
4 1	11 16.75	+16 7.0	2.252	3.160	9.0	20.5
4 11	11 11.17	+16 5.4	2.329	3.164	11.7	20.7
4 21	11 7.44	+15 48.6	2.427	3.168	14.1	20.8

124517 2001 RC_{72} 3 12.6 135°.89 2°.3/14.5 18

2 11	11 56.85	− 4 58.4	1.646	2.484	14.8	20.4
2 21	11 50.32	− 4 42.7	1.580	2.494	10.9	20.2
3 2	11 41.63	− 4 9.0	1.539	2.504	6.6	19.9
3 12	11 31.75	− 3 21.2	1.524	2.513	2.7	19.7
3 22	11 21.82	− 2 25.7	1.537	2.522	4.4	19.8
4 1	11 13.00	− 1 29.9	1.578	2.530	8.7	20.1
4 11	11 6.24	− 0 40.8	1.644	2.538	12.7	20.4
4 21	11 2.05	− 0 3.4	1.730	2.545	16.1	20.6

16774 1996 VP_{1} 3 12.6 189°.71 5°.4/19.2 18

2 11	11 53.33	−18 0.5	2.668	3.418	12.2	18.8
2 21	11 47.39	−18 5.2	2.575	3.417	10.0	18.7
3 2	11 39.97	−17 50.7	2.506	3.415	7.8	18.5
3 12	11 31.66	−17 17.3	2.464	3.412	5.9	18.4
3 22	11 23.20	−16 27.4	2.451	3.409	5.5	18.4
4 1	11 15.34	−15 25.6	2.467	3.404	6.8	18.4
4 11	11 8.75	−14 17.6	2.510	3.399	9.1	18.6
4 21	11 3.89	−13 9.6	2.579	3.394	11.4	18.7

184134 2004 JQ_{15} 3 12.6 296°.38 3°.5/ 9.5 18

2 11	11 53.42	+ 9 32.6	1.617	2.496	12.8	19.7
2 21	11 48.14	+10 27.2	1.539	2.480	9.0	19.4
3 2	11 40.62	+11 27.6	1.487	2.463	5.1	19.1
3 12	11 31.70	+12 25.8	1.460	2.447	3.7	19.0
3 22	11 22.51	+13 13.5	1.461	2.430	7.1	19.2
4 1	11 14.26	+13 44.2	1.488	2.414	11.4	19.4
4 11	11 7.98	+13 54.3	1.537	2.398	15.4	19.6
4 21	11 4.28	+13 43.5	1.605	2.382	18.7	19.8

51003 2000 GP_{100} 3 12.6 57°.32 5°.0/17.4 18

2 11	11 51.35	−12 59.4	1.537	2.354	16.7	18.7
2 21	11 46.57	−12 37.5	1.474	2.367	13.1	18.5
3 2	11 39.68	−11 47.7	1.433	2.380	9.1	18.3
3 12	11 31.65	−10 33.5	1.417	2.393	5.7	18.1
3 22	11 23.59	− 9 2.1	1.426	2.407	5.5	18.1
4 1	11 16.64	− 7 23.6	1.463	2.420	8.7	18.3
4 11	11 11.70	− 5 48.6	1.524	2.434	12.5	18.6
4 21	11 9.25	− 4 25.4	1.606	2.448	15.9	18.8

408423 2013 HV_{1} 3 12.6 238°.85 6°.7/ 5.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 56.94	+19 45.6	1.896	2.768	11.6	21.3
2 21	11 50.40	+21 4.4	1.827	2.754	8.8	21.1
3 2	11 41.73	+22 18.7	1.785	2.740	6.9	21.0
3 12	11 31.77	+23 19.3	1.770	2.725	7.2	20.9
3 22	11 21.62	+23 58.9	1.782	2.709	9.6	21.0
4 1	11 12.43	+24 13.4	1.820	2.693	12.6	21.2
4 11	11 5.15	+24 2.3	1.880	2.676	15.6	21.4
4 21	11 0.34	+23 28.3	1.957	2.658	18.2	21.5

293972 2007 TJ_{53} 3 12.6 232°.18 0°.4/12.9 17

2 11	11 54.88	− 0 55.7	1.908	2.755	12.7	21.9
2 21	11 48.92	− 0 15.5	1.819	2.742	9.1	21.6
3 2	11 40.95	+ 0 39.2	1.755	2.728	5.0	21.3
3 12	11 31.73	+ 1 43.5	1.719	2.713	0.6	21.0
3 22	11 22.22	+ 2 50.9	1.713	2.697	4.2	21.2
4 1	11 13.48	+ 3 54.0	1.735	2.680	8.6	21.4
4 11	11 6.44	+ 4 46.7	1.783	2.663	12.6	21.6
4 21	11 1.68	+ 5 25.0	1.852	2.645	16.0	21.8

10026 1980 RE_{1} 3 12.6 227°.55 0°.8/13.4 18

2 11	11 51.74	− 2 39.3	2.092	2.934	11.9	18.5
2 21	11 46.54	− 1 48.6	2.005	2.925	8.6	18.2
3 2	11 39.62	− 0 42.6	1.944	2.915	4.8	18.0
3 12	11 31.66	+ 0 33.8	1.912	2.904	1.0	17.7
3 22	11 23.51	+ 1 54.0	1.909	2.893	3.7	17.9
4 1	11 16.06	+ 3 11.0	1.935	2.882	7.7	18.1
4 11	11 10.09	+ 4 18.4	1.987	2.870	11.4	18.3
4 21	11 6.12	+ 5 11.8	2.062	2.858	14.5	18.5

433197 2012 UD_{47} 3 12.6 184°.55 3°.3/16.9 17

2 11	11 49.26	−11 43.3	2.554	3.351	11.4	21.7
2 21	11 44.52	−11 9.8	2.468	3.351	8.9	21.5
3 2	11 38.44	−10 18.6	2.406	3.351	6.1	21.3
3 12	11 31.60	− 9 12.3	2.373	3.350	3.7	21.2
3 22	11 24.66	− 7 55.3	2.370	3.349	3.7	21.1
4 1	11 18.32	− 6 33.4	2.396	3.348	6.1	21.3
4 11	11 13.19	− 5 12.8	2.450	3.347	8.9	21.5
4 21	11 9.68	− 3 58.9	2.528	3.345	11.6	21.6

368240 2001 UX_{157} 3 12.6 99°.98 6°.1/19.3 18

2 11	11 51.47	−17 27.0	1.880	2.660	15.5	20.6
2 21	11 46.45	−17 13.9	1.807	2.669	12.6	20.5
3 2	11 39.57	−16 33.8	1.755	2.678	9.5	20.3
3 12	11 31.66	−15 28.4	1.727	2.687	6.8	20.1
3 22	11 23.67	−14 2.8	1.727	2.696	6.2	20.1
4 1	11 16.59	−12 24.8	1.755	2.705	8.1	20.3
4 11	11 11.23	−10 44.3	1.808	2.713	11.1	20.4
4 21	11 8.09	− 9 9.7	1.885	2.722	14.1	20.7

503102 2015 FK_{315} 3 12.6 92°.94 4°.5/ 7.5 17

2 11	11 52.85	+16 3.1	2.217	3.091	10.1	20.9
2 21	11 47.07	+16 58.8	2.168	3.101	7.2	20.8
3 2	11 39.76	+17 51.8	2.146	3.111	5.0	20.6
3 12	11 31.67	+18 35.8	2.152	3.121	4.8	20.6
3 22	11 23.63	+19 5.7	2.186	3.132	6.9	20.8
4 1	11 16.46	+19 18.6	2.248	3.142	9.7	21.0
4 11	11 10.83	+19 13.8	2.333	3.151	12.2	21.2
4 21	11 7.13	+18 52.4	2.438	3.161	14.4	21.3

465425 2008 PK_{15} 3 12.6 220°.15 0°.7/13.2 17

2 11	11 53.48	− 0 41.3	2.091	2.937	11.8	22.2
2 21	11 47.72	− 0 20.6	2.010	2.931	8.5	21.9
3 2	11 40.22	+ 0 11.7	1.954	2.926	4.7	21.7
3 12	11 31.70	+ 0 51.6	1.927	2.920	0.9	21.4
3 22	11 23.02	+ 1 34.2	1.929	2.914	3.7	21.6
4 1	11 15.10	+ 2 14.1	1.960	2.907	7.6	21.8
4 11	11 8.71	+ 2 46.4	2.017	2.901	11.2	22.0
4 21	11 4.37	+ 3 8.2	2.096	2.894	14.3	22.2

122998 2000 SK_{252} 3 12.6 115°.46 0°.3/12.2 18

2 11	11 51.86	+ 0 38.8	2.083	2.936	11.5	20.5
2 21	11 46.43	+ 1 40.6	2.024	2.951	8.0	20.3
3 2	11 39.45	+ 2 53.5	1.991	2.966	4.2	20.1
3 12	11 31.65	+ 4 11.3	1.987	2.981	0.4	19.8
3 22	11 23.88	+ 5 27.2	2.013	2.995	4.0	20.2
4 1	11 16.95	+ 6 35.0	2.068	3.008	7.8	20.4
4 11	11 11.55	+ 7 29.7	2.149	3.022	11.1	20.7
4 21	11 8.08	+ 8 8.9	2.251	3.034	13.8	20.9

386206 2007 VL_{308} 3 12.6 60°.44 0°.3/12.3 17

2 11	11 51.03	+ 1 57.2	2.093	2.951	11.3	21.7
2 21	11 45.88	+ 2 30.8	2.031	2.960	7.9	21.5
3 2	11 39.18	+ 3 13.5	1.994	2.970	4.1	21.2
3 12	11 31.65	+ 4 0.5	1.986	2.980	0.3	20.9
3 22	11 24.11	+ 4 46.4	2.007	2.990	3.9	21.3
4 1	11 17.39	+ 5 26.0	2.057	3.000	7.6	21.5
4 11	11 12.17	+ 5 55.4	2.131	3.010	10.9	21.7
4 21	11 8.85	+ 6 12.5	2.228	3.020	13.7	21.9

24294 1999 XE_{193} 3 12.6 198°.52 3°.2/15.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 55.69	− 8 11.7	2.147	2.960	12.8	19.0
2 21	11 49.29	− 8 9.0	2.061	2.956	9.7	18.8
3 2	11 41.07	− 7 49.9	1.999	2.952	6.4	18.5
3 12	11 31.76	− 7 16.1	1.965	2.947	3.6	18.4
3 22	11 22.25	− 6 31.7	1.960	2.942	4.2	18.4
4 1	11 13.49	− 5 42.1	1.985	2.935	7.4	18.6
4 11	11 6.30	− 4 53.4	2.037	2.928	10.8	18.8
4 21	11 1.20	− 4 10.7	2.111	2.920	13.8	18.9

240580 2004 TU_{113} 3 12.6 201°.94 3°.6/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.32	+10 33.9	1.745	2.616	12.4	21.1
2 21	11 50.67	+11 28.1	1.677	2.613	8.7	20.9
3 2	11 41.86	+12 25.7	1.635	2.609	5.0	20.7
3 12	11 31.80	+13 18.7	1.621	2.605	3.8	20.6
3 22	11 21.63	+14 0.0	1.635	2.600	6.9	20.8
4 1	11 12.50	+14 24.3	1.676	2.595	10.8	21.0
4 11	11 5.36	+14 29.3	1.741	2.588	14.5	21.2
4 21	11 0.74	+14 15.2	1.824	2.582	17.5	21.4

166284 2002 GM_{125} 3 12.6 242°.00 2°.3/14.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.07	− 6 3.4	1.707	2.545	14.4	20.7
2 21	11 47.81	− 5 30.1	1.622	2.535	10.7	20.4
3 2	11 40.43	− 4 36.0	1.560	2.525	6.5	20.2
3 12	11 31.73	− 3 25.3	1.525	2.515	2.7	19.9
3 22	11 22.76	− 2 4.8	1.518	2.504	4.3	20.0
4 1	11 14.65	− 0 43.3	1.539	2.493	8.7	20.2
4 11	11 8.38	+ 0 30.8	1.584	2.482	12.9	20.4
4 21	11 4.55	+ 1 31.1	1.651	2.470	16.6	20.6

83818 2001 TO_{240} 3 12.6 345°.40 4°.5/17.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.77	−12 7.3	2.023	2.829	13.6	19.2
2 21	11 45.21	−12 6.5	1.940	2.826	10.8	19.0
3 2	11 38.93	−11 45.4	1.880	2.823	7.6	18.8
3 12	11 31.65	−11 5.5	1.846	2.820	5.0	18.6
3 22	11 24.19	−10 10.7	1.840	2.817	4.9	18.6
4 1	11 17.47	− 9 7.1	1.861	2.815	7.5	18.7
4 11	11 12.28	− 8 2.0	1.908	2.813	10.7	18.9
4 21	11 9.10	− 7 1.7	1.977	2.811	13.7	19.1

145416 2005 OA_{24} 3 12.6 154°.93 1°.4/14.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.19	− 4 29.4	2.678	3.507	10.0	20.9
2 21	11 44.39	− 3 54.8	2.601	3.511	7.3	20.7
3 2	11 38.34	− 3 8.4	2.550	3.515	4.3	20.5
3 12	11 31.61	− 2 13.3	2.529	3.519	1.6	20.4
3 22	11 24.82	− 1 14.0	2.538	3.523	2.9	20.5
4 1	11 18.62	− 0 15.4	2.576	3.526	5.9	20.7
4 11	11 13.56	+ 0 38.2	2.642	3.529	8.8	20.8
4 21	11 10.02	+ 1 23.1	2.732	3.532	11.2	21.0

508602 2017 RY_{7} 3 12.6 193°.06 0°.9/13.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.64	− 2 29.7	2.219	3.061	11.3	21.6
2 21	11 45.63	− 1 49.4	2.141	3.060	8.2	21.4
3 2	11 39.08	− 0 55.9	2.089	3.059	4.6	21.1
3 12	11 31.65	+ 0 6.4	2.065	3.058	1.1	20.9
3 22	11 24.12	+ 1 12.0	2.071	3.056	3.4	21.0
4 1	11 17.29	+ 2 14.8	2.106	3.054	7.1	21.3
4 11	11 11.86	+ 3 9.4	2.167	3.052	10.5	21.5
4 21	11 8.26	+ 3 52.2	2.251	3.050	13.4	21.7

341780 2007 WS_{24} 3 12.6 156°.46 0°.7/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.50	+ 3 9.5	2.409	3.265	10.0	21.7
2 21	11 45.40	+ 3 55.2	2.339	3.269	7.0	21.5
3 2	11 38.90	+ 4 48.6	2.296	3.272	3.6	21.3
3 12	11 31.64	+ 5 45.0	2.282	3.275	0.8	21.1
3 22	11 24.33	+ 6 39.2	2.298	3.278	3.8	21.3
4 1	11 17.70	+ 7 26.3	2.344	3.281	7.2	21.6
4 11	11 12.36	+ 8 2.7	2.415	3.283	10.2	21.8
4 21	11 8.71	+ 8 26.3	2.509	3.285	12.8	21.9

396628 2001 UK_{56} 3 12.6 152°.67 0°.1/12.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.80	+ 0 39.4	1.876	2.725	12.8	22.8
2 21	11 50.07	+ 1 21.4	1.811	2.736	9.0	22.6
3 2	11 41.45	+ 2 15.2	1.771	2.745	4.7	22.3
3 12	11 31.78	+ 3 15.1	1.761	2.754	0.2	22.0
3 22	11 22.10	+ 4 14.5	1.779	2.762	4.3	22.3
4 1	11 13.41	+ 5 7.0	1.827	2.769	8.5	22.6
4 11	11 6.55	+ 5 47.5	1.900	2.775	12.2	22.8
4 21	11 1.99	+ 6 13.5	1.995	2.781	15.3	23.1

183728 2003 YK_{99} 3 12.6 148°.01 1°.4/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.64	+ 4 16.7	1.994	2.854	11.7	20.9
2 21	11 48.47	+ 5 12.2	1.932	2.864	8.1	20.7
3 2	11 40.58	+ 6 16.0	1.897	2.873	4.1	20.5
3 12	11 31.75	+ 7 21.6	1.890	2.882	1.4	20.3
3 22	11 22.90	+ 8 22.4	1.913	2.890	4.8	20.5
4 1	11 14.98	+ 9 12.7	1.964	2.897	8.6	20.8
4 11	11 8.72	+ 9 48.4	2.041	2.904	12.0	21.0
4 21	11 4.58	+10 8.1	2.139	2.910	14.8	21.2

19159 Taenakano 3 12.6 128°.84 1°.7/11.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 54.86	+ 6 40.8	1.996	2.860	11.4	17.9
2 21	11 48.65	+ 7 8.3	1.932	2.865	7.9	17.7
3 2	11 40.68	+ 7 41.0	1.893	2.870	4.1	17.4
3 12	11 31.76	+ 8 13.6	1.883	2.874	1.7	17.3
3 22	11 22.81	+ 8 40.9	1.902	2.879	4.9	17.5
4 1	11 14.77	+ 8 58.6	1.949	2.883	8.6	17.7
4 11	11 8.42	+ 9 4.0	2.021	2.887	12.0	18.0
4 21	11 4.19	+ 8 56.2	2.114	2.891	14.8	18.2

375313 2008 RD_{39} 3 12.6 135°.23 0°.0/12.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.90	+ 0 4.7	2.000	2.854	11.9	21.3
2 21	11 45.91	+ 0 54.6	1.929	2.857	8.4	21.1
3 2	11 39.26	+ 1 56.8	1.885	2.859	4.4	20.8
3 12	11 31.68	+ 3 5.8	1.868	2.862	0.2	20.5
3 22	11 24.02	+ 4 15.0	1.881	2.864	4.0	20.8
4 1	11 17.16	+ 5 17.7	1.922	2.867	8.0	21.1
4 11	11 11.85	+ 6 8.8	1.988	2.869	11.5	21.3
4 21	11 8.54	+ 6 45.1	2.076	2.871	14.5	21.5

106898 2000 YU_{43} 3 12.6 105°.24 0°.5/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.44	− 0 36.7	1.697	2.548	13.8	20.4
2 21	11 49.86	− 0 1.0	1.644	2.569	9.8	20.2
3 2	11 41.32	+ 0 48.0	1.615	2.589	5.3	19.9
3 12	11 31.79	+ 1 44.7	1.615	2.608	0.7	19.6
3 22	11 22.35	+ 2 41.8	1.642	2.627	4.3	20.0
4 1	11 14.07	+ 3 32.8	1.698	2.645	8.6	20.3
4 11	11 7.77	+ 4 12.2	1.779	2.663	12.5	20.5
4 21	11 3.89	+ 4 37.2	1.880	2.680	15.6	20.8

288554 2004 GH_{62} 3 12.6 219°.69 0°.4/13.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.67	− 0 59.8	2.657	3.499	9.7	21.8
2 21	11 44.78	− 0 21.0	2.572	3.492	6.9	21.6
3 2	11 38.59	+ 0 28.0	2.514	3.485	3.8	21.4
3 12	11 31.65	+ 1 23.4	2.485	3.478	0.6	21.1
3 22	11 24.58	+ 2 20.7	2.486	3.470	3.1	21.3
4 1	11 18.08	+ 3 15.2	2.518	3.463	6.3	21.5
4 11	11 12.71	+ 4 2.5	2.576	3.454	9.3	21.7
4 21	11 8.89	+ 4 39.7	2.658	3.446	11.8	21.8

192769 1999 TF_{321} 3 12.6 101°.80 1°.0/13.6 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.06	− 1 48.1	1.999	2.844	12.3	20.2
2 21	11 47.38	− 1 26.4	1.933	2.854	8.8	20.0
3 2	11 40.01	− 0 52.2	1.893	2.863	4.9	19.8
3 12	11 31.72	− 0 9.6	1.880	2.872	1.2	19.5
3 22	11 23.41	+ 0 36.1	1.896	2.882	3.7	19.7
4 1	11 15.97	+ 1 19.4	1.941	2.891	7.5	20.0
4 11	11 10.14	+ 1 55.1	2.011	2.899	11.0	20.2
4 21	11 6.37	+ 2 20.2	2.104	2.908	14.0	20.4

294660 2008 AV_{84} 3 12.6 250°.91 2°.9/15.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.62	− 8 6.9	2.360	3.177	11.6	20.3
2 21	11 45.58	− 8 0.2	2.278	3.176	8.8	20.1
3 2	11 39.06	− 7 38.4	2.220	3.174	5.8	19.9
3 12	11 31.68	− 7 3.9	2.190	3.173	3.2	19.7
3 22	11 24.18	− 6 20.2	2.189	3.171	3.7	19.8
4 1	11 17.32	− 5 32.2	2.217	3.170	6.5	19.9
4 11	11 11.79	− 4 45.3	2.272	3.168	9.6	20.1
4 21	11 8.01	− 4 4.0	2.350	3.167	12.3	20.3

263572 2008 FL_{77} 3 12.6 128°.84 0°.1/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.15	+ 0 26.9	1.941	2.792	12.3	21.4
2 21	11 48.16	+ 1 6.2	1.878	2.804	8.7	21.2
3 2	11 40.43	+ 1 57.0	1.841	2.815	4.6	21.0
3 12	11 31.75	+ 2 53.8	1.832	2.826	0.3	20.6
3 22	11 23.07	+ 3 50.4	1.853	2.836	4.0	21.0
4 1	11 15.33	+ 4 40.7	1.902	2.846	8.1	21.2
4 11	11 9.27	+ 5 20.0	1.976	2.855	11.6	21.5
4 21	11 5.35	+ 5 45.7	2.072	2.864	14.6	21.7

432045 2008 WY_{115} 3 12.6 95°.93 1°.7/10.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.23	+ 6 19.5	2.116	2.981	10.8	21.4
2 21	11 46.70	+ 7 5.0	2.058	2.993	7.5	21.2
3 2	11 39.61	+ 7 56.0	2.027	3.004	3.9	21.0
3 12	11 31.71	+ 8 46.7	2.024	3.015	1.8	20.9
3 22	11 23.82	+ 9 31.7	2.051	3.026	4.7	21.1
4 1	11 16.79	+10 6.3	2.106	3.037	8.2	21.3
4 11	11 11.28	+10 27.5	2.186	3.048	11.4	21.5
4 21	11 7.69	+10 34.3	2.287	3.059	14.0	21.7

286244 2001 UW_{210} 3 12.6 71°.59 0°.3/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.37	+ 2 25.3	2.153	3.009	11.1	20.8
2 21	11 46.76	+ 2 49.8	2.095	3.023	7.7	20.7
3 2	11 39.63	+ 3 22.3	2.062	3.038	4.0	20.5
3 12	11 31.71	+ 3 58.4	2.059	3.052	0.3	20.2
3 22	11 23.83	+ 4 33.3	2.084	3.067	3.8	20.5
4 1	11 16.79	+ 5 2.6	2.138	3.081	7.4	20.7
4 11	11 11.24	+ 5 22.7	2.218	3.096	10.6	21.0
4 21	11 7.59	+ 5 31.9	2.320	3.110	13.3	21.2

122293 2000 PP_{20} 3 12.6 116°.93 0°.5/13.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 57.81	+ 1 8.6	1.950	2.798	12.4	19.0
2 21	11 50.72	+ 1 7.0	1.885	2.808	8.8	18.8
3 2	11 41.78	+ 1 14.5	1.845	2.818	4.8	18.6
3 12	11 31.84	+ 1 27.7	1.834	2.828	0.7	18.3
3 22	11 21.88	+ 1 42.5	1.853	2.837	3.9	18.6
4 1	11 12.92	+ 1 54.5	1.900	2.846	7.9	18.8
4 11	11 5.75	+ 2 0.2	1.974	2.855	11.5	19.1
4 21	11 0.85	+ 1 57.3	2.069	2.864	14.5	19.3

255491 2006 AO_{20} 3 12.6 0°.76 4°.0/10.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.88	+ 9 22.3	1.027	1.924	16.8	19.5
2 21	11 49.13	+ 9 58.9	0.973	1.922	11.8	19.2
3 2	11 41.35	+10 41.4	0.941	1.920	6.5	18.9
3 12	11 31.81	+11 19.5	0.931	1.920	4.1	18.7
3 22	11 22.19	+11 43.3	0.944	1.921	8.4	19.0
4 1	11 14.18	+11 46.1	0.979	1.923	13.8	19.3
4 11	11 9.04	+11 25.6	1.034	1.926	18.6	19.6
4 21	11 7.31	+10 43.2	1.105	1.931	22.6	19.8

259010 2002 TC_{118} 3 12.6 98°.27 6°.1/19.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.67	−17 19.9	1.792	2.574	16.1	20.5
2 21	11 47.32	−17 4.4	1.725	2.589	13.0	20.3
3 2	11 40.06	−16 21.0	1.678	2.604	9.7	20.1
3 12	11 31.75	−15 11.5	1.657	2.619	6.9	20.0
3 22	11 23.41	−13 41.7	1.663	2.633	6.3	20.0
4 1	11 16.07	−12 0.3	1.696	2.647	8.3	20.1
4 11	11 10.58	−10 17.5	1.755	2.661	11.4	20.3
4 21	11 7.40	− 8 41.9	1.838	2.674	14.4	20.6

294156 2007 TH_{337} 3 12.6 178°.24 3°.0/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.08	+ 9 17.4	1.789	2.659	12.3	21.2
2 21	11 50.42	+10 8.1	1.725	2.660	8.6	21.0
3 2	11 41.70	+11 3.0	1.686	2.662	4.7	20.8
3 12	11 31.84	+11 54.6	1.676	2.662	3.2	20.7
3 22	11 21.91	+12 36.2	1.694	2.662	6.3	20.9
4 1	11 13.03	+13 2.6	1.739	2.662	10.2	21.1
4 11	11 6.07	+13 11.1	1.809	2.661	13.8	21.3
4 21	11 1.55	+13 2.0	1.898	2.659	16.8	21.5

188807 2005 WM_{116} 3 12.6 137°.44 0°.4/12.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.10	+ 1 51.9	2.258	3.109	10.8	21.1
2 21	11 47.24	+ 2 39.1	2.195	3.122	7.6	20.9
3 2	11 39.89	+ 3 35.3	2.159	3.134	3.9	20.7
3 12	11 31.74	+ 4 35.4	2.152	3.146	0.4	20.4
3 22	11 23.59	+ 5 33.6	2.176	3.157	3.8	20.7
4 1	11 16.24	+ 6 24.8	2.229	3.168	7.4	21.0
4 11	11 10.35	+ 7 5.0	2.308	3.177	10.6	21.2
4 21	11 6.30	+ 7 32.0	2.409	3.187	13.2	21.4

500575 2012 UK_{79} 3 12.6 94°.22 4°.2/17.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.10	−12 53.8	2.345	3.139	12.4	21.2
2 21	11 45.21	−12 44.9	2.268	3.145	9.8	21.0
3 2	11 38.86	−12 17.4	2.214	3.152	7.0	20.8
3 12	11 31.68	−11 33.2	2.188	3.158	4.6	20.7
3 22	11 24.43	−10 36.2	2.190	3.165	4.5	20.7
4 1	11 17.87	− 9 31.8	2.220	3.171	6.6	20.8
4 11	11 12.66	− 8 26.3	2.278	3.178	9.4	21.0
4 21	11 9.21	− 7 25.2	2.359	3.184	12.0	21.2

240853 2006 BQ_{156} 3 12.6 232°.31 2°.8/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.93	+ 6 26.8	1.666	2.538	12.9	21.0
2 21	11 48.44	+ 7 45.3	1.591	2.529	9.0	20.7
3 2	11 40.77	+ 9 14.0	1.542	2.520	4.8	20.5
3 12	11 31.80	+10 43.9	1.521	2.510	2.9	20.3
3 22	11 22.60	+12 5.5	1.528	2.499	6.5	20.5
4 1	11 14.33	+13 10.8	1.562	2.488	10.9	20.7
4 11	11 7.99	+13 54.7	1.619	2.477	14.9	20.9
4 21	11 4.15	+14 15.9	1.695	2.465	18.2	21.1

279840 2000 TF_{12} 3 12.6 206°.19 2°.0/14.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.53	− 6 38.3	1.956	2.788	13.0	20.6
2 21	11 45.75	− 5 50.2	1.876	2.786	9.7	20.4
3 2	11 39.24	− 4 42.9	1.821	2.785	5.9	20.2
3 12	11 31.71	− 3 21.1	1.793	2.783	2.4	20.0
3 22	11 24.05	− 1 51.4	1.795	2.781	3.7	20.0
4 1	11 17.17	− 0 22.0	1.825	2.778	7.6	20.3
4 11	11 11.86	+ 0 59.4	1.881	2.776	11.3	20.5
4 21	11 8.61	+ 2 7.6	1.959	2.773	14.5	20.7

406470 2007 UB_{59} 3 12.6 136°.78 1°.3/11.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.37	+ 4 22.4	1.878	2.737	12.3	22.4
2 21	11 49.75	+ 5 7.4	1.819	2.750	8.5	22.2
3 2	11 41.28	+ 6 0.4	1.786	2.763	4.4	22.0
3 12	11 31.82	+ 6 55.2	1.782	2.774	1.3	21.8
3 22	11 22.40	+ 7 45.4	1.807	2.785	4.8	22.0
4 1	11 14.00	+ 8 25.2	1.860	2.796	8.9	22.3
4 11	11 7.42	+ 8 51.1	1.939	2.805	12.4	22.5
4 21	11 3.11	+ 9 1.8	2.038	2.814	15.3	22.7

48412 1986 QN_1 3 12.6 148°.30 0°.8/13.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 54.22	− 0 19.4	2.451	3.290	10.5	18.9
2 21	11 47.98	− 0 13.5	2.378	3.296	7.5	18.7
3 2	11 40.28	+ 0 1.2	2.331	3.302	4.2	18.5
3 12	11 31.77	+ 0 21.6	2.314	3.307	0.9	18.3
3 22	11 23.22	+ 0 44.3	2.328	3.312	3.2	18.5
4 1	11 15.38	+ 1 5.5	2.371	3.317	6.6	18.7
4 11	11 8.91	+ 1 21.6	2.441	3.321	9.7	18.9
4 21	11 4.22	+ 1 30.3	2.535	3.326	12.3	19.1

433682 2014 OU_{157} 3 12.6 262°.64 1°.6/11.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.20	+ 5 3.7	1.495	2.365	14.2	21.5
2 21	11 51.03	+ 5 38.0	1.414	2.349	10.1	21.3
3 2	11 42.29	+ 6 22.7	1.356	2.333	5.3	20.9
3 12	11 31.90	+ 7 10.9	1.325	2.317	1.7	20.6
3 22	11 21.13	+ 7 54.6	1.321	2.300	6.0	20.9
4 1	11 11.38	+ 8 26.7	1.343	2.283	11.1	21.1
4 11	11 3.84	+ 8 42.1	1.389	2.266	15.7	21.3
4 21	10 59.21	+ 8 39.2	1.452	2.249	19.5	21.6

132017 2002 CC_{106} 3 12.6 61°.46 1°.9/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.48	+ 5 7.3	1.287	2.165	15.5	19.3
2 21	11 50.30	+ 5 50.0	1.243	2.182	10.7	19.0
3 2	11 41.69	+ 6 42.3	1.222	2.200	5.5	18.8
3 12	11 31.86	+ 7 35.3	1.227	2.219	1.9	18.6
3 22	11 22.20	+ 8 20.7	1.257	2.237	6.2	18.9
4 1	11 14.04	+ 8 51.4	1.313	2.256	11.1	19.2
4 11	11 8.36	+ 9 4.0	1.391	2.274	15.3	19.5
4 21	11 5.56	+ 8 58.0	1.488	2.293	18.7	19.8

413504 2005 QC_{126} 3 12.6 71°.02 0°.5/12.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.76	+ 1 3.1	1.636	2.499	13.6	21.1
2 21	11 47.35	+ 2 1.4	1.586	2.518	9.5	20.9
3 2	11 40.04	+ 3 12.3	1.561	2.538	4.9	20.7
3 12	11 31.77	+ 4 28.3	1.564	2.557	0.5	20.4
3 22	11 23.58	+ 5 41.2	1.594	2.577	4.7	20.8
4 1	11 16.52	+ 6 43.6	1.652	2.596	9.1	21.1
4 11	11 11.36	+ 7 30.3	1.734	2.615	12.8	21.3
4 21	11 8.51	+ 7 59.1	1.836	2.635	15.9	21.6

260991 2005 SP_{81} 3 12.6 113°.05 0°.3/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.59	+ 1 42.9	1.820	2.679	12.6	21.6
2 21	11 47.90	+ 2 20.7	1.756	2.686	8.9	21.4
3 2	11 40.35	+ 3 9.4	1.717	2.693	4.6	21.1
3 12	11 31.79	+ 4 3.4	1.706	2.700	0.4	20.8
3 22	11 23.19	+ 4 56.1	1.724	2.707	4.4	21.1
4 1	11 15.56	+ 5 41.4	1.769	2.713	8.6	21.4
4 11	11 9.69	+ 6 14.6	1.839	2.720	12.3	21.6
4 21	11 6.05	+ 6 33.3	1.931	2.726	15.4	21.9

122547 2000 QC_{228} 3 12.6 113°.16 1°.1/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.89	+ 4 7.6	1.967	2.828	11.7	19.9
2 21	11 47.97	+ 4 47.4	1.908	2.840	8.1	19.7
3 2	11 40.33	+ 5 35.0	1.874	2.851	4.2	19.5
3 12	11 31.79	+ 6 24.7	1.869	2.862	1.1	19.3
3 22	11 23.27	+ 7 10.6	1.893	2.872	4.5	19.6
4 1	11 15.67	+ 7 47.5	1.945	2.883	8.4	19.8
4 11	11 9.74	+ 8 11.8	2.022	2.893	11.8	20.1
4 21	11 5.91	+ 8 22.0	2.121	2.903	14.6	20.3

447716 2007 EX_{135} 3 12.6 92°.36 0°.4/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.51	− 1 21.5	1.338	2.200	16.1	21.6
2 21	11 49.65	− 0 30.6	1.285	2.215	11.4	21.4
3 2	11 41.39	+ 0 38.7	1.255	2.230	6.1	21.1
3 12	11 31.85	+ 1 58.5	1.250	2.244	0.7	20.8
3 22	11 22.37	+ 3 18.6	1.273	2.258	5.1	21.1
4 1	11 14.25	+ 4 29.5	1.321	2.272	10.2	21.4
4 11	11 8.49	+ 5 23.9	1.393	2.285	14.7	21.7
4 21	11 5.56	+ 5 58.5	1.483	2.299	18.3	22.0

457763 2009 JD_9 3 12.6 301°.81 3°.0/ 9.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.45	+ 4 26.4	1.440	2.321	13.9	20.8
2 21	11 45.56	+ 6 19.8	1.364	2.306	9.7	20.5
3 2	11 39.38	+ 8 30.6	1.313	2.292	5.1	20.2
3 12	11 31.75	+10 47.0	1.288	2.277	3.3	20.1
3 22	11 23.82	+12 55.5	1.292	2.263	7.4	20.3
4 1	11 16.83	+14 43.8	1.320	2.249	12.3	20.5
4 11	11 11.88	+16 4.0	1.371	2.236	16.7	20.7
4 21	11 9.58	+16 53.7	1.440	2.222	20.3	20.9

377231 2004 BA 3 12.6 42°.09 18°.1/22.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.72	−26 0.7	0.995	1.764	27.0	20.4
2 21	11 56.97	−28 53.2	0.942	1.771	24.1	20.2
3 2	11 46.00	−31 4.1	0.904	1.779	21.2	20.1
3 12	11 32.14	−32 20.6	0.883	1.787	18.9	20.0
3 22	11 17.55	−32 36.9	0.880	1.795	18.1	19.9
4 1	11 4.77	−31 58.1	0.896	1.804	18.8	20.0
4 11	10 55.83	−30 40.4	0.929	1.814	20.9	20.2
4 21	10 51.63	−29 3.4	0.977	1.824	23.4	20.4

232915 2004 YN_{23} 3 12.6 43°.34 1°.1/11.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 51.50	+ 3 47.9	1.913	2.779	11.8	20.7
2 21	11 46.40	+ 4 32.3	1.847	2.781	8.2	20.5
3 2	11 39.56	+ 5 25.6	1.807	2.784	4.2	20.3
3 12	11 31.77	+ 6 21.9	1.795	2.787	1.1	20.1
3 22	11 23.91	+ 7 14.8	1.811	2.791	4.6	20.3
4 1	11 16.92	+ 7 58.6	1.854	2.794	8.6	20.6
4 11	11 11.55	+ 8 28.9	1.923	2.797	12.1	20.8
4 21	11 8.27	+ 8 44.0	2.012	2.801	15.1	21.0

385864 2006 RR_{15} 3 12.6 112°.09 3°.0/16.1 18

2 11	11 56.12	− 8 45.8	2.857	3.651	10.4	21.5
2 21	11 49.11	− 9 4.5	2.788	3.672	8.0	21.3
3 2	11 40.82	− 9 11.1	2.747	3.692	5.4	21.2
3 12	11 31.84	− 9 6.7	2.735	3.712	3.3	21.1
3 22	11 22.87	− 8 53.7	2.755	3.731	3.6	21.1
4 1	11 14.57	− 8 35.2	2.805	3.750	5.8	21.3
4 11	11 7.54	− 8 14.8	2.884	3.768	8.2	21.5
4 21	11 2.13	− 7 56.2	2.987	3.786	10.4	21.6

458998 2011 WO_{137} 3 12.6 114°.90 0°.1/12.7 18

2 11	11 56.31	+ 0 17.4	1.726	2.579	13.5	22.8
2 21	11 49.80	+ 0 55.7	1.670	2.596	9.5	22.6
3 2	11 41.35	+ 1 46.6	1.639	2.613	5.1	22.4
3 12	11 31.87	+ 2 44.0	1.635	2.629	0.3	22.0
3 22	11 22.45	+ 3 41.0	1.661	2.645	4.4	22.4
4 1	11 14.16	+ 4 31.0	1.714	2.660	8.7	22.7
4 11	11 7.81	+ 5 8.8	1.793	2.674	12.5	22.9
4 21	11 3.85	+ 5 31.9	1.892	2.688	15.6	23.2

424997 2009 CH_{45} 3 12.6 118°.61 1°.8/14.5 17

2 11	11 53.00	− 4 12.6	2.328	3.157	11.3	21.5
2 21	11 47.19	− 4 5.0	2.257	3.167	8.3	21.3
3 2	11 39.90	− 3 45.3	2.212	3.176	5.0	21.2
3 12	11 31.79	− 3 16.2	2.196	3.185	2.1	21.0
3 22	11 23.65	− 2 41.6	2.210	3.194	3.3	21.1
4 1	11 16.24	− 2 6.1	2.253	3.203	6.6	21.3
4 11	11 10.24	− 1 34.2	2.322	3.212	9.7	21.5
4 21	11 6.06	− 1 9.3	2.415	3.220	12.4	21.7

412210 2013 GD_{111} 3 12.6 303°.60 1°.1/11.7 17

2 11	11 52.81	+ 2 42.9	1.398	2.272	14.7	20.5
2 21	11 47.99	+ 3 30.4	1.322	2.259	10.4	20.2
3 2	11 40.70	+ 4 32.7	1.269	2.247	5.4	19.9
3 12	11 31.86	+ 5 42.2	1.242	2.235	1.1	19.6
3 22	11 22.72	+ 6 49.8	1.241	2.223	5.8	19.9
4 1	11 14.62	+ 7 46.1	1.265	2.211	11.0	20.1
4 11	11 8.71	+ 8 24.6	1.312	2.200	15.7	20.4
4 21	11 5.63	+ 8 42.3	1.377	2.189	19.6	20.6

73498 2002 RP_{25} 3 12.6 50°.73 3°.6/16.5 18

2 11	11 51.12	−10 5.8	1.823	2.643	14.4	18.2
2 21	11 46.07	− 9 40.6	1.773	2.671	10.9	18.1
3 2	11 39.34	− 8 54.8	1.745	2.698	7.2	17.9
3 12	11 31.78	− 7 52.2	1.744	2.725	4.1	17.8
3 22	11 24.31	− 6 39.3	1.771	2.753	4.3	17.8
4 1	11 17.85	− 5 23.8	1.825	2.781	7.4	18.1
4 11	11 13.10	− 4 13.0	1.905	2.809	10.7	18.3
4 21	11 10.43	− 3 12.5	2.008	2.837	13.7	18.6

523588 2000 CN_{105} 3 12.6 127°.23 0°.0/11.7 18

2 11	11 33.30	+ 5 12.1	46.414	47.268	0.6	22.4
2 21	11 32.70	+ 5 16.1	46.340	47.269	0.4	22.4
3 2	11 32.05	+ 5 20.3	46.295	47.271	0.2	22.4
3 12	11 31.37	+ 5 24.6	46.280	47.273	0.0	22.3
3 22	11 30.69	+ 5 28.8	46.295	47.275	0.2	22.4
4 1	11 30.04	+ 5 32.8	46.340	47.277	0.4	22.4
4 11	11 29.43	+ 5 36.4	46.413	47.278	0.6	22.4
4 21	11 28.88	+ 5 39.5	46.511	47.280	0.8	22.4

84447 Jeffkanipe 3 12.6 58°.44 4°.9/ 7.7 18

2 11	11 52.32	+12 2.4	1.596	2.480	12.7	19.4
2 21	11 47.27	+13 36.8	1.541	2.482	8.9	19.2
3 2	11 40.14	+15 14.2	1.511	2.484	5.6	19.0
3 12	11 31.84	+16 44.0	1.509	2.486	5.3	19.0
3 22	11 23.48	+17 56.8	1.533	2.488	8.4	19.2
4 1	11 16.19	+18 46.2	1.583	2.490	12.1	19.4
4 11	11 10.89	+19 9.6	1.654	2.493	15.5	19.6
4 21	11 8.05	+19 8.3	1.744	2.495	18.4	19.8

340773 2006 SR_{351} 3 12.6 186°.51 2°.3/10.1 17

2 11	11 52.81	+ 9 32.2	2.458	3.322	9.5	20.8
2 21	11 47.03	+10 5.3	2.389	3.322	6.6	20.6
3 2	11 39.82	+10 40.7	2.347	3.322	3.6	20.4
3 12	11 31.82	+11 13.7	2.334	3.321	2.4	20.3
3 22	11 23.77	+11 40.1	2.352	3.321	4.8	20.5
4 1	11 16.43	+11 56.4	2.398	3.320	7.8	20.7
4 11	11 10.43	+12 0.4	2.469	3.318	10.7	20.8
4 21	11 6.18	+11 51.9	2.563	3.317	13.1	21.0

216975 2000 NS_3 3 12.6 124°.99 3°.9/16.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 55.50	−11 25.2	2.376	3.168	12.3	19.7
2 21	11 48.92	−11 28.1	2.308	3.186	9.6	19.6
3 2	11 40.82	−11 14.1	2.265	3.205	6.7	19.4
3 12	11 31.90	−10 45.0	2.249	3.222	4.3	19.3
3 22	11 22.97	−10 4.3	2.264	3.239	4.3	19.3
4 1	11 14.85	− 9 16.7	2.308	3.255	6.7	19.5
4 11	11 8.19	− 8 28.0	2.379	3.271	9.4	19.7
4 21	11 3.43	− 7 43.1	2.475	3.285	12.0	19.9

369314 2009 SL_{101} 3 12.6 140°.52 3°.4/16.3 15

2 11	11 54.18	− 9 41.6	2.295	3.100	12.3	21.8
2 21	11 48.07	− 9 35.6	2.222	3.111	9.4	21.6
3 2	11 40.41	− 9 13.1	2.174	3.122	6.3	21.4
3 12	11 31.88	− 8 36.3	2.154	3.132	3.8	21.3
3 22	11 23.30	− 7 49.0	2.163	3.142	4.0	21.3
4 1	11 15.48	− 6 56.7	2.201	3.152	6.7	21.5
4 11	11 9.14	− 6 4.9	2.267	3.160	9.7	21.7
4 21	11 4.69	− 5 18.6	2.356	3.169	12.4	21.9

14042 Agafonov 3 12.6 170°.29 1°.7/11.2 18

2 11	11 57.97	+ 5 10.0	1.707	2.570	13.1	19.2
2 21	11 51.14	+ 5 55.1	1.641	2.574	9.2	18.9
3 2	11 42.17	+ 6 48.8	1.601	2.577	4.7	18.7
3 12	11 31.98	+ 7 44.1	1.588	2.580	1.7	18.5
3 22	11 21.73	+ 8 33.7	1.605	2.582	5.5	18.7
4 1	11 12.56	+ 9 11.5	1.649	2.584	9.8	19.0
4 11	11 5.41	+ 9 33.5	1.717	2.584	13.7	19.2
4 21	11 0.80	+ 9 38.6	1.806	2.584	16.9	19.4

364280 2006 TC_{66} 3 12.6 201°.37 3°.3/ 9.3 16

2 11	11 56.04	+10 54.3	2.058	2.925	11.0	22.2
2 21	11 49.58	+11 48.3	1.987	2.921	7.7	22.0
3 2	11 41.28	+12 44.8	1.943	2.917	4.5	21.8
3 12	11 31.94	+13 37.1	1.928	2.911	3.5	21.7
3 22	11 22.48	+14 19.2	1.943	2.906	6.2	21.8
4 1	11 13.87	+14 46.2	1.985	2.899	9.7	22.0
4 11	11 6.95	+14 56.0	2.052	2.892	12.9	22.2
4 21	11 2.18	+14 48.7	2.139	2.884	15.6	22.4

11066 Sigurd 3 12.6 146°.46 4°.0/13.4 18 R

2 11	12 44.48	+ 0 18.9	0.992	1.802	24.3	17.6
2 21	12 25.71	− 1 27.4	0.926	1.826	18.1	17.3
3 2	12 1.11	− 3 4.7	0.885	1.848	10.6	16.9
3 12	11 33.11	− 4 27.5	0.877	1.866	4.2	16.6
3 22	11 5.45	− 5 31.6	0.903	1.882	8.3	16.9
4 1	10 41.75	− 6 18.6	0.962	1.894	15.3	17.3
4 11	10 24.03	− 6 55.1	1.046	1.904	21.2	17.7
4 21	10 12.59	− 7 28.4	1.148	1.910	25.6	18.1

84903 2003 UM_{38} 3 12.6 164°.75 5°.2/19.2 18

2 11	11 51.87	−17 22.6	2.573	3.332	12.4	19.5
2 21	11 46.43	−17 22.4	2.488	3.336	10.1	19.3
3 2	11 39.55	−17 2.5	2.427	3.340	7.7	19.2
3 12	11 31.85	−16 23.8	2.392	3.344	5.8	19.1
3 22	11 24.03	−15 29.3	2.386	3.347	5.3	19.0
4 1	11 16.85	−14 23.7	2.408	3.350	6.7	19.1
4 11	11 10.96	−13 13.2	2.458	3.352	9.0	19.3
4 21	11 6.79	−12 3.7	2.533	3.354	11.4	19.4

381628 2008 YS_{16} 3 12.6 126°.55 3°.9/ 7.7 17

2 11	11 51.40	+13 45.7	2.394	3.266	9.5	21.3
2 21	11 46.06	+14 58.0	2.342	3.276	6.7	21.1
3 2	11 39.31	+16 10.0	2.318	3.286	4.4	21.0
3 12	11 31.83	+17 15.1	2.323	3.296	4.2	21.0
3 22	11 24.36	+18 7.9	2.358	3.306	6.3	21.1
4 1	11 17.64	+18 44.7	2.420	3.315	9.0	21.3
4 11	11 12.29	+19 3.8	2.507	3.324	11.5	21.5
4 21	11 8.69	+19 5.7	2.613	3.333	13.6	21.7

197326 2003 WP_{152} 3 12.6 218°.71 0°.2/12.8 18

2 11	11 53.22	+ 0 53.7	2.160	3.010	11.3	20.3
2 21	11 47.53	+ 1 12.9	2.082	3.007	8.0	20.0
3 2	11 40.18	+ 1 41.8	2.030	3.004	4.3	19.8
3 12	11 31.89	+ 2 16.3	2.007	3.000	0.4	19.5
3 22	11 23.46	+ 2 51.9	2.013	2.997	3.7	19.7
4 1	11 15.78	+ 3 23.7	2.047	2.993	7.5	20.0
4 11	11 9.59	+ 3 47.7	2.108	2.989	10.9	20.2
4 21	11 5.35	+ 4 1.2	2.191	2.985	13.8	20.4

299406 2005 YN_{34} 3 12.6 24°.14 1°.2/13.4 18

2 11	11 52.29	− 1 52.6	1.075	1.952	18.0	20.6
2 21	11 47.86	− 1 25.6	1.023	1.959	13.0	20.4
3 2	11 40.67	− 0 36.8	0.991	1.966	7.2	20.1
3 12	11 31.92	+ 0 26.5	0.982	1.975	1.5	19.7
3 22	11 23.15	+ 1 33.9	0.998	1.985	5.4	20.0
4 1	11 15.89	+ 2 34.4	1.037	1.996	11.1	20.4
4 11	11 11.26	+ 3 19.6	1.096	2.008	16.1	20.7
4 21	11 9.79	+ 3 45.0	1.174	2.020	20.3	21.0

495386 2014 QK_{171} 3 12.6 261°.42 2°.0/14.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 54.59	− 4 12.4	1.575	2.421	14.9	21.7
2 21	11 49.14	− 3 50.1	1.488	2.407	11.1	21.5
3 2	11 41.32	− 3 8.1	1.424	2.392	6.6	21.2
3 12	11 31.97	− 2 10.5	1.387	2.378	2.3	20.9
3 22	11 22.25	− 1 4.0	1.376	2.362	4.6	21.0
4 1	11 13.43	+ 0 2.8	1.393	2.347	9.4	21.2
4 11	11 6.61	+ 1 1.7	1.433	2.331	14.0	21.4
4 21	11 2.47	+ 1 46.7	1.494	2.315	17.9	21.6

304551 2006 UT_{328} 3 12.6 216°.79 2°.9/16.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.45	− 9 30.9	2.568	3.375	11.0	21.7
2 21	11 44.73	− 9 9.4	2.480	3.372	8.5	21.5
3 2	11 38.66	− 8 32.4	2.418	3.368	5.7	21.3
3 12	11 31.81	− 7 42.2	2.384	3.365	3.2	21.1
3 22	11 24.84	− 6 42.7	2.379	3.361	3.5	21.2
4 1	11 18.44	− 5 38.9	2.404	3.357	6.1	21.3
4 11	11 13.23	− 4 36.5	2.456	3.352	9.0	21.5
4 21	11 9.62	− 3 40.0	2.532	3.348	11.6	21.6

147084 2002 SF_{37} 3 12.6 109°.40 1°.3/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.47	+ 4 16.8	1.976	2.835	11.8	21.2
2 21	11 49.01	+ 5 12.2	1.927	2.858	8.1	21.0
3 2	11 40.88	+ 6 15.0	1.904	2.881	4.2	20.8
3 12	11 31.94	+ 7 18.7	1.911	2.903	1.4	20.6
3 22	11 23.10	+ 8 16.9	1.947	2.924	4.7	20.9
4 1	11 15.27	+ 9 4.2	2.012	2.945	8.4	21.1
4 11	11 9.17	+ 9 37.0	2.102	2.965	11.7	21.4
4 21	11 5.16	+ 9 54.3	2.213	2.984	14.4	21.6

276454 2003 FM_{92} 3 12.6 299°.24 3°.5/ 9.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.20	+10 0.4	1.711	2.586	12.5	20.1
2 21	11 49.59	+10 47.6	1.613	2.551	8.9	19.8
3 2	11 41.60	+11 40.8	1.541	2.516	5.1	19.5
3 12	11 32.00	+12 32.2	1.495	2.481	3.7	19.3
3 22	11 21.86	+13 14.2	1.477	2.445	7.1	19.4
4 1	11 12.43	+13 39.9	1.485	2.410	11.5	19.6
4 11	11 4.87	+13 45.5	1.516	2.374	15.7	19.7
4 21	10 59.92	+13 30.3	1.566	2.338	19.3	19.9

417621 2006 WQ_{137} 3 12.6 95°.49 3°.8/16.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.48	−10 0.6	1.771	2.589	14.8	22.0
2 21	11 47.90	− 9 41.8	1.707	2.604	11.3	21.8
3 2	11 40.42	− 9 1.3	1.666	2.619	7.5	21.6
3 12	11 31.92	− 8 2.5	1.652	2.633	4.3	21.5
3 22	11 23.40	− 6 51.6	1.665	2.647	4.6	21.5
4 1	11 15.88	− 5 36.2	1.706	2.661	7.9	21.7
4 11	11 10.19	− 4 24.6	1.773	2.675	11.5	22.0
4 21	11 6.79	− 3 22.9	1.861	2.688	14.7	22.2

170298 2003 SM_{11} 3 12.6 77°.58 1°.2/13.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.70	− 2 17.2	1.483	2.337	15.3	20.3
2 21	11 49.62	− 1 49.2	1.431	2.356	11.0	20.1
3 2	11 41.36	− 1 4.4	1.403	2.374	6.1	19.9
3 12	11 31.97	− 0 8.8	1.401	2.393	1.5	19.6
3 22	11 22.67	+ 0 50.0	1.426	2.412	4.5	19.9
4 1	11 14.65	+ 1 44.1	1.477	2.430	9.1	20.2
4 11	11 8.80	+ 2 27.1	1.553	2.448	13.3	20.5
4 21	11 5.57	+ 2 55.3	1.649	2.466	16.7	20.7

247934 2003 WJ_{189} 3 12.6 184°.74 2°.4/14.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.84	− 5 0.0	2.344	3.165	11.5	20.5
2 21	11 49.29	− 5 12.5	2.261	3.165	8.6	20.3
3 2	11 41.10	− 5 13.0	2.205	3.165	5.4	20.1
3 12	11 31.97	− 5 3.3	2.178	3.164	2.6	19.9
3 22	11 22.69	− 4 46.3	2.180	3.163	3.6	19.9
4 1	11 14.13	− 4 25.9	2.213	3.162	6.8	20.1
4 11	11 7.01	− 4 6.5	2.272	3.160	9.9	20.3
4 21	11 1.80	− 3 51.5	2.355	3.159	12.7	20.5

210002 2006 JE_{29} 3 12.6 167°.40 2°.4/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.61	+ 7 6.0	1.890	2.756	11.9	20.9
2 21	11 49.34	+ 8 6.0	1.826	2.760	8.3	20.7
3 2	11 41.18	+ 9 12.4	1.788	2.764	4.4	20.5
3 12	11 31.97	+10 17.9	1.779	2.768	2.5	20.3
3 22	11 22.71	+11 15.5	1.799	2.771	5.7	20.5
4 1	11 14.40	+11 59.4	1.847	2.773	9.5	20.8
4 11	11 7.87	+12 26.2	1.919	2.774	13.0	21.0
4 21	11 3.60	+12 35.1	2.012	2.775	15.9	21.2

458843 2011 UB_{55} 3 12.6 77°.05 1°.8/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.55	+ 5 16.6	1.450	2.321	14.5	21.7
2 21	11 50.85	+ 6 2.3	1.408	2.345	10.0	21.4
3 2	11 41.96	+ 6 56.0	1.391	2.369	5.1	21.2
3 12	11 32.01	+ 7 49.7	1.400	2.392	1.9	21.1
3 22	11 22.29	+ 8 35.8	1.437	2.416	5.8	21.4
4 1	11 13.98	+ 9 8.0	1.501	2.439	10.3	21.7
4 11	11 7.96	+ 9 23.3	1.587	2.462	14.2	22.0
4 21	11 4.61	+ 9 21.1	1.693	2.484	17.4	22.2

489667 2007 UQ_{122} 3 12.6 107°.53 1°.0/13.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 51.42	− 2 52.0	2.588	3.421	10.2	22.8
2 21	11 45.95	− 2 21.0	2.527	3.441	7.3	22.6
3 2	11 39.22	− 1 39.4	2.493	3.461	4.2	22.5
3 12	11 31.86	− 0 51.0	2.488	3.480	1.2	22.3
3 22	11 24.52	+ 0 0.1	2.514	3.498	2.9	22.4
4 1	11 17.87	+ 0 49.1	2.569	3.517	6.0	22.7
4 11	11 12.47	+ 1 32.1	2.651	3.535	8.9	22.9
4 21	11 8.66	+ 2 6.2	2.758	3.552	11.3	23.1

497331 2005 TE_{182} 3 12.6 122°.19 8°.1/18.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.28	−17 16.4	1.852	2.620	16.2	20.7
2 21	11 52.96	−18 32.1	1.772	2.622	13.5	20.5
3 2	11 43.28	−19 25.7	1.715	2.623	10.7	20.3
3 12	11 32.11	−19 54.3	1.683	2.625	8.6	20.2
3 22	11 20.59	−19 58.0	1.678	2.627	8.3	20.2
4 1	11 9.99	−19 40.5	1.699	2.629	10.0	20.3
4 11	11 1.37	−19 9.1	1.746	2.630	12.6	20.5
4 21	10 55.41	−18 31.6	1.814	2.632	15.4	20.6

285068 2011 KA_{23} 3 12.6 236°.22 0°.1/12.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.31	+ 0 24.7	2.098	2.951	11.4	21.3
2 21	11 46.24	+ 1 2.4	2.022	2.948	8.1	21.0
3 2	11 39.54	+ 1 51.4	1.971	2.945	4.3	20.8
3 12	11 31.89	+ 2 46.8	1.948	2.942	0.3	20.5
3 22	11 24.11	+ 3 43.0	1.955	2.938	3.8	20.8
4 1	11 17.08	+ 4 34.2	1.990	2.935	7.7	21.0
4 11	11 11.52	+ 5 15.4	2.050	2.931	11.2	21.2
4 21	11 7.90	+ 5 43.8	2.132	2.928	14.1	21.4

317166 2001 WF_{53} 3 12.6 120°.13 1°.1/14.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.00	− 3 1.3	2.567	3.401	10.3	21.4
2 21	11 45.71	− 2 34.7	2.499	3.413	7.4	21.2
3 2	11 39.13	− 1 57.3	2.458	3.425	4.3	21.0
3 12	11 31.86	− 1 12.5	2.445	3.437	1.3	20.8
3 22	11 24.58	− 0 24.4	2.463	3.448	3.0	20.9
4 1	11 17.95	+ 0 22.3	2.510	3.459	6.1	21.2
4 11	11 12.56	+ 1 3.5	2.585	3.470	9.0	21.4
4 21	11 8.78	+ 1 36.2	2.683	3.481	11.5	21.6

46581 1992 OK_{2} 3 12.6 244°.38 4°.2/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.98	−12 19.5	2.605	3.389	11.6	19.6
2 21	11 48.03	−12 33.1	2.500	3.372	9.2	19.4
3 2	11 40.50	−12 31.1	2.420	3.354	6.7	19.2
3 12	11 31.96	−12 14.0	2.368	3.336	4.6	19.1
3 22	11 23.13	−11 43.9	2.346	3.317	4.6	19.1
4 1	11 14.82	−11 4.5	2.353	3.298	6.7	19.2
4 11	11 7.73	−10 21.0	2.387	3.278	9.4	19.3
4 21	11 2.39	− 9 38.3	2.446	3.257	12.1	19.4

373840 2003 EA_{26} 3 12.6 335°.46 1°.5/11.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.29	+ 5 14.4	1.392	2.271	14.5	20.0
2 21	11 48.34	+ 5 35.4	1.319	2.259	10.2	19.7
3 2	11 40.92	+ 6 5.9	1.269	2.247	5.3	19.4
3 12	11 31.99	+ 6 39.3	1.244	2.236	1.5	19.1
3 22	11 22.78	+ 7 8.4	1.245	2.226	5.9	19.4
4 1	11 14.67	+ 7 26.6	1.271	2.217	10.9	19.6
4 11	11 8.77	+ 7 29.5	1.319	2.209	15.5	19.9
4 21	11 5.71	+ 7 15.3	1.385	2.202	19.3	20.1

345544 2006 QW_{134} 3 12.6 180°.95 3°.5/16.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.82	−11 9.9	2.689	3.482	11.0	21.0
2 21	11 46.35	−11 10.5	2.603	3.483	8.6	20.9
3 2	11 39.52	−10 56.1	2.543	3.483	6.0	20.7
3 12	11 31.91	−10 28.3	2.510	3.483	3.9	20.6
3 22	11 24.18	− 9 49.8	2.507	3.483	3.9	20.6
4 1	11 17.02	− 9 4.9	2.533	3.482	6.1	20.7
4 11	11 11.07	− 8 18.3	2.587	3.481	8.7	20.9
4 21	11 6.72	− 7 34.5	2.666	3.480	11.1	21.0

251581 2009 FJ_{61} 3 12.6 307°.20 13°.5/16.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.77	+46 12.4	2.088	2.886	13.6	19.4
2 21	11 50.23	+48 28.8	2.049	2.857	13.5	19.3
3 2	11 42.00	+50 20.5	2.033	2.827	14.2	19.3
3 12	11 32.06	+51 37.8	2.037	2.798	15.4	19.3
3 22	11 21.76	+52 15.4	2.060	2.769	16.9	19.4
4 1	11 12.58	+52 12.5	2.098	2.740	18.4	19.4
4 11	11 5.77	+51 32.7	2.148	2.711	19.8	19.5
4 21	11 2.00	+50 21.9	2.208	2.682	21.0	19.6

82454 2001 OT_{12} 3 12.6 134°.09 1°.6/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.31	+ 5 41.5	2.453	3.315	9.7	19.6
2 21	11 45.30	+ 6 46.3	2.390	3.324	6.6	19.4
3 2	11 38.94	+ 7 57.1	2.356	3.332	3.4	19.2
3 12	11 31.88	+ 9 8.1	2.351	3.341	1.7	19.1
3 22	11 24.78	+10 13.8	2.376	3.349	4.4	19.3
4 1	11 18.37	+11 9.3	2.430	3.356	7.5	19.5
4 11	11 13.23	+11 51.2	2.510	3.364	10.4	19.7
4 21	11 9.74	+12 18.2	2.612	3.371	12.7	19.9

386218 2007 WJ_{50} 3 12.6 48°.94 5°.0/ 6.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 52.01	+16 48.2	2.158	3.034	10.2	20.4
2 21	11 46.68	+17 53.0	2.102	3.035	7.4	20.3
3 2	11 39.74	+18 55.1	2.073	3.036	5.3	20.1
3 12	11 31.93	+19 47.5	2.072	3.038	5.3	20.1
3 22	11 24.09	+20 24.7	2.099	3.039	7.5	20.3
4 1	11 17.09	+20 43.1	2.152	3.041	10.2	20.4
4 11	11 11.63	+20 41.9	2.229	3.043	12.9	20.6
4 21	11 8.12	+20 22.3	2.324	3.044	15.1	20.8

157155 2004 PR_{20} 3 12.6 185°.06 1°.5/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.01	+ 3 29.6	2.117	2.978	11.0	20.2
2 21	11 46.02	+ 4 51.5	2.046	2.979	7.6	20.0
3 2	11 39.42	+ 6 23.6	2.001	2.978	3.9	19.7
3 12	11 31.91	+ 7 59.0	1.986	2.978	1.6	19.6
3 22	11 24.29	+ 9 29.8	2.001	2.977	4.8	19.8
4 1	11 17.42	+10 49.1	2.045	2.975	8.5	20.0
4 11	11 12.00	+11 52.1	2.114	2.973	11.8	20.2
4 21	11 8.50	+12 36.4	2.205	2.971	14.6	20.4

89576 2001 XP_{119} 3 12.6 79°.95 5°.2/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.01	+14 40.1	1.794	2.672	11.8	19.2
2 21	11 48.15	+16 6.5	1.758	2.694	8.4	19.1
3 2	11 40.49	+17 30.5	1.749	2.716	5.7	18.9
3 12	11 31.97	+18 43.1	1.768	2.738	5.5	19.0
3 22	11 23.59	+19 37.5	1.814	2.760	8.0	19.2
4 1	11 16.34	+20 9.7	1.886	2.781	11.1	19.4
4 11	11 10.95	+20 19.0	1.981	2.803	14.0	19.6
4 21	11 7.79	+20 7.5	2.094	2.824	16.3	19.8

472529 2015 CW_{57} 3 12.6 189°.13 0°.4/12.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.00	+ 1 31.7	2.629	3.479	9.5	21.4
2 21	11 45.06	+ 2 28.1	2.551	3.478	6.7	21.2
3 2	11 38.84	+ 3 33.4	2.501	3.476	3.5	21.0
3 12	11 31.88	+ 4 43.0	2.481	3.475	0.4	20.8
3 22	11 24.83	+ 5 51.6	2.492	3.472	3.4	21.0
4 1	11 18.37	+ 6 54.2	2.532	3.470	6.7	21.2
4 11	11 13.07	+ 7 46.6	2.599	3.467	9.6	21.4
4 21	11 9.33	+ 8 26.4	2.690	3.463	12.1	21.6

17533 1993 FR_{36} 3 12.6 241°.23 0°.9/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.67	+ 3 55.7	2.528	3.384	9.6	19.3
2 21	11 45.62	+ 4 36.5	2.444	3.374	6.7	19.1
3 2	11 39.17	+ 5 24.5	2.388	3.364	3.5	18.9
3 12	11 31.90	+ 6 15.2	2.361	3.353	0.9	18.6
3 22	11 24.50	+ 7 4.0	2.364	3.343	3.8	18.8
4 1	11 17.68	+ 7 46.2	2.396	3.332	7.1	19.0
4 11	11 12.07	+ 8 18.3	2.454	3.320	10.1	19.2
4 21	11 8.11	+ 8 38.2	2.535	3.309	12.7	19.4

519855 2013 MR_{13} 3 12.6 214°.83 5°.0/17.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.44	−12 19.7	1.832	2.637	14.9	21.2
2 21	11 48.03	−12 24.5	1.750	2.635	11.8	21.0
3 2	11 40.61	−12 7.0	1.692	2.634	8.4	20.8
3 12	11 31.99	−11 28.5	1.659	2.632	5.5	20.6
3 22	11 23.16	−10 33.0	1.653	2.630	5.4	20.6
4 1	11 15.18	− 9 27.4	1.675	2.627	8.2	20.8
4 11	11 8.97	− 8 19.8	1.722	2.625	11.7	21.0
4 21	11 5.08	− 7 17.5	1.791	2.623	14.9	21.2

219605 2001 TD_{85} 3 12.6 170°.72 0°.4/13.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.31	− 0 50.5	2.051	2.897	11.9	21.8
2 21	11 47.66	− 0 12.7	1.978	2.900	8.5	21.6
3 2	11 40.30	+ 0 37.6	1.930	2.902	4.6	21.3
3 12	11 31.97	+ 1 35.5	1.911	2.904	0.6	21.0
3 22	11 23.55	+ 2 35.0	1.922	2.906	3.8	21.3
4 1	11 15.94	+ 3 30.2	1.961	2.907	7.7	21.5
4 11	11 9.90	+ 4 15.8	2.026	2.907	11.3	21.7
4 21	11 5.89	+ 4 48.5	2.113	2.908	14.2	21.9

497795 2006 SU_{402} 3 12.6 107°.31 3°.2/16.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.83	−11 16.0	2.445	3.247	11.7	21.0
2 21	11 44.33	−10 39.1	2.367	3.254	9.0	20.8
3 2	11 38.47	− 9 44.2	2.313	3.260	6.1	20.7
3 12	11 31.87	− 8 34.5	2.288	3.266	3.6	20.5
3 22	11 25.21	− 7 14.6	2.292	3.273	3.7	20.5
4 1	11 19.19	− 5 50.8	2.325	3.279	6.2	20.7
4 11	11 14.43	− 4 29.5	2.386	3.285	9.1	20.9
4 21	11 11.31	− 3 16.0	2.471	3.291	11.7	21.1

26218 1997 WJ_{13} 3 12.6 143°.66 3°.7/16.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.30	−10 50.3	2.307	3.111	12.3	18.7
2 21	11 46.15	−10 43.8	2.227	3.114	9.5	18.5
3 2	11 39.48	−10 20.0	2.172	3.117	6.6	18.4
3 12	11 31.94	− 9 40.8	2.143	3.119	4.1	18.2
3 22	11 24.28	− 8 50.0	2.144	3.122	4.2	18.2
4 1	11 17.32	− 7 52.9	2.173	3.125	6.7	18.4
4 11	11 11.72	− 6 55.5	2.228	3.127	9.6	18.5
4 21	11 7.95	− 6 3.0	2.308	3.129	12.4	18.7

321036 2008 PT_{21} 3 12.6 277°.72 4°.4/16.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 51.87	−11 34.0	1.951	2.759	14.0	20.5
2 21	11 46.97	−11 26.3	1.851	2.739	11.1	20.2
3 2	11 40.11	−10 56.9	1.774	2.719	7.8	20.0
3 12	11 31.98	−10 7.1	1.723	2.699	4.9	19.8
3 22	11 23.50	− 9 1.0	1.700	2.679	5.0	19.7
4 1	11 15.67	− 7 45.3	1.704	2.658	8.0	19.8
4 11	11 9.42	− 6 28.1	1.734	2.638	11.6	20.0
4 21	11 5.38	− 5 16.9	1.787	2.617	15.1	20.2

165224 2000 SE_{50} 3 12.6 272°.83 2°.7/14.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.69	− 6 5.2	1.548	2.390	15.4	20.3
2 21	11 48.60	− 5 42.7	1.458	2.373	11.6	20.0
3 2	11 41.10	− 4 58.0	1.391	2.356	7.2	19.7
3 12	11 32.04	− 3 54.5	1.349	2.338	3.1	19.4
3 22	11 22.56	− 2 39.0	1.334	2.320	4.7	19.5
4 1	11 13.94	− 1 20.5	1.346	2.302	9.5	19.7
4 11	11 7.32	− 0 8.7	1.382	2.284	14.1	19.9
4 21	11 3.41	+ 0 49.5	1.438	2.266	18.2	20.1

194682 2001 XG_{214} 3 12.6 92°.26 4°.8/16.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.27	−10 57.0	1.493	2.315	16.9	19.7
2 21	11 49.48	−10 50.8	1.431	2.328	13.1	19.5
3 2	11 41.41	−10 18.9	1.390	2.341	8.9	19.3
3 12	11 32.06	− 9 24.3	1.374	2.354	5.3	19.1
3 22	11 22.67	− 8 13.4	1.385	2.366	5.5	19.1
4 1	11 14.48	− 6 55.5	1.423	2.379	9.0	19.4
4 11	11 8.47	− 5 40.4	1.484	2.391	13.0	19.6
4 21	11 5.15	− 4 35.7	1.567	2.403	16.5	19.9

453841 2011 SR_{254} 3 12.6 270°.06 0°.9/13.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.77	− 2 12.9	1.406	2.266	15.6	21.7
2 21	11 48.72	− 1 31.7	1.328	2.256	11.3	21.4
3 2	11 41.17	− 0 30.0	1.273	2.246	6.3	21.1
3 12	11 32.06	+ 0 46.0	1.243	2.236	1.2	20.7
3 22	11 22.62	+ 2 7.4	1.240	2.226	4.9	20.9
4 1	11 14.22	+ 3 24.0	1.263	2.216	10.3	21.2
4 11	11 8.01	+ 4 26.9	1.308	2.205	15.1	21.4
4 21	11 4.66	+ 5 10.7	1.373	2.195	19.2	21.7

17506 Walschap 3 12.6 325°.81 4°.8/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.49	+11 54.0	1.271	2.158	15.0	17.8
2 21	11 50.78	+12 39.3	1.207	2.149	10.7	17.5
3 2	11 42.28	+13 27.1	1.165	2.141	6.4	17.3
3 12	11 32.12	+14 7.5	1.149	2.133	5.0	17.2
3 22	11 21.76	+14 31.7	1.157	2.126	8.6	17.3
4 1	11 12.74	+14 33.9	1.190	2.119	13.3	17.6
4 11	11 6.28	+14 12.3	1.243	2.112	17.7	17.8
4 21	11 2.98	+13 28.9	1.313	2.107	21.4	18.1

102595 1999 VJ_{3} 3 12.6 275°.54 0°.7/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.75	+ 2 7.7	1.632	2.496	13.5	20.3
2 21	11 48.51	+ 2 52.9	1.546	2.478	9.6	20.0
3 2	11 41.01	+ 3 52.1	1.484	2.460	5.1	19.7
3 12	11 32.05	+ 4 58.8	1.448	2.442	0.7	19.4
3 22	11 22.74	+ 6 5.1	1.441	2.423	5.2	19.6
4 1	11 14.28	+ 7 3.0	1.460	2.404	10.0	19.9
4 11	11 7.72	+ 7 45.8	1.503	2.385	14.4	20.1
4 21	11 3.73	+ 8 10.4	1.566	2.366	18.2	20.3

253990 2004 EQ_{61} 3 12.6 45°.40 0°.1/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 59.58	+ 3 24.9	1.391	2.257	15.3	20.4
2 21	11 52.51	+ 3 12.6	1.337	2.270	10.8	20.2
3 2	11 42.99	+ 3 9.5	1.307	2.283	5.7	19.9
3 12	11 32.17	+ 3 11.1	1.302	2.296	0.3	19.6
3 22	11 21.42	+ 3 12.5	1.325	2.310	5.0	20.0
4 1	11 12.11	+ 3 9.0	1.374	2.324	10.0	20.3
4 11	11 5.24	+ 2 57.1	1.447	2.339	14.3	20.6
4 21	11 1.29	+ 2 35.2	1.539	2.353	17.8	20.8

270551 2002 GV_{166} 3 12.6 169°.72 3°.4/ 8.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.66	+13 13.0	2.449	3.314	9.5	20.8
2 21	11 48.37	+13 59.1	2.386	3.318	6.7	20.6
3 2	11 40.59	+14 44.9	2.351	3.321	4.2	20.4
3 12	11 32.02	+15 24.9	2.346	3.324	3.6	20.4
3 22	11 23.43	+15 54.7	2.370	3.326	5.8	20.5
4 1	11 15.61	+16 10.8	2.423	3.328	8.6	20.7
4 11	11 9.20	+16 12.0	2.501	3.329	11.2	20.9
4 21	11 4.61	+15 58.6	2.601	3.330	13.5	21.1

126966 2002 FB_{20} 3 12.6 64°.71 3°.5/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.71	+10 48.3	1.821	2.696	11.8	19.9
2 21	11 48.09	+11 42.0	1.761	2.698	8.2	19.7
3 2	11 40.58	+12 38.3	1.726	2.701	4.8	19.5
3 12	11 32.03	+13 29.9	1.719	2.703	3.7	19.4
3 22	11 23.44	+14 10.1	1.740	2.705	6.6	19.6
4 1	11 15.82	+14 34.1	1.788	2.707	10.2	19.8
4 11	11 10.00	+14 39.8	1.859	2.710	13.5	20.0
4 21	11 6.44	+14 27.4	1.950	2.712	16.4	20.2

207001 2004 TY_{222} 3 12.6 161°.36 2°.8/15.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 56.45	− 6 24.9	1.764	2.593	14.4	21.1
2 21	11 50.12	− 6 12.4	1.691	2.598	10.8	20.9
3 2	11 41.71	− 5 41.3	1.642	2.603	6.7	20.7
3 12	11 32.11	− 4 55.1	1.620	2.607	3.1	20.4
3 22	11 22.38	− 3 59.4	1.626	2.610	4.3	20.5
4 1	11 13.64	− 3 1.2	1.661	2.613	8.3	20.8
4 11	11 6.80	− 2 7.8	1.720	2.616	12.2	21.0
4 21	11 2.39	− 1 24.5	1.802	2.618	15.5	21.2

455435 2003 SU_{14} 3 12.6 199°.52 0°.3/12.3 17

2 11	11 55.96	+ 1 47.4	2.064	2.914	11.7	22.3
2 21	11 49.58	+ 2 24.9	1.985	2.910	8.3	22.1
3 2	11 41.37	+ 3 12.8	1.931	2.906	4.4	21.8
3 12	11 32.09	+ 4 6.0	1.907	2.900	0.4	21.5
3 22	11 22.65	+ 4 58.6	1.912	2.894	4.1	21.8
4 1	11 14.00	+ 5 45.0	1.947	2.887	8.2	22.0
4 11	11 6.97	+ 6 20.3	2.007	2.879	11.8	22.2
4 21	11 2.07	+ 6 42.2	2.089	2.870	14.8	22.4

60964 2000 JS_{76} 3 12.6 259°.93 0°.4/12.9 18

2 11	11 55.00	+ 0 38.3	1.814	2.668	12.9	19.5
2 21	11 49.16	+ 0 55.9	1.731	2.657	9.3	19.2
3 2	11 41.25	+ 1 25.2	1.673	2.646	5.0	19.0
3 12	11 32.09	+ 2 2.1	1.642	2.635	0.6	18.6
3 22	11 22.67	+ 2 40.8	1.640	2.624	4.2	18.8
4 1	11 14.09	+ 3 15.5	1.665	2.613	8.7	19.1
4 11	11 7.29	+ 3 41.1	1.715	2.601	12.7	19.3
4 21	11 2.85	+ 3 54.3	1.786	2.589	16.1	19.5

136509 2005 KC_{12} 3 12.6 197°.71 3°.1/ 8.6 17

2 11	11 50.32	+10 43.1	2.408	3.279	9.5	20.2
2 21	11 45.41	+11 55.1	2.342	3.278	6.6	20.0
3 2	11 39.08	+13 10.0	2.303	3.276	3.9	19.8
3 12	11 31.95	+14 21.4	2.293	3.274	3.3	19.8
3 22	11 24.74	+15 23.5	2.313	3.272	5.7	19.9
4 1	11 18.19	+16 11.6	2.361	3.269	8.6	20.1
4 11	11 12.95	+16 43.0	2.434	3.266	11.4	20.3
4 21	11 9.41	+16 57.3	2.528	3.264	13.7	20.5

118212 1995 XM_{4} 3 12.6 108°.15 2°.3/10.3 18

2 11	11 52.35	+ 6 59.2	1.948	2.818	11.4	19.8
2 21	11 47.02	+ 7 58.8	1.888	2.825	7.9	19.6
3 2	11 39.98	+ 9 4.6	1.855	2.832	4.2	19.4
3 12	11 32.01	+10 9.5	1.849	2.838	2.4	19.3
3 22	11 24.02	+11 6.9	1.873	2.845	5.4	19.5
4 1	11 16.91	+11 51.2	1.923	2.851	9.1	19.7
4 11	11 11.44	+12 19.1	1.999	2.858	12.4	19.9
4 21	11 8.03	+12 29.7	2.094	2.864	15.2	20.1

83733 2001 TK_{118} 3 12.6 19°.25 8°.2/21.5 18

2 11	11 52.14	−22 35.7	2.126	2.863	15.3	18.8
2 21	11 47.02	−23 15.1	2.044	2.865	13.1	18.6
3 2	11 40.07	−23 29.6	1.984	2.867	10.8	18.5
3 12	11 32.02	−23 18.0	1.947	2.870	8.9	18.3
3 22	11 23.76	−22 41.7	1.935	2.872	8.2	18.3
4 1	11 16.26	−21 45.4	1.949	2.875	9.1	18.4
4 11	11 10.34	−20 36.4	1.988	2.878	11.0	18.5
4 21	11 6.54	−19 22.7	2.050	2.882	13.3	18.6

225739 2001 SO_{5} 3 12.6 217°.73 0°.3/12.4 17

2 11	11 55.28	+ 2 8.9	2.302	3.149	10.8	22.2
2 21	11 49.00	+ 2 37.6	2.215	3.139	7.6	22.0
3 2	11 41.04	+ 3 15.1	2.155	3.129	4.0	21.7
3 12	11 32.08	+ 3 57.1	2.124	3.118	0.3	21.4
3 22	11 22.93	+ 4 38.9	2.124	3.106	3.8	21.7
4 1	11 14.46	+ 5 15.6	2.153	3.093	7.5	21.9
4 11	11 7.41	+ 5 43.3	2.209	3.080	10.9	22.0
4 21	11 2.29	+ 5 59.4	2.288	3.066	13.8	22.2

65025 2002 AS_{106} 3 12.6 336°.56 0°.4/12.3 18

2 11	11 50.07	+ 2 10.4	2.032	2.893	11.4	19.0
2 21	11 45.46	+ 2 42.0	1.955	2.886	8.0	18.8
3 2	11 39.20	+ 3 23.4	1.904	2.880	4.2	18.6
3 12	11 31.97	+ 4 9.8	1.880	2.873	0.4	18.2
3 22	11 24.60	+ 4 55.7	1.884	2.867	4.0	18.5
4 1	11 17.96	+ 5 35.7	1.917	2.862	7.9	18.8
4 11	11 12.81	+ 6 5.1	1.974	2.857	11.5	19.0
4 21	11 9.61	+ 6 21.6	2.053	2.852	14.5	19.2

341284 2007 RA_{291} 3 12.6 135°.72 3°.4/17.2 17

2 11	11 50.09	−12 1.5	2.544	3.338	11.5	21.5
2 21	11 45.18	−11 35.6	2.466	3.346	9.0	21.3
3 2	11 38.93	−10 52.5	2.413	3.355	6.2	21.1
3 12	11 31.95	− 9 54.5	2.387	3.362	3.9	21.0
3 22	11 24.91	− 8 45.8	2.391	3.370	3.8	21.0
4 1	11 18.51	− 7 32.0	2.425	3.377	6.1	21.1
4 11	11 13.34	− 6 19.0	2.486	3.384	8.8	21.3
4 21	11 9.81	− 5 12.0	2.572	3.390	11.3	21.5

200717 2001 UT_{206} 3 12.6 126°.26 4°.1/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 56.30	+10 6.3	1.524	2.402	13.5	20.5
2 21	11 50.13	+11 23.4	1.472	2.411	9.4	20.3
3 2	11 41.73	+12 44.6	1.446	2.421	5.4	20.1
3 12	11 32.12	+14 0.0	1.446	2.429	4.4	20.0
3 22	11 22.53	+15 0.6	1.474	2.438	7.6	20.2
4 1	11 14.19	+15 40.1	1.527	2.446	11.7	20.5
4 11	11 8.03	+15 56.4	1.603	2.453	15.4	20.7
4 21	11 4.52	+15 50.2	1.697	2.461	18.4	21.0

105012 2000 KG_{13} 3 12.6 228°.73 0°.2/12.4 18

2 11	11 51.23	+ 1 36.3	2.552	3.401	9.8	20.9
2 21	11 46.02	+ 2 11.6	2.467	3.392	6.9	20.7
3 2	11 39.41	+ 2 55.5	2.408	3.382	3.6	20.5
3 12	11 31.98	+ 3 44.0	2.379	3.372	0.2	20.2
3 22	11 24.41	+ 4 32.5	2.380	3.362	3.4	20.4
4 1	11 17.42	+ 5 16.5	2.410	3.352	6.8	20.6
4 11	11 11.64	+ 5 52.1	2.468	3.341	9.8	20.8
4 21	11 7.49	+ 6 16.8	2.548	3.329	12.5	21.0

268130 2004 TB_{109} 3 12.6 155°.50 1°.3/11.3 18

2 11	11 52.33	+ 4 9.2	2.042	2.904	11.3	20.9
2 21	11 46.98	+ 5 2.9	1.975	2.907	7.9	20.7
3 2	11 39.96	+ 6 5.0	1.934	2.911	4.0	20.4
3 12	11 32.02	+ 7 9.5	1.922	2.914	1.3	20.2
3 22	11 24.01	+ 8 10.0	1.938	2.916	4.6	20.5
4 1	11 16.81	+ 9 0.7	1.984	2.919	8.4	20.7
4 11	11 11.17	+ 9 37.4	2.054	2.921	11.8	20.9
4 21	11 7.52	+ 9 58.4	2.145	2.923	14.6	21.1

310927 2003 SC_{235} 3 12.6 186°.01 1°.2/11.5 17

2 11	11 55.54	+ 4 0.1	2.002	2.859	11.7	21.8
2 21	11 49.29	+ 4 48.2	1.929	2.859	8.2	21.6
3 2	11 41.22	+ 5 45.1	1.883	2.859	4.2	21.3
3 12	11 32.10	+ 6 44.8	1.865	2.858	1.2	21.1
3 22	11 22.87	+ 7 41.1	1.877	2.856	4.7	21.3
4 1	11 14.49	+ 8 27.8	1.918	2.853	8.6	21.6
4 11	11 7.77	+ 9 1.0	1.984	2.850	12.2	21.8
4 21	11 3.21	+ 9 18.7	2.071	2.845	15.2	22.0

377225 2003 YC_{146} 3 12.6 40°.27 1°.5/13.9 18

2 11	11 53.95	− 1 58.7	1.694	2.545	13.8	20.1
2 21	11 48.25	− 1 57.1	1.639	2.562	10.0	19.9
3 2	11 40.66	− 1 41.9	1.609	2.579	5.7	19.6
3 12	11 32.07	− 1 16.9	1.606	2.597	1.8	19.4
3 22	11 23.54	− 0 47.3	1.630	2.616	4.0	19.6
4 1	11 16.09	− 0 18.8	1.681	2.635	8.1	19.9
4 11	11 10.52	+ 0 3.5	1.757	2.654	11.9	20.2
4 21	11 7.27	+ 0 16.4	1.854	2.674	15.0	20.4

287645 2003 KW_{6} 3 12.6 316°.19 2°.1/10.9 18

2 11	11 52.76	+ 4 35.3	1.273	2.155	15.3	20.2
2 21	11 48.18	+ 5 33.4	1.202	2.144	10.7	19.9
3 2	11 40.96	+ 6 45.5	1.154	2.134	5.6	19.6
3 12	11 32.10	+ 8 2.4	1.131	2.123	2.2	19.4
3 22	11 22.95	+ 9 13.4	1.134	2.113	6.8	19.6
4 1	11 14.95	+10 8.6	1.160	2.104	12.1	19.9
4 11	11 9.32	+10 41.8	1.208	2.095	16.9	20.1
4 21	11 6.69	+10 50.9	1.273	2.086	20.9	20.3

66371 1999 JT_{113} 3 12.6 201°.92 1°.1/11.5 18

2 11	11 55.18	+ 3 29.1	2.033	2.889	11.6	20.4
2 21	11 49.07	+ 4 23.0	1.955	2.884	8.1	20.1
3 2	11 41.13	+ 5 26.6	1.903	2.879	4.2	19.9
3 12	11 32.11	+ 6 34.0	1.880	2.873	1.1	19.6
3 22	11 22.93	+ 7 38.5	1.888	2.866	4.7	19.9
4 1	11 14.54	+ 8 33.6	1.924	2.858	8.6	20.1
4 11	11 7.77	+ 9 14.9	1.985	2.850	12.2	20.3
4 21	11 3.14	+ 9 40.1	2.068	2.840	15.2	20.5

61951 2000 RE_{17} 3 12.6 168°.85 3°.9/16.9 18

2 11	11 50.67	−11 32.9	1.862	2.675	14.4	19.3
2 21	11 46.03	−10 58.9	1.783	2.676	11.2	19.1
3 2	11 39.55	−10 1.4	1.726	2.676	7.6	18.9
3 12	11 32.01	− 8 43.4	1.696	2.676	4.5	18.7
3 22	11 24.33	− 7 11.4	1.694	2.676	4.5	18.7
4 1	11 17.48	− 5 33.8	1.720	2.676	7.7	18.9
4 11	11 12.28	− 3 59.7	1.771	2.676	11.3	19.1
4 21	11 9.23	− 2 36.3	1.846	2.676	14.6	19.3

199201 2006 AP_{10} 3 12.6 64°.95 3°.1/10.4 18

2 11	11 57.06	+ 7 31.1	1.246	2.129	15.6	20.0
2 21	11 50.87	+ 8 26.3	1.204	2.145	10.8	19.7
3 2	11 42.16	+ 9 28.4	1.184	2.162	5.7	19.5
3 12	11 32.17	+10 27.3	1.190	2.180	3.3	19.4
3 22	11 22.35	+11 13.9	1.222	2.197	7.2	19.7
4 1	11 14.10	+11 41.8	1.278	2.215	11.9	20.0
4 11	11 8.39	+11 48.1	1.356	2.232	16.1	20.3
4 21	11 5.65	+11 33.8	1.452	2.249	19.5	20.6

433259 2012 XN_{37} 3 12.7 147°.50 4°.6/ 5.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 52.06	+21 1.2	3.123	3.985	7.8	21.9
2 21	11 46.34	+22 2.7	3.076	3.996	5.9	21.8
3 2	11 39.48	+22 59.2	3.059	4.007	4.7	21.7
3 12	11 32.03	+23 45.7	3.071	4.017	5.0	21.8
3 22	11 24.61	+24 18.9	3.112	4.026	6.4	21.9
4 1	11 17.80	+24 36.5	3.181	4.035	8.3	22.0
4 11	11 12.13	+24 38.3	3.274	4.044	10.1	22.2
4 21	11 7.92	+24 25.2	3.387	4.051	11.7	22.3

206872 2004 FU_{118} 3 12.7 43°.22 0°.1/12.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.27	− 0 42.5	2.108	2.961	11.4	20.1
2 21	11 44.81	+ 0 11.5	2.039	2.965	8.1	19.9
3 2	11 38.83	+ 1 18.0	1.995	2.969	4.3	19.6
3 12	11 32.00	+ 2 31.5	1.980	2.973	0.4	19.3
3 22	11 25.10	+ 3 45.7	1.993	2.977	3.7	19.6
4 1	11 18.94	+ 4 54.1	2.036	2.982	7.5	19.9
4 11	11 14.20	+ 5 51.3	2.104	2.987	10.8	20.1
4 21	11 11.30	+ 6 34.2	2.194	2.991	13.7	20.3

383015 2005 MS_{35} 3 12.7 222°.56 3°.6/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.31	+12 44.6	2.418	3.291	9.4	20.7
2 21	11 45.43	+13 54.1	2.352	3.288	6.6	20.5
3 2	11 39.13	+15 4.9	2.314	3.284	4.2	20.4
3 12	11 32.03	+16 10.5	2.305	3.281	3.9	20.4
3 22	11 24.85	+17 5.5	2.325	3.277	6.1	20.5
4 1	11 18.32	+17 45.5	2.372	3.273	8.9	20.7
4 11	11 13.10	+18 8.3	2.444	3.270	11.5	20.8
4 21	11 9.60	+18 13.9	2.537	3.266	13.8	21.0

385689 2005 TP_{16} 3 12.7 305°.03 1°.5/11.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.56	+ 7 21.5	2.099	2.961	11.1	20.5
2 21	11 49.39	+ 7 27.7	2.010	2.942	7.8	20.2
3 2	11 41.35	+ 7 37.6	1.947	2.923	4.1	19.9
3 12	11 32.18	+ 7 47.1	1.913	2.905	1.5	19.7
3 22	11 22.76	+ 7 52.0	1.908	2.886	4.7	19.9
4 1	11 14.06	+ 7 48.9	1.932	2.868	8.5	20.1
4 11	11 6.94	+ 7 35.2	1.981	2.850	12.1	20.3
4 21	11 1.93	+ 7 10.2	2.052	2.832	15.1	20.5

433236 2012 VY_{52} 3 12.7 137°.28 0°.1/12.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.10	+ 1 18.4	2.817	3.661	9.1	22.4
2 21	11 45.74	+ 1 53.1	2.750	3.673	6.4	22.2
3 2	11 39.20	+ 2 35.2	2.711	3.685	3.4	22.0
3 12	11 32.04	+ 3 20.9	2.702	3.695	0.2	21.8
3 22	11 24.86	+ 4 6.3	2.724	3.706	3.0	22.0
4 1	11 18.29	+ 4 47.3	2.775	3.716	6.0	22.2
4 11	11 12.85	+ 5 20.7	2.854	3.726	8.7	22.4
4 21	11 8.88	+ 5 44.5	2.957	3.735	11.0	22.6

310495 2000 UD_{36} 3 12.7 136°.16 1°.7/14.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.60	− 4 54.8	1.956	2.786	13.1	22.0
2 21	11 49.29	− 4 16.0	1.891	2.802	9.6	21.9
3 2	11 41.20	− 3 20.9	1.851	2.816	5.6	21.6
3 12	11 32.17	− 2 14.3	1.840	2.830	2.0	21.4
3 22	11 23.12	− 1 2.6	1.858	2.843	3.7	21.6
4 1	11 15.02	+ 0 7.2	1.905	2.855	7.6	21.8
4 11	11 8.64	+ 1 8.6	1.979	2.867	11.2	22.1
4 21	11 4.43	+ 1 57.6	2.075	2.877	14.2	22.3

154568 2003 HG_{32} 3 12.7 256°.25 6°.7/ 5.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.84	+21 7.4	2.003	2.874	11.1	20.0
2 21	11 49.68	+22 19.7	1.935	2.859	8.6	19.8
3 2	11 41.52	+23 26.4	1.894	2.845	6.9	19.7
3 12	11 32.19	+24 18.8	1.880	2.830	7.2	19.7
3 22	11 22.70	+24 50.6	1.893	2.814	9.4	19.8
4 1	11 14.10	+24 58.1	1.931	2.799	12.2	19.9
4 11	11 7.28	+24 41.2	1.991	2.783	15.0	20.1
4 21	11 2.78	+24 2.5	2.070	2.766	17.4	20.2

145725 1994 CB_{5} 3 12.7 343°.23 1°.4/11.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.61	+ 2 57.3	1.388	2.268	14.5	19.7
2 21	11 45.75	+ 3 54.4	1.319	2.259	10.1	19.4
3 2	11 39.61	+ 5 6.2	1.272	2.251	5.3	19.1
3 12	11 32.08	+ 6 24.4	1.251	2.243	1.4	18.8
3 22	11 24.34	+ 7 39.3	1.255	2.237	5.8	19.1
4 1	11 17.64	+ 8 41.6	1.285	2.231	10.9	19.4
4 11	11 13.01	+ 9 24.5	1.336	2.227	15.3	19.6
4 21	11 11.03	+ 9 45.4	1.407	2.223	19.1	19.8

232295 2002 RC_{202} 3 12.7 199°.28 1°.3/11.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.20	+ 5 2.2	2.300	3.159	10.3	20.9
2 21	11 46.80	+ 5 43.5	2.226	3.157	7.2	20.7
3 2	11 39.88	+ 6 31.5	2.179	3.155	3.7	20.4
3 12	11 32.10	+ 7 21.2	2.161	3.153	1.3	20.2
3 22	11 24.22	+ 8 7.3	2.173	3.150	4.2	20.5
4 1	11 17.04	+ 8 45.1	2.213	3.147	7.7	20.7
4 11	11 11.24	+ 9 11.2	2.279	3.144	10.9	20.9
4 21	11 7.26	+ 9 24.1	2.367	3.141	13.5	21.0

327294 2005 TJ_{116} 3 12.7 15°.07 0°.9/13.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 53.81	− 1 6.8	1.668	2.523	13.8	20.9
2 21	11 48.37	− 0 47.3	1.598	2.523	10.0	20.7
3 2	11 40.86	− 0 13.4	1.552	2.524	5.5	20.4
3 12	11 32.16	+ 0 30.0	1.532	2.525	1.2	20.1
3 22	11 23.33	+ 1 16.9	1.540	2.526	4.2	20.3
4 1	11 15.48	+ 2 0.4	1.575	2.527	8.7	20.6
4 11	11 9.52	+ 2 34.7	1.635	2.528	12.8	20.8
4 21	11 5.98	+ 2 56.2	1.715	2.530	16.2	21.1

217443 2005 SA_{206} 3 12.7 131°.21 1°.2/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.18	+ 2 43.1	2.005	2.864	11.6	21.0
2 21	11 46.88	+ 3 58.4	1.943	2.875	8.0	20.8
3 2	11 39.94	+ 5 24.0	1.908	2.885	4.1	20.6
3 12	11 32.10	+ 6 52.7	1.902	2.895	1.2	20.4
3 22	11 24.24	+ 8 17.0	1.926	2.904	4.6	20.6
4 1	11 17.23	+ 9 30.1	1.978	2.913	8.5	20.9
4 11	11 11.79	+10 27.0	2.056	2.921	11.8	21.1
4 21	11 8.35	+11 5.9	2.155	2.930	14.6	21.3

337446 2001 RR_{57} 3 12.7 154°.29 1°.2/11.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.70	+ 6 23.8	2.641	3.496	9.3	21.3
2 21	11 47.63	+ 6 48.3	2.573	3.502	6.4	21.2
3 2	11 40.24	+ 7 16.8	2.532	3.508	3.4	21.0
3 12	11 32.12	+ 7 45.3	2.522	3.513	1.3	20.8
3 22	11 23.99	+ 8 10.2	2.542	3.519	3.8	21.0
4 1	11 16.52	+ 8 28.0	2.592	3.523	6.9	21.2
4 11	11 10.32	+ 8 36.6	2.669	3.528	9.7	21.4
4 21	11 5.77	+ 8 34.8	2.768	3.532	12.0	21.6

242648 Fribourg 3 12.7 307°.59 3°.0/15.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.18	− 8 17.9	1.974	2.801	13.1	20.7
2 21	11 45.07	− 7 50.6	1.874	2.778	10.1	20.4
3 2	11 39.15	− 7 3.2	1.797	2.755	6.5	20.2
3 12	11 32.07	− 5 58.3	1.748	2.733	3.4	19.9
3 22	11 24.67	− 4 41.1	1.726	2.710	4.0	19.9
4 1	11 17.90	− 3 19.0	1.731	2.688	7.7	20.1
4 11	11 12.60	− 2 0.0	1.763	2.666	11.5	20.3
4 21	11 9.37	− 0 50.6	1.817	2.645	14.9	20.4

126085 2001 YN_{93} 3 12.7 187°.17 0°.7/12.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.39	+ 2 22.2	1.907	2.760	12.4	21.1
2 21	11 50.01	+ 3 6.8	1.832	2.760	8.7	20.9
3 2	11 41.68	+ 4 2.1	1.784	2.760	4.5	20.7
3 12	11 32.23	+ 5 2.4	1.765	2.758	0.7	20.4
3 22	11 22.64	+ 6 0.8	1.775	2.756	4.5	20.6
4 1	11 13.95	+ 6 51.1	1.813	2.752	8.7	20.9
4 11	11 7.01	+ 7 28.3	1.877	2.748	12.5	21.1
4 21	11 2.35	+ 7 50.2	1.962	2.744	15.6	21.3

506717 2006 UZ_{213} 3 12.7 237°.26 5°.7/20.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.57	−20 37.7	2.885	3.617	11.7	22.1
2 21	11 45.59	−20 37.3	2.779	3.604	9.9	21.9
3 2	11 39.25	−20 17.4	2.696	3.589	7.9	21.8
3 12	11 32.08	−19 38.1	2.639	3.575	6.2	21.7
3 22	11 24.70	−18 41.3	2.610	3.560	5.7	21.6
4 1	11 17.80	−17 31.2	2.610	3.544	6.7	21.6
4 11	11 12.02	−16 13.3	2.637	3.528	8.6	21.7
4 21	11 7.78	−14 53.8	2.690	3.512	10.8	21.9

156198 2001 UP_{29} 3 12.7 237°.41 3°.7/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.19	+ 9 23.0	1.718	2.590	12.6	21.1
2 21	11 50.17	+10 38.2	1.639	2.576	8.8	20.8
3 2	11 41.91	+12 0.5	1.587	2.562	5.1	20.6
3 12	11 32.25	+13 20.7	1.562	2.546	3.9	20.5
3 22	11 22.30	+14 30.0	1.565	2.530	7.2	20.6
4 1	11 13.24	+15 20.9	1.595	2.513	11.3	20.8
4 11	11 6.11	+15 49.7	1.649	2.495	15.2	21.0
4 21	11 1.53	+15 55.8	1.721	2.477	18.5	21.2

379395 2009 YZ_{13} 3 12.7 92°.27 0°.9/11.8 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.64	+ 3 51.9	1.952	2.813	11.8	21.7
2 21	11 47.94	+ 4 25.0	1.890	2.821	8.2	21.5
3 2	11 40.52	+ 5 6.1	1.853	2.829	4.3	21.3
3 12	11 32.16	+ 5 49.8	1.844	2.837	0.9	21.0
3 22	11 23.78	+ 6 30.6	1.865	2.845	4.4	21.3
4 1	11 16.30	+ 7 3.2	1.913	2.853	8.3	21.6
4 11	11 10.47	+ 7 24.0	1.986	2.861	11.8	21.8
4 21	11 6.74	+ 7 31.3	2.081	2.869	14.7	22.0

1839 Ragazza 3 12.7 109°.93 4°.4/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.46	+15 8.0	2.109	2.980	10.6	16.7
2 21	11 49.06	+16 2.4	2.062	2.994	7.6	16.5
3 2	11 41.04	+16 54.4	2.042	3.009	5.0	16.4
3 12	11 32.19	+17 37.6	2.050	3.023	4.7	16.4
3 22	11 23.43	+18 6.6	2.088	3.037	6.9	16.5
4 1	11 15.64	+18 18.6	2.152	3.051	9.8	16.7
4 11	11 9.52	+18 12.7	2.240	3.064	12.5	16.9
4 21	11 5.44	+17 50.3	2.349	3.077	14.8	17.1

402182 2004 TP_{73} 3 12.7 230°.34 1°.5/11.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 57.14	+ 4 49.1	1.726	2.589	13.0	22.4
2 21	11 50.80	+ 5 29.6	1.646	2.578	9.1	22.2
3 2	11 42.23	+ 6 19.5	1.591	2.568	4.8	21.9
3 12	11 32.29	+ 7 12.5	1.564	2.556	1.5	21.6
3 22	11 22.08	+ 8 1.3	1.565	2.544	5.4	21.8
4 1	11 12.80	+ 8 39.6	1.594	2.531	9.9	22.1
4 11	11 5.45	+ 9 2.6	1.647	2.518	14.0	22.3
4 21	11 0.64	+ 9 8.7	1.720	2.504	17.4	22.5

424638 2008 LM_{8} 3 12.7 167°.19 4°.9/ 6.2 15

2 11	11 53.93	+17 58.9	2.542	3.409	9.2	21.9
2 21	11 47.90	+19 17.9	2.488	3.415	6.8	21.8
3 2	11 40.42	+20 33.7	2.463	3.420	5.1	21.7
3 12	11 32.16	+21 39.6	2.467	3.424	5.2	21.7
3 22	11 23.88	+22 30.4	2.501	3.428	7.1	21.8
4 1	11 16.33	+23 2.9	2.562	3.431	9.5	21.9
4 11	11 10.15	+23 16.1	2.647	3.433	11.8	22.1
4 21	11 5.76	+23 11.2	2.751	3.435	13.8	22.3

430490 2001 TD_{140} 3 12.7 126°.56 0°.7/11.9 18

2 11	11 52.34	+ 1 4.1	1.961	2.817	12.0	21.1
2 21	11 47.03	+ 2 16.3	1.899	2.828	8.4	20.9
3 2	11 40.04	+ 3 40.4	1.864	2.839	4.3	20.7
3 12	11 32.14	+ 5 9.5	1.857	2.850	0.7	20.4
3 22	11 24.22	+ 6 35.8	1.880	2.860	4.4	20.7
4 1	11 17.18	+ 7 52.2	1.931	2.870	8.3	21.0
4 11	11 11.74	+ 8 53.3	2.008	2.880	11.8	21.2
4 21	11 8.34	+ 9 36.7	2.107	2.889	14.7	21.4

520942 2014 XS_{43} 3 12.7 196°.34 3°.0/ 9.7 17

2 11	11 54.46	+ 9 10.7	1.915	2.785	11.6	21.8
2 21	11 48.64	+10 8.1	1.847	2.783	8.1	21.6
3 2	11 40.96	+11 10.0	1.806	2.782	4.5	21.4
3 12	11 32.21	+12 9.2	1.794	2.780	3.2	21.3
3 22	11 23.36	+12 59.1	1.809	2.777	6.1	21.5
4 1	11 15.41	+13 34.2	1.853	2.774	9.8	21.7
4 11	11 9.17	+13 51.7	1.920	2.771	13.2	21.9
4 21	11 5.13	+13 51.1	2.007	2.768	16.0	22.1

118732 2000 QY_{123} 3 12.7 126°.50 2°.4/15.8 18

2 11	11 49.90	− 7 58.3	2.523	3.338	11.0	20.2
2 21	11 45.09	− 7 30.8	2.447	3.345	8.3	20.0
3 2	11 38.95	− 6 48.7	2.396	3.352	5.3	19.9
3 12	11 32.09	− 5 54.8	2.374	3.358	2.7	19.7
3 22	11 25.16	− 4 53.5	2.381	3.365	3.2	19.7
4 1	11 18.86	− 3 50.1	2.418	3.371	6.0	19.9
4 11	11 13.78	− 2 49.7	2.482	3.377	8.9	20.1
4 21	11 10.31	− 1 56.8	2.570	3.383	11.5	20.3

71130 1999 XX_{176} 3 12.7 105°.26 12°.9/ 1.2 18

2 11	12 2.54	−43 34.5	2.592	3.113	17.0	19.6
2 21	11 54.62	−45 7.9	2.527	3.135	15.9	19.6
3 2	11 44.29	−46 11.7	2.477	3.155	14.8	19.5
3 12	11 32.44	−46 41.5	2.444	3.175	13.9	19.4
3 22	11 20.21	−46 35.7	2.432	3.195	13.2	19.4
4 1	11 8.89	−45 56.5	2.440	3.215	12.9	19.4
4 11	10 59.58	−44 50.5	2.469	3.233	13.2	19.5
4 21	10 52.94	−43 26.1	2.517	3.252	13.8	19.6

329781 2004 NH_{15} 3 12.7 295°.93 6°.7/17.7 17

2 11	11 54.64	−13 55.3	1.728	2.527	15.9	20.8
2 21	11 49.33	−14 31.9	1.625	2.502	13.0	20.5
3 2	11 41.63	−14 46.3	1.544	2.478	9.8	20.3
3 12	11 32.28	−14 36.9	1.488	2.453	7.2	20.0
3 22	11 22.33	−14 5.2	1.458	2.428	7.0	20.0
4 1	11 13.04	−13 16.2	1.454	2.403	9.6	20.0
4 11	11 5.58	−12 18.1	1.474	2.378	13.3	20.2
4 21	11 0.74	−11 19.7	1.515	2.353	16.9	20.4

385923 2006 TB_{103} 3 12.7 263°.80 0°.9/11.6 17

2 11	11 52.01	+ 4 32.9	2.351	3.210	10.2	21.2
2 21	11 46.71	+ 5 2.4	2.269	3.199	7.1	21.0
3 2	11 39.88	+ 5 38.6	2.213	3.189	3.7	20.8
3 12	11 32.15	+ 6 17.1	2.186	3.179	1.0	20.6
3 22	11 24.28	+ 6 53.3	2.189	3.168	4.0	20.8
4 1	11 17.04	+ 7 22.8	2.220	3.158	7.5	21.0
4 11	11 11.13	+ 7 42.2	2.278	3.147	10.7	21.2
4 21	11 7.01	+ 7 49.7	2.357	3.136	13.4	21.3

244191 2001 YG_{13} 3 12.7 189°.40 8°.4/26.8 18

2 11	11 55.51	+38 9.9	3.060	3.876	9.2	21.6
2 21	11 49.01	+39 28.7	3.027	3.875	8.5	21.5
3 2	11 41.01	+40 32.5	3.020	3.873	8.5	21.5
3 12	11 32.22	+41 15.8	3.039	3.871	9.1	21.6
3 22	11 23.42	+41 35.7	3.082	3.868	10.2	21.6
4 1	11 15.41	+41 31.5	3.147	3.865	11.4	21.7
4 11	11 8.84	+41 4.9	3.231	3.861	12.7	21.8
4 21	11 4.13	+40 19.3	3.331	3.857	13.7	21.9

430473 2001 RP_{131} 3 12.7 169°.44 1°.4/11.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 54.01	+ 7 5.9	2.594	3.451	9.4	21.5
2 21	11 47.90	+ 7 29.6	2.523	3.454	6.5	21.3
3 2	11 40.43	+ 7 56.9	2.480	3.456	3.4	21.1
3 12	11 32.20	+ 8 23.9	2.467	3.458	1.5	21.0
3 22	11 23.92	+ 8 46.6	2.485	3.460	4.0	21.1
4 1	11 16.32	+ 9 1.8	2.532	3.461	7.1	21.3
4 11	11 10.01	+ 9 7.2	2.605	3.462	9.9	21.5
4 21	11 5.39	+ 9 2.1	2.701	3.463	12.3	21.7

317372 2002 NS_{63} 3 12.7 199°.16 0°.6/12.1 17

2 11	11 52.59	+ 2 49.1	2.203	3.058	10.9	21.4
2 21	11 47.14	+ 3 23.6	2.128	3.057	7.6	21.2
3 2	11 40.12	+ 4 6.6	2.079	3.055	4.0	21.0
3 12	11 32.18	+ 4 53.5	2.060	3.053	0.6	20.7
3 22	11 24.14	+ 5 38.9	2.069	3.051	3.9	21.0
4 1	11 16.82	+ 6 18.0	2.108	3.048	7.6	21.2
4 11	11 10.95	+ 6 46.6	2.172	3.046	10.9	21.4
4 21	11 6.96	+ 7 2.8	2.258	3.043	13.7	21.6

405172 2002 VE_{105} 3 12.7 61°.54 1°.5/13.9 18

2 11	11 57.00	− 2 38.0	1.466	2.318	15.5	20.9
2 21	11 50.49	− 2 16.9	1.426	2.348	11.2	20.7
3 2	11 41.89	− 1 39.4	1.408	2.379	6.3	20.5
3 12	11 32.29	− 0 51.1	1.418	2.410	1.8	20.3
3 22	11 22.93	+ 0 0.5	1.454	2.440	4.4	20.5
4 1	11 14.95	+ 0 48.1	1.517	2.471	8.9	20.9
4 11	11 9.19	+ 1 25.7	1.605	2.501	12.9	21.2
4 21	11 6.03	+ 1 50.0	1.712	2.531	16.1	21.5

222583 2001 WT_{30} 3 12.7 250°.98 6°.5/ 6.1 17

2 11	11 55.53	+19 21.9	1.872	2.747	11.6	19.9
2 21	11 49.54	+20 36.8	1.808	2.737	8.7	19.7
3 2	11 41.50	+21 47.1	1.770	2.727	6.7	19.5
3 12	11 32.28	+22 44.0	1.760	2.717	7.0	19.5
3 22	11 22.92	+23 20.4	1.776	2.707	9.3	19.6
4 1	11 14.52	+23 32.6	1.818	2.696	12.4	19.8
4 11	11 7.98	+23 20.0	1.881	2.686	15.3	20.0
4 21	11 3.84	+22 45.2	1.963	2.675	17.8	20.1

181683 4803 $P–L$ 3 12.7 154°.39 0°.4/12.3 18

2 11	11 55.57	+ 1 57.7	2.005	2.857	11.9	21.6
2 21	11 49.30	+ 2 37.4	1.938	2.865	8.4	21.4
3 2	11 41.27	+ 3 27.1	1.898	2.873	4.4	21.2
3 12	11 32.27	+ 4 21.3	1.886	2.879	0.4	20.9
3 22	11 23.22	+ 5 14.1	1.904	2.885	4.2	21.2
4 1	11 15.06	+ 5 59.7	1.950	2.891	8.1	21.4
4 11	11 8.56	+ 6 33.7	2.022	2.896	11.6	21.6
4 21	11 4.19	+ 6 54.0	2.116	2.900	14.6	21.9

375127 2007 VZ_{184} 3 12.7 146°.92 0°.2/12.9 18

2 11	11 55.65	− 0 10.3	1.914	2.762	12.6	22.2
2 21	11 49.41	+ 0 31.2	1.848	2.772	8.9	22.0
3 2	11 41.34	+ 1 25.1	1.808	2.781	4.8	21.7
3 12	11 32.27	+ 2 25.9	1.797	2.790	0.4	21.4
3 22	11 23.17	+ 3 27.2	1.815	2.798	4.0	21.7
4 1	11 15.00	+ 4 22.4	1.861	2.806	8.2	22.0
4 11	11 8.57	+ 5 6.5	1.933	2.813	11.8	22.2
4 21	11 4.34	+ 5 36.4	2.027	2.819	14.9	22.4

244063 2001 TJ_{110} 3 12.7 135°.44 4°.0/17.5 17

2 11	11 50.87	−12 28.5	2.407	3.200	12.1	20.3
2 21	11 45.88	−12 22.2	2.326	3.204	9.6	20.1
3 2	11 39.44	−11 58.3	2.269	3.207	6.8	19.9
3 12	11 32.15	−11 18.3	2.239	3.210	4.5	19.8
3 22	11 24.77	−10 25.8	2.238	3.214	4.3	19.8
4 1	11 18.03	− 9 25.9	2.266	3.217	6.5	19.9
4 11	11 12.60	− 8 24.7	2.320	3.220	9.3	20.1
4 21	11 8.92	− 7 27.4	2.399	3.223	11.9	20.3

491041 2011 QL_{21} 3 12.7 269°.16 5°.1/18.2 17

2 11	11 51.88	−14 41.9	2.342	3.123	12.8	21.2
2 21	11 46.77	−14 53.3	2.243	3.109	10.4	21.0
3 2	11 40.00	−14 45.6	2.168	3.094	7.8	20.8
3 12	11 32.20	−14 19.3	2.119	3.080	5.6	20.6
3 22	11 24.12	−13 36.7	2.097	3.066	5.3	20.6
4 1	11 16.62	−12 42.5	2.104	3.051	7.2	20.7
4 11	11 10.46	−11 42.9	2.138	3.036	10.0	20.8
4 21	11 6.17	−10 44.0	2.195	3.021	12.7	21.0

364654 2007 TY_{169} 3 12.7 68°.15 6°.1/18.5 18

2 11	11 54.09	−15 32.7	1.463	2.267	18.1	20.3
2 21	11 48.65	−15 14.4	1.411	2.291	14.4	20.2
3 2	11 41.02	−14 25.0	1.379	2.316	10.3	20.0
3 12	11 32.25	−13 7.9	1.371	2.340	6.9	19.8
3 22	11 23.58	−11 31.0	1.389	2.365	6.3	19.9
4 1	11 16.19	− 9 45.1	1.433	2.389	9.0	20.1
4 11	11 10.99	− 8 2.0	1.502	2.414	12.6	20.3
4 21	11 8.40	− 6 30.5	1.593	2.438	15.9	20.6

321331 2009 HC_{80} 3 12.7 308°.11 5°.3/ 8.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 55.65	+13 11.0	1.393	2.278	14.0	20.2
2 21	11 50.16	+14 8.8	1.323	2.264	10.1	19.9
3 2	11 42.06	+15 8.5	1.276	2.249	6.4	19.7
3 12	11 32.34	+16 0.1	1.255	2.235	5.6	19.6
3 22	11 22.33	+16 34.4	1.260	2.222	8.9	19.7
4 1	11 13.49	+16 45.3	1.289	2.209	13.3	19.9
4 11	11 6.99	+16 30.9	1.338	2.196	17.4	20.2
4 21	11 3.46	+15 53.0	1.405	2.183	20.9	20.4

158464 2002 CY_{214} 3 12.7 300°.77 2°.1/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.86	+ 5 59.5	1.812	2.683	12.1	20.2
2 21	11 46.92	+ 7 0.8	1.743	2.680	8.4	19.9
3 2	11 40.10	+ 8 10.5	1.700	2.677	4.4	19.7
3 12	11 32.20	+ 9 21.2	1.684	2.674	2.3	19.5
3 22	11 24.18	+10 25.4	1.697	2.671	5.6	19.7
4 1	11 17.04	+11 16.4	1.737	2.669	9.6	20.0
4 11	11 11.60	+11 50.2	1.800	2.666	13.2	20.2
4 21	11 8.36	+12 5.2	1.884	2.664	16.3	20.4

358529 2007 TN_{13} 3 12.7 193°.23 5°.1/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 59.30	+16 58.8	2.102	2.967	10.9	20.8
2 21	11 51.95	+17 56.9	2.037	2.964	8.0	20.6
3 2	11 42.69	+18 51.8	1.999	2.962	5.6	20.4
3 12	11 32.37	+19 36.3	1.991	2.958	5.4	20.4
3 22	11 21.98	+20 4.7	2.011	2.953	7.7	20.5
4 1	11 12.54	+20 13.5	2.060	2.947	10.7	20.7
4 11	11 4.87	+20 2.2	2.132	2.941	13.5	20.9
4 21	10 59.47	+19 32.7	2.223	2.934	16.0	21.0

53576 2000 CS_{47} 3 12.7 304°.02 5°.1/16.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.10	− 8 59.7	1.285	2.127	17.9	18.7
2 21	11 49.36	− 9 14.4	1.201	2.110	14.0	18.4
3 2	11 41.80	− 9 3.2	1.137	2.095	9.5	18.1
3 12	11 32.33	− 8 27.0	1.096	2.079	5.6	17.8
3 22	11 22.32	− 7 30.7	1.080	2.064	6.2	17.8
4 1	11 13.32	− 6 23.2	1.088	2.049	10.6	18.0
4 11	11 6.71	− 5 15.8	1.118	2.034	15.5	18.2
4 21	11 3.29	− 4 17.9	1.167	2.020	19.9	18.5

364200 2006 QZ_{58} 3 12.7 253°.38 0°.9/13.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.57	− 1 59.4	1.849	2.694	13.1	21.8
2 21	11 48.98	− 1 24.2	1.755	2.676	9.5	21.5
3 2	11 41.31	− 0 33.1	1.686	2.657	5.4	21.2
3 12	11 32.30	+ 0 29.4	1.645	2.638	1.1	20.9
3 22	11 22.93	+ 1 36.9	1.633	2.618	4.1	21.0
4 1	11 14.30	+ 2 41.8	1.649	2.598	8.7	21.3
4 11	11 7.36	+ 3 37.4	1.690	2.577	12.8	21.5
4 21	11 2.75	+ 4 19.0	1.752	2.555	16.4	21.6

192973 2000 DL_{23} 3 12.7 43°.72 2°.0/14.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.43	− 3 14.4	1.787	2.630	13.6	20.0
2 21	11 48.66	− 3 17.9	1.723	2.640	9.9	19.8
3 2	11 40.99	− 3 7.1	1.683	2.650	5.9	19.6
3 12	11 32.27	− 2 45.5	1.670	2.660	2.3	19.4
3 22	11 23.51	− 2 17.4	1.685	2.671	4.0	19.5
4 1	11 15.73	− 1 48.5	1.728	2.682	7.9	19.8
4 11	11 9.76	− 1 24.0	1.796	2.693	11.6	20.0
4 21	11 6.06	− 1 7.8	1.885	2.704	14.8	20.3

129177 Jeanneeha 3 12.7 232°.65 1°.4/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.01	+ 4 47.5	2.394	3.255	9.9	20.1
2 21	11 45.29	+ 5 49.2	2.316	3.249	6.9	19.9
3 2	11 39.14	+ 6 58.7	2.266	3.243	3.5	19.7
3 12	11 32.16	+ 8 10.2	2.245	3.236	1.5	19.5
3 22	11 25.05	+ 9 18.0	2.254	3.229	4.3	19.7
4 1	11 18.57	+10 16.6	2.292	3.222	7.7	19.9
4 11	11 13.35	+11 2.0	2.355	3.215	10.7	20.1
4 21	11 9.82	+11 32.3	2.441	3.208	13.3	20.2

426882 2013 WR_{47} 3 12.7 168°.64 0°.0/12.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.12	+ 0 24.8	2.203	3.052	11.1	21.0
2 21	11 46.81	+ 1 9.9	2.130	3.055	7.9	20.8
3 2	11 39.96	+ 2 5.9	2.083	3.057	4.2	20.6
3 12	11 32.22	+ 3 7.8	2.066	3.059	0.3	20.3
3 22	11 24.40	+ 4 9.8	2.078	3.061	3.7	20.6
4 1	11 17.31	+ 5 6.2	2.119	3.062	7.4	20.8
4 11	11 11.65	+ 5 52.4	2.186	3.063	10.7	21.0
4 21	11 7.85	+ 6 25.4	2.275	3.064	13.5	21.2

380445 2003 SH_{283} 3 12.7 226°.20 5°.1/17.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.14	−14 18.6	2.339	3.118	12.9	21.0
2 21	11 48.34	−14 35.6	2.245	3.110	10.4	20.8
3 2	11 40.85	−14 34.1	2.174	3.101	7.7	20.6
3 12	11 32.29	−14 14.4	2.130	3.092	5.6	20.4
3 22	11 23.49	−13 38.8	2.115	3.083	5.3	20.4
4 1	11 15.30	−12 51.7	2.128	3.073	7.3	20.5
4 11	11 8.52	−11 59.2	2.168	3.063	10.0	20.7
4 21	11 3.66	−11 7.2	2.232	3.053	12.8	20.8

322830 2001 SF_{334} 3 12.7 345°.21 2°.7/15.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 48.51	− 8 2.2	1.448	2.294	16.0	19.7
2 21	11 44.96	− 7 8.9	1.372	2.288	12.1	19.4
3 2	11 39.24	− 5 48.1	1.318	2.282	7.5	19.1
3 12	11 32.19	− 4 5.6	1.289	2.278	3.2	18.9
3 22	11 24.93	− 2 10.8	1.286	2.274	4.5	18.9
4 1	11 18.65	− 0 15.8	1.310	2.270	9.2	19.2
4 11	11 14.33	+ 1 27.9	1.358	2.268	13.7	19.4
4 21	11 12.55	+ 2 52.5	1.426	2.266	17.7	19.7

152381 2005 UK_{205} 3 12.7 337°.49 3°.9/ 9.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.91	+10 14.4	1.461	2.346	13.6	19.5
2 21	11 48.05	+11 6.8	1.394	2.337	9.5	19.2
3 2	11 40.87	+12 3.9	1.352	2.328	5.5	18.9
3 12	11 32.30	+12 57.0	1.335	2.321	4.1	18.8
3 22	11 23.55	+13 37.5	1.344	2.313	7.5	19.0
4 1	11 15.90	+13 59.3	1.378	2.307	11.8	19.2
4 11	11 10.36	+13 59.4	1.434	2.301	15.9	19.5
4 21	11 7.51	+13 38.3	1.507	2.297	19.2	19.7

418235 2008 DA_{20} 3 12.7 10°.89 1°.6/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.93	− 4 36.6	1.375	2.234	15.9	21.0
2 21	11 45.97	− 3 44.8	1.310	2.236	11.6	20.7
3 2	11 39.76	− 2 29.8	1.266	2.238	6.7	20.5
3 12	11 32.23	− 0 58.4	1.248	2.240	1.9	20.2
3 22	11 24.56	+ 0 39.5	1.256	2.243	4.6	20.3
4 1	11 18.00	+ 2 12.7	1.289	2.247	9.6	20.6
4 11	11 13.52	+ 3 31.6	1.346	2.252	14.2	20.9
4 21	11 11.66	+ 4 30.4	1.423	2.257	18.0	21.2

147207 2002 VK_{139} 3 12.7 137°.69 3°.1/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.40	+ 8 33.1	1.999	2.868	11.2	20.9
2 21	11 47.78	+10 3.6	1.944	2.880	7.7	20.7
3 2	11 40.48	+11 39.1	1.916	2.891	4.3	20.5
3 12	11 32.27	+13 11.4	1.917	2.901	3.4	20.5
3 22	11 24.05	+14 32.4	1.948	2.911	6.2	20.6
4 1	11 16.71	+15 36.4	2.007	2.921	9.6	20.9
4 11	11 11.01	+16 20.0	2.090	2.929	12.7	21.1
4 21	11 7.35	+16 43.0	2.194	2.937	15.3	21.3

171919 2001 SG_{115} 3 12.7 159°.22 0°.3/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.81	+ 2 14.7	3.184	4.027	8.2	22.2
2 21	11 45.50	+ 2 53.8	3.112	4.035	5.7	22.1
3 2	11 39.13	+ 3 39.1	3.069	4.043	3.0	21.9
3 12	11 32.19	+ 4 27.0	3.057	4.050	0.3	21.6
3 22	11 25.21	+ 5 14.0	3.076	4.056	2.9	21.9
4 1	11 18.75	+ 5 56.5	3.125	4.062	5.6	22.1
4 11	11 13.28	+ 6 31.6	3.203	4.067	8.0	22.2
4 21	11 9.14	+ 6 57.4	3.304	4.072	10.1	22.4

294648 2008 AS_{71} 3 12.7 297°.11 3°.0/15.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.81	− 7 57.8	2.321	3.137	11.8	20.5
2 21	11 46.62	− 7 59.5	2.238	3.135	9.0	20.3
3 2	11 39.88	− 7 46.3	2.179	3.132	6.0	20.1
3 12	11 32.24	− 7 20.4	2.148	3.130	3.4	20.0
3 22	11 24.45	− 6 44.9	2.146	3.127	3.8	20.0
4 1	11 17.31	− 6 4.6	2.172	3.125	6.6	20.2
4 11	11 11.52	− 5 24.6	2.225	3.122	9.7	20.3
4 21	11 7.54	− 4 49.4	2.301	3.120	12.5	20.5

94608 2001 VR_{109} 3 12.7 6°.72 3°.8/15.5 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.22	− 7 16.5	1.188	2.043	18.2	19.1
2 21	11 47.91	− 7 6.9	1.123	2.043	13.8	18.8
3 2	11 40.92	− 6 30.3	1.079	2.043	8.8	18.5
3 12	11 32.32	− 5 30.8	1.057	2.045	4.3	18.3
3 22	11 23.51	− 4 16.6	1.060	2.047	5.4	18.3
4 1	11 15.98	− 2 58.8	1.087	2.050	10.3	18.6
4 11	11 10.91	− 1 48.6	1.136	2.053	15.2	18.9
4 21	11 8.91	− 0 53.8	1.204	2.058	19.4	19.1

253265 2003 AV_{65} 3 12.7 92°.15 8°.0/ 5.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.77	+23 21.8	1.742	2.614	12.4	20.1
2 21	11 50.99	+24 43.4	1.710	2.631	9.7	20.0
3 2	11 42.18	+25 53.6	1.703	2.647	8.1	19.9
3 12	11 32.39	+26 43.4	1.722	2.664	8.5	20.0
3 22	11 22.79	+27 7.2	1.768	2.680	10.6	20.1
4 1	11 14.49	+27 3.3	1.837	2.695	13.2	20.3
4 11	11 8.32	+26 33.7	1.927	2.711	15.7	20.5
4 21	11 4.66	+25 42.8	2.035	2.726	17.8	20.7

387659 2002 RD_{233} 3 12.7 132°.49 1°.4/11.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.24	+ 5 23.8	2.321	3.181	10.2	21.4
2 21	11 46.80	+ 6 9.5	2.258	3.190	7.1	21.2
3 2	11 39.92	+ 7 1.1	2.221	3.198	3.7	21.0
3 12	11 32.25	+ 7 53.6	2.214	3.205	1.4	20.8
3 22	11 24.56	+ 8 41.7	2.236	3.213	4.3	21.1
4 1	11 17.60	+ 9 20.8	2.288	3.220	7.6	21.3
4 11	11 12.03	+ 9 47.8	2.365	3.227	10.6	21.5
4 21	11 8.23	+10 1.3	2.464	3.233	13.1	21.7

143593 2003 FG_{61} 3 12.7 63°.10 1°.7/10.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 50.19	+ 6 7.6	2.255	3.121	10.2	20.0
2 21	11 45.43	+ 7 1.8	2.191	3.125	7.1	19.8
3 2	11 39.21	+ 8 2.0	2.153	3.130	3.7	19.6
3 12	11 32.20	+ 9 2.6	2.144	3.134	1.8	19.5
3 22	11 25.15	+ 9 57.8	2.164	3.139	4.6	19.7
4 1	11 18.80	+10 42.7	2.213	3.143	7.9	19.9
4 11	11 13.82	+11 14.0	2.286	3.147	11.0	20.1
4 21	11 10.60	+11 30.4	2.382	3.152	13.5	20.3

108231 2001 HT_{38} 3 12.7 152°.09 1°.9/11.1 18

2 11	11 58.87	+ 5 40.2	1.665	2.528	13.4	20.7
2 21	11 51.90	+ 6 29.0	1.604	2.537	9.3	20.5
3 2	11 42.77	+ 7 25.8	1.569	2.546	4.9	20.2
3 12	11 32.44	+ 8 23.2	1.562	2.553	2.0	20.0
3 22	11 22.10	+ 9 13.8	1.584	2.560	5.7	20.3
4 1	11 12.92	+ 9 51.3	1.633	2.566	10.0	20.6
4 11	11 5.82	+10 12.1	1.706	2.572	13.8	20.8
4 21	11 1.29	+10 15.5	1.799	2.576	17.0	21.0

317446 2002 QY_{113} 3 12.7 107°.08 3°.3/15.9 18

2 11	11 53.92	− 8 49.0	1.739	2.564	14.8	21.6
2 21	11 48.38	− 8 24.8	1.673	2.575	11.2	21.4
3 2	11 40.89	− 7 39.3	1.631	2.587	7.2	21.2
3 12	11 32.33	− 6 36.4	1.614	2.599	3.8	21.0
3 22	11 23.71	− 5 22.4	1.626	2.610	4.4	21.0
4 1	11 16.09	− 4 5.4	1.665	2.621	8.0	21.3
4 11	11 10.32	− 2 53.7	1.730	2.631	11.8	21.5
4 21	11 6.87	− 1 53.2	1.817	2.642	15.0	21.7

459184 2012 DC_{40} 3 12.7 53°.22 2°.7/14.7 18

2 11	11 56.86	− 4 48.2	1.349	2.199	16.8	21.0
2 21	11 50.62	− 4 44.1	1.306	2.225	12.3	20.8
3 2	11 42.08	− 4 20.1	1.286	2.252	7.4	20.5
3 12	11 32.40	− 3 40.9	1.290	2.279	3.1	20.4
3 22	11 22.92	− 2 53.6	1.321	2.307	4.7	20.5
4 1	11 14.89	− 2 6.3	1.377	2.334	9.2	20.8
4 11	11 9.23	− 1 26.4	1.457	2.362	13.3	21.2
4 21	11 6.32	− 0 58.3	1.557	2.390	16.8	21.4

378346 2007 HN_{69} 3 12.7 203°.35 5°.8/ 5.7 17

2 11	11 54.83	+20 34.0	2.344	3.211	9.8	21.3
2 21	11 48.73	+21 45.3	2.284	3.207	7.5	21.2
3 2	11 40.99	+22 51.3	2.251	3.202	6.0	21.1
3 12	11 32.34	+23 45.2	2.247	3.197	6.2	21.1
3 22	11 23.62	+24 21.5	2.271	3.191	8.1	21.2
4 1	11 15.68	+24 37.3	2.322	3.185	10.6	21.3
4 11	11 9.27	+24 32.1	2.395	3.179	13.0	21.5
4 21	11 4.81	+24 7.7	2.488	3.172	15.1	21.6

205612 2001 UN_{166} 3 12.7 103°.94 1°.0/13.5 18

2 11	11 57.88	− 1 49.4	1.544	2.394	15.0	21.4
2 21	11 51.23	− 1 21.2	1.490	2.413	10.7	21.2
3 2	11 42.40	− 0 37.2	1.460	2.431	6.0	20.9
3 12	11 32.43	+ 0 16.8	1.456	2.449	1.3	20.6
3 22	11 22.53	+ 1 13.4	1.480	2.466	4.4	20.9
4 1	11 13.88	+ 2 5.2	1.532	2.483	9.1	21.2
4 11	11 7.41	+ 2 46.1	1.608	2.499	13.1	21.5
4 21	11 3.56	+ 3 12.5	1.705	2.515	16.5	21.7

120461 1990 TK_{9} 3 12.7 166°.38 0°.1/12.8 18

2 11	11 57.95	+ 0 55.4	1.857	2.706	12.9	21.2
2 21	11 51.15	+ 1 22.2	1.787	2.711	9.2	20.9
3 2	11 42.36	+ 2 0.4	1.743	2.716	4.9	20.7
3 12	11 32.44	+ 2 44.8	1.726	2.720	0.4	20.3
3 22	11 22.42	+ 3 29.5	1.740	2.723	4.2	20.7
4 1	11 13.39	+ 4 8.8	1.781	2.726	8.5	20.9
4 11	11 6.20	+ 4 37.7	1.848	2.727	12.3	21.1
4 21	11 1.37	+ 4 53.8	1.937	2.728	15.5	21.4

61321 2000 OO_{54} 3 12.7 228°.54 2°.3/10.5 18

2 11	11 55.16	+ 5 39.9	1.782	2.648	12.5	20.2
2 21	11 49.40	+ 6 49.2	1.703	2.638	8.7	20.0
3 2	11 41.54	+ 8 8.6	1.649	2.626	4.6	19.7
3 12	11 32.39	+ 9 30.3	1.624	2.614	2.4	19.5
3 22	11 22.98	+10 45.8	1.628	2.601	5.9	19.7
4 1	11 14.43	+11 47.4	1.659	2.588	10.2	19.9
4 11	11 7.69	+12 30.3	1.714	2.574	14.1	20.1
4 21	11 3.35	+12 52.7	1.789	2.559	17.3	20.3

294423 2007 VF_{227} 3 12.7 77°.63 0°.6/12.0 18

2 11	11 51.61	+ 2 37.8	2.162	3.020	11.0	20.9
2 21	11 46.41	+ 3 20.1	2.105	3.034	7.6	20.7
3 2	11 39.73	+ 4 10.6	2.073	3.049	3.9	20.5
3 12	11 32.27	+ 5 4.3	2.071	3.064	0.6	20.2
3 22	11 24.83	+ 5 55.7	2.097	3.079	3.9	20.5
4 1	11 18.19	+ 6 39.7	2.152	3.093	7.5	20.8
4 11	11 13.00	+ 7 12.5	2.233	3.108	10.6	21.0
4 21	11 9.65	+ 7 32.2	2.336	3.122	13.3	21.2

162794 2000 YC_{48} 3 12.7 127°.90 1°.3/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 56.30	+ 3 45.2	1.807	2.667	12.7	20.8
2 21	11 49.92	+ 4 37.2	1.750	2.681	8.8	20.6
3 2	11 41.66	+ 5 38.4	1.719	2.695	4.5	20.3
3 12	11 32.40	+ 6 42.0	1.716	2.709	1.3	20.1
3 22	11 23.16	+ 7 40.8	1.742	2.721	4.9	20.4
4 1	11 14.97	+ 8 28.7	1.796	2.733	9.0	20.7
4 11	11 8.63	+ 9 1.5	1.875	2.745	12.6	20.9
4 21	11 4.59	+ 9 17.9	1.975	2.756	15.6	21.1

273074 2006 DG_{215} 3 12.7 226°.36 0°.8/11.9 17

2 11	11 52.57	+ 3 10.4	2.075	2.934	11.3	21.3
2 21	11 47.26	+ 3 50.1	2.000	2.930	7.9	21.1
3 2	11 40.28	+ 4 38.9	1.951	2.927	4.1	20.9
3 12	11 32.31	+ 5 31.5	1.930	2.923	0.8	20.6
3 22	11 24.22	+ 6 22.1	1.938	2.919	4.2	20.8
4 1	11 16.89	+ 7 5.2	1.975	2.915	8.1	21.1
4 11	11 11.07	+ 7 36.5	2.036	2.911	11.6	21.3
4 21	11 7.23	+ 7 54.0	2.120	2.906	14.5	21.5

309232 2007 QV_{9} 3 12.7 118°.47 0°.1/12.8 18

2 11	11 57.34	+ 0 15.3	1.820	2.669	13.1	21.5
2 21	11 50.61	+ 0 51.9	1.764	2.688	9.3	21.3
3 2	11 42.00	+ 1 40.3	1.734	2.707	4.9	21.1
3 12	11 32.43	+ 2 34.9	1.731	2.725	0.4	20.8
3 22	11 22.92	+ 3 29.2	1.758	2.742	4.1	21.1
4 1	11 14.48	+ 4 17.0	1.814	2.759	8.3	21.4
4 11	11 7.92	+ 4 53.5	1.895	2.774	12.0	21.6
4 21	11 3.67	+ 5 16.2	1.997	2.790	15.0	21.9

303369 2004 VJ_{26} 3 12.7 146°.76 1°.5/14.0 18

2 11	11 56.76	− 3 14.1	1.788	2.628	13.7	21.1
2 21	11 50.35	− 2 48.0	1.721	2.637	10.0	20.9
3 2	11 41.95	− 2 6.3	1.678	2.646	5.8	20.7
3 12	11 32.43	− 1 13.6	1.663	2.654	1.7	20.4
3 22	11 22.85	− 0 16.0	1.676	2.662	4.0	20.6
4 1	11 14.27	+ 0 39.4	1.718	2.668	8.3	20.9
4 11	11 7.56	+ 1 26.5	1.785	2.675	12.1	21.1
4 21	11 3.23	+ 2 1.3	1.874	2.680	15.4	21.4

66248 1999 FC_{37} 3 12.7 209°.45 3°.5/15.6 18

2 11	11 57.58	− 7 12.2	2.029	2.845	13.2	18.4
2 21	11 50.92	− 7 32.6	1.944	2.842	10.1	18.2
3 2	11 42.29	− 7 37.8	1.884	2.838	6.7	17.9
3 12	11 32.46	− 7 29.0	1.851	2.833	3.8	17.8
3 22	11 22.40	− 7 9.3	1.848	2.828	4.4	17.8
4 1	11 13.12	− 6 43.1	1.873	2.823	7.7	18.0
4 11	11 5.52	− 6 16.1	1.924	2.818	11.2	18.2
4 21	11 0.15	− 5 52.9	1.998	2.812	14.3	18.4

364249 2006 ST_{248} 3 12.7 213°.36 2°.9/15.9 15

2 11	11 52.60	− 9 30.4	2.023	2.838	13.3	22.3
2 21	11 47.41	− 8 44.1	1.934	2.832	10.2	22.0
3 2	11 40.42	− 7 36.3	1.869	2.825	6.6	21.8
3 12	11 32.34	− 6 10.7	1.832	2.817	3.4	21.6
3 22	11 24.05	− 4 33.6	1.825	2.809	3.9	21.6
4 1	11 16.49	− 2 53.2	1.846	2.800	7.5	21.8
4 11	11 10.49	− 1 18.1	1.894	2.791	11.2	22.0
4 21	11 6.56	+ 0 5.1	1.966	2.781	14.4	22.2

148581 2001 QS_{292} 3 12.7 153°.51 1°.9/10.5 18

2 11	11 53.90	+ 6 29.1	2.342	3.202	10.2	20.4
2 21	11 47.96	+ 7 29.6	2.280	3.211	7.0	20.2
3 2	11 40.55	+ 8 35.6	2.245	3.221	3.7	20.0
3 12	11 32.34	+ 9 41.2	2.240	3.229	2.0	19.9
3 22	11 24.10	+10 40.6	2.265	3.237	4.7	20.1
4 1	11 16.63	+11 29.0	2.319	3.244	7.9	20.3
4 11	11 10.56	+12 3.3	2.399	3.250	10.9	20.5
4 21	11 6.31	+12 22.4	2.501	3.255	13.4	20.7

233830 2008 UQ_{248} 3 12.7 16°.64 1°.6/11.0 17

2 11	11 51.87	+ 5 25.6	1.983	2.850	11.4	20.8
2 21	11 46.80	+ 6 13.1	1.916	2.850	7.9	20.5
3 2	11 40.03	+ 7 8.1	1.874	2.851	4.1	20.3
3 12	11 32.31	+ 8 4.4	1.860	2.852	1.7	20.1
3 22	11 24.50	+ 8 55.9	1.875	2.852	4.9	20.4
4 1	11 17.50	+ 9 36.9	1.918	2.853	8.6	20.6
4 11	11 12.08	+10 3.8	1.985	2.854	12.0	20.8
4 21	11 8.68	+10 15.0	2.073	2.855	14.9	21.0

469705 2005 EF_{298} 3 12.7 338°.89 0°.1/11.7 15

2 11	11 34.00	+ 5 21.8	39.473	40.325	0.7	22.0
2 21	11 33.32	+ 5 26.5	39.396	40.324	0.5	22.0
3 2	11 32.58	+ 5 31.5	39.348	40.323	0.2	22.0
3 12	11 31.81	+ 5 36.6	39.330	40.322	0.1	21.9
3 22	11 31.04	+ 5 41.6	39.342	40.321	0.3	22.0
4 1	11 30.29	+ 5 46.3	39.384	40.320	0.5	22.0
4 11	11 29.60	+ 5 50.6	39.454	40.319	0.7	22.0
4 21	11 28.99	+ 5 54.2	39.550	40.318	0.9	22.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
156526 2002 CT_{254}			3 12.7	74°.78	0°.8/11.8	18
	h m	° ′			°	m
2 11	11 51.12	+ 0 41.0	1.739	2.601	13.0	19.7
2 21	11 46.36	+ 2 4.8	1.683	2.615	9.0	19.5
3 2	11 39.80	+ 3 42.4	1.653	2.630	4.6	19.3
3 12	11 32.29	+ 5 25.2	1.651	2.644	0.8	19.0
3 22	11 24.79	+ 7 4.1	1.678	2.659	4.8	19.4
4 1	11 18.26	+ 8 30.6	1.732	2.673	9.0	19.6
4 11	11 13.46	+ 9 38.9	1.812	2.688	12.7	19.9
4 21	11 10.82	+10 26.5	1.912	2.702	15.7	20.1
212728 2007 RK_{162}			3 12.7	203°.26	1°.2/11.6	17
2 11	11 55.19	+ 3 12.4	1.847	2.707	12.5	21.1
2 21	11 49.30	+ 4 7.6	1.772	2.703	8.7	20.9
3 2	11 41.44	+ 5 13.8	1.722	2.698	4.5	20.6
3 12	11 32.41	+ 6 24.4	1.701	2.693	1.2	20.4
3 22	11 23.21	+ 7 31.9	1.708	2.688	4.9	20.6
4 1	11 14.87	+ 8 29.4	1.744	2.681	9.2	20.9
4 11	11 8.29	+ 9 11.8	1.804	2.674	13.0	21.1
4 21	11 4.01	+ 9 36.7	1.886	2.667	16.2	21.3
257063 2008 FZ_{99}			3 12.7	87°.94	8°.6/ 4.8	18
2 11	11 58.61	+25 5.6	1.723	2.592	12.7	19.9
2 21	11 51.62	+26 24.4	1.692	2.608	10.1	19.8
3 2	11 42.55	+27 30.0	1.686	2.624	8.7	19.7
3 12	11 32.47	+28 13.3	1.706	2.640	9.1	19.8
3 22	11 22.62	+28 29.0	1.751	2.656	11.1	19.9
4 1	11 14.13	+28 16.1	1.821	2.672	13.6	20.1
4 11	11 7.84	+27 37.2	1.911	2.688	16.1	20.3
4 21	11 4.13	+26 37.0	2.018	2.703	18.1	20.5
53243 1999 CW_{140}			3 12.7	109°.07	2°.0/10.7	18
2 11	11 54.76	+ 5 39.0	1.941	2.804	11.8	19.3
2 21	11 48.71	+ 6 44.6	1.891	2.824	8.1	19.1
3 2	11 40.97	+ 7 56.8	1.867	2.844	4.2	18.9
3 12	11 32.38	+ 9 8.5	1.873	2.863	2.0	18.8
3 22	11 23.86	+10 12.8	1.908	2.882	5.1	19.0
4 1	11 16.32	+11 3.9	1.971	2.900	8.8	19.3
4 11	11 10.49	+11 38.7	2.059	2.918	12.1	19.5
4 21	11 6.76	+11 56.1	2.168	2.935	14.8	19.7
473126 2015 JP_{3}			3 12.7	166°.64	4°.1/17.9	18
2 11	11 51.31	−13 22.0	2.670	3.452	11.4	21.2
2 21	11 46.14	−13 24.6	2.585	3.454	9.1	21.1
3 2	11 39.61	−13 10.9	2.525	3.456	6.6	20.9
3 12	11 32.30	−12 42.2	2.492	3.458	4.6	20.8
3 22	11 24.87	−12 1.1	2.488	3.460	4.3	20.8
4 1	11 18.02	−11 11.9	2.513	3.461	6.2	20.9
4 11	11 12.36	−10 19.8	2.566	3.462	8.6	21.0
4 21	11 8.30	− 9 29.6	2.643	3.463	11.0	21.2
284698 2008 SB_{187}			3 12.7	170°.16	2°.2/14.8	18
2 11	11 56.13	− 5 55.3	1.756	2.588	14.3	21.9
2 21	11 50.01	− 5 22.7	1.682	2.593	10.6	21.7
3 2	11 41.83	− 4 30.8	1.632	2.596	6.4	21.4
3 12	11 32.45	− 3 24.0	1.610	2.599	2.6	21.2
3 22	11 22.93	− 2 9.1	1.615	2.601	4.1	21.3
4 1	11 14.37	− 0 54.2	1.650	2.602	8.3	21.5
4 11	11 7.69	+ 0 13.0	1.709	2.603	12.3	21.8
4 21	11 3.43	+ 1 7.0	1.791	2.603	15.8	22.0
423614 2005 WG_{94}			3 12.7	112°.97	3°.1/ 9.7	16
2 11	11 54.24	+ 9 36.0	1.879	2.751	11.7	21.6
2 21	11 48.49	+10 32.0	1.822	2.759	8.1	21.4
3 2	11 40.93	+11 31.6	1.791	2.766	4.6	21.2
3 12	11 32.39	+12 27.5	1.787	2.773	3.3	21.1
3 22	11 23.83	+13 13.3	1.812	2.780	6.1	21.3
4 1	11 16.24	+13 43.9	1.865	2.786	9.7	21.5
4 11	11 10.39	+13 56.9	1.941	2.793	13.0	21.7
4 21	11 6.73	+13 52.4	2.037	2.799	15.8	21.9
149261 2002 TB_{33}			3 12.7	147°.96	1°.2/13.9	18
2 11	11 52.14	− 4 14.3	1.720	2.566	13.9	20.4
2 21	11 47.22	− 3 18.3	1.648	2.568	10.1	20.2
3 2	11 40.34	− 2 3.1	1.601	2.571	5.8	19.9
3 12	11 32.35	− 0 34.8	1.581	2.573	1.5	19.6
3 22	11 24.23	+ 0 58.4	1.589	2.575	4.0	19.8
4 1	11 17.04	+ 2 27.4	1.625	2.577	8.5	20.1
4 11	11 11.62	+ 3 44.4	1.686	2.579	12.5	20.3
4 21	11 8.50	+ 4 44.4	1.768	2.581	15.9	20.6
500646 2012 VW_{8}			3 12.7	27°.70	0°.1/12.6	17
2 11	11 51.05	+ 1 25.1	1.935	2.795	12.0	21.1
2 21	11 46.22	+ 1 56.7	1.871	2.801	8.4	20.9
3 2	11 39.72	+ 2 38.7	1.832	2.808	4.5	20.6
3 12	11 32.30	+ 3 26.0	1.821	2.814	0.3	20.3
3 22	11 24.84	+ 4 12.9	1.838	2.822	4.0	20.6
4 1	11 18.22	+ 4 53.8	1.882	2.829	7.9	20.9
4 11	11 13.17	+ 5 24.1	1.952	2.837	11.4	21.1
4 21	11 10.14	+ 5 41.5	2.043	2.846	14.4	21.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
268028 2004 OD_{11}			3 12.7	232°.60	9°.9/26.3	17
	h m	° ′			°	m
2 11	11 54.35	+31 30.0	2.129	2.983	11.2	20.2
2 21	11 48.87	+34 7.2	2.086	2.973	10.1	20.1
3 2	11 41.29	+36 30.6	2.071	2.962	10.0	20.1
3 12	11 32.42	+38 29.3	2.083	2.951	11.2	20.1
3 22	11 23.27	+39 56.0	2.120	2.940	13.0	20.2
4 1	11 14.96	+40 47.5	2.179	2.928	15.0	20.4
4 11	11 8.43	+41 5.4	2.255	2.916	16.9	20.5
4 21	11 4.28	+40 54.1	2.344	2.903	18.4	20.6
93847 2000 WF_{92}			3 12.7	122°.53	1°.9/10.8	18
2 11	11 54.12	+ 6 27.1	2.034	2.898	11.3	19.8
2 21	11 48.29	+ 7 13.1	1.975	2.908	7.8	19.6
3 2	11 40.79	+ 8 4.9	1.941	2.918	4.1	19.4
3 12	11 32.39	+ 8 56.4	1.936	2.927	1.9	19.3
3 22	11 23.98	+ 9 41.9	1.961	2.935	4.9	19.5
4 1	11 16.46	+10 16.3	2.013	2.944	8.5	19.8
4 11	11 10.55	+10 36.7	2.090	2.952	11.8	20.0
4 21	11 6.68	+10 42.1	2.189	2.960	14.5	20.2
174690 2003 UG_{19}			3 12.7	118°.98	2°.0/10.8	18
2 11	11 56.45	+ 6 2.5	1.826	2.690	12.4	20.7
2 21	11 50.00	+ 6 58.7	1.774	2.707	8.5	20.5
3 2	11 41.71	+ 8 1.4	1.747	2.724	4.5	20.3
3 12	11 32.45	+ 9 3.7	1.749	2.740	2.1	20.1
3 22	11 23.26	+ 9 58.5	1.780	2.755	5.4	20.4
4 1	11 15.13	+10 40.2	1.839	2.770	9.2	20.7
4 11	11 8.86	+11 5.7	1.923	2.784	12.7	20.9
4 21	11 4.85	+11 14.2	2.027	2.798	15.6	21.1
413009 1999 VF_{210}			3 12.7	99°.51	0°.7/13.3	18
2 11	11 55.38	− 1 33.6	1.685	2.535	13.9	21.8
2 21	11 49.38	− 0 53.2	1.629	2.552	9.9	21.6
3 2	11 41.42	+ 0 2.1	1.598	2.570	5.4	21.4
3 12	11 32.44	+ 1 6.1	1.594	2.587	0.9	21.1
3 22	11 23.49	+ 2 11.6	1.618	2.603	4.2	21.4
4 1	11 15.65	+ 3 11.2	1.670	2.620	8.5	21.7
4 11	11 9.74	+ 3 59.0	1.747	2.635	12.4	22.0
4 21	11 6.19	+ 4 31.7	1.845	2.651	15.6	22.2
368674 2005 QF_{22}			3 12.7	236°.48	0°.7/11.9	17
2 11	11 52.66	+ 1 28.8	2.005	2.860	11.8	22.3
2 21	11 47.47	+ 2 31.6	1.920	2.849	8.3	22.1
3 2	11 40.48	+ 3 47.1	1.861	2.837	4.3	21.8
3 12	11 32.39	+ 5 9.3	1.831	2.824	0.7	21.5
3 22	11 24.06	+ 6 30.8	1.830	2.811	4.4	21.7
4 1	11 16.45	+ 7 44.3	1.858	2.798	8.6	22.0
4 11	11 10.38	+ 8 43.8	1.912	2.784	12.3	22.2
4 21	11 6.39	+ 9 26.3	1.986	2.769	15.4	22.4
170210 2003 PU_{8}			3 12.7	297°.39	2°.5/14.5	17
2 11	11 54.70	− 4 8.2	1.402	2.255	16.1	20.0
2 21	11 49.76	− 4 2.6	1.307	2.228	12.1	19.6
3 2	11 42.08	− 3 36.5	1.233	2.202	7.4	19.3
3 12	11 32.51	− 2 52.7	1.185	2.175	2.9	19.0
3 22	11 22.28	− 1 57.2	1.162	2.148	5.0	19.0
4 1	11 12.86	− 0 58.6	1.164	2.122	10.4	19.2
4 11	11 5.61	− 0 6.3	1.190	2.096	15.6	19.4
4 21	11 1.40	+ 0 32.8	1.234	2.070	20.1	19.6
156351 2001 XW_{182}			3 12.7	94°.65	10°.2/28.9	18
2 11	11 53.89	+29 23.0	1.810	2.676	12.3	19.7
2 21	11 48.53	+31 35.0	1.778	2.681	10.6	19.6
3 2	11 41.06	+33 31.3	1.773	2.685	10.2	19.5
3 12	11 32.42	+35 1.0	1.792	2.689	11.2	19.6
3 22	11 23.76	+35 57.6	1.836	2.693	13.1	19.7
4 1	11 16.22	+36 19.0	1.901	2.697	15.3	19.9
4 11	11 10.71	+36 7.7	1.984	2.701	17.4	20.1
4 21	11 7.69	+35 28.6	2.081	2.705	19.1	20.2
493503 2015 BF_{61}			3 12.7	138°.24	0°.6/13.3	17
2 11	11 54.61	− 0 25.2	2.110	2.955	11.7	21.2
2 21	11 48.63	− 0 6.5	2.040	2.961	8.4	21.0
3 2	11 40.99	+ 0 22.8	1.997	2.968	4.6	20.8
3 12	11 32.43	+ 0 59.0	1.981	2.974	0.8	20.5
3 22	11 23.81	+ 1 37.1	1.995	2.980	3.6	20.7
4 1	11 16.01	+ 2 12.2	2.038	2.986	7.4	21.0
4 11	11 9.75	+ 2 40.0	2.107	2.991	10.8	21.2
4 21	11 5.50	+ 2 57.6	2.199	2.996	13.7	21.4
432146 2009 BY_{100}			3 12.7	192°.68	3°.1/16.2	17
2 11	11 52.77	− 8 53.3	2.485	3.292	11.4	21.8
2 21	11 47.25	− 8 53.0	2.400	3.291	8.8	21.6
3 2	11 40.25	− 8 38.1	2.340	3.289	5.9	21.4
3 12	11 32.39	− 8 10.4	2.308	3.287	3.5	21.2
3 22	11 24.39	− 7 33.0	2.305	3.285	3.7	21.2
4 1	11 17.00	− 6 50.4	2.332	3.283	6.3	21.4
4 11	11 10.90	− 6 7.6	2.386	3.281	9.3	21.6
4 21	11 6.52	− 5 29.0	2.464	3.278	11.9	21.8

443660 2015 FH_{294} 3 12.7 19°.66 8°.1/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 53.90	+26 37.9	2.053	2.920	11.1	20.0
2 21	11 48.25	+27 53.6	2.011	2.922	9.1	19.9
3 2	11 40.81	+28 57.7	1.994	2.925	8.1	19.8
3 12	11 32.43	+29 42.4	2.004	2.928	8.7	19.8
3 22	11 24.08	+30 2.7	2.039	2.930	10.4	19.9
4 1	11 16.73	+29 56.8	2.098	2.934	12.7	20.1
4 11	11 11.14	+29 26.3	2.177	2.937	14.8	20.3
4 21	11 7.74	+28 34.7	2.274	2.941	16.7	20.4

119607 2001 WT_{20} 3 12.7 249°.18 5°.8/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.15	+17 27.1	1.964	2.838	11.1	19.4
2 21	11 49.30	+18 43.2	1.894	2.825	8.3	19.2
3 2	11 41.48	+19 57.2	1.850	2.811	6.1	19.1
3 12	11 32.49	+21 0.6	1.834	2.797	6.2	19.0
3 22	11 23.30	+21 46.2	1.846	2.782	8.6	19.1
4 1	11 14.96	+22 9.6	1.883	2.768	11.7	19.3
4 11	11 8.35	+22 9.4	1.943	2.753	14.7	19.5
4 21	11 4.03	+21 47.3	2.022	2.737	17.3	19.6

240786 2005 UV_{36} 3 12.7 353°.57 3°.8/10.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.92	+ 9 18.0	1.193	2.080	15.8	20.5
2 21	11 51.25	+10 2.6	1.135	2.078	11.1	20.3
3 2	11 42.74	+10 53.1	1.098	2.076	6.2	20.0
3 12	11 32.57	+11 39.7	1.087	2.075	4.0	19.8
3 22	11 22.27	+12 12.8	1.100	2.074	8.0	20.1
4 1	11 13.42	+12 25.8	1.137	2.074	13.0	20.3
4 11	11 7.22	+12 16.2	1.194	2.074	17.5	20.6
4 21	11 4.25	+11 44.9	1.269	2.074	21.3	20.8

87071 2000 KM_{61} 3 12.7 229°.93 4°.7/17.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.09	−14 2.1	2.014	2.807	14.2	19.6
2 21	11 47.13	−13 40.7	1.923	2.800	11.3	19.4
3 2	11 40.33	−12 55.5	1.854	2.792	8.1	19.1
3 12	11 32.42	−11 48.3	1.812	2.784	5.4	19.0
3 22	11 24.27	−10 24.0	1.798	2.775	5.1	18.9
4 1	11 16.85	− 8 49.9	1.813	2.766	7.6	19.0
4 11	11 10.99	− 7 14.9	1.854	2.757	11.0	19.2
4 21	11 7.24	− 5 46.7	1.918	2.748	14.2	19.4

401099 2011 UZ_{189} 3 12.7 226°.41 3°.6/ 9.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.95	+10 50.9	1.958	2.824	11.5	22.8
2 21	11 51.29	+11 54.1	1.877	2.811	8.2	22.6
3 2	11 42.57	+13 1.3	1.823	2.796	4.8	22.3
3 12	11 32.58	+14 4.9	1.798	2.781	3.8	22.3
3 22	11 22.32	+14 57.5	1.803	2.764	6.7	22.4
4 1	11 12.88	+15 33.5	1.835	2.747	10.4	22.6
4 11	11 5.21	+15 50.0	1.891	2.728	13.9	22.8
4 21	10 59.87	+15 47.0	1.967	2.709	16.9	22.9

305705 2009 BD_{175} 3 12.7 90°.69 4°.3/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.00	+10 11.4	1.479	2.358	13.7	20.4
2 21	11 50.00	+11 38.9	1.437	2.376	9.5	20.2
3 2	11 41.81	+13 9.7	1.420	2.394	5.6	20.0
3 12	11 32.51	+14 33.2	1.430	2.412	4.6	20.0
3 22	11 23.34	+15 40.1	1.467	2.429	7.8	20.2
4 1	11 15.47	+16 24.2	1.529	2.446	11.8	20.5
4 11	11 9.80	+16 43.7	1.614	2.463	15.3	20.7
4 21	11 6.74	+16 39.9	1.717	2.480	18.2	21.0

38884 2000 SF_{124} 3 12.7 158°.46 1°.0/13.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.61	− 3 7.4	1.751	2.595	13.8	19.7
2 21	11 48.93	− 2 21.1	1.681	2.600	10.0	19.4
3 2	11 41.28	− 1 17.7	1.635	2.605	5.6	19.2
3 12	11 32.49	− 0 2.9	1.617	2.609	1.3	18.9
3 22	11 23.59	+ 1 15.7	1.627	2.613	4.1	19.1
4 1	11 15.65	+ 2 30.2	1.666	2.616	8.5	19.4
4 11	11 9.53	+ 3 33.4	1.730	2.619	12.5	19.6
4 21	11 5.76	+ 4 21.1	1.815	2.621	15.8	19.8

100008 1988 QZ 3 12.7 196°.95 1°.8/14.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.86	− 4 15.6	2.370	3.190	11.5	20.7
2 21	11 50.90	− 4 7.4	2.282	3.187	8.5	20.5
3 2	11 42.24	− 3 46.9	2.220	3.182	5.1	20.3
3 12	11 32.56	− 3 16.5	2.187	3.176	2.1	20.1
3 22	11 22.69	− 2 39.9	2.185	3.169	3.4	20.1
4 1	11 13.51	− 2 2.0	2.214	3.162	6.9	20.3
4 11	11 5.77	− 1 27.3	2.271	3.153	10.2	20.5
4 21	10 59.98	− 0 59.7	2.351	3.143	13.0	20.7

226017 2002 EM_{94} 3 12.7 53°.38 0°.4/12.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.54	+ 2 26.6	1.728	2.589	13.1	20.4
2 21	11 48.85	+ 2 50.2	1.665	2.596	9.2	20.2
3 2	11 41.21	+ 3 23.9	1.627	2.602	4.8	19.9
3 12	11 32.48	+ 4 2.5	1.615	2.609	0.4	19.6
3 22	11 23.71	+ 4 39.8	1.632	2.616	4.4	19.9
4 1	11 15.94	+ 5 10.2	1.676	2.623	8.8	20.2
4 11	11 10.02	+ 5 29.4	1.745	2.630	12.6	20.5
4 21	11 6.43	+ 5 35.3	1.834	2.637	15.8	20.7

432922 2011 SP_{112} 3 12.7 212°.00 0°.9/11.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 50.87	+ 4 51.5	3.108	3.960	8.2	22.7
2 21	11 45.69	+ 5 30.8	3.024	3.952	5.7	22.5
3 2	11 39.35	+ 6 15.3	2.968	3.943	2.9	22.3
3 12	11 32.36	+ 7 1.4	2.942	3.934	1.0	22.2
3 22	11 25.26	+ 7 45.1	2.947	3.924	3.3	22.3
4 1	11 18.63	+ 8 23.1	2.983	3.914	6.1	22.5
4 11	11 12.99	+ 8 52.4	3.046	3.904	8.6	22.7
4 21	11 8.71	+ 9 11.5	3.132	3.893	10.8	22.8

497969 2007 BO_{33} 3 12.7 6°.80 2°.8/14.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.48	− 4 18.7	1.311	2.170	16.6	20.7
2 21	11 47.93	− 4 23.2	1.246	2.170	12.3	20.4
3 2	11 40.93	− 4 7.7	1.203	2.172	7.5	20.1
3 12	11 32.47	− 3 35.8	1.185	2.174	3.2	19.9
3 22	11 23.85	− 2 53.8	1.191	2.178	4.9	20.0
4 1	11 16.42	− 2 9.8	1.222	2.182	9.7	20.3
4 11	11 11.25	− 1 32.0	1.275	2.188	14.2	20.5
4 21	11 8.90	− 1 5.8	1.348	2.195	18.1	20.8

211458 2003 BJ_{64} 3 12.7 304°.96 5°.4/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.13	+16 42.2	2.132	3.011	10.2	20.1
2 21	11 45.61	+18 16.6	2.071	3.005	7.5	19.9
3 2	11 39.46	+19 49.7	2.037	2.999	5.6	19.8
3 12	11 32.37	+21 13.4	2.031	2.992	5.9	19.8
3 22	11 25.16	+22 20.5	2.053	2.986	8.1	19.9
4 1	11 18.69	+23 6.3	2.101	2.980	10.9	20.1
4 11	11 13.69	+23 29.0	2.172	2.974	13.6	20.2
4 21	11 10.62	+23 29.7	2.261	2.969	15.8	20.4

3068 Khanina 3 12.7 13°.03 3°.3/10.8 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.92	+ 8 40.4	1.115	2.003	16.6	15.6
2 21	11 52.04	+ 9 6.0	1.061	2.005	11.6	15.4
3 2	11 43.18	+ 9 37.3	1.028	2.007	6.3	15.1
3 12	11 32.63	+10 5.4	1.020	2.010	3.4	14.9
3 22	11 22.03	+10 21.9	1.035	2.013	7.6	15.1
4 1	11 13.02	+10 20.8	1.074	2.018	12.9	15.4
4 11	11 6.84	+ 9 59.9	1.134	2.023	17.6	15.7
4 21	11 4.01	+ 9 20.2	1.210	2.028	21.5	16.0

434487 2005 RK_{38} 3 12.7 308°.28 2°.4/15.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.15	− 8 35.0	2.094	2.919	12.6	21.0
2 21	11 44.29	− 7 41.4	2.000	2.904	9.5	20.7
3 2	11 38.81	− 6 27.0	1.930	2.889	6.1	20.5
3 12	11 32.33	− 4 55.7	1.887	2.874	2.9	20.3
3 22	11 25.64	− 3 13.9	1.874	2.860	3.6	20.3
4 1	11 19.58	− 1 29.6	1.889	2.846	7.2	20.5
4 11	11 14.89	+ 0 8.8	1.932	2.832	10.8	20.7
4 21	11 12.08	+ 1 34.8	1.997	2.818	14.0	20.9

118094 1852 $T\text{-}_3$ 3 12.7 248°.34 2°.0/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.84	+ 9 35.0	2.471	3.328	9.8	19.6
2 21	11 50.08	+ 9 43.3	2.392	3.321	6.8	19.4
3 2	11 41.75	+ 9 53.0	2.340	3.314	3.7	19.2
3 12	11 32.54	+10 0.2	2.318	3.307	2.0	19.1
3 22	11 23.22	+10 1.5	2.327	3.300	4.5	19.2
4 1	11 14.61	+ 9 54.3	2.366	3.292	7.7	19.4
4 11	11 7.41	+ 9 37.1	2.431	3.285	10.6	19.6
4 21	11 2.07	+ 9 9.6	2.518	3.277	13.2	19.8

147627 2004 HR_{45} 3 12.7 346°.40 0°.4/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.05	− 0 36.6	1.456	2.322	14.8	19.8
2 21	11 47.49	− 0 2.5	1.386	2.317	10.6	19.5
3 2	11 40.65	+ 0 48.3	1.338	2.313	5.8	19.2
3 12	11 32.47	+ 1 49.7	1.317	2.310	0.7	18.8
3 22	11 24.08	+ 2 53.6	1.321	2.307	4.7	19.1
4 1	11 16.73	+ 3 51.6	1.351	2.305	9.7	19.4
4 11	11 11.43	+ 4 36.5	1.405	2.303	14.2	19.7
4 21	11 8.75	+ 5 4.3	1.478	2.302	17.9	19.9

90963 1997 WW_{20} 3 12.7 43°.03 4°.7/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.94	+10 19.9	1.110	2.003	16.2	18.9
2 21	11 50.37	+11 25.3	1.075	2.020	11.3	18.7
3 2	11 42.12	+12 33.9	1.062	2.039	6.5	18.5
3 12	11 32.56	+13 33.9	1.073	2.059	4.9	18.4
3 22	11 23.23	+14 15.5	1.109	2.079	8.6	18.7
4 1	11 15.61	+14 33.1	1.167	2.099	13.2	19.0
4 11	11 10.67	+14 25.5	1.246	2.120	17.3	19.3
4 21	11 8.80	+13 55.3	1.342	2.142	20.7	19.6

210390 2007 VC_{149} 3 12.7 145°.93 2°.9/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.50	+11 23.5	2.534	3.400	9.2	20.8
2 21	11 46.95	+12 13.9	2.474	3.407	6.4	20.6
3 2	11 40.05	+13 5.5	2.441	3.414	3.8	20.5
3 12	11 32.43	+13 53.0	2.438	3.420	3.1	20.4
3 22	11 24.78	+14 31.7	2.465	3.426	5.2	20.6
4 1	11 17.84	+14 58.2	2.521	3.432	8.0	20.7
4 11	11 12.18	+15 10.6	2.601	3.437	10.6	20.9
4 21	11 8.21	+15 8.6	2.703	3.442	12.8	21.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
421948 2014 QH_{256}			3 12.7 236°.12	5°.1/ 8.2 18		
	h m	° ′			°	m
2 11	11 59.02	+14 54.2	1.781	2.652	12.2	21.0
2 21	11 52.21	+15 53.8	1.707	2.640	8.9	20.8
3 2	11 43.12	+16 53.1	1.659	2.626	5.9	20.6
3 12	11 32.65	+17 43.4	1.638	2.612	5.4	20.5
3 22	11 21.94	+18 17.4	1.645	2.597	8.2	20.6
4 1	11 12.22	+18 30.2	1.679	2.582	11.8	20.8
4 11	11 4.48	+18 20.7	1.736	2.566	15.3	21.0
4 21	10 59.34	+17 50.2	1.811	2.549	18.3	21.2
34275 2000 QE_{136}			3 12.7 227°.21	2°.1/ 9.8 18		
2 11	11 49.44	+ 6 46.9	2.502	3.368	9.4	19.2
2 21	11 44.92	+ 8 6.4	2.427	3.362	6.5	19.0
3 2	11 39.03	+ 9 32.4	2.380	3.356	3.5	18.7
3 12	11 32.36	+10 58.7	2.362	3.350	2.3	18.6
3 22	11 25.57	+12 19.0	2.375	3.343	4.8	18.8
4 1	11 19.35	+13 27.8	2.417	3.337	7.9	19.0
4 11	11 14.33	+14 21.4	2.485	3.330	10.7	19.2
4 21	11 10.93	+14 58.2	2.574	3.323	13.2	19.3
188745 2005 UJ_{149}			3 12.7 185°.22	1°.6/10.9 16		
2 11	11 54.97	+ 6 37.2	2.491	3.346	9.8	21.5
2 21	11 48.75	+ 7 20.6	2.417	3.346	6.8	21.3
3 2	11 41.05	+ 8 9.0	2.371	3.346	3.6	21.1
3 12	11 32.51	+ 8 57.5	2.354	3.345	1.7	21.0
3 22	11 23.88	+ 9 41.2	2.369	3.342	4.3	21.2
4 1	11 15.93	+10 15.8	2.413	3.340	7.6	21.4
4 11	11 9.33	+10 38.5	2.484	3.336	10.5	21.6
4 21	11 4.49	+10 48.1	2.576	3.332	13.0	21.7
285619 2000 RA_{17}			3 12.7 212°.70	2°.0/15.8 18		
2 11	11 49.91	− 8 8.4	3.158	3.962	9.3	21.7
2 21	11 45.04	− 7 36.7	3.061	3.954	7.0	21.5
3 2	11 39.04	− 6 52.3	2.992	3.945	4.5	21.4
3 12	11 32.37	− 5 57.8	2.951	3.935	2.3	21.2
3 22	11 25.58	− 4 56.4	2.942	3.925	2.8	21.2
4 1	11 19.23	− 3 52.5	2.963	3.914	5.2	21.4
4 11	11 13.83	− 2 50.5	3.013	3.903	7.7	21.5
4 21	11 9.75	− 1 54.2	3.089	3.891	10.0	21.6
172516 2003 SN_{247}			3 12.7 208°.39	0°.8/12.0 18		
2 11	11 56.05	+ 2 47.1	1.963	2.818	12.1	21.3
2 21	11 49.88	+ 3 29.2	1.884	2.812	8.5	21.1
3 2	11 41.80	+ 4 21.5	1.830	2.805	4.5	20.8
3 12	11 32.57	+ 5 18.4	1.805	2.798	0.8	20.5
3 22	11 23.14	+ 6 13.7	1.810	2.790	4.5	20.8
4 1	11 14.53	+ 7 1.0	1.843	2.782	8.6	21.0
4 11	11 7.60	+ 7 35.8	1.901	2.773	12.4	21.2
4 21	11 2.88	+ 7 55.7	1.981	2.763	15.5	21.4
294360 2007 VG_{100}			3 12.7 14°.60	0°.2/12.9 17		
2 11	11 51.76	+ 0 58.9	1.860	2.719	12.4	20.1
2 21	11 46.84	+ 1 20.1	1.793	2.722	8.8	19.8
3 2	11 40.14	+ 1 52.3	1.751	2.725	4.7	19.6
3 12	11 32.45	+ 2 30.6	1.736	2.729	0.4	19.3
3 22	11 24.68	+ 3 9.7	1.749	2.734	4.0	19.6
4 1	11 17.77	+ 3 43.9	1.789	2.738	8.1	19.8
4 11	11 12.51	+ 4 8.7	1.854	2.744	11.7	20.0
4 21	11 9.36	+ 4 21.3	1.940	2.750	14.8	20.3
351841 2006 QB_{120}			3 12.7 189°.83	3°.4/16.7 18		
2 11	11 53.80	−10 16.1	2.786	3.579	10.7	21.6
2 21	11 47.88	−10 26.0	2.698	3.577	8.3	21.4
3 2	11 40.58	−10 22.5	2.634	3.576	5.8	21.2
3 12	11 32.48	−10 6.5	2.600	3.574	3.7	21.1
3 22	11 24.24	− 9 40.5	2.596	3.572	3.8	21.1
4 1	11 16.54	− 9 8.1	2.621	3.569	6.0	21.2
4 11	11 10.01	− 8 33.6	2.675	3.566	8.5	21.4
4 21	11 5.08	− 8 1.1	2.753	3.562	10.9	21.5
423638 2005 XU_{8}			3 12.7 190°.48	0°.2/13.0 16		
2 11	11 54.58	+ 0 11.5	2.377	3.218	10.7	23.1
2 21	11 48.56	+ 0 42.0	2.296	3.217	7.6	22.9
3 2	11 40.98	+ 1 22.5	2.243	3.215	4.1	22.7
3 12	11 32.52	+ 2 8.8	2.219	3.212	0.5	22.4
3 22	11 23.92	+ 2 56.2	2.225	3.209	3.4	22.6
4 1	11 16.00	+ 3 39.9	2.261	3.205	7.0	22.8
4 11	11 9.46	+ 4 15.6	2.324	3.200	10.2	23.0
4 21	11 4.74	+ 4 40.7	2.410	3.194	13.0	23.2
169604 2002 GQ_{85}			3 12.7 289°.16	2°.5/10.6 16		
2 11	11 54.14	+ 6 1.7	1.466	2.343	14.0	20.2
2 21	11 49.04	+ 7 0.4	1.393	2.332	9.8	19.9
3 2	11 41.54	+ 8 9.9	1.343	2.321	5.2	19.6
3 12	11 32.56	+ 9 21.4	1.320	2.311	2.6	19.4
3 22	11 23.31	+10 25.7	1.324	2.300	6.6	19.6
4 1	11 15.09	+11 14.6	1.353	2.290	11.3	19.9
4 11	11 8.98	+11 42.8	1.404	2.279	15.7	20.1
4 21	11 5.62	+11 49.0	1.474	2.269	19.3	20.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
331180 2011 AG_{35}			3 12.7 3°.21	9°.0/ 3.8 17		
	h m	° ′			°	m
2 11	11 52.99	+22 34.5	1.480	2.366	13.3	19.9
2 21	11 48.15	+24 20.9	1.437	2.365	10.6	19.7
3 2	11 40.98	+25 57.6	1.417	2.365	9.1	19.6
3 12	11 32.52	+27 12.6	1.423	2.366	9.8	19.7
3 22	11 24.03	+27 57.5	1.453	2.367	12.3	19.8
4 1	11 16.79	+28 8.7	1.504	2.369	15.3	20.0
4 11	11 11.76	+27 47.7	1.575	2.371	18.1	20.2
4 21	11 9.43	+26 59.1	1.661	2.374	20.5	20.4
100328 1995 QF_{4}			3 12.7 144°.68	1°.2/13.7 18		
2 11	11 58.20	− 2 10.2	1.598	2.445	14.7	20.1
2 21	11 51.60	− 1 46.9	1.533	2.454	10.7	19.9
3 2	11 42.76	− 1 7.6	1.491	2.462	6.0	19.6
3 12	11 32.65	− 0 17.3	1.477	2.469	1.5	19.3
3 22	11 22.47	+ 0 37.1	1.491	2.476	4.4	19.5
4 1	11 13.42	+ 1 28.2	1.532	2.483	9.0	19.8
4 11	11 6.48	+ 2 9.7	1.598	2.489	13.2	20.1
4 21	11 2.17	+ 2 37.5	1.684	2.494	16.7	20.3
22966 1999 UM_{45}			3 12.7 228°.23	1°.1/11.8 18		
2 11	11 57.30	+ 4 24.2	1.792	2.652	12.7	19.0
2 21	11 50.92	+ 4 51.5	1.714	2.644	9.0	18.8
3 2	11 42.42	+ 5 27.4	1.660	2.636	4.7	18.5
3 12	11 32.64	+ 6 6.4	1.635	2.628	1.1	18.2
3 22	11 22.63	+ 6 42.4	1.639	2.619	4.9	18.5
4 1	11 13.53	+ 7 9.7	1.670	2.610	9.3	18.7
4 11	11 6.29	+ 7 24.3	1.726	2.600	13.3	18.9
4 21	11 1.49	+ 7 24.4	1.802	2.590	16.6	19.1
143567 2003 ET_{51}			3 12.7 336°.84	0°.2/12.6 17		
2 11	11 51.50	+ 1 58.2	2.031	2.890	11.5	19.4
2 21	11 46.61	+ 2 21.2	1.954	2.884	8.2	19.1
3 2	11 40.03	+ 2 53.7	1.903	2.878	4.3	18.9
3 12	11 32.46	+ 3 31.3	1.879	2.872	0.3	18.5
3 22	11 24.75	+ 4 8.9	1.884	2.867	3.9	18.8
4 1	11 17.79	+ 4 41.4	1.916	2.863	7.8	19.1
4 11	11 12.32	+ 5 4.5	1.974	2.858	11.4	19.3
4 21	11 8.84	+ 5 15.7	2.053	2.855	14.4	19.5
302514 2002 JP_{38}			3 12.7 348°.80	4°.8/ 9.8 18		
2 11	11 57.13	+12 9.7	1.187	2.077	15.6	19.5
2 21	11 51.48	+12 41.1	1.127	2.071	11.1	19.2
3 2	11 42.93	+13 13.5	1.090	2.066	6.6	19.0
3 12	11 32.67	+13 37.7	1.076	2.061	5.0	18.8
3 22	11 22.26	+13 45.4	1.087	2.058	8.6	19.0
4 1	11 13.32	+13 31.6	1.121	2.055	13.4	19.3
4 11	11 7.06	+12 55.7	1.176	2.054	17.9	19.5
4 21	11 4.08	+11 59.7	1.247	2.053	21.6	19.8
68782 2002 FW_{7}			3 12.7 241°.03	3°.3/15.4 18		
2 11	11 56.54	− 6 43.5	1.702	2.531	14.8	19.1
2 21	11 50.56	− 6 46.1	1.616	2.522	11.2	18.8
3 2	11 42.32	− 6 30.0	1.554	2.513	7.2	18.6
3 12	11 32.64	− 5 57.3	1.518	2.503	3.7	18.3
3 22	11 22.63	− 5 12.7	1.509	2.493	4.6	18.4
4 1	11 13.49	− 4 22.9	1.528	2.483	8.7	18.6
4 11	11 6.26	− 3 35.3	1.572	2.472	12.8	18.8
4 21	11 1.59	− 2 56.0	1.637	2.461	16.5	19.0
57506 2001 SK_{268}			3 12.8 69°.23	4°.9/ 7.4 18		
2 11	11 53.42	+17 7.6	2.178	3.052	10.2	18.7
2 21	11 47.78	+18 3.0	2.128	3.059	7.5	18.5
3 2	11 40.56	+18 54.9	2.104	3.066	5.3	18.4
3 12	11 32.51	+19 36.8	2.108	3.074	5.2	18.4
3 22	11 24.49	+20 3.6	2.140	3.082	7.3	18.5
4 1	11 17.33	+20 12.6	2.198	3.089	10.0	18.7
4 11	11 11.73	+20 3.1	2.280	3.097	12.5	18.9
4 21	11 8.08	+19 36.6	2.382	3.105	14.8	19.1
384261 2009 FF_{3}			3 12.8 42°.15	2°.4/10.9 18		
2 11	11 58.84	+ 9 49.2	1.774	2.641	12.5	20.2
2 21	11 51.68	+ 9 50.8	1.726	2.660	8.7	20.0
3 2	11 42.63	+ 9 53.7	1.704	2.680	4.7	19.8
3 12	11 32.65	+ 9 53.1	1.710	2.700	2.4	19.7
3 22	11 22.85	+ 9 45.1	1.745	2.720	5.4	19.9
4 1	11 14.26	+ 9 27.2	1.807	2.741	9.2	20.2
4 11	11 7.66	+ 8 58.3	1.894	2.762	12.6	20.4
4 21	11 3.45	+ 8 18.9	2.002	2.783	15.4	20.7
167149 2003 SR_{210}			3 12.8 182°.62	2°.9/15.5 18		
2 11	11 54.98	− 7 34.8	1.843	2.668	14.0	20.7
2 21	11 49.23	− 7 11.1	1.765	2.669	10.6	20.4
3 2	11 41.50	− 6 27.7	1.710	2.669	6.7	20.2
3 12	11 32.61	− 5 28.2	1.682	2.669	3.3	20.0
3 22	11 23.54	− 4 18.3	1.683	2.668	4.1	20.0
4 1	11 15.34	− 3 5.7	1.712	2.667	8.0	20.3
4 11	11 8.90	− 1 57.9	1.767	2.665	11.8	20.5
4 21	11 4.75	− 1 0.9	1.844	2.662	15.1	20.7

368687 2005 SN_{16} 3 12.8 218°.42 0°.1/12.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 54.90	+ 0 53.2	2.053	2.902	11.8	21.8
2 21	11 49.03	+ 1 22.4	1.971	2.896	8.4	21.6
3 2	11 41.35	+ 2 2.4	1.915	2.889	4.5	21.3
3 12	11 32.60	+ 2 48.7	1.888	2.881	0.3	21.0
3 22	11 23.65	+ 3 35.9	1.889	2.873	3.9	21.2
4 1	11 15.46	+ 4 18.3	1.920	2.865	8.0	21.5
4 11	11 8.84	+ 4 51.3	1.976	2.856	11.6	21.7
4 21	11 4.31	+ 5 11.8	2.054	2.846	14.7	21.9

268067 2004 RG_{63} 3 12.8 184°.96 0°.3/12.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.21	+ 1 37.4	2.069	2.916	11.8	20.3
2 21	11 50.59	+ 1 41.8	1.993	2.916	8.4	20.1
3 2	11 42.14	+ 1 54.8	1.943	2.916	4.6	19.9
3 12	11 32.66	+ 2 12.8	1.922	2.915	0.5	19.5
3 22	11 23.04	+ 2 31.7	1.931	2.915	3.8	19.8
4 1	11 14.27	+ 2 47.3	1.968	2.914	7.7	20.0
4 11	11 7.13	+ 2 56.0	2.032	2.912	11.3	20.3
4 21	11 2.12	+ 2 55.4	2.118	2.911	14.3	20.5

130532 2000 QB_{202} 3 12.8 178°.64 0°.8/12.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.14	+ 3 2.5	1.862	2.717	12.6	20.9
2 21	11 50.68	+ 3 42.0	1.791	2.720	8.8	20.6
3 2	11 42.24	+ 4 31.5	1.745	2.721	4.6	20.4
3 12	11 32.66	+ 5 25.0	1.728	2.722	0.8	20.1
3 22	11 22.97	+ 6 16.1	1.741	2.722	4.6	20.4
4 1	11 14.21	+ 6 58.6	1.781	2.721	8.9	20.6
4 11	11 7.26	+ 7 28.2	1.847	2.719	12.6	20.9
4 21	11 2.62	+ 7 42.8	1.933	2.717	15.8	21.1

215088 2220 *P–L* 3 12.8 144°.39 0°.9/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.82	+ 5 30.8	2.784	3.636	9.0	21.5
2 21	11 47.78	+ 5 50.3	2.717	3.644	6.3	21.4
3 2	11 40.49	+ 6 14.1	2.677	3.652	3.2	21.2
3 12	11 32.54	+ 6 38.6	2.667	3.660	0.9	21.0
3 22	11 24.56	+ 7 0.4	2.689	3.667	3.4	21.2
4 1	11 17.22	+ 7 16.4	2.740	3.674	6.4	21.4
4 11	11 11.08	+ 7 24.3	2.818	3.680	9.1	21.6
4 21	11 6.50	+ 7 23.0	2.920	3.687	11.4	21.8

217053 2001 QO_{248} 3 12.8 149°.00 0°.1/12.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.98	+ 0 35.4	2.267	3.113	11.0	21.5
2 21	11 48.13	+ 1 22.0	2.200	3.123	7.7	21.3
3 2	11 40.76	+ 2 18.8	2.160	3.133	4.1	21.1
3 12	11 32.57	+ 3 20.8	2.149	3.142	0.3	20.8
3 22	11 24.33	+ 4 22.3	2.168	3.150	3.6	21.1
4 1	11 16.86	+ 5 17.8	2.216	3.158	7.2	21.4
4 11	11 10.83	+ 6 3.0	2.291	3.165	10.5	21.6
4 21	11 6.65	+ 6 35.2	2.389	3.172	13.2	21.8

277765 2006 DA_{159} 3 12.8 26°.37 1°.0/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.12	+ 0 43.0	1.597	2.466	13.5	20.2
2 21	11 45.20	+ 2 12.0	1.536	2.472	9.4	19.9
3 2	11 39.37	+ 3 56.8	1.501	2.478	4.9	19.7
3 12	11 32.47	+ 5 48.1	1.492	2.485	1.0	19.4
3 22	11 25.51	+ 7 35.6	1.512	2.493	5.1	19.7
4 1	11 19.50	+ 9 9.6	1.558	2.501	9.6	20.0
4 11	11 15.29	+10 23.3	1.628	2.509	13.6	20.2
4 21	11 13.33	+11 13.9	1.719	2.518	16.8	20.5

57275 2001 QE_{139} 3 12.8 215°.03 2°.1/14.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.77	− 4 46.9	2.320	3.141	11.6	19.5
2 21	11 50.24	− 4 45.9	2.229	3.133	8.7	19.3
3 2	11 41.98	− 4 32.2	2.163	3.123	5.4	19.1
3 12	11 32.67	− 4 8.0	2.126	3.114	2.4	18.9
3 22	11 23.12	− 3 36.8	2.119	3.103	3.5	18.9
4 1	11 14.22	− 3 3.0	2.142	3.092	6.9	19.1
4 11	11 6.75	− 2 31.5	2.193	3.080	10.3	19.3
4 21	11 1.24	− 2 6.2	2.267	3.067	13.2	19.5

461724 2005 TU_{31} 3 12.8 245°.09 0°.1/12.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.95	− 0 38.0	2.014	2.863	12.0	22.2
2 21	11 47.76	+ 0 13.0	1.925	2.849	8.6	22.0
3 2	11 40.73	+ 1 18.3	1.861	2.834	4.7	21.7
3 12	11 32.58	+ 2 32.6	1.826	2.819	0.4	21.3
3 22	11 24.16	+ 3 49.1	1.820	2.804	4.0	21.6
4 1	11 16.43	+ 5 0.7	1.843	2.788	8.2	21.8
4 11	11 10.23	+ 6 1.0	1.891	2.771	12.0	22.0
4 21	11 6.11	+ 6 46.2	1.961	2.755	15.2	22.2

326420 2001 TS_{54} 3 12.8 99°.64 4°.0/17.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.14	−13 26.1	1.989	2.785	14.3	21.0
2 21	11 47.67	−12 41.3	1.926	2.807	11.1	20.9
3 2	11 40.55	−11 33.3	1.887	2.829	7.6	20.7
3 12	11 32.56	−10 6.1	1.875	2.851	4.7	20.5
3 22	11 24.61	− 8 26.2	1.892	2.872	4.4	20.6
4 1	11 17.59	− 6 42.3	1.938	2.892	7.2	20.8
4 11	11 12.20	− 5 2.8	2.011	2.913	10.4	21.0
4 21	11 8.86	− 3 34.4	2.108	2.932	13.3	21.2

22596 Kathwallace 3 12.8 219°.72 1°.6/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 54.13	+ 3 58.5	1.943	2.803	11.9	19.1
2 21	11 48.59	+ 5 6.4	1.863	2.795	8.3	18.9
3 2	11 41.17	+ 6 25.1	1.810	2.786	4.3	18.6
3 12	11 32.62	+ 7 47.5	1.785	2.777	1.6	18.4
3 22	11 23.84	+ 9 6.0	1.790	2.766	5.1	18.6
4 1	11 15.85	+10 13.3	1.823	2.756	9.2	18.8
4 11	11 9.48	+11 4.3	1.881	2.744	12.9	19.0
4 21	11 5.29	+11 36.5	1.959	2.732	16.0	19.2

378769 2008 RM_{142} 3 12.8 233°.80 6°.0/19.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.48	−17 25.1	2.143	2.913	14.2	20.5
2 21	11 47.39	−17 29.0	2.051	2.906	11.7	20.3
3 2	11 40.53	−17 9.8	1.982	2.899	9.0	20.1
3 12	11 32.57	−16 27.7	1.937	2.892	6.7	19.9
3 22	11 24.37	−15 25.6	1.920	2.884	6.1	19.9
4 1	11 16.85	−14 9.5	1.931	2.877	7.8	20.0
4 11	11 10.84	−12 47.1	1.968	2.869	10.6	20.1
4 21	11 6.86	−11 26.1	2.028	2.861	13.4	20.3

238771 Juhászbalázs 3 12.8 37°.79 4°.1/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.47	+12 34.3	2.001	2.878	10.8	20.3
2 21	11 46.58	+13 46.2	1.944	2.881	7.6	20.1
3 2	11 40.01	+14 59.3	1.913	2.885	4.8	19.9
3 12	11 32.53	+16 6.0	1.911	2.888	4.4	19.9
3 22	11 25.01	+16 59.8	1.936	2.892	6.9	20.1
4 1	11 18.32	+17 35.9	1.989	2.896	10.0	20.2
4 11	11 13.21	+17 52.2	2.064	2.899	13.0	20.4
4 21	11 10.10	+17 49.2	2.159	2.904	15.5	20.6

201503 2003 MR_5 3 12.8 225°.80 2°.4/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.44	+ 7 51.0	2.377	3.240	9.9	20.8
2 21	11 47.15	+ 8 57.8	2.296	3.230	6.9	20.6
3 2	11 40.32	+10 10.4	2.243	3.218	3.8	20.3
3 12	11 32.57	+11 22.6	2.220	3.207	2.5	20.2
3 22	11 24.65	+12 28.4	2.227	3.195	5.1	20.4
4 1	11 17.36	+13 22.3	2.262	3.182	8.4	20.6
4 11	11 11.38	+14 1.0	2.324	3.168	11.4	20.7
4 21	11 7.18	+14 23.0	2.406	3.155	14.0	20.9

1755 Lorbach 3 12.8 48°.38 1°.3/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.74	+ 3 30.4	2.124	2.988	10.9	15.5
2 21	11 45.29	+ 4 37.9	2.058	2.991	7.5	15.3
3 2	11 39.32	+ 5 54.5	2.017	2.994	3.9	15.0
3 12	11 32.49	+ 7 14.1	2.006	2.998	1.3	14.8
3 22	11 25.60	+ 8 29.7	2.024	3.002	4.5	15.1
4 1	11 19.43	+ 9 35.1	2.070	3.006	8.1	15.3
4 11	11 14.67	+10 26.0	2.141	3.009	11.3	15.5
4 21	11 11.73	+11 0.1	2.234	3.013	14.0	15.7

77714 2001 OY_{47} 3 12.8 213°.14 2°.8/15.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.20	− 7 35.5	2.425	3.238	11.5	19.2
2 21	11 47.65	− 7 35.7	2.338	3.234	8.7	19.0
3 2	11 40.58	− 7 22.0	2.276	3.230	5.7	18.8
3 12	11 32.59	− 6 56.1	2.243	3.226	3.2	18.6
3 22	11 24.44	− 6 21.3	2.239	3.221	3.6	18.6
4 1	11 16.91	− 5 42.0	2.264	3.216	6.5	18.8
4 11	11 10.69	− 5 3.3	2.317	3.211	9.5	19.0
4 21	11 6.24	− 4 29.2	2.393	3.206	12.2	19.2

167573 2004 BR_{61} 3 12.8 67°.15 1°.0/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.62	+ 3 48.0	1.972	2.834	11.7	20.2
2 21	11 47.33	+ 4 29.1	1.914	2.846	8.1	20.0
3 2	11 40.39	+ 5 18.2	1.882	2.859	4.2	19.8
3 12	11 32.58	+ 6 9.7	1.878	2.871	1.0	19.6
3 22	11 24.77	+ 6 57.7	1.903	2.884	4.4	19.9
4 1	11 17.84	+ 7 36.8	1.956	2.896	8.2	20.1
4 11	11 12.51	+ 8 3.5	2.034	2.909	11.5	20.4
4 21	11 9.18	+ 8 15.9	2.133	2.921	14.3	20.6

243464 2009 SC_{49} 3 12.8 224°.54 2°.5/15.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.26	− 5 22.7	2.065	2.890	12.7	20.7
2 21	11 50.05	− 5 26.6	1.977	2.883	9.6	20.5
3 2	11 41.96	− 5 16.2	1.915	2.875	6.0	20.3
3 12	11 32.72	− 4 53.6	1.880	2.867	2.9	20.1
3 22	11 23.23	− 4 22.5	1.875	2.859	3.9	20.1
4 1	11 14.48	− 3 47.9	1.898	2.850	7.5	20.3
4 11	11 7.31	− 3 15.2	1.948	2.841	11.1	20.5
4 21	11 2.29	− 2 49.0	2.020	2.832	14.2	20.7

522533 2016 EQ_{237} 3 12.8 294°.16 1°.9/14.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.20	− 6 26.0	1.741	2.581	14.0	21.6
2 21	11 46.07	− 5 31.5	1.650	2.564	10.5	21.3
3 2	11 39.96	− 4 14.3	1.582	2.548	6.4	21.0
3 12	11 32.58	− 2 39.0	1.541	2.531	2.4	20.7
3 22	11 24.88	− 0 53.5	1.528	2.515	4.0	20.8
4 1	11 17.93	+ 0 52.3	1.543	2.498	8.5	21.0
4 11	11 12.67	+ 2 28.7	1.582	2.482	12.8	21.2
4 21	11 9.68	+ 3 48.8	1.644	2.466	16.5	21.4

473777 2016 EW_{78} 3 12.8 6°.04 8°.9/ 5.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 3.33	+27 25.3	1.783	2.640	12.9	20.2
2 21	11 55.11	+28 8.2	1.733	2.640	10.5	20.1
3 2	11 44.59	+28 36.1	1.708	2.641	9.0	20.0
3 12	11 32.90	+28 40.7	1.708	2.641	9.3	20.0
3 22	11 21.35	+28 17.7	1.735	2.641	11.1	20.1
4 1	11 11.21	+27 26.8	1.787	2.641	13.7	20.3
4 11	11 3.42	+26 11.7	1.861	2.642	16.3	20.4
4 21	10 58.43	+24 37.9	1.952	2.642	18.5	20.6

222320 2000 TK_{44} 3 12.8 181°.04 2°.9/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.93	+ 7 38.8	1.953	2.824	11.3	20.3
2 21	11 46.98	+ 9 5.0	1.887	2.825	7.8	20.1
3 2	11 40.29	+10 38.1	1.849	2.825	4.3	19.9
3 12	11 32.60	+12 10.0	1.839	2.825	3.1	19.8
3 22	11 24.80	+13 32.6	1.858	2.825	6.1	20.0
4 1	11 17.82	+14 39.1	1.905	2.824	9.7	20.2
4 11	11 12.43	+15 25.8	1.975	2.823	13.0	20.4
4 21	11 9.09	+15 51.5	2.066	2.823	15.7	20.6

322011 2010 UF_{93} 3 12.8 24°.58 0°.5/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.47	+ 0 39.1	1.454	2.317	14.9	20.1
2 21	11 49.88	+ 0 49.2	1.391	2.321	10.7	19.8
3 2	11 41.97	+ 1 12.6	1.351	2.326	5.8	19.5
3 12	11 32.73	+ 1 44.3	1.337	2.331	0.8	19.2
3 22	11 23.40	+ 2 17.8	1.350	2.336	4.7	19.5
4 1	11 15.24	+ 2 46.5	1.389	2.342	9.6	19.8
4 11	11 9.25	+ 3 4.9	1.451	2.348	13.9	20.1
4 21	11 5.95	+ 3 10.2	1.533	2.355	17.5	20.3

176705 2002 QC_{37} 3 12.8 302°.72 1°.0/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.77	+ 3 18.6	1.546	2.414	13.9	20.3
2 21	11 49.39	+ 3 54.5	1.475	2.409	9.8	20.0
3 2	11 41.73	+ 4 42.0	1.427	2.404	5.2	19.7
3 12	11 32.73	+ 5 34.5	1.406	2.399	1.0	19.4
3 22	11 23.51	+ 6 24.5	1.412	2.394	5.2	19.7
4 1	11 15.32	+ 7 4.7	1.444	2.389	10.0	19.9
4 11	11 9.16	+ 7 29.9	1.500	2.385	14.3	20.2
4 21	11 5.61	+ 7 38.0	1.575	2.380	17.9	20.4

412303 2013 JX_{48} 3 12.8 225°.38 4°.8/ 8.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.32	+13 48.3	1.780	2.654	12.1	20.7
2 21	11 50.98	+14 48.5	1.712	2.647	8.7	20.5
3 2	11 42.51	+15 49.0	1.670	2.640	5.6	20.3
3 12	11 32.79	+16 41.7	1.655	2.632	5.0	20.2
3 22	11 22.90	+17 19.3	1.669	2.624	7.8	20.4
4 1	11 14.01	+17 36.9	1.708	2.616	11.4	20.6
4 11	11 7.05	+17 33.1	1.771	2.607	14.8	20.7
4 21	11 2.56	+17 9.1	1.852	2.598	17.7	20.9

402896 2007 TC_{10} 3 12.8 153°.22 1°.0/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.90	+ 3 31.3	1.922	2.777	12.2	22.1
2 21	11 50.42	+ 4 16.6	1.857	2.786	8.5	21.9
3 2	11 42.10	+ 5 10.8	1.819	2.794	4.4	21.6
3 12	11 32.75	+ 6 8.1	1.809	2.802	1.0	21.4
3 22	11 23.36	+ 7 1.8	1.829	2.809	4.6	21.7
4 1	11 14.92	+ 7 46.1	1.877	2.815	8.6	21.9
4 11	11 8.23	+ 8 17.1	1.951	2.820	12.2	22.1
4 21	11 3.77	+ 8 32.8	2.046	2.825	15.2	22.3

392605 2011 SX_{245} 3 12.8 179°.12 2°.1/15.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.58	− 7 3.8	2.561	3.381	10.7	21.6
2 21	11 45.03	− 6 31.2	2.479	3.381	8.0	21.4
3 2	11 39.16	− 5 44.3	2.423	3.381	5.1	21.2
3 12	11 32.54	− 4 46.2	2.395	3.381	2.4	21.0
3 22	11 25.82	− 3 41.3	2.397	3.381	3.1	21.1
4 1	11 19.68	− 2 35.0	2.428	3.381	6.0	21.2
4 11	11 14.71	− 1 32.5	2.486	3.381	8.9	21.4
4 21	11 11.31	− 0 37.9	2.569	3.381	11.5	21.6

120681 1997 BB_{6} 3 12.8 278°.30 3°.9/16.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.09	− 8 32.8	1.917	2.735	13.8	19.9
2 21	11 49.32	− 8 47.9	1.837	2.733	10.7	19.7
3 2	11 41.61	− 8 45.6	1.780	2.732	7.2	19.5
3 12	11 32.72	− 8 27.3	1.750	2.730	4.3	19.3
3 22	11 23.63	− 7 56.4	1.747	2.728	4.6	19.3
4 1	11 15.34	− 7 18.4	1.773	2.726	7.8	19.5
4 11	11 8.75	− 6 39.4	1.824	2.725	11.3	19.7
4 21	11 4.40	− 6 5.1	1.897	2.723	14.5	19.9

19554 1999 JU_{74} 3 12.8 276°.49 4°.6/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.85	+11 48.6	1.816	2.695	11.6	18.6
2 21	11 47.17	+13 26.3	1.742	2.681	8.2	18.3
3 2	11 40.51	+15 9.0	1.695	2.667	5.3	18.1
3 12	11 32.64	+16 47.1	1.676	2.652	5.0	18.1
3 22	11 24.53	+18 11.3	1.685	2.638	7.9	18.2
4 1	11 17.22	+19 14.4	1.720	2.623	11.5	18.4
4 11	11 11.61	+19 52.7	1.777	2.609	14.9	18.6
4 21	11 8.26	+20 6.2	1.853	2.594	17.8	18.7

352389 2007 WP_{8} 3 12.8 85°.93 7°.1/22.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 52.89	−23 16.1	2.436	3.157	14.0	20.6
2 21	11 47.41	−23 30.8	2.368	3.179	11.8	20.5
3 2	11 40.43	−23 22.1	2.322	3.200	9.7	20.4
3 12	11 32.63	−22 50.1	2.300	3.221	7.8	20.3
3 22	11 24.80	−21 57.3	2.304	3.242	7.1	20.3
4 1	11 17.74	−20 48.8	2.336	3.263	7.8	20.4
4 11	11 12.10	−19 31.5	2.394	3.283	9.5	20.5
4 21	11 8.31	−18 12.4	2.477	3.303	11.5	20.7

149303 2002 TT_{295} 3 12.8 51°.40 3°.9/15.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 59.31	− 5 58.9	1.517	2.352	16.0	19.1
2 21	11 52.54	− 6 36.1	1.454	2.362	12.1	18.9
3 2	11 43.38	− 6 55.6	1.413	2.372	7.8	18.7
3 12	11 32.86	− 6 58.6	1.399	2.383	4.3	18.5
3 22	11 22.24	− 6 48.7	1.411	2.394	5.2	18.6
4 1	11 12.83	− 6 31.4	1.450	2.405	9.1	18.8
4 11	11 5.66	− 6 13.2	1.514	2.416	13.1	19.1
4 21	11 1.28	− 5 59.5	1.598	2.428	16.5	19.3

333904 1999 RR_{154} 3 12.8 263°.43 1°.2/14.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.76	− 2 26.6	2.362	3.192	11.1	22.0
2 21	11 49.67	− 2 12.2	2.252	3.164	8.2	21.7
3 2	11 41.80	− 1 45.9	2.168	3.135	4.8	21.5
3 12	11 32.76	− 1 10.3	2.114	3.105	1.5	21.2
3 22	11 23.32	− 0 29.6	2.089	3.074	3.4	21.3
4 1	11 14.37	+ 0 11.4	2.095	3.043	7.2	21.4
4 11	11 6.74	+ 0 47.9	2.128	3.011	10.8	21.6
4 21	11 1.01	+ 1 15.9	2.184	2.978	13.9	21.8

368726 2005 UO_{60} 3 12.8 142°.92 0°.8/13.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.77	− 1 55.1	2.050	2.892	12.1	21.5
2 21	11 48.17	− 1 19.9	1.980	2.899	8.7	21.3
3 2	11 40.90	− 0 31.6	1.936	2.906	4.9	21.1
3 12	11 32.68	+ 0 25.1	1.920	2.913	1.0	20.8
3 22	11 24.40	+ 1 24.5	1.934	2.919	3.6	21.0
4 1	11 16.93	+ 2 20.4	1.976	2.925	7.5	21.2
4 11	11 11.02	+ 3 7.5	2.045	2.931	11.0	21.5
4 21	11 7.12	+ 3 42.4	2.135	2.936	13.9	21.7

76499 2000 GZ_{17} 3 12.8 155°.91 0°.2/13.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.96	− 0 50.2	2.168	3.012	11.5	19.5
2 21	11 48.23	− 0 0.8	2.098	3.020	8.2	19.3
3 2	11 40.90	+ 1 0.6	2.055	3.027	4.4	19.1
3 12	11 32.68	+ 2 9.0	2.040	3.034	0.5	18.8
3 22	11 24.40	+ 3 18.2	2.056	3.040	3.6	19.0
4 1	11 16.89	+ 4 22.0	2.100	3.045	7.4	19.3
4 11	11 10.88	+ 5 15.5	2.172	3.050	10.8	19.5
4 21	11 6.78	+ 5 55.4	2.265	3.054	13.6	19.7

377748 2005 XA_{118} 3 12.8 257°.47 6°.2/18.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.50	−15 20.2	2.050	2.829	14.4	20.7
2 21	11 49.68	−15 53.1	1.956	2.819	11.8	20.5
3 2	11 41.87	−16 5.4	1.885	2.807	9.0	20.3
3 12	11 32.77	−15 56.4	1.839	2.796	6.7	20.2
3 22	11 23.31	−15 27.7	1.821	2.785	6.4	20.1
4 1	11 14.53	−14 44.0	1.830	2.773	8.4	20.2
4 11	11 7.36	−13 52.1	1.864	2.761	11.3	20.4
4 21	11 2.41	−12 59.1	1.922	2.750	14.2	20.5

308725 2006 HK_{25} 3 12.8 141°.85 4°.6/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.40	+13 0.2	1.735	2.609	12.4	20.8
2 21	11 50.93	+14 9.3	1.682	2.617	8.8	20.6
3 2	11 42.41	+15 18.7	1.655	2.625	5.5	20.4
3 12	11 32.79	+16 19.9	1.655	2.633	4.9	20.4
3 22	11 23.19	+17 5.5	1.684	2.640	7.6	20.6
4 1	11 14.69	+17 30.7	1.738	2.646	11.2	20.8
4 11	11 8.19	+17 34.4	1.816	2.653	14.4	21.0
4 21	11 4.13	+17 17.8	1.913	2.658	17.2	21.2

287528 2003 DD_{1} 3 12.8 121°.06 4°.4/17.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.91	−12 23.8	2.511	3.296	11.9	20.6
2 21	11 48.80	−12 47.2	2.433	3.304	9.5	20.5
3 2	11 41.19	−12 54.8	2.380	3.313	6.9	20.3
3 12	11 32.71	−12 47.3	2.355	3.321	4.8	20.2
3 22	11 24.13	−12 26.9	2.359	3.329	4.6	20.2
4 1	11 16.21	−11 57.4	2.392	3.337	6.6	20.3
4 11	11 9.64	−11 23.8	2.452	3.345	9.1	20.5
4 21	11 4.84	−10 50.8	2.536	3.352	11.5	20.7

203787 2002 TH_{22} 3 12.8 142°.37 0°.2/13.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.16	− 0 10.7	2.818	3.656	9.3	21.9
2 21	11 46.66	+ 0 24.8	2.750	3.668	6.6	21.7
3 2	11 39.96	+ 1 8.7	2.709	3.680	3.6	21.5
3 12	11 32.62	+ 1 57.2	2.698	3.692	0.4	21.3
3 22	11 25.26	+ 2 46.4	2.719	3.703	2.9	21.5
4 1	11 18.50	+ 3 32.1	2.769	3.713	5.9	21.7
4 11	11 12.88	+ 4 10.7	2.848	3.723	8.6	21.9
4 21	11 8.74	+ 4 40.0	2.950	3.732	10.9	22.1

377325 2004 NP_1 3 12.8 239°.27 2°.3/15.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 54.11	− 6 1.0	2.179	3.003	12.2	22.0
2 21	11 48.52	− 5 44.8	2.085	2.989	9.2	21.8
3 2	11 41.17	− 5 13.2	2.015	2.975	5.7	21.5
3 12	11 32.72	− 4 28.8	1.974	2.961	2.6	21.3
3 22	11 24.00	− 3 35.8	1.961	2.946	3.6	21.4
4 1	11 15.91	− 2 40.1	1.978	2.930	7.2	21.5
4 11	11 9.26	− 1 47.7	2.021	2.914	10.8	21.7
4 21	11 4.60	− 1 3.4	2.088	2.898	13.9	21.9

225267 2009 RS_{47} 3 12.8 184°.43 0°.6/13.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.75	− 1 17.9	2.189	3.030	11.5	21.1
2 21	11 48.13	− 0 41.7	2.111	3.031	8.2	20.9
3 2	11 40.88	+ 0 6.6	2.060	3.031	4.6	20.7
3 12	11 32.70	+ 1 2.7	2.037	3.030	0.8	20.4
3 22	11 24.38	+ 2 1.1	2.044	3.029	3.5	20.6
4 1	11 16.80	+ 2 56.1	2.080	3.027	7.3	20.8
4 11	11 10.67	+ 3 42.5	2.142	3.025	10.7	21.0
4 21	11 6.46	+ 4 17.1	2.227	3.022	13.6	21.2

503828 2017 KU_{24} 3 12.8 262°.12 4°.4/ 9.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.46	+10 46.2	1.549	2.427	13.4	21.6
2 21	11 50.74	+11 56.8	1.473	2.411	9.5	21.3
3 2	11 42.56	+13 13.2	1.421	2.395	5.7	21.0
3 12	11 32.84	+14 25.7	1.396	2.379	4.6	20.9
3 22	11 22.77	+15 24.7	1.398	2.362	8.0	21.1
4 1	11 13.69	+16 3.0	1.426	2.345	12.3	21.3
4 11	11 6.72	+16 17.0	1.476	2.328	16.4	21.5
4 21	11 2.51	+16 7.2	1.544	2.310	19.8	21.7

501368 2013 YU_{44} 3 12.8 109°.23 4°.0/ 7.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.78	+14 18.9	2.386	3.258	9.5	21.3
2 21	11 46.57	+15 32.0	2.336	3.270	6.8	21.1
3 2	11 39.97	+16 44.2	2.315	3.282	4.5	21.0
3 12	11 32.63	+17 49.0	2.322	3.294	4.3	21.0
3 22	11 25.30	+18 41.0	2.359	3.305	6.4	21.1
4 1	11 18.72	+19 16.6	2.423	3.317	9.0	21.3
4 11	11 13.50	+19 34.2	2.511	3.328	11.5	21.5
4 21	11 10.01	+19 34.5	2.619	3.339	13.6	21.7

321605 2009 VQ_{11} 3 12.8 28°.37 0°.8/13.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 48.58	− 1 48.4	2.793	3.632	9.4	20.6
2 21	11 44.22	− 1 25.0	2.719	3.636	6.7	20.4
3 2	11 38.70	− 0 52.5	2.672	3.641	3.8	20.2
3 12	11 32.54	− 0 13.8	2.653	3.645	1.0	20.0
3 22	11 26.33	+ 0 27.4	2.665	3.650	2.7	20.1
4 1	11 20.65	+ 1 7.1	2.705	3.655	5.7	20.3
4 11	11 16.03	+ 1 41.7	2.773	3.660	8.4	20.5
4 21	11 12.81	+ 2 8.5	2.864	3.666	10.7	20.7

422130 2014 QA_{423} 3 12.8 147°.41 0°.1/12.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.40	+ 0 53.5	2.053	2.900	11.9	23.2
2 21	11 49.99	+ 1 34.0	1.988	2.912	8.4	23.0
3 2	11 41.85	+ 2 25.0	1.949	2.922	4.5	22.8
3 12	11 32.78	+ 3 21.5	1.939	2.932	0.3	22.4
3 22	11 23.67	+ 4 17.3	1.959	2.942	3.9	22.8
4 1	11 15.45	+ 5 6.8	2.008	2.950	7.8	23.0
4 11	11 8.87	+ 5 45.4	2.083	2.958	11.3	23.2
4 21	11 4.38	+ 6 10.6	2.180	2.965	14.2	23.5

388390 2006 US_{328} 3 12.8 194°.17 4°.0/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.03	−13 20.6	2.650	3.433	11.4	21.3
2 21	11 46.07	−13 15.9	2.562	3.432	9.1	21.1
3 2	11 39.75	−12 54.4	2.498	3.431	6.6	21.0
3 12	11 32.62	−12 17.5	2.462	3.429	4.5	20.8
3 22	11 25.37	−11 28.2	2.454	3.427	4.2	20.8
4 1	11 18.67	−10 31.1	2.475	3.425	6.1	20.9
4 11	11 13.15	− 9 31.6	2.524	3.422	8.7	21.1
4 21	11 9.23	− 8 34.7	2.598	3.420	11.1	21.2

30455 2000 NB_{27} 3 12.8 149°.96 3°.5/16.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.28	− 8 55.4	2.288	3.098	12.2	18.3
2 21	11 47.80	− 9 4.5	2.206	3.098	9.4	18.1
3 2	11 40.71	− 8 58.4	2.149	3.098	6.3	17.9
3 12	11 32.70	− 8 38.5	2.120	3.099	3.8	17.7
3 22	11 24.53	− 8 7.9	2.119	3.099	4.1	17.8
4 1	11 17.04	− 7 31.2	2.147	3.099	6.7	17.9
4 11	11 10.94	− 6 53.6	2.202	3.099	9.8	18.1
4 21	11 6.71	− 6 19.8	2.279	3.100	12.5	18.3

348878 2006 SX_{205} 3 12.8 116°.94 4°.5/ 7.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.26	+18 13.9	2.593	3.457	9.1	20.7
2 21	11 48.88	+18 55.3	2.544	3.470	6.7	20.5
3 2	11 41.14	+19 32.3	2.523	3.482	4.8	20.4
3 12	11 32.72	+19 59.9	2.531	3.494	4.7	20.4
3 22	11 24.37	+20 14.4	2.568	3.506	6.4	20.6
4 1	11 16.81	+20 13.8	2.633	3.518	8.8	20.7
4 11	11 10.64	+19 57.7	2.723	3.529	11.0	20.9
4 21	11 6.22	+19 27.6	2.834	3.540	13.0	21.1

499756 2011 BK_{109} 3 12.8 330°.43 5°.7/16.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 55.94	−10 9.0	1.595	2.416	16.1	21.4
2 21	11 50.36	−10 55.7	1.512	2.406	12.7	21.2
3 2	11 42.38	−11 22.6	1.450	2.396	9.1	20.9
3 12	11 32.84	−11 29.1	1.413	2.387	6.1	20.7
3 22	11 22.89	−11 17.2	1.402	2.378	6.2	20.7
4 1	11 13.83	−10 52.0	1.417	2.371	9.4	20.9
4 11	11 6.79	−10 20.8	1.456	2.363	13.2	21.1
4 21	11 2.46	− 9 50.8	1.516	2.356	16.8	21.3

46752 1998 FM_{35} 3 12.8 44°.23 0°.4/12.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.21	+ 2 13.7	1.456	2.322	14.8	18.8
2 21	11 50.45	+ 2 40.6	1.391	2.324	10.5	18.5
3 2	11 42.32	+ 3 20.0	1.350	2.327	5.5	18.2
3 12	11 32.83	+ 4 5.6	1.336	2.329	0.5	17.9
3 22	11 23.21	+ 4 50.0	1.348	2.332	5.1	18.2
4 1	11 14.75	+ 5 26.1	1.386	2.334	10.0	18.5
4 11	11 8.49	+ 5 48.4	1.447	2.337	14.4	18.8
4 21	11 4.96	+ 5 54.8	1.527	2.340	18.0	19.0

267202 2000 SM_{97} 3 12.8 155°.64 2°.5/15.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.36	− 6 43.7	1.992	2.818	13.1	20.5
2 21	11 47.99	− 6 24.0	1.916	2.821	9.8	20.3
3 2	11 40.86	− 5 47.1	1.864	2.824	6.2	20.1
3 12	11 32.72	− 4 56.5	1.840	2.827	2.9	19.9
3 22	11 24.44	− 3 57.2	1.844	2.829	3.8	19.9
4 1	11 16.97	− 2 55.8	1.877	2.831	7.4	20.2
4 11	11 11.08	− 1 58.7	1.936	2.833	10.9	20.4
4 21	11 7.27	− 1 11.1	2.017	2.835	14.0	20.6

245987 2006 SY_{223} 3 12.8 191°.36 2°.4/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.66	+10 1.7	2.589	3.453	9.2	21.0
2 21	11 47.16	+10 41.4	2.519	3.452	6.4	20.8
3 2	11 40.30	+11 23.3	2.477	3.451	3.6	20.6
3 12	11 32.68	+12 2.6	2.464	3.450	2.5	20.5
3 22	11 25.00	+12 35.0	2.481	3.448	4.7	20.7
4 1	11 17.95	+12 56.9	2.527	3.446	7.6	20.8
4 11	11 12.15	+13 6.4	2.599	3.444	10.3	21.0
4 21	11 7.99	+13 2.8	2.692	3.441	12.6	21.2

60032 1999 TJ_{92} 3 12.8 121°.51 0°.8/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.79	+ 2 23.3	2.302	3.154	10.6	19.7
2 21	11 47.29	+ 3 21.0	2.243	3.171	7.4	19.5
3 2	11 40.36	+ 4 27.3	2.211	3.186	3.8	19.3
3 12	11 32.69	+ 5 36.5	2.209	3.202	0.8	19.1
3 22	11 25.01	+ 6 42.9	2.237	3.217	3.9	19.3
4 1	11 18.10	+ 7 41.0	2.294	3.231	7.3	19.6
4 11	11 12.58	+ 8 26.8	2.377	3.245	10.4	19.8
4 21	11 8.84	+ 8 58.5	2.483	3.258	12.9	20.0

282839 2006 UH_{124} 3 12.8 218°.35 3°.1/16.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.29	− 9 47.9	2.805	3.603	10.5	21.1
2 21	11 46.91	− 9 44.6	2.710	3.595	8.1	20.9
3 2	11 40.20	− 9 27.5	2.641	3.586	5.6	20.7
3 12	11 32.68	− 8 58.2	2.600	3.577	3.4	20.6
3 22	11 24.99	− 8 19.5	2.589	3.568	3.5	20.6
4 1	11 17.80	− 7 35.2	2.608	3.558	5.8	20.7
4 11	11 11.73	− 6 50.0	2.655	3.548	8.5	20.9
4 21	11 7.19	− 6 8.2	2.726	3.538	11.0	21.0

516379 2017 SN_{34} 3 12.8 226°.49 5°.6/18.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.93	−15 39.8	2.261	3.033	13.5	21.7
2 21	11 49.13	−15 53.4	2.164	3.023	11.0	21.5
3 2	11 41.53	−15 46.8	2.090	3.012	8.3	21.3
3 12	11 32.79	−15 19.8	2.043	3.001	6.1	21.1
3 22	11 23.75	−14 35.0	2.024	2.989	5.7	21.1
4 1	11 15.34	−13 37.2	2.033	2.977	7.6	21.2
4 11	11 8.39	−12 33.2	2.068	2.964	10.4	21.3
4 21	11 3.44	−11 29.6	2.127	2.951	13.2	21.5

386738 2010 AV_{58} 3 12.8 28°.18 0°.3/13.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 59.23	+ 2 56.2	1.732	2.587	13.4	19.7
2 21	11 52.23	+ 2 32.9	1.668	2.595	9.5	19.5
3 2	11 43.14	+ 2 17.0	1.629	2.603	5.2	19.3
3 12	11 32.91	+ 2 5.5	1.618	2.612	0.6	18.9
3 22	11 22.64	+ 1 55.2	1.636	2.621	4.2	19.2
4 1	11 13.48	+ 1 42.5	1.681	2.630	8.5	19.5
4 11	11 6.31	+ 1 24.7	1.752	2.640	12.4	19.8
4 21	11 1.63	+ 0 59.9	1.844	2.651	15.6	20.0

147290 2003 AZ_{35} 3 12.8 147°.88 4°.0/16.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.22	−10 54.2	1.939	2.747	14.1	20.1
2 21	11 48.66	−10 43.6	1.863	2.752	11.0	19.9
3 2	11 41.25	−10 12.3	1.810	2.757	7.5	19.7
3 12	11 32.77	− 9 22.6	1.784	2.762	4.6	19.6
3 22	11 24.16	− 8 19.5	1.787	2.767	4.6	19.6
4 1	11 16.40	− 7 9.7	1.817	2.771	7.6	19.8
4 11	11 10.30	− 6 0.9	1.873	2.775	11.0	20.0
4 21	11 6.38	− 4 59.4	1.952	2.778	14.1	20.2

202895 1994 *YP* 3 12.8 78°.37 16°.6/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 4.74	−40 31.4	1.649	2.253	23.4	20.5
2 21	11 57.00	−42 24.6	1.602	2.282	21.6	20.4
3 2	11 46.05	−43 35.8	1.568	2.311	19.8	20.3
3 12	11 33.14	−43 58.1	1.550	2.340	18.2	20.2
3 22	11 19.99	−43 30.3	1.549	2.369	17.0	20.2
4 1	11 8.41	−42 17.3	1.568	2.397	16.6	20.3
4 11	10 59.82	−40 31.1	1.606	2.424	16.9	20.3
4 21	10 54.85	−38 25.7	1.663	2.451	17.8	20.5

59920 1999 RO_{162} 3 12.8 127°.04 3°.4/ 9.2 18

2 11	11 55.99	+12 26.1	2.203	3.069	10.4	18.3
2 21	11 49.59	+13 11.2	2.149	3.081	7.3	18.1
3 2	11 41.61	+13 56.3	2.121	3.093	4.4	18.0
3 12	11 32.81	+14 35.6	2.123	3.104	3.6	17.9
3 22	11 24.03	+15 4.2	2.154	3.114	5.9	18.1
4 1	11 16.15	+15 18.5	2.213	3.125	8.9	18.3
4 11	11 9.83	+15 17.4	2.297	3.135	11.8	18.5
4 21	11 5.49	+15 1.3	2.402	3.144	14.2	18.7

492619 2014 ON_{250} 3 12.8 286°.49 6°.3/ 7.6 17

2 11	11 55.91	+14 8.6	1.341	2.229	14.4	21.4
2 21	11 50.62	+15 35.6	1.274	2.215	10.4	21.1
3 2	11 42.61	+17 5.3	1.231	2.201	7.0	20.9
3 12	11 32.90	+18 25.1	1.213	2.188	6.8	20.8
3 22	11 22.87	+19 24.0	1.220	2.174	10.1	21.0
4 1	11 14.02	+19 54.4	1.251	2.160	14.4	21.2
4 11	11 7.57	+19 54.3	1.301	2.147	18.5	21.4
4 21	11 4.20	+19 26.0	1.368	2.134	22.0	21.6

463750 2014 RB_{26} 3 12.8 131°.59 1°.7/14.5 18

2 11	11 55.95	− 4 44.9	1.907	2.739	13.3	22.7
2 21	11 49.79	− 4 12.8	1.842	2.754	9.8	22.5
3 2	11 41.80	− 3 24.6	1.802	2.767	5.8	22.2
3 12	11 32.83	− 2 24.6	1.790	2.780	2.1	22.0
3 22	11 23.82	− 1 19.1	1.807	2.793	3.7	22.2
4 1	11 15.76	− 0 15.1	1.853	2.804	7.7	22.4
4 11	11 9.44	+ 0 41.2	1.924	2.815	11.3	22.7
4 21	11 5.31	+ 1 25.6	2.018	2.826	14.4	22.9

241943 2002 CR_{138} 3 12.8 69°.86 1°.1/11.6 18

2 11	11 51.05	+ 1 29.9	1.762	2.626	12.7	20.4
2 21	11 46.49	+ 2 50.5	1.699	2.632	8.9	20.2
3 2	11 40.10	+ 4 24.5	1.661	2.638	4.6	19.9
3 12	11 32.70	+ 6 3.9	1.652	2.645	1.1	19.7
3 22	11 25.23	+ 7 39.6	1.671	2.651	4.9	19.9
4 1	11 18.66	+ 9 3.2	1.718	2.658	9.1	20.2
4 11	11 13.79	+10 8.8	1.789	2.664	12.8	20.4
4 21	11 11.07	+10 53.9	1.881	2.671	15.9	20.7

28159 Giuricich 3 12.8 55°.18 5°.5/ 8.9 18

2 11	11 57.69	+12 30.1	1.209	2.097	15.5	18.0
2 21	11 51.70	+13 37.6	1.165	2.107	11.0	17.7
3 2	11 43.02	+14 46.0	1.144	2.118	6.8	17.5
3 12	11 32.92	+15 43.7	1.149	2.130	5.8	17.5
3 22	11 22.93	+16 21.4	1.177	2.141	9.2	17.7
4 1	11 14.52	+16 33.6	1.230	2.153	13.5	18.0
4 11	11 8.75	+16 19.9	1.303	2.165	17.5	18.3
4 21	11 6.06	+15 43.3	1.393	2.177	20.8	18.5

377834 2006 BT_{119} 3 12.8 154°.88 2°.2/15.3 17

2 11	11 54.31	− 6 22.7	2.510	3.325	11.1	21.8
2 21	11 48.35	− 6 8.7	2.434	3.334	8.3	21.6
3 2	11 40.96	− 5 41.5	2.384	3.341	5.2	21.4
3 12	11 32.77	− 5 3.7	2.363	3.349	2.5	21.3
3 22	11 24.51	− 4 19.1	2.372	3.355	3.2	21.3
4 1	11 16.92	− 3 32.4	2.411	3.361	6.2	21.5
4 11	11 10.64	− 2 48.5	2.477	3.367	9.2	21.7
4 21	11 6.08	− 2 11.0	2.568	3.372	11.8	21.9

181081 2005 QM_{36} 3 12.8 226°.50 0°.5/12.1 17

2 11	11 50.07	+ 2 7.5	2.929	3.776	8.7	21.2
2 21	11 45.30	+ 2 56.6	2.840	3.765	6.1	21.0
3 2	11 39.33	+ 3 53.5	2.780	3.754	3.2	20.8
3 12	11 32.66	+ 4 54.2	2.750	3.743	0.5	20.6
3 22	11 25.85	+ 5 54.4	2.750	3.731	3.2	20.8
4 1	11 19.50	+ 6 49.5	2.781	3.718	6.2	21.0
4 11	11 14.18	+ 7 36.0	2.839	3.706	8.9	21.1
4 21	11 10.25	+ 8 11.5	2.920	3.692	11.2	21.3

468542 2006 QZ_{52} 3 12.8 171°.97 0°.3/12.3 18

2 11	11 49.86	+ 0 51.2	3.125	3.966	8.4	21.9
2 21	11 45.04	+ 1 54.1	3.048	3.970	5.9	21.8
3 2	11 39.14	+ 3 5.1	3.000	3.973	3.1	21.6
3 12	11 32.65	+ 4 20.0	2.982	3.976	0.3	21.3
3 22	11 26.08	+ 5 34.1	2.997	3.978	2.9	21.6
4 1	11 20.00	+ 6 43.0	3.042	3.979	5.7	21.8
4 11	11 14.89	+ 7 43.0	3.116	3.980	8.3	21.9
4 21	11 11.09	+ 8 31.7	3.214	3.981	10.4	22.1

236880 2007 RQ_{286} 3 12.8 119°.38 0°.7/13.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 53.87	− 0 42.9	2.171	3.015	11.5	21.3
2 21	11 48.20	− 0 24.6	2.102	3.022	8.2	21.1
3 2	11 40.93	+ 0 4.3	2.058	3.029	4.6	20.9
3 12	11 32.78	+ 0 40.1	2.042	3.035	0.9	20.6
3 22	11 24.57	+ 1 18.2	2.056	3.042	3.4	20.8
4 1	11 17.12	+ 1 53.6	2.099	3.048	7.1	21.1
4 11	11 11.16	+ 2 22.0	2.168	3.054	10.4	21.3
4 21	11 7.11	+ 2 40.7	2.260	3.060	13.3	21.5

430374 2014 CU_{10} 3 12.8 248°.20 5°.6/ 5.1 17

2 11	11 51.90	+20 29.9	2.489	3.359	9.2	21.0
2 21	11 46.80	+21 48.6	2.425	3.349	7.1	20.9
3 2	11 40.20	+23 3.2	2.389	3.339	5.7	20.8
3 12	11 32.73	+24 6.7	2.381	3.329	6.1	20.8
3 22	11 25.14	+24 53.8	2.401	3.318	7.9	20.9
4 1	11 18.21	+25 21.1	2.448	3.307	10.3	21.0
4 11	11 12.61	+25 27.6	2.517	3.296	12.5	21.1
4 21	11 8.77	+25 14.7	2.604	3.285	14.5	21.3

247789 2003 SL_{38} 3 12.8 251°.74 4°.9/16.8 16

2 11	11 56.48	−10 57.6	1.770	2.580	15.2	20.8
2 21	11 50.65	−11 9.5	1.676	2.565	12.0	20.6
3 2	11 42.54	−11 0.0	1.604	2.550	8.4	20.3
3 12	11 32.94	−10 29.7	1.558	2.534	5.4	20.1
3 22	11 22.89	− 9 41.9	1.540	2.518	5.5	20.1
4 1	11 13.60	− 8 43.1	1.549	2.502	8.7	20.2
4 11	11 6.15	− 7 41.7	1.583	2.485	12.6	20.4
4 21	11 1.21	− 6 45.0	1.638	2.468	16.2	20.6

2529 Rockwell Kent 3 12.8 215°.37 1°.4/14.2 18

2 11	11 53.57	− 3 45.6	1.910	2.750	13.0	17.4
2 21	11 48.27	− 3 10.4	1.830	2.746	9.5	17.1
3 2	11 41.11	− 2 19.0	1.773	2.741	5.5	16.9
3 12	11 32.82	− 1 15.6	1.745	2.736	1.7	16.6
3 22	11 24.34	− 0 6.7	1.745	2.731	3.8	16.7
4 1	11 16.65	+ 1 0.8	1.773	2.725	7.9	17.0
4 11	11 10.60	+ 2 0.0	1.827	2.720	11.8	17.2
4 21	11 6.70	+ 2 46.5	1.903	2.713	15.0	17.4

117052 2004 JA_{42} 3 12.8 315°.20 0°.6/12.2 17

2 11	11 51.51	+ 2 54.5	2.031	2.892	11.4	20.0
2 21	11 46.76	+ 3 25.6	1.949	2.880	8.1	19.8
3 2	11 40.28	+ 4 6.1	1.892	2.868	4.3	19.6
3 12	11 32.76	+ 4 51.0	1.862	2.856	0.6	19.2
3 22	11 25.05	+ 5 35.1	1.862	2.844	4.1	19.5
4 1	11 18.03	+ 6 12.6	1.889	2.833	8.1	19.7
4 11	11 12.49	+ 6 39.4	1.941	2.822	11.7	19.9
4 21	11 8.95	+ 6 52.8	2.014	2.811	14.8	20.1

396626 2001 TX_{236} 3 12.8 197°.30 1°.6/11.2 16

2 11	11 57.52	+ 4 52.9	1.973	2.829	11.9	23.0
2 21	11 51.01	+ 5 47.6	1.896	2.826	8.3	22.7
3 2	11 42.55	+ 6 51.1	1.846	2.822	4.4	22.5
3 12	11 32.95	+ 7 56.9	1.825	2.816	1.7	22.3
3 22	11 23.16	+ 8 58.0	1.834	2.810	5.0	22.5
4 1	11 14.22	+ 9 48.1	1.871	2.803	9.0	22.7
4 11	11 6.98	+10 23.1	1.934	2.795	12.7	22.9
4 21	11 1.98	+10 41.3	2.018	2.786	15.7	23.1

434996 2006 UC_{242} 3 12.8 336°.68 6°.5/21.8 17

2 11	11 48.88	−22 35.0	2.204	2.943	14.7	20.6
2 21	11 44.87	−22 1.3	2.111	2.940	12.4	20.4
3 2	11 39.25	−20 59.0	2.039	2.937	9.9	20.2
3 12	11 32.69	−19 28.9	1.992	2.934	7.6	20.1
3 22	11 25.99	−17 35.5	1.973	2.931	6.5	20.0
4 1	11 19.99	−15 26.5	1.982	2.928	7.6	20.1
4 11	11 15.41	−13 11.6	2.019	2.926	10.1	20.2
4 21	11 12.72	−11 0.4	2.081	2.924	12.7	20.4

295870 2008 WR_{24} 3 12.8 207°.55 4°.3/16.9 18

2 11	11 56.54	−11 39.1	1.895	2.696	14.6	22.0
2 21	11 50.49	−11 25.6	1.805	2.690	11.5	21.7
3 2	11 42.37	−10 49.4	1.738	2.683	7.9	21.5
3 12	11 32.94	− 9 52.4	1.699	2.676	4.9	21.3
3 22	11 23.23	− 8 39.6	1.687	2.667	4.9	21.3
4 1	11 14.31	− 7 18.2	1.705	2.658	8.1	21.4
4 11	11 7.13	− 5 57.0	1.748	2.647	11.8	21.6
4 21	11 2.31	− 4 43.5	1.814	2.636	15.2	21.8

346889 Rhiphonos 3 12.8 102°.44 0°.6/ 9.4 15

2 11	11 39.28	+11 36.7	12.492	13.353	2.1	23.2
2 21	11 37.16	+11 49.9	12.437	13.369	1.5	23.1
3 2	11 34.82	+12 3.1	12.412	13.385	0.9	23.0
3 12	11 32.37	+12 15.6	12.418	13.400	0.7	23.0
3 22	11 29.91	+12 26.7	12.454	13.416	1.2	23.1
4 1	11 27.56	+12 35.8	12.521	13.431	1.8	23.2
4 11	11 25.41	+12 42.4	12.615	13.447	2.5	23.2
4 21	11 23.55	+12 46.2	12.733	13.462	3.0	23.3

111315 2001 XZ_{73} 3 12.8 31°.92 4°.7/18.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 50.25	−13 53.3	2.135	2.929	13.5	19.5
2 21	11 45.79	−13 43.8	2.057	2.933	10.7	19.3
3 2	11 39.72	−13 13.4	2.002	2.937	7.8	19.1
3 12	11 32.74	−12 23.7	1.974	2.942	5.3	19.0
3 22	11 25.65	−11 19.0	1.972	2.947	4.9	18.9
4 1	11 19.27	−10 5.5	1.999	2.952	7.1	19.1
4 11	11 14.33	− 8 50.5	2.052	2.958	10.0	19.3
4 21	11 11.28	− 7 40.5	2.128	2.964	12.8	19.5

460215 2014 QZ_{173} 3 12.8 76°.82 1°.9/14.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 58.80	− 3 16.0	1.622	2.463	14.8	21.4
2 21	11 51.89	− 3 9.0	1.573	2.490	10.8	21.2
3 2	11 42.95	− 2 46.3	1.549	2.516	6.3	21.0
3 12	11 32.99	− 2 12.3	1.552	2.543	2.2	20.8
3 22	11 23.17	− 1 32.9	1.583	2.569	4.1	21.0
4 1	11 14.62	− 0 54.5	1.642	2.595	8.3	21.3
4 11	11 8.15	− 0 22.9	1.725	2.620	12.2	21.6
4 21	11 4.20	− 0 1.7	1.830	2.645	15.4	21.9

465098 2006 UQ_{217} 3 12.8 235°.26 5°.9/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.71	+30 7.7	3.652	4.490	7.4	23.1
2 21	11 48.50	+31 20.5	3.584	4.469	6.3	23.0
3 2	11 41.05	+32 25.3	3.546	4.447	5.9	23.0
3 12	11 32.85	+33 17.1	3.536	4.425	6.4	23.0
3 22	11 24.50	+33 52.6	3.554	4.401	7.6	23.0
4 1	11 16.61	+34 9.8	3.599	4.377	9.1	23.1
4 11	11 9.74	+34 8.7	3.666	4.351	10.5	23.2
4 21	11 4.30	+33 50.9	3.751	4.325	11.8	23.3

14439 Evermeersch 3 12.8 85°.62 0°.1/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.00	+ 0 48.3	2.056	2.908	11.7	18.3
2 21	11 47.66	+ 1 19.0	1.991	2.917	8.3	18.1
3 2	11 40.69	+ 2 0.0	1.952	2.925	4.4	17.9
3 12	11 32.82	+ 2 46.6	1.940	2.934	0.4	17.6
3 22	11 24.91	+ 3 33.3	1.958	2.942	3.7	17.9
4 1	11 17.82	+ 4 14.9	2.004	2.951	7.5	18.1
4 11	11 12.26	+ 4 46.9	2.076	2.959	11.0	18.3
4 21	11 8.65	+ 5 6.8	2.170	2.968	13.8	18.5

466150 2012 HR_{51} 3 12.8 294°.87 5°.4/18.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.27	−14 1.4	1.725	2.529	15.7	21.3
2 21	11 46.98	−13 48.5	1.631	2.513	12.6	21.0
3 2	11 40.59	−13 8.7	1.558	2.498	9.2	20.8
3 12	11 32.83	−12 3.0	1.510	2.482	6.1	20.5
3 22	11 24.70	−10 36.3	1.489	2.467	5.7	20.5
4 1	11 17.34	− 8 57.0	1.494	2.451	8.6	20.6
4 11	11 11.73	− 7 15.5	1.525	2.436	12.4	20.8
4 21	11 8.52	− 5 41.3	1.577	2.421	16.0	21.0

203392 2001 XL_{134} 3 12.8 76°.36 2°.2/14.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.28	− 4 38.9	1.375	2.225	16.5	20.9
2 21	11 50.52	− 4 15.0	1.320	2.240	12.1	20.7
3 2	11 42.38	− 3 30.3	1.286	2.254	7.2	20.4
3 12	11 32.95	− 2 30.3	1.279	2.269	2.6	20.2
3 22	11 23.52	− 1 23.2	1.297	2.284	4.6	20.4
4 1	11 15.40	− 0 18.1	1.342	2.299	9.4	20.7
4 11	11 9.56	+ 0 36.8	1.410	2.313	13.8	21.0
4 21	11 6.50	+ 1 16.5	1.498	2.328	17.5	21.2

160657 1999 XC_{142} 3 12.8 168°.11 17°.7/25.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 11.23	+44 7.9	1.341	2.159	18.7	19.7
2 21	12 1.86	+46 13.7	1.324	2.162	17.8	19.6
3 2	11 48.62	+47 41.1	1.326	2.165	17.9	19.6
3 12	11 33.42	+48 16.9	1.347	2.167	18.9	19.7
3 22	11 18.68	+47 56.8	1.387	2.169	20.5	19.8
4 1	11 6.56	+46 45.2	1.442	2.170	22.3	19.9
4 11	10 58.36	+44 52.5	1.510	2.171	24.0	20.1
4 21	10 54.38	+42 30.6	1.589	2.171	25.5	20.3

278503 2008 AN_{47} 3 12.8 200°.13 3°.9/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.51	+10 59.3	1.841	2.713	11.8	20.8
2 21	11 49.68	+12 12.4	1.775	2.711	8.3	20.6
3 2	11 41.87	+13 29.1	1.735	2.708	5.0	20.4
3 12	11 32.92	+14 41.1	1.723	2.705	4.2	20.3
3 22	11 23.84	+15 40.6	1.740	2.701	7.0	20.5
4 1	11 15.67	+16 21.8	1.784	2.696	10.6	20.7
4 11	11 9.29	+16 42.0	1.850	2.691	14.0	20.9
4 21	11 5.22	+16 41.5	1.937	2.686	16.9	21.1

283535 2001 TE_{216} 3 12.8 109°.45 2°.8/16.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.13	− 7 57.7	2.500	3.310	11.2	20.9
2 21	11 47.54	− 7 54.3	2.429	3.323	8.5	20.7
3 2	11 40.56	− 7 37.0	2.384	3.336	5.6	20.6
3 12	11 32.82	− 7 8.1	2.367	3.349	3.1	20.4
3 22	11 25.04	− 6 31.0	2.380	3.362	3.5	20.4
4 1	11 17.94	− 5 50.2	2.422	3.374	6.1	20.6
4 11	11 12.13	− 5 10.3	2.491	3.386	8.9	20.8
4 21	11 8.01	− 4 35.4	2.585	3.398	11.4	21.0

151287 2002 BQ_{22} 3 12.8 63°.58 0°.2/12.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 58.81	+ 3 4.2	1.649	2.507	13.8	18.8
2 21	11 51.98	+ 3 4.6	1.593	2.521	9.7	18.6
3 2	11 43.06	+ 3 13.6	1.561	2.536	5.2	18.3
3 12	11 33.02	+ 3 26.9	1.556	2.550	0.4	18.0
3 22	11 23.02	+ 3 39.5	1.580	2.565	4.4	18.3
4 1	11 14.21	+ 3 47.0	1.632	2.579	8.9	18.6
4 11	11 7.46	+ 3 45.7	1.708	2.594	12.8	18.9
4 21	11 3.24	+ 3 33.9	1.804	2.609	16.0	19.1

371986 2008 GZ_{103} 3 12.8 293°.74 1°.8/11.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.23	+ 4 0.1	1.649	2.520	13.1	20.9
2 21	11 47.57	+ 5 7.6	1.576	2.512	9.1	20.6
3 2	11 40.84	+ 6 27.3	1.527	2.505	4.8	20.3
3 12	11 32.86	+ 7 51.3	1.506	2.497	1.8	20.1
3 22	11 24.66	+ 9 10.6	1.512	2.490	5.6	20.3
4 1	11 17.37	+10 16.9	1.544	2.483	10.1	20.6
4 11	11 11.90	+11 4.5	1.601	2.475	14.1	20.8
4 21	11 8.81	+11 31.2	1.676	2.468	17.5	21.0

75028 1999 US_{17} 3 12.8 245°.30 1°.6/11.5 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.94	+ 4 40.2	1.716	2.581	13.0	20.3
2 21	11 50.17	+ 5 24.3	1.637	2.571	9.1	20.0
3 2	11 42.24	+ 6 18.4	1.583	2.560	4.8	19.7
3 12	11 32.97	+ 7 15.8	1.557	2.549	1.6	19.5
3 22	11 23.44	+ 8 9.2	1.559	2.538	5.3	19.7
4 1	11 14.80	+ 8 51.8	1.587	2.526	9.8	20.0
4 11	11 8.03	+ 9 18.7	1.640	2.514	13.9	20.2
4 21	11 3.72	+ 9 28.2	1.713	2.502	17.3	20.4

147588 2004 FN_{162} 3 12.8 62°.71 3°.2/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.38	+ 6 46.4	1.198	2.082	16.0	20.0
2 21	11 50.85	+ 7 53.9	1.149	2.091	11.1	19.7
3 2	11 42.66	+ 9 11.0	1.122	2.100	5.9	19.4
3 12	11 32.99	+10 26.5	1.121	2.110	3.4	19.3
3 22	11 23.34	+11 29.6	1.144	2.120	7.5	19.6
4 1	11 15.18	+12 12.2	1.192	2.130	12.4	19.9
4 11	11 9.57	+12 30.3	1.261	2.140	16.8	20.2
4 21	11 7.02	+12 24.6	1.347	2.150	20.5	20.4

301297 2009 BV_{124} 3 12.8 266°.97 1°.8/10.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.27	+ 5 24.5	2.215	3.080	10.4	20.6
2 21	11 45.72	+ 6 31.4	2.145	3.079	7.2	20.4
3 2	11 39.67	+ 7 45.8	2.102	3.078	3.8	20.2
3 12	11 32.76	+ 9 1.5	2.087	3.077	1.9	20.1
3 22	11 25.76	+10 12.1	2.102	3.077	4.7	20.3
4 1	11 19.43	+11 11.7	2.146	3.076	8.2	20.5
4 11	11 14.47	+11 56.4	2.214	3.075	11.3	20.7
4 21	11 11.28	+12 24.4	2.304	3.074	13.9	20.8

499774 2011 CZ_{24} 3 12.8 0°.47 14°.5/23.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.09	−31 48.4	1.819	2.483	19.8	20.7
2 21	11 56.60	−34 7.2	1.740	2.483	18.1	20.5
3 2	11 46.04	−35 57.0	1.680	2.482	16.4	20.4
3 12	11 33.29	−37 9.6	1.641	2.482	15.1	20.3
3 22	11 19.70	−37 40.9	1.624	2.482	14.5	20.2
4 1	11 6.91	−37 32.0	1.629	2.483	14.8	20.3
4 11	10 56.45	−36 50.8	1.655	2.484	16.0	20.3
4 21	10 49.25	−35 48.4	1.700	2.484	17.6	20.4

322803 2001 RO_{50} 3 12.8 276°.14 4°.4/16.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.51	− 9 18.6	1.739	2.559	15.0	20.5
2 21	11 49.90	− 9 33.8	1.656	2.552	11.6	20.2
3 2	11 42.12	− 9 29.3	1.595	2.545	8.0	20.0
3 12	11 32.97	− 9 6.0	1.559	2.539	4.8	19.8
3 22	11 23.52	− 8 27.9	1.551	2.532	5.1	19.8
4 1	11 14.92	− 7 40.9	1.571	2.525	8.5	20.0
4 11	11 8.16	− 6 52.7	1.614	2.519	12.3	20.2
4 21	11 3.87	− 6 9.8	1.680	2.512	15.8	20.4

4657 Lopez 3 12.8 119°.09 0°.0/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.16	+ 0 55.4	2.558	3.403	9.9	18.0
2 21	11 46.80	+ 1 29.7	2.493	3.416	7.0	17.9
3 2	11 40.15	+ 2 12.2	2.456	3.429	3.7	17.7
3 12	11 32.81	+ 2 58.9	2.448	3.442	0.3	17.4
3 22	11 25.45	+ 3 45.5	2.471	3.455	3.1	17.7
4 1	11 18.76	+ 4 27.5	2.523	3.467	6.4	17.9
4 11	11 13.31	+ 5 1.4	2.602	3.479	9.3	18.1
4 21	11 9.47	+ 5 25.0	2.704	3.490	11.7	18.3

14217 Oaxaca 3 12.8 208°.93 1°.7/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.48	+ 5 5.6	1.987	2.847	11.7	20.3
2 21	11 49.58	+ 6 1.4	1.909	2.841	8.2	20.0
3 2	11 41.82	+ 7 5.8	1.859	2.835	4.3	19.8
3 12	11 32.95	+ 8 12.4	1.836	2.828	1.7	19.6
3 22	11 23.88	+ 9 14.3	1.844	2.820	5.0	19.8
4 1	11 15.62	+10 5.3	1.879	2.812	9.0	20.0
4 11	11 8.99	+10 41.0	1.940	2.803	12.6	20.2
4 21	11 4.51	+10 59.8	2.022	2.793	15.6	20.4

74724 1999 RF_{169} 3 12.8 106°.18 0°.6/13.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 55.78	− 2 12.3	1.777	2.622	13.6	20.7
2 21	11 49.72	− 1 21.4	1.722	2.643	9.7	20.5
3 2	11 41.81	− 0 15.6	1.692	2.663	5.3	20.3
3 12	11 32.94	+ 0 59.0	1.690	2.683	0.9	20.0
3 22	11 24.12	+ 2 14.8	1.717	2.703	4.0	20.3
4 1	11 16.35	+ 3 24.2	1.773	2.721	8.2	20.6
4 11	11 10.42	+ 4 21.2	1.854	2.740	11.9	20.9
4 21	11 6.76	+ 5 2.7	1.956	2.757	15.0	21.1

350107 2011 PE_{10} 3 12.8 184°.53 4°.1/18.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.62	−14 0.3	2.996	3.764	10.6	21.4
2 21	11 47.82	−14 12.9	2.905	3.764	8.5	21.3
3 2	11 40.73	−14 10.9	2.839	3.763	6.3	21.1
3 12	11 32.87	−13 55.0	2.802	3.763	4.5	21.0
3 22	11 24.87	−13 27.1	2.794	3.761	4.3	21.0
4 1	11 17.37	−12 50.7	2.817	3.759	5.8	21.1
4 11	11 10.96	−12 10.1	2.867	3.757	8.0	21.2
4 21	11 6.05	−11 29.5	2.942	3.754	10.2	21.4

24765 1993 FE_{8} 3 12.8 202°.56 2°.2/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.55	+ 6 56.8	2.008	2.871	11.4	19.2
2 21	11 49.60	+ 7 51.8	1.934	2.867	8.0	19.0
3 2	11 41.81	+ 8 53.3	1.887	2.863	4.3	18.7
3 12	11 32.96	+ 9 54.9	1.869	2.858	2.3	18.6
3 22	11 23.94	+10 49.9	1.880	2.852	5.3	18.8
4 1	11 15.74	+11 32.6	1.919	2.846	9.1	19.0
4 11	11 9.18	+11 59.5	1.982	2.840	12.6	19.2
4 21	11 4.74	+12 9.4	2.067	2.832	15.5	19.4

435418 2008 BX_{14} 3 12.8 166°.11 5°.9/ 4.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.35	+22 4.0	2.481	3.350	9.3	20.9
2 21	11 47.08	+23 17.7	2.430	3.351	7.3	20.8
3 2	11 40.36	+24 25.2	2.406	3.352	6.0	20.7
3 12	11 32.84	+25 19.9	2.411	3.353	6.4	20.7
3 22	11 25.28	+25 57.1	2.443	3.354	8.1	20.8
4 1	11 18.46	+26 14.1	2.501	3.354	10.3	21.0
4 11	11 13.01	+26 10.7	2.581	3.355	12.4	21.1
4 21	11 9.33	+25 48.6	2.680	3.355	14.3	21.3

207361 2005 JW_{145} 3 12.8 348°.95 4°.0/17.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.22	−11 17.2	2.109	2.915	13.2	20.3
2 21	11 46.52	−11 7.7	2.027	2.915	10.3	20.1
3 2	11 40.16	−10 38.8	1.969	2.914	7.2	19.9
3 12	11 32.83	− 9 52.4	1.937	2.913	4.5	19.8
3 22	11 25.34	− 8 53.0	1.933	2.913	4.4	19.7
4 1	11 18.56	− 7 46.5	1.957	2.912	7.1	19.9
4 11	11 13.23	− 6 39.9	2.008	2.912	10.2	20.1
4 21	11 9.84	− 5 39.2	2.081	2.912	13.2	20.3

519574 2012 ST_{70} 3 12.8 176°.00 0°.9/13.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.98	− 2 21.9	2.496	3.332	10.5	22.4
2 21	11 46.79	− 1 51.9	2.418	3.333	7.6	22.2
3 2	11 40.21	− 1 10.9	2.366	3.334	4.3	22.0
3 12	11 32.84	− 0 22.3	2.343	3.335	1.1	21.7
3 22	11 25.37	+ 0 29.5	2.350	3.336	3.0	21.9
4 1	11 18.52	+ 1 19.5	2.387	3.336	6.4	22.1
4 11	11 12.92	+ 2 3.3	2.451	3.336	9.4	22.3
4 21	11 8.96	+ 2 37.7	2.538	3.335	12.1	22.5

41470 2000 OK_{50} 3 12.8 125°.67 4°.0/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.84	+11 9.8	1.768	2.638	12.3	19.7
2 21	11 51.21	+12 20.3	1.719	2.654	8.6	19.5
3 2	11 42.63	+13 32.7	1.696	2.669	5.1	19.3
3 12	11 33.03	+14 38.5	1.702	2.683	4.2	19.3
3 22	11 23.49	+15 30.4	1.736	2.697	7.0	19.5
4 1	11 15.08	+16 3.4	1.797	2.710	10.6	19.7
4 11	11 8.61	+16 15.9	1.882	2.723	13.8	19.9
4 21	11 4.53	+16 8.8	1.986	2.735	16.5	20.2

283537 2001 TN_{223} 3 12.8 98°.13 0°.9/13.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 59.46	− 1 28.8	1.537	2.386	15.1	22.0
2 21	11 52.50	− 1 3.4	1.486	2.408	10.8	21.7
3 2	11 43.35	− 0 22.8	1.459	2.430	6.0	21.5
3 12	11 33.09	+ 0 27.2	1.459	2.452	1.2	21.2
3 22	11 22.93	+ 1 19.4	1.488	2.473	4.4	21.5
4 1	11 14.09	+ 2 6.7	1.543	2.494	9.0	21.8
4 11	11 7.45	+ 2 43.1	1.623	2.514	13.1	22.1
4 21	11 3.45	+ 3 5.7	1.724	2.533	16.4	22.4

283101 2008 UV_{173} 3 12.8 181°.50 2°.6/15.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.96	− 6 2.1	1.758	2.586	14.4	21.0
2 21	11 51.53	− 5 48.2	1.681	2.588	10.8	20.8
3 2	11 42.95	− 5 15.8	1.627	2.589	6.7	20.5
3 12	11 33.07	− 4 28.3	1.601	2.589	3.0	20.3
3 22	11 22.99	− 3 31.4	1.603	2.588	4.2	20.4
4 1	11 13.86	− 2 32.2	1.633	2.586	8.4	20.6
4 11	11 6.64	− 1 38.1	1.689	2.584	12.4	20.8
4 21	11 1.89	− 0 54.4	1.766	2.581	15.8	21.1

55395 2001 SY_{285} 3 12.8 112°.05 6°.5/ 5.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 55.61	+19 40.5	1.976	2.849	11.1	19.1
2 21	11 49.54	+21 18.1	1.940	2.866	8.4	19.0
3 2	11 41.70	+22 49.3	1.931	2.884	6.6	18.9
3 12	11 32.96	+24 5.0	1.950	2.900	7.0	19.0
3 22	11 24.30	+24 59.1	1.996	2.917	9.1	19.1
4 1	11 16.67	+25 28.2	2.068	2.932	11.7	19.3
4 11	11 10.81	+25 32.7	2.162	2.948	14.1	19.5
4 21	11 7.12	+25 15.3	2.273	2.963	16.2	19.7

7723 Lugger 3 12.8 131°.22 2°.8/10.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 58.11	+ 7 56.5	1.922	2.784	11.9	18.3
2 21	11 51.27	+ 9 7.9	1.871	2.804	8.2	18.1
3 2	11 42.62	+10 24.0	1.847	2.822	4.5	17.9
3 12	11 33.04	+11 37.1	1.853	2.840	2.9	17.8
3 22	11 23.53	+12 40.0	1.888	2.856	5.8	18.0
4 1	11 15.05	+13 27.3	1.952	2.872	9.4	18.3
4 11	11 8.39	+13 56.3	2.040	2.887	12.7	18.5
4 21	11 3.96	+14 6.8	2.149	2.900	15.4	18.7

353049 2009 DN_{28} 3 12.8 187°.09 0°.5/12.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.15	+ 1 38.7	2.547	3.398	9.7	21.3
2 21	11 45.50	+ 2 37.7	2.471	3.398	6.8	21.1
3 2	11 39.53	+ 3 45.9	2.422	3.397	3.6	20.9
3 12	11 32.80	+ 4 58.4	2.403	3.396	0.5	20.7
3 22	11 25.98	+ 6 9.7	2.414	3.395	3.5	20.9
4 1	11 19.75	+ 7 14.5	2.455	3.394	6.8	21.1
4 11	11 14.69	+ 8 8.5	2.522	3.392	9.8	21.3
4 21	11 11.20	+ 8 49.2	2.613	3.391	12.3	21.5

473177 2015 KT_{59} 3 12.8 345°.68 7°.9/ 3.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.40	+22 46.2	1.830	2.712	11.4	20.1
2 21	11 46.19	+24 33.3	1.780	2.705	9.1	19.9
3 2	11 40.07	+26 12.9	1.755	2.699	8.0	19.8
3 12	11 32.85	+27 34.8	1.757	2.694	8.7	19.9
3 22	11 25.51	+28 31.7	1.783	2.689	10.9	20.0
4 1	11 19.09	+28 59.5	1.833	2.684	13.5	20.1
4 11	11 14.42	+28 58.3	1.903	2.681	16.1	20.3
4 21	11 11.99	+28 31.1	1.989	2.678	18.2	20.5

289467 2005 EU_{68} 3 12.8 8°.38 2°.2/14.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.91	− 3 19.3	1.265	2.127	16.8	20.1
2 21	11 49.16	− 3 12.8	1.201	2.127	12.4	19.9
3 2	11 41.84	− 2 46.1	1.158	2.129	7.3	19.6
3 12	11 32.99	− 2 3.7	1.140	2.131	2.6	19.3
3 22	11 23.96	− 1 13.2	1.146	2.134	4.9	19.5
4 1	11 16.15	− 0 23.3	1.177	2.137	10.0	19.8
4 11	11 10.70	+ 0 17.7	1.231	2.142	14.8	20.0
4 21	11 8.20	+ 0 44.5	1.303	2.147	18.8	20.3

71732 2000 JU_{37} 3 12.8 284°.47 1°.1/13.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.07	− 1 59.1	1.754	2.603	13.5	19.6
2 21	11 48.96	− 1 34.0	1.659	2.581	9.9	19.3
3 2	11 41.69	− 0 52.9	1.588	2.558	5.7	19.0
3 12	11 32.99	+ 0 0.2	1.543	2.536	1.4	18.6
3 22	11 23.87	+ 0 59.1	1.527	2.513	4.2	18.8
4 1	11 15.46	+ 1 56.5	1.538	2.490	8.9	19.0
4 11	11 8.78	+ 2 45.3	1.573	2.467	13.2	19.2
4 21	11 4.51	+ 3 20.6	1.629	2.444	17.0	19.4

273048 2006 DW_{142} 3 12.8 275°.45 1°.6/11.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.03	+ 5 46.6	1.940	2.805	11.7	21.2
2 21	11 48.59	+ 6 23.1	1.865	2.798	8.2	21.0
3 2	11 41.32	+ 7 6.7	1.815	2.792	4.3	20.7
3 12	11 32.95	+ 7 51.7	1.793	2.785	1.7	20.5
3 22	11 24.43	+ 8 32.2	1.801	2.778	4.9	20.7
4 1	11 16.71	+ 9 2.9	1.835	2.772	8.8	20.9
4 11	11 10.62	+ 9 20.0	1.894	2.765	12.4	21.1
4 21	11 6.67	+ 9 22.2	1.974	2.759	15.5	21.3

228191 2009 UX_{72} 3 12.8 156°.98 3°.1/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.37	+10 6.8	1.940	2.809	11.5	20.6
2 21	11 49.47	+10 53.1	1.876	2.811	8.0	20.4
3 2	11 41.74	+11 42.3	1.839	2.813	4.6	20.2
3 12	11 32.99	+12 27.9	1.830	2.815	3.2	20.1
3 22	11 24.17	+13 3.8	1.849	2.817	6.0	20.3
4 1	11 16.26	+13 25.4	1.896	2.818	9.5	20.5
4 11	11 10.06	+13 30.6	1.966	2.819	12.8	20.7
4 21	11 6.03	+13 19.2	2.057	2.820	15.6	20.9

498385 2007 XF_{1} 3 12.8 128°.45 4°.1/ 7.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.71	+16 35.9	2.716	3.581	8.7	22.0
2 21	11 47.84	+17 32.9	2.668	3.596	6.3	21.9
3 2	11 40.70	+18 27.0	2.649	3.611	4.4	21.8
3 12	11 32.90	+19 13.1	2.659	3.625	4.3	21.8
3 22	11 25.14	+19 47.0	2.699	3.638	6.1	21.9
4 1	11 18.09	+20 6.0	2.766	3.651	8.4	22.1
4 11	11 12.31	+20 9.3	2.859	3.664	10.6	22.3
4 21	11 8.15	+19 57.7	2.972	3.676	12.5	22.4

211138 2002 GO_{90} 3 12.8 198°.00 2°.2/10.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 57.82	+ 7 29.8	2.066	2.925	11.3	20.9
2 21	11 51.17	+ 8 13.5	1.991	2.922	7.9	20.7
3 2	11 42.67	+ 9 2.5	1.942	2.917	4.3	20.4
3 12	11 33.07	+ 9 50.9	1.923	2.913	2.2	20.3
3 22	11 23.33	+10 32.7	1.934	2.907	5.2	20.5
4 1	11 14.41	+11 2.9	1.973	2.900	8.9	20.7
4 11	11 7.15	+11 18.6	2.038	2.893	12.4	20.9
4 21	11 2.05	+11 18.9	2.124	2.885	15.2	21.1

385265 2001 QC_{205} 3 12.8 209°.65 2°.8/16.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.03	− 8 48.0	2.801	3.602	10.4	22.1
2 21	11 47.49	− 8 44.2	2.708	3.595	8.0	21.9
3 2	11 40.61	− 8 27.1	2.640	3.589	5.4	21.7
3 12	11 32.92	− 7 58.6	2.602	3.581	3.1	21.6
3 22	11 25.06	− 7 21.4	2.593	3.574	3.4	21.6
4 1	11 17.72	− 6 39.4	2.615	3.565	5.8	21.7
4 11	11 11.49	− 5 57.2	2.664	3.557	8.5	21.9
4 21	11 6.82	− 5 18.6	2.738	3.547	11.0	22.0

372593 2009 UH_{138} 3 12.8 206°.80 1°.3/11.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.04	+ 4 45.2	2.474	3.328	9.9	22.4
2 21	11 48.31	+ 5 40.0	2.392	3.321	6.9	22.2
3 2	11 41.08	+ 6 42.0	2.338	3.313	3.6	22.0
3 12	11 32.96	+ 7 46.2	2.313	3.305	1.4	21.8
3 22	11 24.68	+ 8 47.0	2.320	3.296	4.2	22.0
4 1	11 17.01	+ 9 39.4	2.355	3.286	7.5	22.2
4 11	11 10.63	+10 19.5	2.418	3.275	10.6	22.4
4 21	11 5.99	+10 45.4	2.503	3.263	13.2	22.5

257671 1999 VV_{103} 3 12.8 143°.02 0°.1/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.34	+ 0 49.8	1.917	2.767	12.5	21.7
2 21	11 50.13	+ 1 28.3	1.853	2.777	8.9	21.5
3 2	11 42.08	+ 2 18.1	1.813	2.787	4.7	21.2
3 12	11 33.03	+ 3 13.7	1.802	2.796	0.3	20.9
3 22	11 23.93	+ 4 9.0	1.821	2.804	4.1	21.2
4 1	11 15.76	+ 4 57.7	1.868	2.812	8.2	21.5
4 11	11 9.32	+ 5 35.1	1.940	2.819	11.8	21.7
4 21	11 5.06	+ 5 58.7	2.034	2.826	14.8	21.9

235481 2004 BM_{45} 3 12.8 67°.67 1°.2/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.25	+ 3 52.1	1.964	2.827	11.6	20.1
2 21	11 47.17	+ 4 44.9	1.909	2.842	8.1	19.9
3 2	11 40.46	+ 5 46.0	1.880	2.857	4.2	19.7
3 12	11 32.90	+ 6 49.0	1.880	2.872	1.2	19.5
3 22	11 25.35	+ 7 47.6	1.908	2.887	4.5	19.8
4 1	11 18.68	+ 8 36.1	1.964	2.902	8.2	20.1
4 11	11 13.59	+ 9 10.6	2.045	2.918	11.6	20.3
4 21	11 10.47	+ 9 29.6	2.147	2.933	14.3	20.5

62561 2000 SF_{269} 3 12.8 88°.30 2°.7/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.14	+ 6 49.4	1.497	2.370	14.0	18.6
2 21	11 50.93	+ 7 51.7	1.451	2.388	9.7	18.4
3 2	11 42.56	+ 9 1.0	1.430	2.407	5.2	18.2
3 12	11 33.06	+10 8.3	1.435	2.425	2.8	18.1
3 22	11 23.68	+11 5.1	1.468	2.443	6.3	18.4
4 1	11 15.58	+11 45.2	1.528	2.460	10.6	18.6
4 11	11 9.65	+12 5.4	1.610	2.477	14.4	18.9
4 21	11 6.32	+12 5.8	1.711	2.494	17.5	19.2

15676 Almoisheev 3 12.8 129°.26 0°.8/14.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.25	− 2 16.4	3.081	3.908	8.9	19.1
2 21	11 46.71	− 1 52.2	3.015	3.926	6.4	19.0
3 2	11 40.08	− 1 19.5	2.976	3.942	3.7	18.8
3 12	11 32.88	− 0 41.1	2.967	3.959	1.0	18.6
3 22	11 25.68	− 0 0.5	2.989	3.974	2.5	18.7
4 1	11 19.03	+ 0 38.8	3.043	3.990	5.2	19.0
4 11	11 13.44	+ 1 13.5	3.124	4.004	7.8	19.1
4 21	11 9.21	+ 1 41.2	3.230	4.018	9.9	19.3

491254 2011 UZ_{247} 3 12.8 168°.68 1°.1/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.28	+ 3 38.8	1.913	2.769	12.3	23.1
2 21	11 50.84	+ 4 26.3	1.845	2.774	8.6	22.8
3 2	11 42.50	+ 5 23.1	1.802	2.778	4.5	22.6
3 12	11 33.08	+ 6 23.1	1.789	2.781	1.1	22.4
3 22	11 23.56	+ 7 19.4	1.805	2.784	4.7	22.6
4 1	11 14.97	+ 8 6.1	1.849	2.786	8.8	22.9
4 11	11 8.13	+ 8 38.9	1.919	2.787	12.4	23.1
4 21	11 3.53	+ 8 56.0	2.009	2.788	15.4	23.3

68329 2001 HV_{48} 3 12.8 300°.58 10°.4/21.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.71	−22 59.8	1.592	2.349	18.8	18.3
2 21	11 48.46	−23 40.9	1.490	2.324	16.4	18.1
3 2	11 41.65	−23 50.0	1.407	2.300	13.7	17.8
3 12	11 33.03	−23 22.8	1.344	2.276	11.3	17.6
3 22	11 23.75	−22 19.2	1.305	2.252	10.4	17.5
4 1	11 15.19	−20 44.4	1.289	2.228	11.6	17.5
4 11	11 8.63	−18 49.8	1.297	2.204	14.4	17.6
4 21	11 4.94	−16 48.6	1.325	2.181	17.8	17.7

492247 2013 TQ_{140} 3 12.9 163°.68 1°.2/11.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 54.21	+ 4 33.4	2.102	2.961	11.2	22.2
2 21	11 48.55	+ 5 14.9	2.033	2.964	7.8	22.0
3 2	11 41.23	+ 6 4.0	1.991	2.967	4.1	21.7
3 12	11 32.98	+ 6 55.0	1.977	2.969	1.2	21.5
3 22	11 24.64	+ 7 42.5	1.992	2.971	4.4	21.7
4 1	11 17.09	+ 8 21.1	2.036	2.973	8.1	22.0
4 11	11 11.07	+ 8 47.3	2.106	2.975	11.4	22.2
4 21	11 7.04	+ 8 59.4	2.197	2.976	14.3	22.4

345969 2007 TC_{102} 3 12.9 225°.99 0°.8/13.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.23	− 2 51.3	2.473	3.308	10.5	21.7
2 21	11 46.36	− 2 7.4	2.384	3.299	7.7	21.5
3 2	11 40.05	− 1 10.9	2.322	3.290	4.4	21.3
3 12	11 32.89	− 0 5.6	2.289	3.281	1.1	21.0
3 22	11 25.56	+ 1 3.3	2.286	3.271	3.1	21.2
4 1	11 18.80	+ 2 10.3	2.313	3.261	6.6	21.4
4 11	11 13.26	+ 3 10.1	2.366	3.251	9.7	21.6
4 21	11 9.37	+ 3 58.9	2.444	3.240	12.5	21.7

270497 2002 EK_{137} 3 12.9 24°.04 1°.0/12.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.32	+ 2 11.9	1.366	2.242	14.9	20.4
2 21	11 47.06	+ 3 3.3	1.314	2.252	10.4	20.1
3 2	11 40.60	+ 4 8.5	1.284	2.262	5.4	19.9
3 12	11 32.93	+ 5 19.1	1.280	2.273	1.0	19.6
3 22	11 25.24	+ 6 26.0	1.302	2.285	5.3	19.9
4 1	11 18.74	+ 7 20.7	1.349	2.298	10.2	20.2
4 11	11 14.33	+ 7 57.6	1.419	2.312	14.4	20.5
4 21	11 12.49	+ 8 14.7	1.507	2.327	17.9	20.8

82863 2001 QO_{61} 3 12.9 170°.08 2°.0/15.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.61	− 5 24.7	2.560	3.379	10.7	20.0
2 21	11 47.94	− 5 19.1	2.479	3.382	8.0	19.8
3 2	11 40.85	− 5 1.5	2.425	3.384	5.0	19.6
3 12	11 32.96	− 4 34.3	2.399	3.386	2.3	19.4
3 22	11 24.96	− 4 0.7	2.403	3.387	3.1	19.5
4 1	11 17.58	− 3 24.9	2.437	3.389	6.1	19.7
4 11	11 11.44	− 2 51.3	2.499	3.389	9.0	19.8
4 21	11 6.98	− 2 23.4	2.584	3.390	11.6	20.0

140447 2001 TX_{118} 3 12.9 114°.53 4°.1/17.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.76	−12 2.1	2.544	3.330	11.8	20.6
2 21	11 48.74	−12 18.1	2.470	3.343	9.3	20.4
3 2	11 41.28	−12 18.5	2.421	3.356	6.6	20.3
3 12	11 33.01	−12 4.3	2.400	3.368	4.5	20.1
3 22	11 24.66	−11 38.1	2.408	3.380	4.4	20.1
4 1	11 16.99	−11 3.8	2.445	3.392	6.4	20.3
4 11	11 10.63	−10 26.4	2.509	3.403	8.9	20.5
4 21	11 6.01	− 9 50.4	2.598	3.415	11.3	20.6

196550 2003 QP_{5} 3 12.9 214°.37 0°.3/13.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.68	+ 0 28.0	2.803	3.639	9.4	21.0
2 21	11 48.65	+ 0 50.3	2.712	3.629	6.7	20.8
3 2	11 41.24	+ 1 20.8	2.647	3.618	3.7	20.6
3 12	11 33.02	+ 1 56.3	2.614	3.607	0.5	20.3
3 22	11 24.62	+ 2 33.0	2.611	3.595	3.0	20.5
4 1	11 16.75	+ 3 7.2	2.639	3.582	6.2	20.7
4 11	11 10.01	+ 3 35.3	2.695	3.568	9.1	20.8
4 21	11 4.85	+ 3 54.9	2.775	3.554	11.6	21.0

294889 2008 DN_{8} 3 12.9 40°.36 1°.5/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.36	+ 2 38.6	1.459	2.332	14.3	21.2
2 21	11 47.75	+ 3 49.1	1.401	2.338	10.0	20.9
3 2	11 40.98	+ 5 13.3	1.367	2.345	5.2	20.7
3 12	11 32.99	+ 6 42.2	1.359	2.352	1.5	20.4
3 22	11 24.93	+ 8 5.9	1.378	2.359	5.6	20.7
4 1	11 17.98	+ 9 15.5	1.424	2.367	10.3	21.0
4 11	11 13.06	+10 5.0	1.492	2.375	14.5	21.3
4 21	11 10.66	+10 32.4	1.579	2.383	17.9	21.5

50886 2000 GW_{39} 3 12.9 193°.27 0°.3/12.5 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.41	+ 1 59.5	2.506	3.354	10.0	19.9
2 21	11 47.12	+ 2 35.5	2.428	3.353	7.0	19.7
3 2	11 40.44	+ 3 19.8	2.377	3.351	3.7	19.5
3 12	11 32.95	+ 4 8.2	2.355	3.349	0.4	19.2
3 22	11 25.35	+ 4 56.0	2.364	3.346	3.4	19.4
4 1	11 18.37	+ 5 38.6	2.402	3.343	6.8	19.6
4 11	11 12.63	+ 6 12.4	2.466	3.340	9.8	19.8
4 21	11 8.54	+ 6 34.9	2.554	3.336	12.4	20.0

375944 2009 WJ_{126} 3 12.9 245°.56 5°.8/19.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.39	−16 51.6	2.193	2.963	13.9	20.9
2 21	11 48.19	−16 52.8	2.093	2.949	11.4	20.7
3 2	11 41.19	−16 31.4	2.015	2.934	8.7	20.5
3 12	11 33.02	−15 47.5	1.963	2.919	6.4	20.3
3 22	11 24.54	−14 43.9	1.938	2.904	5.9	20.2
4 1	11 16.68	−13 26.4	1.941	2.888	7.7	20.3
4 11	11 10.26	−12 2.6	1.971	2.872	10.6	20.4
4 21	11 5.87	−10 40.3	2.025	2.855	13.5	20.6

298741 2004 GZ_{45} 3 12.9 335°.09 0°.6/13.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 49.98	− 1 20.2	1.846	2.701	12.7	20.6
2 21	11 45.86	− 0 43.3	1.765	2.691	9.1	20.4
3 2	11 39.93	+ 0 8.2	1.709	2.682	5.1	20.1
3 12	11 32.92	+ 1 9.5	1.680	2.673	0.9	19.8
3 22	11 25.70	+ 2 14.0	1.679	2.665	3.9	20.0
4 1	11 19.23	+ 3 14.7	1.705	2.657	8.1	20.3
4 11	11 14.33	+ 4 5.4	1.756	2.650	12.0	20.5
4 21	11 11.53	+ 4 42.0	1.827	2.644	15.3	20.7

194349 2001 UG_{157} 3 12.9 313°.76 3°.4/10.4 18

2 11	11 55.76	+ 8 3.6	1.279	2.162	15.2	19.5
2 21	11 50.61	+ 8 55.3	1.210	2.152	10.7	19.3
3 2	11 42.72	+ 9 55.7	1.165	2.143	5.9	19.0
3 12	11 33.15	+10 55.0	1.144	2.133	3.6	18.8
3 22	11 23.28	+11 43.4	1.149	2.124	7.5	19.0
4 1	11 14.62	+12 13.1	1.178	2.116	12.6	19.2
4 11	11 8.39	+12 19.8	1.228	2.107	17.2	19.5
4 21	11 5.23	+12 3.4	1.295	2.100	21.0	19.7

488830 2005 QJ_{11} 3 12.9 82°.33 4°.7/ 7.4 18

2 11	11 58.13	+ 0 21.5	1.300	2.165	16.3	19.6
2 21	11 52.04	+ 5 15.1	1.248	2.185	11.0	19.4
3 2	11 43.35	+10 33.9	1.228	2.205	5.8	19.1
3 12	11 33.20	+15 48.5	1.244	2.224	5.6	19.2
3 22	11 22.99	+20 29.4	1.295	2.244	10.2	19.5
4 1	11 14.16	+24 17.4	1.376	2.263	15.0	19.8
4 11	11 7.82	+27 6.7	1.482	2.282	18.9	20.1
4 21	11 4.48	+29 2.0	1.606	2.301	21.8	20.4

404047 2012 DB_{8} 3 12.9 73°.14 1°.2/11.8 18

2 11	11 55.35	+ 2 11.0	1.469	2.336	14.6	20.8
2 21	11 49.69	+ 3 18.5	1.425	2.359	10.1	20.6
3 2	11 41.92	+ 4 38.3	1.405	2.382	5.2	20.4
3 12	11 33.08	+ 6 1.7	1.412	2.405	1.2	20.1
3 22	11 24.37	+ 7 19.1	1.446	2.427	5.3	20.5
4 1	11 16.92	+ 8 22.5	1.507	2.450	9.9	20.8
4 11	11 11.59	+ 9 7.1	1.591	2.472	13.8	21.1
4 21	11 8.78	+ 9 31.2	1.695	2.494	17.0	21.3

2782 Leonidas 3 12.9 223°.66 0°.6/12.3 18

2 11	11 54.70	+ 2 47.4	2.344	3.193	10.5	18.7
2 21	11 48.88	+ 3 21.1	2.257	3.183	7.4	18.5
3 2	11 41.45	+ 4 3.2	2.197	3.172	3.9	18.3
3 12	11 33.06	+ 4 49.3	2.167	3.160	0.6	18.0
3 22	11 24.46	+ 5 34.5	2.167	3.148	3.8	18.2
4 1	11 16.50	+ 6 13.9	2.196	3.136	7.4	18.4
4 11	11 9.90	+ 6 43.5	2.252	3.123	10.7	18.6
4 21	11 5.14	+ 7 1.2	2.330	3.109	13.5	18.8

208373 2001 SR_{33} 3 12.9 146°.33 1°.0/11.5 18

2 11	11 53.31	+ 5 26.9	2.955	3.805	8.6	21.2
2 21	11 47.51	+ 5 57.4	2.889	3.816	6.0	21.1
3 2	11 40.55	+ 6 32.2	2.852	3.827	3.1	20.9
3 12	11 32.98	+ 7 7.6	2.845	3.837	1.0	20.7
3 22	11 25.38	+ 7 40.1	2.869	3.846	3.3	20.9
4 1	11 18.38	+ 8 6.3	2.923	3.855	6.1	21.1
4 11	11 12.48	+ 8 24.0	3.004	3.863	8.7	21.3
4 21	11 8.04	+ 8 31.9	3.109	3.871	10.8	21.5

375725 2009 QD_{44} 3 12.9 229°.30 0°.6/13.4 17

2 11	11 58.81	+ 0 43.6	1.968	2.812	12.5	21.4
2 21	11 52.02	+ 0 41.7	1.884	2.805	9.0	21.1
3 2	11 43.23	+ 0 49.4	1.826	2.797	5.0	20.9
3 12	11 33.20	+ 1 3.4	1.796	2.789	0.9	20.5
3 22	11 22.94	+ 1 19.8	1.796	2.781	3.9	20.8
4 1	11 13.49	+ 1 34.0	1.824	2.772	8.1	21.0
4 11	11 5.76	+ 1 42.0	1.879	2.763	11.9	21.2
4 21	11 0.31	+ 1 41.1	1.955	2.754	15.1	21.4

406471 2007 UE_{61} 3 12.9 140°.52 0°.2/13.1 18

2 11	11 56.54	− 0 23.4	1.914	2.759	12.7	22.3
2 21	11 50.29	+ 0 17.7	1.849	2.771	9.0	22.1
3 2	11 42.20	+ 1 11.3	1.811	2.783	4.9	21.8
3 12	11 33.12	+ 2 12.1	1.800	2.794	0.5	21.5
3 22	11 23.99	+ 3 13.3	1.819	2.804	3.9	21.8
4 1	11 15.81	+ 4 8.8	1.867	2.813	8.1	22.1
4 11	11 9.36	+ 4 53.1	1.941	2.822	11.7	22.3
4 21	11 5.10	+ 5 23.5	2.036	2.830	14.7	22.5

384791 2012 QV_{13} 3 12.9 145°.82 3°.9/ 7.4 17

2 11	11 51.76	+14 48.7	2.681	3.550	8.7	21.3
2 21	11 46.57	+16 4.0	2.628	3.559	6.2	21.1
3 2	11 40.11	+17 18.4	2.602	3.567	4.2	21.0
3 12	11 32.95	+18 26.0	2.606	3.575	4.2	21.0
3 22	11 25.76	+19 21.6	2.640	3.582	6.0	21.2
4 1	11 19.22	+20 1.9	2.702	3.590	8.5	21.3
4 11	11 13.88	+20 25.3	2.789	3.596	10.8	21.5
4 21	11 10.12	+20 32.0	2.896	3.603	12.7	21.6

361613 2007 TZ_{44} 3 12.9 81°.34 3°.1/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 57.93	+ 8 28.5	1.473	2.348	14.1	20.4
2 21	11 51.60	+ 9 15.9	1.423	2.361	9.8	20.2
3 2	11 42.99	+10 8.3	1.397	2.374	5.4	19.9
3 12	11 33.18	+10 57.4	1.398	2.386	3.2	19.8
3 22	11 23.43	+11 35.5	1.426	2.399	6.6	20.1
4 1	11 14.98	+11 57.2	1.480	2.412	10.9	20.3
4 11	11 8.77	+12 0.0	1.556	2.425	14.8	20.6
4 21	11 5.26	+11 44.4	1.652	2.437	18.0	20.9

264634 2001 WS_{54} 3 12.9 147°.62 2°.6/15.5 18

2 11	11 54.09	− 7 11.4	2.045	2.867	12.9	21.2
2 21	11 48.55	− 6 47.9	1.971	2.874	9.7	21.0
3 2	11 41.29	− 6 7.2	1.921	2.880	6.1	20.8
3 12	11 33.05	− 5 12.7	1.899	2.886	3.0	20.6
3 22	11 24.71	− 4 9.7	1.906	2.891	3.7	20.7
4 1	11 17.17	− 3 4.6	1.942	2.896	7.2	20.9
4 11	11 11.19	− 2 4.1	2.004	2.901	10.6	21.1
4 21	11 7.25	− 1 13.0	2.089	2.905	13.7	21.3

119405 2001 TU_{64} 3 12.9 212°.00 0°.5/13.4 17

2 11	11 53.70	− 1 28.6	2.094	2.937	11.9	20.9
2 21	11 48.31	− 0 46.0	2.011	2.931	8.5	20.6
3 2	11 41.20	+ 0 10.0	1.954	2.925	4.7	20.4
3 12	11 33.05	+ 1 14.7	1.926	2.919	0.8	20.1
3 22	11 24.72	+ 2 22.2	1.927	2.912	3.6	20.3
4 1	11 17.09	+ 3 25.9	1.957	2.905	7.6	20.5
4 11	11 10.96	+ 4 20.1	2.013	2.897	11.2	20.7
4 21	11 6.82	+ 5 1.1	2.091	2.888	14.3	20.9

169194 2001 RX_{44} 3 12.9 177°.21 3°.1/16.9 18

2 11	11 51.19	−10 53.8	2.682	3.478	11.0	20.8
2 21	11 46.24	−10 30.7	2.597	3.479	8.5	20.7
3 2	11 39.97	− 9 51.9	2.536	3.480	5.8	20.5
3 12	11 32.95	− 8 59.4	2.504	3.481	3.5	20.3
3 22	11 25.82	− 7 57.2	2.502	3.482	3.5	20.3
4 1	11 19.26	− 6 50.1	2.529	3.482	5.8	20.5
4 11	11 13.84	− 5 43.7	2.584	3.481	8.5	20.7
4 21	11 9.99	− 4 42.7	2.664	3.480	11.0	20.8

95297 2002 CW_{91} 3 12.9 328°.38 0°.3/12.6 17

2 11	11 53.78	+ 2 12.5	1.621	2.486	13.6	19.9
2 21	11 48.76	+ 2 35.8	1.546	2.478	9.7	19.6
3 2	11 41.58	+ 3 10.6	1.494	2.470	5.2	19.4
3 12	11 33.09	+ 3 51.7	1.468	2.462	0.5	19.0
3 22	11 24.37	+ 4 32.6	1.470	2.455	4.7	19.3
4 1	11 16.56	+ 5 6.7	1.498	2.448	9.3	19.5
4 11	11 10.65	+ 5 28.9	1.550	2.441	13.5	19.8
4 21	11 7.21	+ 5 36.3	1.622	2.435	17.1	20.0

159337 2006 DQ_{163} 3 12.9 148°.80 0°.2/13.1 18

2 11	11 52.86	− 0 27.7	2.192	3.038	11.3	20.6
2 21	11 47.58	+ 0 14.9	2.121	3.043	8.1	20.4
3 2	11 40.73	+ 1 8.8	2.077	3.049	4.4	20.2
3 12	11 33.01	+ 2 9.4	2.061	3.054	0.5	19.9
3 22	11 25.22	+ 3 10.8	2.074	3.059	3.5	20.1
4 1	11 18.16	+ 4 7.4	2.117	3.063	7.2	20.4
4 11	11 12.53	+ 4 54.4	2.186	3.067	10.6	20.6
4 21	11 8.76	+ 5 28.7	2.277	3.071	13.4	20.8

262528 2006 UK_{328} 3 12.9 163°.24 1°.4/14.1 16

2 11	11 54.43	− 3 14.4	1.785	2.629	13.6	21.6
2 21	11 49.00	− 2 44.4	1.712	2.631	9.9	21.4
3 2	11 41.62	− 1 58.3	1.664	2.632	5.7	21.2
3 12	11 33.09	− 1 0.7	1.642	2.634	1.7	20.9
3 22	11 24.42	+ 0 2.0	1.649	2.635	3.9	21.0
4 1	11 16.64	+ 1 2.6	1.683	2.636	8.2	21.3
4 11	11 10.62	+ 1 54.5	1.743	2.637	12.1	21.5
4 21	11 6.89	+ 2 33.4	1.824	2.638	15.5	21.8

303318 2004 TL_{75} 3 12.9 166°.69 3°.1/10.2 18

2 11	11 59.12	+ 9 18.1	1.780	2.646	12.5	21.2
2 21	11 52.26	+10 6.1	1.717	2.650	8.8	21.0
3 2	11 43.33	+10 58.2	1.680	2.654	4.9	20.8
3 12	11 33.23	+11 46.9	1.671	2.658	3.2	20.7
3 22	11 23.07	+12 25.5	1.691	2.661	6.2	20.8
4 1	11 13.96	+12 49.1	1.738	2.663	10.1	21.1
4 11	11 6.80	+12 55.1	1.810	2.664	13.7	21.3
4 21	11 2.10	+12 43.8	1.901	2.665	16.7	21.5

105191 2000 ON_{35} 3 12.9 191°.39 0°.6/12.3 18

2 11	11 57.91	+ 2 35.9	1.986	2.836	12.1	20.6
2 21	11 51.33	+ 3 11.3	1.909	2.835	8.6	20.4
3 2	11 42.83	+ 3 56.4	1.859	2.833	4.5	20.1
3 12	11 33.20	+ 4 46.1	1.837	2.830	0.6	19.8
3 22	11 23.41	+ 5 34.3	1.845	2.826	4.3	20.1
4 1	11 14.46	+ 6 15.3	1.881	2.822	8.4	20.3
4 11	11 7.21	+ 6 44.8	1.944	2.816	12.1	20.5
4 21	11 2.17	+ 7 0.5	2.028	2.810	15.2	20.7

160800 2000 UF_{71} 3 12.9 170°.58 0°.6/13.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 57.09	− 1 19.2	2.055	2.893	12.2	21.3
2 21	11 50.66	− 0 45.7	1.981	2.898	8.8	21.1
3 2	11 42.43	+ 0 0.6	1.932	2.902	4.9	20.9
3 12	11 33.18	+ 0 54.9	1.913	2.906	0.9	20.6
3 22	11 23.81	+ 1 51.5	1.923	2.908	3.7	20.8
4 1	11 15.27	+ 2 44.5	1.963	2.910	7.7	21.0
4 11	11 8.36	+ 3 28.5	2.029	2.911	11.3	21.3
4 21	11 3.57	+ 4 0.3	2.118	2.911	14.3	21.5

146395 2001 QX_{143} 3 12.9 357°.63 0°.3/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.96	− 0 16.1	1.480	2.344	14.7	19.9
2 21	11 48.27	+ 0 18.7	1.412	2.343	10.5	19.7
3 2	11 41.34	+ 1 9.3	1.367	2.342	5.7	19.4
3 12	11 33.09	+ 2 9.7	1.347	2.341	0.7	19.0
3 22	11 24.66	+ 3 12.0	1.355	2.341	4.6	19.3
4 1	11 17.27	+ 4 7.8	1.388	2.341	9.6	19.6
4 11	11 11.90	+ 4 50.5	1.444	2.342	13.9	19.8
4 21	11 9.10	+ 5 16.2	1.520	2.343	17.6	20.1

116831 2004 FA_{31} 3 12.9 235°.86 0°.9/14.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.65	− 6 11.0	2.033	2.863	12.7	19.4
2 21	11 46.96	− 4 30.7	1.942	2.854	9.3	19.1
3 2	11 40.52	− 2 28.0	1.877	2.844	5.3	18.9
3 12	11 33.03	− 0 9.5	1.841	2.834	1.3	18.6
3 22	11 25.30	+ 2 15.2	1.838	2.823	3.7	18.7
4 1	11 18.26	+ 4 35.4	1.864	2.812	7.9	19.0
4 11	11 12.70	+ 6 41.6	1.919	2.801	11.8	19.2
4 21	11 9.13	+ 8 27.7	1.997	2.789	15.1	19.4

380572 2004 RW_{93} 3 12.9 232°.65 1°.1/14.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.63	− 4 28.3	2.411	3.239	11.0	22.7
2 21	11 47.46	− 3 36.6	2.314	3.224	8.1	22.4
3 2	11 40.73	− 2 29.8	2.243	3.209	4.7	22.2
3 12	11 33.05	− 1 11.8	2.201	3.192	1.4	21.9
3 22	11 25.13	+ 0 11.7	2.190	3.176	3.2	22.0
4 1	11 17.76	+ 1 34.3	2.209	3.158	6.8	22.2
4 11	11 11.65	+ 2 49.8	2.256	3.140	10.2	22.4
4 21	11 7.29	+ 3 53.7	2.326	3.121	13.1	22.6

522576 2016 EG_{245} 3 12.9 233°.85 2°.6/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.62	+ 6 7.3	1.943	2.812	11.5	21.0
2 21	11 46.95	+ 7 37.4	1.871	2.807	7.9	20.8
3 2	11 40.51	+ 9 16.8	1.826	2.802	4.3	20.5
3 12	11 33.03	+10 57.2	1.809	2.797	2.7	20.4
3 22	11 25.38	+12 30.0	1.822	2.792	5.8	20.6
4 1	11 18.49	+13 47.7	1.862	2.786	9.6	20.8
4 11	11 13.16	+14 45.6	1.927	2.780	13.0	21.0
4 21	11 9.89	+15 21.9	2.012	2.775	15.9	21.2

351586 2005 UT_{456} 3 12.9 141°.35 4°.1/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 59.29	+11 7.8	1.654	2.525	13.0	21.3
2 21	11 52.44	+12 16.8	1.601	2.536	9.2	21.1
3 2	11 43.43	+13 28.2	1.574	2.547	5.4	20.9
3 12	11 33.26	+14 32.9	1.575	2.557	4.4	20.8
3 22	11 23.11	+15 23.2	1.605	2.567	7.3	21.0
4 1	11 14.16	+15 53.6	1.660	2.575	11.1	21.2
4 11	11 7.31	+16 2.5	1.739	2.583	14.6	21.5
4 21	11 3.03	+15 51.1	1.837	2.590	17.5	21.7

268296 2005 QG_{86} 3 12.9 127°.93 0°.3/13.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.47	+ 0 23.9	2.207	3.049	11.4	21.5
2 21	11 50.03	+ 0 48.1	2.144	3.064	8.1	21.4
3 2	11 42.01	+ 1 22.0	2.108	3.079	4.4	21.1
3 12	11 33.15	+ 2 1.2	2.101	3.094	0.5	20.9
3 22	11 24.29	+ 2 41.0	2.124	3.108	3.5	21.1
4 1	11 16.27	+ 3 16.7	2.176	3.121	7.1	21.4
4 11	11 9.77	+ 3 44.4	2.255	3.134	10.4	21.6
4 21	11 5.23	+ 4 1.6	2.357	3.146	13.1	21.8

277954 2006 SB_{33} 3 12.9 240°.02 1°.3/14.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.77	− 5 4.9	2.745	3.568	10.0	22.1
2 21	11 46.00	− 4 19.5	2.646	3.552	7.4	21.9
3 2	11 39.90	− 3 20.6	2.573	3.536	4.4	21.7
3 12	11 32.99	− 2 11.7	2.530	3.520	1.6	21.5
3 22	11 25.89	− 0 57.3	2.517	3.503	2.8	21.5
4 1	11 19.26	+ 0 17.3	2.535	3.485	6.0	21.7
4 11	11 13.71	+ 1 26.7	2.581	3.467	9.0	21.9
4 21	11 9.66	+ 2 27.0	2.651	3.449	11.6	22.0

303400 2004 XC_{109} 3 12.9 125°.50 4°.4/16.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.08	−10 58.3	1.650	2.464	15.9	20.8
2 21	11 50.30	−10 48.2	1.581	2.474	12.3	20.6
3 2	11 42.37	−10 14.2	1.534	2.483	8.4	20.4
3 12	11 33.20	− 9 18.9	1.513	2.492	5.0	20.2
3 22	11 23.92	− 8 8.4	1.519	2.500	5.1	20.2
4 1	11 15.66	− 6 50.9	1.552	2.508	8.4	20.4
4 11	11 9.39	− 5 35.6	1.611	2.516	12.3	20.7
4 21	11 5.62	− 4 29.8	1.691	2.523	15.7	20.9

458740 2011 QF_{27} 3 12.9 150°.95 0°.2/12.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 58.65	+ 1 4.7	1.915	2.761	12.7	21.9
2 21	11 51.80	+ 1 41.5	1.849	2.772	9.0	21.7
3 2	11 43.05	+ 2 29.3	1.810	2.783	4.8	21.4
3 12	11 33.26	+ 3 22.7	1.799	2.792	0.4	21.1
3 22	11 23.42	+ 4 15.4	1.818	2.801	4.1	21.4
4 1	11 14.56	+ 5 1.5	1.866	2.809	8.3	21.7
4 11	11 7.48	+ 5 36.4	1.939	2.816	11.9	21.9
4 21	11 2.68	+ 5 57.5	2.035	2.822	15.0	22.1

372578 Khromov 3 12.9 165°.05 3°.7/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.29	+11 57.9	1.973	2.844	11.2	20.6
2 21	11 49.45	+12 51.4	1.911	2.846	7.9	20.4
3 2	11 41.81	+13 46.3	1.875	2.847	4.8	20.2
3 12	11 33.16	+14 35.6	1.868	2.849	3.9	20.2
3 22	11 24.44	+15 13.2	1.889	2.850	6.5	20.3
4 1	11 16.62	+15 34.8	1.937	2.851	9.8	20.6
4 11	11 10.48	+15 38.5	2.008	2.852	13.0	20.8
4 21	11 6.48	+15 24.8	2.100	2.852	15.7	20.9

205468 2001 QJ_{112} 3 12.9 278°.63 4°.2/17.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.46	−11 29.4	2.193	2.994	12.9	20.0
2 21	11 47.43	−11 31.8	2.108	2.991	10.2	19.9
3 2	11 40.75	−11 15.9	2.046	2.988	7.2	19.7
3 12	11 33.08	−10 43.2	2.011	2.985	4.6	19.5
3 22	11 25.22	− 9 57.1	2.005	2.982	4.5	19.5
4 1	11 18.02	− 9 2.9	2.026	2.979	7.0	19.6
4 11	11 12.25	− 8 6.9	2.074	2.976	10.1	19.8
4 21	11 8.39	− 7 14.9	2.145	2.973	12.9	20.0

60890 2000 JK_{17} 3 12.9 272°.79 3°.3/10.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.05	+ 7 34.2	1.486	2.362	13.9	19.7
2 21	11 50.70	+ 8 40.9	1.405	2.344	9.8	19.4
3 2	11 42.80	+ 9 57.9	1.348	2.325	5.4	19.1
3 12	11 33.26	+11 15.8	1.317	2.305	3.4	18.9
3 22	11 23.29	+12 24.7	1.313	2.286	7.2	19.1
4 1	11 14.25	+13 15.9	1.335	2.266	12.0	19.3
4 11	11 7.34	+13 44.2	1.379	2.246	16.4	19.5
4 21	11 3.25	+13 48.5	1.441	2.226	20.2	19.7

330041 2005 UX_{281} 3 12.9 245°.59 2°.5/10.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.85	+ 7 44.9	1.829	2.699	12.1	21.7
2 21	11 49.30	+ 8 32.9	1.759	2.695	8.4	21.5
3 2	11 41.80	+ 9 26.9	1.715	2.691	4.6	21.2
3 12	11 33.17	+10 20.0	1.698	2.687	2.6	21.1
3 22	11 24.39	+11 5.5	1.710	2.683	5.7	21.3
4 1	11 16.49	+11 37.8	1.748	2.679	9.7	21.5
4 11	11 10.35	+11 53.5	1.811	2.675	13.3	21.7
4 21	11 6.47	+11 51.9	1.894	2.670	16.3	21.9

252931 2002 OV_{10} 3 12.9 230°.71 0°.7/13.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.62	− 2 10.9	2.039	2.880	12.3	22.1
2 21	11 49.09	− 1 25.9	1.949	2.867	8.9	21.8
3 2	11 41.71	− 0 25.8	1.884	2.854	5.0	21.6
3 12	11 33.17	+ 0 44.7	1.847	2.840	1.0	21.3
3 22	11 24.36	+ 1 59.2	1.840	2.825	3.7	21.4
4 1	11 16.23	+ 3 10.6	1.862	2.810	7.9	21.7
4 11	11 9.63	+ 4 12.6	1.910	2.794	11.7	21.9
4 21	11 5.12	+ 5 0.7	1.981	2.778	15.0	22.0

226730 2004 PB_{93} 3 12.9 136°.81 5°.6/ 5.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.65	+19 42.5	2.410	3.277	9.6	21.0
2 21	11 48.73	+21 14.9	2.368	3.292	7.3	20.9
3 2	11 41.32	+22 42.0	2.355	3.306	5.7	20.8
3 12	11 33.13	+23 56.6	2.370	3.319	6.1	20.9
3 22	11 24.95	+24 53.3	2.415	3.331	7.9	21.0
4 1	11 17.57	+25 28.8	2.486	3.343	10.2	21.2
4 11	11 11.64	+25 42.9	2.579	3.354	12.4	21.3
4 21	11 7.56	+25 37.3	2.692	3.365	14.2	21.5

423474 2005 SS_{243} 3 12.9 85°.10 4°.1/16.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 59.35	− 9 22.3	1.877	2.685	14.5	20.6
2 21	11 52.24	− 9 39.6	1.822	2.712	11.1	20.5
3 2	11 43.26	− 9 38.2	1.790	2.738	7.5	20.3
3 12	11 33.29	− 9 20.2	1.786	2.764	4.5	20.2
3 22	11 23.39	− 8 49.5	1.810	2.789	4.7	20.2
4 1	11 14.56	− 8 11.7	1.863	2.814	7.7	20.4
4 11	11 7.63	− 7 33.4	1.942	2.839	10.9	20.7
4 21	11 3.01	− 6 59.7	2.043	2.863	13.8	20.9

159890 2004 TP_{15} 3 12.9 247°.00 1°.1/13.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.24	− 2 8.9	1.772	2.615	13.7	21.2
2 21	11 51.25	− 1 42.9	1.679	2.597	10.0	20.9
3 2	11 43.00	− 1 1.0	1.610	2.579	5.8	20.7
3 12	11 33.29	− 0 7.2	1.568	2.560	1.4	20.3
3 22	11 23.16	+ 0 52.2	1.555	2.541	4.2	20.5
4 1	11 13.78	+ 1 50.0	1.570	2.520	8.9	20.7
4 11	11 6.20	+ 2 39.1	1.610	2.499	13.2	20.9
4 21	11 1.11	+ 3 14.9	1.672	2.478	16.9	21.1

391269 2006 SN_{82} 3 12.9 169°.14 2°.2/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 55.19	+ 9 49.4	2.648	3.506	9.2	21.4
2 21	11 49.00	+10 15.1	2.579	3.509	6.4	21.2
3 2	11 41.45	+10 42.4	2.538	3.511	3.6	21.0
3 12	11 33.16	+11 7.2	2.526	3.513	2.2	20.9
3 22	11 24.81	+11 25.8	2.546	3.515	4.4	21.0
4 1	11 17.14	+11 35.2	2.594	3.517	7.3	21.2
4 11	11 10.74	+11 33.7	2.670	3.518	10.0	21.4
4 21	11 6.00	+11 20.9	2.767	3.519	12.3	21.6

400585 2008 YQ_{119} 3 12.9 66°.38 2°.5/11.0 18

2 11	11 57.22	+ 5 56.6	1.310	2.188	15.3	21.1
2 21	11 51.28	+ 6 50.2	1.265	2.204	10.6	20.9
3 2	11 42.92	+ 7 52.6	1.242	2.220	5.6	20.7
3 12	11 33.28	+ 8 54.5	1.245	2.236	2.5	20.5
3 22	11 23.74	+ 9 46.8	1.275	2.253	6.5	20.8
4 1	11 15.62	+10 22.6	1.330	2.269	11.2	21.1
4 11	11 9.91	+10 38.2	1.406	2.286	15.4	21.4
4 21	11 7.03	+10 33.7	1.501	2.303	18.8	21.7

518142 2016 EJ_{224} 3 12.9 229°.36 4°.6/ 7.8 17

2 11	11 55.06	+15 40.7	2.226	3.095	10.2	21.8
2 21	11 49.23	+16 40.3	2.156	3.087	7.4	21.7
3 2	11 41.70	+17 38.7	2.114	3.078	5.1	21.5
3 12	11 33.19	+18 29.1	2.100	3.070	4.9	21.5
3 22	11 24.54	+19 5.8	2.114	3.060	7.1	21.6
4 1	11 16.64	+19 25.0	2.156	3.051	10.0	21.7
4 11	11 10.26	+19 25.3	2.222	3.041	12.8	21.9
4 21	11 5.86	+19 7.5	2.307	3.031	15.2	22.1

117247 2004 SO_{33} 3 12.9 195°.26 3°.7/ 9.6 18 R

2 11	11 59.09	+10 55.8	1.778	2.646	12.4	20.2
2 21	11 52.35	+11 49.6	1.710	2.644	8.8	20.0
3 2	11 43.46	+12 46.2	1.668	2.642	5.1	19.7
3 12	11 33.33	+13 38.0	1.655	2.638	3.9	19.7
3 22	11 23.07	+14 17.8	1.670	2.634	6.8	19.8
4 1	11 13.81	+14 40.5	1.712	2.630	10.7	20.0
4 11	11 6.50	+14 44.0	1.777	2.625	14.2	20.3
4 21	11 1.68	+14 28.7	1.863	2.619	17.2	20.5

84716 2002 VK_{127} 3 12.9 27°.65 2°.2/10.8 18

2 11	11 54.75	+ 8 23.8	2.066	2.932	11.0	19.4
2 21	11 49.01	+ 8 52.3	1.999	2.933	7.7	19.2
3 2	11 41.57	+ 9 24.5	1.959	2.935	4.2	19.0
3 12	11 33.18	+ 9 55.0	1.947	2.936	2.2	18.8
3 22	11 24.72	+10 19.0	1.964	2.938	5.0	19.0
4 1	11 17.09	+10 32.4	2.008	2.939	8.6	19.2
4 11	11 11.03	+10 32.8	2.078	2.941	11.8	19.4
4 21	11 7.00	+10 19.7	2.169	2.943	14.6	19.6

113464 2002 SO_{53} 3 12.9 235°.53 3°.4/ 9.2 17

2 11	11 55.69	+10 16.5	2.098	2.964	10.9	20.3
2 21	11 49.83	+11 28.0	2.015	2.948	7.7	20.1
3 2	11 42.11	+12 44.5	1.959	2.932	4.5	19.9
3 12	11 33.23	+13 58.4	1.933	2.915	3.6	19.8
3 22	11 24.08	+15 2.6	1.936	2.897	6.3	19.9
4 1	11 15.64	+15 51.2	1.967	2.879	9.9	20.1
4 11	11 8.74	+16 20.8	2.022	2.859	13.2	20.3
4 21	11 3.94	+16 30.8	2.098	2.839	16.0	20.4

459295 2012 GP_{16} 3 12.9 314°.29 1°.3/11.9 17

2 11	11 56.53	+ 5 6.7	1.516	2.386	14.1	20.8
2 21	11 50.93	+ 5 21.0	1.437	2.372	10.0	20.5
3 2	11 42.88	+ 5 43.9	1.382	2.359	5.3	20.2
3 12	11 33.30	+ 6 9.6	1.353	2.345	1.3	19.9
3 22	11 23.38	+ 6 31.8	1.350	2.332	5.4	20.1
4 1	11 14.45	+ 6 44.7	1.374	2.320	10.3	20.4
4 11	11 7.61	+ 6 44.1	1.421	2.308	14.8	20.6
4 21	11 3.52	+ 6 28.3	1.487	2.296	18.5	20.8

87927 2000 SN_{321} 3 12.9 171°.57 0°.3/13.2 17

2 11	11 53.93	− 0 28.6	2.054	2.901	11.9	21.0
2 21	11 48.47	+ 0 8.6	1.980	2.903	8.5	20.8
3 2	11 41.31	+ 0 57.8	1.932	2.904	4.7	20.5
3 12	11 33.16	+ 1 54.3	1.912	2.906	0.6	20.2
3 22	11 24.90	+ 2 52.3	1.922	2.907	3.7	20.5
4 1	11 17.41	+ 3 45.7	1.960	2.907	7.6	20.7
4 11	11 11.46	+ 4 29.5	2.024	2.908	11.2	20.9
4 21	11 7.52	+ 5 0.4	2.110	2.908	14.2	21.1

377339 2004 PG_{84} 3 12.9 243°.18 6°.5/19.1 17

2 11	11 56.03	−17 31.1	2.194	2.955	14.2	21.0
2 21	11 50.15	−18 0.8	2.094	2.942	11.8	20.8
3 2	11 42.34	−18 9.3	2.017	2.928	9.2	20.6
3 12	11 33.26	−17 55.8	1.966	2.914	7.1	20.4
3 22	11 23.81	−17 21.7	1.941	2.899	6.6	20.4
4 1	11 14.96	−16 31.3	1.945	2.884	8.3	20.4
4 11	11 7.61	−15 31.3	1.975	2.869	10.9	20.5
4 21	11 2.39	−14 29.2	2.028	2.853	13.7	20.7

210276 2007 TU_{12} 3 12.9 232°.49 0°.7/12.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 56.45	+ 2 15.2	1.869	2.723	12.6	21.1
2 21	11 50.53	+ 3 1.7	1.783	2.710	8.9	20.8
3 2	11 42.55	+ 4 0.1	1.722	2.697	4.7	20.5
3 12	11 33.28	+ 5 4.8	1.690	2.683	0.8	20.2
3 22	11 23.70	+ 6 8.5	1.686	2.668	4.6	20.5
4 1	11 14.90	+ 7 4.4	1.711	2.652	9.0	20.7
4 11	11 7.82	+ 7 46.8	1.761	2.636	13.0	20.9
4 21	11 3.05	+ 8 12.8	1.832	2.619	16.4	21.1

418356 2008 GV_{100} 3 12.9 338°.78 2°.3/11.0 17

2 11	11 53.87	+ 6 0.8	1.494	2.371	13.8	20.9
2 21	11 48.95	+ 6 48.3	1.427	2.366	9.7	20.7
3 2	11 41.76	+ 7 45.1	1.383	2.361	5.1	20.4
3 12	11 33.21	+ 8 43.4	1.366	2.357	2.3	20.2
3 22	11 24.48	+ 9 34.8	1.375	2.353	6.1	20.4
4 1	11 16.79	+10 12.3	1.410	2.350	10.7	20.7
4 11	11 11.15	+10 31.3	1.467	2.347	14.9	20.9
4 21	11 8.11	+10 30.8	1.543	2.344	18.4	21.1

105630 2000 SZ_5 3 12.9 191°.76 7°.2/ 2.2 18

2 11	11 51.90	+25 38.8	2.432	3.297	9.6	19.1
2 21	11 46.96	+27 23.1	2.387	3.297	7.9	18.9
3 2	11 40.47	+28 58.7	2.369	3.296	7.2	18.9
3 12	11 33.10	+30 18.0	2.379	3.295	7.9	18.9
3 22	11 25.65	+31 15.6	2.416	3.294	9.5	19.0
4 1	11 18.92	+31 48.5	2.477	3.293	11.6	19.2
4 11	11 13.60	+31 57.0	2.559	3.292	13.5	19.3
4 21	11 10.12	+31 43.3	2.658	3.291	15.2	19.4

396967 2005 RZ_{51} 3 12.9 264°.68 1°.4/14.0 17

2 11	11 58.94	− 3 8.3	1.669	2.509	14.5	23.0
2 21	11 52.77	− 2 41.4	1.562	2.479	10.8	22.7
3 2	11 44.02	− 1 55.7	1.480	2.448	6.4	22.4
3 12	11 33.43	− 0 54.7	1.424	2.416	1.8	22.0
3 22	11 22.12	+ 0 15.1	1.397	2.383	4.5	22.1
4 1	11 11.45	+ 1 25.3	1.397	2.348	9.7	22.3
4 11	11 2.67	+ 2 27.3	1.423	2.313	14.6	22.5
4 21	10 56.62	+ 3 14.8	1.469	2.276	18.8	22.7

402900 2007 TL_{20} 3 12.9 218°.26 1°.5/11.4 17

2 11	11 57.34	+ 4 54.2	1.979	2.835	11.9	22.1
2 21	11 51.04	+ 5 42.1	1.896	2.826	8.3	21.8
3 2	11 42.78	+ 6 38.6	1.840	2.815	4.4	21.6
3 12	11 33.31	+ 7 37.8	1.812	2.804	1.6	21.3
3 22	11 23.59	+ 8 33.1	1.815	2.792	4.9	21.5
4 1	11 14.65	+ 9 18.2	1.845	2.779	9.0	21.8
4 11	11 7.38	+ 9 49.0	1.901	2.765	12.7	22.0
4 21	11 2.34	+10 3.5	1.978	2.751	15.8	22.1

373849 2003 GD_{39} 3 12.9 335°.81 1°.6/11.6 17

2 11	11 52.96	+ 4 37.1	1.466	2.342	14.1	20.8
2 21	11 48.38	+ 5 17.4	1.394	2.333	9.9	20.5
3 2	11 41.50	+ 6 8.7	1.346	2.324	5.2	20.2
3 12	11 33.21	+ 7 3.8	1.323	2.316	1.7	19.9
3 22	11 24.67	+ 7 54.5	1.327	2.308	5.7	20.2
4 1	11 17.14	+ 8 33.3	1.356	2.302	10.5	20.4
4 11	11 11.65	+ 8 55.0	1.408	2.295	14.9	20.7
4 21	11 8.80	+ 8 57.8	1.479	2.290	18.5	20.9

374982 2007 ER_{36} 3 12.9 330°.08 5°.4/ 7.9 17

2 11	11 52.15	+12 53.8	1.493	2.380	13.1	19.7
2 21	11 47.81	+14 15.2	1.427	2.368	9.4	19.5
3 2	11 41.18	+15 39.8	1.385	2.357	6.1	19.2
3 12	11 33.18	+16 57.1	1.369	2.347	5.7	19.2
3 22	11 24.95	+17 57.4	1.380	2.337	8.8	19.3
4 1	11 17.73	+18 33.7	1.414	2.328	12.8	19.5
4 11	11 12.54	+18 43.4	1.469	2.319	16.5	19.7
4 21	11 9.96	+18 27.5	1.542	2.311	19.7	19.9

434977 2006 UT_{123} 3 12.9 263°.36 0°.9/13.9 17

2 11	11 51.12	− 2 30.7	2.368	3.207	10.8	21.9
2 21	11 46.41	− 1 56.5	2.278	3.195	7.9	21.7
3 2	11 40.21	− 1 9.8	2.214	3.183	4.5	21.4
3 12	11 33.10	− 0 14.2	2.179	3.171	1.2	21.2
3 22	11 25.79	+ 0 45.4	2.172	3.158	3.2	21.3
4 1	11 19.05	+ 1 43.4	2.195	3.146	6.7	21.5
4 11	11 13.57	+ 2 34.7	2.245	3.133	10.0	21.7
4 21	11 9.81	+ 3 15.6	2.318	3.120	12.9	21.9

497819 2006 TX_{116} 3 12.9 204°.73 0°.3/12.5 17

2 11	11 50.40	+ 0 47.2	2.427	3.276	10.2	22.0
2 21	11 45.81	+ 1 41.8	2.349	3.274	7.2	21.8
3 2	11 39.84	+ 2 46.5	2.298	3.273	3.8	21.5
3 12	11 33.06	+ 3 56.6	2.277	3.271	0.4	21.2
3 22	11 26.18	+ 5 6.4	2.286	3.268	3.5	21.5
4 1	11 19.89	+ 6 10.3	2.323	3.266	6.9	21.7
4 11	11 14.84	+ 7 3.9	2.388	3.263	10.0	21.9
4 21	11 11.42	+ 7 44.3	2.475	3.261	12.7	22.1

170301 2003 ST_{14} 3 12.9 242°.86 0°.3/12.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 55.79	+ 0 47.0	1.841	2.693	12.8	21.4
2 21	11 50.13	+ 1 33.6	1.752	2.678	9.2	21.2
3 2	11 42.37	+ 2 34.1	1.688	2.662	4.9	20.9
3 12	11 33.29	+ 3 42.8	1.652	2.645	0.4	20.5
3 22	11 23.87	+ 4 52.6	1.645	2.628	4.4	20.8
4 1	11 15.20	+ 5 55.9	1.666	2.610	9.0	21.0
4 11	11 8.24	+ 6 46.5	1.712	2.592	13.1	21.2
4 21	11 3.61	+ 7 20.8	1.779	2.572	16.6	21.4

35050 1981 EA_{47} 3 12.9 134°.37 0°.1/13.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 59.16	+ 0 55.9	1.703	2.554	13.8	19.1
2 21	11 52.36	+ 1 17.9	1.640	2.565	9.8	18.9
3 2	11 43.45	+ 1 51.6	1.602	2.575	5.3	18.6
3 12	11 33.38	+ 2 31.8	1.592	2.585	0.5	18.3
3 22	11 23.26	+ 3 12.3	1.610	2.595	4.3	18.6
4 1	11 14.23	+ 3 47.3	1.656	2.603	8.8	18.9
4 11	11 7.20	+ 4 11.7	1.727	2.611	12.7	19.1
4 21	11 2.67	+ 4 23.1	1.819	2.619	16.0	19.4

355845 2008 US_{98} 3 12.9 168°.29 3°.9/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 58.91	+10 59.5	1.744	2.613	12.6	21.7
2 21	11 52.21	+12 4.9	1.684	2.618	8.8	21.5
3 2	11 43.38	+13 13.2	1.649	2.622	5.2	21.3
3 12	11 33.37	+14 15.9	1.643	2.625	4.1	21.2
3 22	11 23.30	+15 5.4	1.665	2.628	7.0	21.4
4 1	11 14.29	+15 36.4	1.714	2.630	10.8	21.7
4 11	11 7.27	+15 46.7	1.787	2.631	14.3	21.9
4 21	11 2.74	+15 37.1	1.879	2.631	17.2	22.1

372715 2009 XR_{11} 3 12.9 26°.58 1°.2/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.16	+ 4 10.2	1.770	2.635	12.6	21.3
2 21	11 48.84	+ 4 48.6	1.703	2.636	8.8	21.1
3 2	11 41.59	+ 5 36.1	1.661	2.638	4.6	20.8
3 12	11 33.23	+ 6 26.6	1.647	2.639	1.2	20.6
3 22	11 24.76	+ 7 13.5	1.660	2.641	4.8	20.8
4 1	11 17.20	+ 7 50.7	1.701	2.643	9.0	21.1
4 11	11 11.42	+ 8 14.2	1.766	2.644	12.8	21.3
4 21	11 7.90	+ 8 21.9	1.851	2.646	16.0	21.5

257711 1999 XH_{116} 3 12.9 57°.17 7°.7/19.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.04	−17 29.8	1.404	2.198	19.2	19.7
2 21	11 50.47	−17 47.6	1.353	2.222	15.6	19.5
3 2	11 42.52	−17 32.9	1.322	2.247	11.8	19.4
3 12	11 33.31	−16 46.8	1.313	2.272	8.7	19.3
3 22	11 24.13	−15 35.0	1.329	2.296	7.8	19.3
4 1	11 16.30	−14 7.5	1.370	2.322	9.8	19.4
4 11	11 10.77	−12 36.1	1.434	2.347	13.0	19.7
4 21	11 8.02	−11 10.9	1.520	2.372	16.2	20.0

512997 2017 UL_{40} 3 12.9 249°.71 5°.5/19.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.71	−16 33.6	2.380	3.148	13.0	21.6
2 21	11 47.62	−16 45.8	2.285	3.139	10.7	21.5
3 2	11 40.91	−16 38.1	2.213	3.130	8.2	21.3
3 12	11 33.18	−16 10.7	2.167	3.121	6.1	21.1
3 22	11 25.21	−15 25.9	2.149	3.112	5.6	21.1
4 1	11 17.83	−14 28.4	2.159	3.103	7.2	21.2
4 11	11 11.77	−13 24.5	2.195	3.094	9.8	21.3
4 21	11 7.55	−12 20.5	2.255	3.084	12.4	21.4

506 Marion 3 12.9 63°.83 6°.3/18.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.75	−15 54.2	2.084	2.857	14.4	13.5
2 21	11 50.51	−16 37.9	2.015	2.871	11.8	13.4
3 2	11 42.44	−17 1.0	1.968	2.885	9.0	13.2
3 12	11 33.31	−17 2.9	1.948	2.900	6.9	13.1
3 22	11 24.06	−16 45.8	1.955	2.914	6.4	13.1
4 1	11 15.66	−16 14.0	1.989	2.929	8.0	13.2
4 11	11 8.91	−15 34.1	2.049	2.944	10.5	13.4
4 21	11 4.31	−14 52.4	2.132	2.958	13.1	13.6

87338 2000 QP_{22} 3 12.9 173°.15 0°.4/12.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.13	+ 2 9.9	2.273	3.121	10.9	19.4
2 21	11 49.19	+ 2 44.1	2.200	3.124	7.7	19.2
3 2	11 41.67	+ 3 26.9	2.153	3.127	4.1	19.0
3 12	11 33.25	+ 4 13.9	2.135	3.129	0.4	18.7
3 22	11 24.73	+ 4 59.9	2.148	3.130	3.7	19.0
4 1	11 16.94	+ 5 40.1	2.189	3.131	7.3	19.2
4 11	11 10.58	+ 6 10.5	2.258	3.131	10.6	19.4
4 21	11 6.10	+ 6 29.0	2.348	3.131	13.3	19.6

403785 2011 SK_{165} 3 12.9 247°.24 1°.4/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.92	+ 3 38.0	1.585	2.450	13.9	22.0
2 21	11 51.16	+ 4 25.3	1.505	2.437	9.8	21.8
3 2	11 43.02	+ 5 24.9	1.448	2.425	5.2	21.5
3 12	11 33.38	+ 6 29.9	1.419	2.411	1.4	21.2
3 22	11 23.39	+ 7 31.8	1.417	2.398	5.5	21.4
4 1	11 14.33	+ 8 22.8	1.442	2.384	10.4	21.6
4 11	11 7.29	+ 8 57.2	1.491	2.369	14.7	21.9
4 21	11 2.91	+ 9 12.5	1.559	2.355	18.4	22.1

192609 1999 GY_3 3 12.9 300°.31 7°.4/ 8.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 9.81	+22 12.1	1.715	2.570	13.5	19.8
2 21	12 0.59	+22 33.2	1.616	2.532	10.5	19.5
3 2	11 48.27	+22 43.8	1.542	2.494	8.0	19.3
3 12	11 33.84	+22 34.1	1.496	2.456	7.7	19.2
3 22	11 18.77	+21 57.7	1.478	2.417	10.2	19.2
4 1	11 4.73	+20 52.2	1.489	2.378	13.9	19.3
4 11	10 53.15	+19 20.4	1.523	2.339	17.7	19.5
4 21	10 44.84	+17 28.3	1.577	2.300	21.1	19.6

278821 2008 ST_{261} 3 12.9 179°.82 0°.6/13.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.70	− 0 55.8	2.175	3.018	11.5	22.0
2 21	11 48.27	− 0 26.7	2.099	3.019	8.3	21.8
3 2	11 41.21	+ 0 14.0	2.048	3.019	4.6	21.6
3 12	11 33.22	+ 1 2.0	2.027	3.019	0.8	21.3
3 22	11 25.10	+ 1 52.2	2.034	3.019	3.4	21.5
4 1	11 17.70	+ 2 39.3	2.070	3.019	7.2	21.7
4 11	11 11.75	+ 3 18.3	2.133	3.018	10.6	21.9
4 21	11 7.71	+ 3 46.3	2.218	3.017	13.5	22.1

411876 2012 EE_7 3 12.9 296°.00 9°.5/ 2.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.12	+24 51.0	1.623	2.499	12.9	20.3
2 21	11 49.88	+26 44.1	1.572	2.492	10.6	20.1
3 2	11 42.29	+28 26.9	1.547	2.484	9.5	20.0
3 12	11 33.33	+29 47.5	1.547	2.476	10.3	20.1
3 22	11 24.22	+30 37.4	1.571	2.468	12.6	20.2
4 1	11 16.23	+30 52.9	1.617	2.461	15.4	20.3
4 11	11 10.37	+30 35.3	1.682	2.454	18.1	20.5
4 21	11 7.20	+29 49.2	1.762	2.446	20.4	20.7

109234 2001 QX_{93} 3 12.9 93°.37 3°.0/15.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 58.95	− 5 58.5	1.868	2.691	13.9	18.6
2 21	11 52.06	− 6 11.5	1.807	2.710	10.4	18.4
3 2	11 43.26	− 6 8.8	1.770	2.728	6.6	18.2
3 12	11 33.41	− 5 52.7	1.761	2.746	3.3	18.0
3 22	11 23.56	− 5 27.3	1.780	2.764	4.1	18.1
4 1	11 14.74	− 4 57.7	1.828	2.781	7.7	18.4
4 11	11 7.77	− 4 29.8	1.902	2.798	11.2	18.6
4 21	11 3.12	− 4 7.8	1.999	2.815	14.2	18.9

496495 2014 TK_{72} 3 12.9 89°.41 1°.3/14.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 54.49	− 3 30.9	1.718	2.563	14.0	21.3
2 21	11 49.05	− 2 52.3	1.658	2.577	10.1	21.1
3 2	11 41.68	− 1 57.1	1.623	2.591	5.8	20.9
3 12	11 33.28	− 0 50.7	1.614	2.606	1.6	20.6
3 22	11 24.86	+ 0 19.6	1.633	2.620	3.9	20.8
4 1	11 17.44	+ 1 26.3	1.680	2.634	8.2	21.1
4 11	11 11.85	+ 2 22.7	1.753	2.647	12.0	21.4
4 21	11 8.54	+ 3 4.7	1.846	2.661	15.3	21.6

46559 1991 PC_1 3 12.9 225°.75 2°.7/13.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.52	− 0 3.0	1.198	2.048	18.4	18.3
2 21	12 1.55	− 1 4.3	1.123	2.043	13.7	18.0
3 2	11 48.94	− 1 54.9	1.069	2.038	8.1	17.7
3 12	11 33.93	− 2 35.2	1.042	2.033	2.9	17.3
3 22	11 18.39	− 3 6.9	1.042	2.028	5.9	17.5
4 1	11 4.37	− 3 33.4	1.069	2.022	11.8	17.8
4 11	10 53.51	− 3 59.3	1.119	2.015	17.1	18.1
4 21	10 46.63	− 4 28.9	1.187	2.009	21.6	18.3

466820 2015 BW_{158} 3 12.9 215°.02 1°.2/14.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.29	− 3 21.5	1.993	2.835	12.5	21.4
2 21	11 47.42	− 2 42.9	1.916	2.833	9.1	21.2
3 2	11 40.82	− 1 49.1	1.863	2.832	5.2	20.9
3 12	11 33.21	− 0 44.5	1.838	2.830	1.5	20.7
3 22	11 25.45	+ 0 24.6	1.842	2.829	3.5	20.8
4 1	11 18.44	+ 1 31.6	1.874	2.827	7.5	21.1
4 11	11 12.96	+ 2 30.0	1.933	2.825	11.2	21.3
4 21	11 9.49	+ 3 15.8	2.013	2.823	14.3	21.5

454121 2013 CE_{119} 3 12.9 105°.56 2°.7/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 58.53	+ 7 5.0	1.496	2.367	14.1	21.4
2 21	11 52.09	+ 7 56.8	1.444	2.380	9.8	21.2
3 2	11 43.37	+ 8 55.3	1.416	2.393	5.3	21.0
3 12	11 33.43	+ 9 52.3	1.416	2.405	2.7	20.8
3 22	11 23.52	+10 39.7	1.442	2.418	6.3	21.1
4 1	11 14.89	+11 11.4	1.495	2.429	10.7	21.4
4 11	11 8.48	+11 24.3	1.571	2.441	14.6	21.6
4 21	11 4.75	+11 18.3	1.667	2.452	17.8	21.9

345968 2007 TO_{93} 3 12.9 167°.69 2°.4/16.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.13	− 8 54.8	2.645	3.451	10.8	22.0
2 21	11 46.26	− 8 19.8	2.562	3.455	8.2	21.8
3 2	11 40.07	− 7 29.7	2.506	3.458	5.3	21.6
3 12	11 33.15	− 6 27.3	2.478	3.461	2.8	21.5
3 22	11 26.13	− 5 17.0	2.480	3.463	3.1	21.5
4 1	11 19.69	− 4 4.2	2.512	3.465	5.8	21.7
4 11	11 14.40	− 2 54.3	2.572	3.467	8.7	21.8
4 21	11 10.67	− 1 51.9	2.656	3.468	11.2	22.0

505998 2015 GR_{43} 3 12.9 270°.91 4°.1/ 8.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 52.89	+14 8.6	2.287	3.159	9.9	21.3
2 21	11 47.71	+15 6.6	2.214	3.148	7.1	21.1
3 2	11 40.94	+16 4.7	2.169	3.137	4.7	21.0
3 12	11 33.23	+16 56.6	2.151	3.126	4.3	20.9
3 22	11 25.37	+17 36.8	2.163	3.115	6.5	21.0
4 1	11 18.19	+18 1.2	2.201	3.103	9.4	21.2
4 11	11 12.41	+18 8.0	2.264	3.092	12.2	21.4
4 21	11 8.49	+17 57.3	2.347	3.081	14.7	21.5

392091 2009 DW_{100} 3 12.9 209°.66 2°.6/ 9.6 18

2 11	11 54.99	+12 11.9	2.918	3.777	8.4	21.5
2 21	11 48.86	+12 41.4	2.842	3.770	5.9	21.3
3 2	11 41.43	+13 11.1	2.793	3.764	3.5	21.1
3 12	11 33.27	+13 36.9	2.775	3.757	2.7	21.1
3 22	11 25.02	+13 55.4	2.788	3.749	4.6	21.2
4 1	11 17.34	+14 3.8	2.830	3.741	7.2	21.4
4 11	11 10.81	+14 0.6	2.898	3.733	9.7	21.5
4 21	11 5.83	+13 45.8	2.990	3.724	11.8	21.7

132027 2002 CE_{115} 3 12.9 129°.71 0°.4/13.3 18

2 11	11 57.56	− 1 0.6	1.829	2.673	13.3	20.7
2 21	11 51.10	− 0 17.2	1.769	2.690	9.5	20.5
3 2	11 42.75	+ 0 39.8	1.734	2.705	5.2	20.3
3 12	11 33.38	+ 1 44.5	1.727	2.720	0.7	20.0
3 22	11 24.01	+ 2 50.0	1.750	2.735	4.0	20.3
4 1	11 15.66	+ 3 49.5	1.801	2.748	8.2	20.5
4 11	11 9.13	+ 4 37.3	1.878	2.761	12.0	20.8
4 21	11 4.89	+ 5 10.5	1.976	2.773	15.1	21.0

360514 2003 QM_5 3 12.9 235°.08 12°.1/25.8 17

2 11	11 56.24	−32 33.3	1.958	2.621	18.6	20.8
2 21	11 50.77	−33 19.3	1.861	2.610	16.8	20.6
3 2	11 42.89	−33 32.5	1.780	2.598	14.9	20.5
3 12	11 33.42	−33 8.1	1.719	2.587	13.2	20.3
3 22	11 23.45	−32 5.2	1.681	2.574	12.2	20.2
4 1	11 14.27	−30 27.7	1.666	2.561	12.3	20.2
4 11	11 7.02	−28 25.1	1.675	2.548	13.7	20.2
4 21	11 2.44	−26 9.4	1.706	2.534	15.7	20.3

41873 2000 WR_{100} 3 12.9 105°.22 0°.7/12.4 18

2 11	11 57.21	+ 2 18.0	1.580	2.441	14.1	20.0
2 21	11 51.10	+ 2 57.0	1.523	2.453	9.9	19.8
3 2	11 42.83	+ 3 47.5	1.489	2.465	5.2	19.6
3 12	11 33.39	+ 4 43.1	1.483	2.476	0.7	19.2
3 22	11 23.94	+ 5 36.0	1.504	2.487	4.8	19.6
4 1	11 15.62	+ 6 19.6	1.553	2.498	9.4	19.9
4 11	11 9.37	+ 6 48.9	1.625	2.509	13.4	20.1
4 21	11 5.65	+ 7 1.9	1.718	2.519	16.8	20.4

333282 1998 SG_{153} 3 12.9 154°.56 0°.5/13.5 17

2 11	11 53.01	− 1 6.1	2.559	3.396	10.2	21.5
2 21	11 47.56	− 0 30.0	2.487	3.404	7.3	21.4
3 2	11 40.76	+ 0 16.2	2.441	3.411	4.0	21.2
3 12	11 33.22	+ 1 8.5	2.425	3.418	0.7	20.9
3 22	11 25.61	+ 2 2.4	2.439	3.424	3.0	21.1
4 1	11 18.64	+ 2 53.1	2.483	3.430	6.3	21.3
4 11	11 12.90	+ 3 36.4	2.555	3.435	9.3	21.5
4 21	11 8.79	+ 4 9.6	2.650	3.439	11.8	21.7

327471 2005 YL_2 3 12.9 173°.44 2°.5/10.2 17

2 11	11 55.41	+ 8 37.6	2.174	3.037	10.7	22.2
2 21	11 49.46	+ 9 28.3	2.107	3.040	7.4	22.0
3 2	11 41.86	+10 23.0	2.067	3.042	4.1	21.8
3 12	11 33.32	+11 15.8	2.057	3.044	2.6	21.7
3 22	11 24.71	+12 0.9	2.075	3.045	5.2	21.8
4 1	11 16.89	+12 33.8	2.122	3.045	8.6	22.0
4 11	11 10.58	+12 51.6	2.195	3.046	11.7	22.2
4 21	11 6.24	+12 53.9	2.288	3.045	14.4	22.4

88548 2001 QS_{194} 3 12.9 241°.55 5°.5/17.4 17

2 11	11 57.68	−12 23.1	1.933	2.728	14.6	20.2
2 21	11 51.47	−12 55.6	1.843	2.720	11.7	20.0
3 2	11 43.14	−13 8.6	1.776	2.712	8.5	19.8
3 12	11 33.45	−13 1.9	1.735	2.703	6.0	19.6
3 22	11 23.40	−12 37.6	1.722	2.694	5.8	19.6
4 1	11 14.08	−12 0.5	1.736	2.684	8.4	19.7
4 11	11 6.49	−11 17.5	1.776	2.675	11.7	19.9
4 21	11 1.24	−10 35.2	1.839	2.665	14.8	20.1

200838 2001 XG_{245} 3 12.9 63°.74 6°.0/ 8.8 18

2 11	11 59.98	+14 40.1	1.277	2.161	15.2	20.7
2 21	11 53.35	+15 39.2	1.236	2.174	10.9	20.5
3 2	11 44.10	+16 35.7	1.217	2.188	7.1	20.3
3 12	11 33.51	+17 18.9	1.225	2.202	6.3	20.3
3 22	11 23.09	+17 40.9	1.257	2.216	9.3	20.5
4 1	11 14.26	+17 37.8	1.313	2.230	13.3	20.8
4 11	11 8.05	+17 10.4	1.391	2.244	17.1	21.1
4 21	11 4.87	+16 22.0	1.485	2.259	20.2	21.3

178719 2000 SV_{262} 3 12.9 200°.72 1°.7/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 51.34	+ 7 30.4	3.079	3.935	8.1	21.4
2 21	11 46.27	+ 8 19.5	3.000	3.931	5.6	21.2
3 2	11 40.05	+ 9 12.4	2.951	3.925	3.0	21.0
3 12	11 33.17	+10 4.9	2.932	3.920	1.7	20.9
3 22	11 26.20	+10 53.0	2.943	3.914	3.8	21.1
4 1	11 19.71	+11 33.2	2.985	3.907	6.4	21.2
4 11	11 14.22	+12 2.7	3.053	3.900	8.9	21.4
4 21	11 10.08	+12 20.4	3.145	3.893	11.0	21.5

10484 Hecht 3 12.9 82°.34 4°.2/16.4 18

2 11	11 55.85	− 9 23.0	1.454	2.283	16.9	17.4
2 21	11 50.39	− 9 15.3	1.389	2.292	12.9	17.2
3 2	11 42.57	− 8 42.9	1.346	2.301	8.6	16.9
3 12	11 33.39	− 7 49.0	1.327	2.310	4.8	16.7
3 22	11 24.09	− 6 40.2	1.335	2.319	5.1	16.8
4 1	11 15.93	− 5 25.7	1.369	2.328	9.0	17.0
4 11	11 9.96	− 4 15.3	1.427	2.337	13.2	17.3
4 21	11 6.70	− 3 16.1	1.506	2.346	16.9	17.5

341756 2007 VL_{306} 3 12.9 224°.63 3°.0/ 9.9 17

2 11	11 55.07	+11 17.0	2.212	3.079	10.4	20.8
2 21	11 49.21	+11 51.0	2.145	3.078	7.3	20.6
3 2	11 41.72	+12 26.1	2.104	3.077	4.2	20.4
3 12	11 33.32	+12 57.2	2.092	3.076	3.1	20.4
3 22	11 24.84	+13 19.3	2.109	3.075	5.5	20.5
4 1	11 17.15	+13 29.0	2.154	3.073	8.7	20.7
4 11	11 10.95	+13 24.4	2.223	3.072	11.7	20.9
4 21	11 6.69	+13 5.8	2.314	3.071	14.3	21.1

193605 2001 BX_{75} 3 12.9 32°.58 1°.6/14.5 18

2 11	11 50.87	− 4 42.8	1.527	2.379	15.0	19.4
2 21	11 46.70	− 3 57.0	1.469	2.391	11.0	19.2
3 2	11 40.51	− 2 51.0	1.434	2.403	6.4	19.0
3 12	11 33.22	− 1 31.2	1.424	2.416	2.0	18.7
3 22	11 25.89	− 0 6.1	1.442	2.429	4.1	18.9
4 1	11 19.60	+ 1 14.9	1.486	2.444	8.6	19.2
4 11	11 15.20	+ 2 23.9	1.554	2.458	12.7	19.5
4 21	11 13.15	+ 3 16.1	1.643	2.474	16.1	19.7

385848 2006 KD_{30} 3 12.9 85°.76 0°.5/13.4 17

2 11	11 53.11	− 0 42.3	2.016	2.864	12.0	21.0
2 21	11 47.93	− 0 11.8	1.947	2.870	8.6	20.8
3 2	11 41.08	+ 0 30.7	1.903	2.875	4.8	20.6
3 12	11 33.28	+ 1 20.6	1.887	2.880	0.8	20.3
3 22	11 25.39	+ 2 12.2	1.900	2.886	3.6	20.5
4 1	11 18.30	+ 2 59.9	1.941	2.891	7.5	20.8
4 11	11 12.75	+ 3 38.7	2.008	2.896	11.0	21.0
4 21	11 9.18	+ 4 5.4	2.097	2.902	14.0	21.2

377156 2003 SB_{198} 3 12.9 124°.98 1°.4/11.3 18

2 11	11 54.09	+ 5 31.2	2.345	3.202	10.2	21.7
2 21	11 48.37	+ 6 16.7	2.285	3.215	7.1	21.6
3 2	11 41.21	+ 7 7.8	2.253	3.229	3.7	21.4
3 12	11 33.29	+ 7 59.4	2.250	3.241	1.5	21.2
3 22	11 25.36	+ 8 46.3	2.277	3.254	4.2	21.4
4 1	11 18.18	+ 9 24.2	2.334	3.266	7.5	21.6
4 11	11 12.39	+ 9 50.1	2.416	3.278	10.4	21.9
4 21	11 8.38	+10 2.7	2.520	3.289	12.9	22.1

409192 2003 UY_{327} 3 12.9 103°.51 3°.3/15.8 18

2 11	11 55.38	− 8 1.2	1.596	2.426	15.6	21.3
2 21	11 49.89	− 7 41.0	1.529	2.435	11.8	21.1
3 2	11 42.26	− 6 58.7	1.485	2.444	7.6	20.8
3 12	11 33.39	− 5 58.2	1.467	2.453	3.8	20.6
3 22	11 24.42	− 4 46.4	1.477	2.462	4.5	20.7
4 1	11 16.49	− 3 31.7	1.513	2.470	8.5	20.9
4 11	11 10.56	− 2 22.9	1.574	2.479	12.5	21.2
4 21	11 7.12	− 1 26.1	1.656	2.487	16.0	21.4

466897 2015 DA_{157} 3 12.9 138°.82 3°.0/ 9.7 17

2 11	11 53.49	+ 8 46.5	1.926	2.797	11.5	21.3
2 21	11 48.27	+ 9 55.0	1.864	2.800	8.0	21.1
3 2	11 41.29	+11 8.5	1.828	2.803	4.5	20.8
3 12	11 33.30	+12 19.4	1.821	2.806	3.2	20.8
3 22	11 25.24	+13 20.7	1.842	2.809	6.0	20.9
4 1	11 18.03	+14 6.6	1.890	2.812	9.6	21.2
4 11	11 12.46	+14 34.0	1.962	2.815	12.9	21.4
4 21	11 8.99	+14 42.5	2.055	2.817	15.6	21.6

472228 2014 FL_{64} 3 12.9 180°.55 2°.2/10.5 18

2 11	11 55.29	+10 25.0	2.702	3.561	9.0	20.5
2 21	11 49.12	+10 40.9	2.631	3.561	6.3	20.3
3 2	11 41.59	+10 57.6	2.588	3.561	3.5	20.2
3 12	11 33.33	+11 11.5	2.574	3.561	2.2	20.1
3 22	11 25.02	+11 19.3	2.591	3.561	4.3	20.2
4 1	11 17.36	+11 18.4	2.638	3.561	7.2	20.4
4 11	11 10.94	+11 7.3	2.711	3.560	9.8	20.6
4 21	11 6.17	+10 45.9	2.806	3.560	12.1	20.7

198279 2004 TB_{290} 3 12.9 288°.14 0°.7/13.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 54.64	− 0 24.8	1.822	2.673	13.0	21.0
2 21	11 49.30	− 0 7.8	1.738	2.662	9.4	20.7
3 2	11 41.96	+ 0 21.9	1.680	2.652	5.3	20.5
3 12	11 33.38	+ 1 0.3	1.648	2.641	1.0	20.1
3 22	11 24.52	+ 1 41.9	1.645	2.631	4.0	20.3
4 1	11 16.46	+ 2 20.5	1.669	2.620	8.4	20.6
4 11	11 10.11	+ 2 50.7	1.718	2.610	12.4	20.8
4 21	11 6.03	+ 3 9.0	1.788	2.600	15.8	21.0

429017 2009 BZ_{113} 3 12.9 115°.25 0°.6/12.2 17

2 11	11 53.07	+ 2 59.1	2.249	3.103	10.7	21.7
2 21	11 47.75	+ 3 35.3	2.183	3.110	7.5	21.5
3 2	11 40.93	+ 4 19.4	2.143	3.118	3.9	21.3
3 12	11 33.28	+ 5 6.7	2.131	3.125	0.7	21.0
3 22	11 25.57	+ 5 52.1	2.150	3.132	3.8	21.3
4 1	11 18.60	+ 6 30.9	2.197	3.138	7.3	21.5
4 11	11 13.03	+ 6 59.2	2.270	3.145	10.5	21.7
4 21	11 9.26	+ 7 15.2	2.365	3.151	13.2	21.9

78845 2003 QZ_{53} 3 12.9 224°.70 1°.6/11.3 18

2 11	11 56.77	+ 4 52.5	1.976	2.834	11.8	20.5
2 21	11 50.70	+ 5 45.1	1.893	2.823	8.3	20.2
3 2	11 42.68	+ 6 46.9	1.835	2.810	4.4	20.0
3 12	11 33.44	+ 7 51.6	1.806	2.797	1.7	19.7
3 22	11 23.93	+ 8 52.2	1.807	2.784	5.0	19.9
4 1	11 15.18	+ 9 42.4	1.836	2.769	9.1	20.1
4 11	11 8.07	+10 17.7	1.890	2.754	12.8	20.3
4 21	11 3.18	+10 36.1	1.965	2.738	15.9	20.5

357500 2004 PT_{82} 3 12.9 203°.32 0°.4/13.2 17

2 11	11 58.66	+ 0 7.0	1.781	2.628	13.4	21.8
2 21	11 52.16	+ 0 31.3	1.702	2.624	9.7	21.6
3 2	11 43.50	+ 1 8.5	1.648	2.620	5.3	21.3
3 12	11 33.52	+ 1 53.7	1.621	2.615	0.7	21.0
3 22	11 23.31	+ 2 40.9	1.624	2.609	4.2	21.2
4 1	11 14.01	+ 3 23.6	1.654	2.602	8.8	21.5
4 11	11 6.57	+ 3 56.4	1.710	2.595	12.8	21.7
4 21	11 1.59	+ 4 15.9	1.787	2.587	16.3	21.9

387040 2012 SF_{66} 3 12.9 134°.69 0°.0/12.9 17

2 11	11 56.08	+ 2 3.6	2.717	3.556	9.6	22.1
2 21	11 49.62	+ 2 13.8	2.649	3.569	6.8	21.9
3 2	11 41.84	+ 2 30.4	2.609	3.581	3.6	21.7
3 12	11 33.37	+ 2 50.4	2.599	3.593	0.3	21.4
3 22	11 24.88	+ 3 10.3	2.621	3.604	3.0	21.7
4 1	11 17.06	+ 3 27.1	2.673	3.615	6.1	21.9
4 11	11 10.49	+ 3 37.9	2.752	3.626	8.9	22.1
4 21	11 5.54	+ 3 41.1	2.856	3.636	11.3	22.3

264548 2001 SR_{178} 3 12.9 111°.92 2°.2/10.5 18

2 11	11 55.93	+ 7 7.6	2.130	2.990	11.0	21.4
2 21	11 49.72	+ 8 8.9	2.081	3.013	7.6	21.2
3 2	11 41.94	+ 9 14.9	2.060	3.035	4.1	21.0
3 12	11 33.38	+10 19.0	2.067	3.056	2.3	21.0
3 22	11 24.88	+11 15.3	2.105	3.077	5.0	21.2
4 1	11 17.29	+11 58.8	2.172	3.097	8.4	21.4
4 11	11 11.28	+12 26.9	2.263	3.116	11.4	21.6
4 21	11 7.23	+12 39.1	2.376	3.134	13.9	21.9

160706 2000 QK_4 3 12.9 182°.15 0°.7/13.6 18

2 11	11 57.92	− 1 4.9	1.923	2.764	12.9	21.1
2 21	11 51.46	− 0 38.5	1.846	2.765	9.3	20.9
3 2	11 43.05	+ 0 0.8	1.795	2.766	5.2	20.6
3 12	11 33.49	+ 0 48.8	1.773	2.766	1.0	20.3
3 22	11 23.76	+ 1 39.5	1.779	2.765	3.8	20.5
4 1	11 14.89	+ 2 26.9	1.815	2.763	8.1	20.8
4 11	11 7.76	+ 3 5.4	1.876	2.761	11.9	21.0
4 21	11 2.90	+ 3 31.7	1.959	2.757	15.1	21.2

148762 2001 TL_{219} 3 12.9 236°.01 2°.5/10.3 18

2 11	11 55.37	+ 7 55.6	2.086	2.950	11.0	20.8
2 21	11 49.64	+ 8 51.4	2.004	2.937	7.7	20.6
3 2	11 42.08	+ 9 53.2	1.949	2.924	4.3	20.4
3 12	11 33.41	+10 54.7	1.922	2.910	2.6	20.2
3 22	11 24.50	+11 49.3	1.925	2.895	5.5	20.4
4 1	11 16.30	+12 31.4	1.956	2.880	9.2	20.6
4 11	11 9.64	+12 57.4	2.011	2.865	12.6	20.7
4 21	11 5.04	+13 6.2	2.088	2.848	15.5	20.9

9528 Küppers 3 12.9 111°.06 0°.7/12.2 18

2 11	11 53.87	+ 2 59.8	2.087	2.943	11.4	19.3
2 21	11 48.42	+ 3 34.9	2.021	2.950	8.0	19.1
3 2	11 41.33	+ 4 18.4	1.981	2.956	4.2	18.9
3 12	11 33.34	+ 5 5.4	1.970	2.963	0.7	18.7
3 22	11 25.28	+ 5 50.4	1.987	2.969	4.0	18.9
4 1	11 18.02	+ 6 28.2	2.033	2.975	7.8	19.2
4 11	11 12.28	+ 6 55.1	2.105	2.981	11.1	19.4
4 21	11 8.49	+ 7 9.0	2.198	2.987	13.9	19.6

182578 2001 TF_{175} 3 12.9 120°.65 3°.4/16.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 53.51	−11 0.8	2.004	2.810	13.8	20.3
2 21	11 48.23	−10 20.2	1.934	2.824	10.6	20.2
3 2	11 41.25	− 9 18.3	1.888	2.837	7.0	20.0
3 12	11 33.33	− 7 58.8	1.869	2.850	3.9	19.8
3 22	11 25.36	− 6 28.1	1.880	2.863	4.0	19.8
4 1	11 18.24	− 4 54.3	1.919	2.875	7.1	20.0
4 11	11 12.70	− 3 25.2	1.985	2.886	10.5	20.3
4 21	11 9.20	− 2 7.0	2.075	2.897	13.5	20.5

62999 2000 WK_{19} 3 12.9 186°.00 1°.5/10.9 17

2 11	11 53.04	+ 4 56.5	2.672	3.524	9.3	20.1
2 21	11 47.61	+ 6 4.9	2.596	3.524	6.4	19.9
3 2	11 40.84	+ 7 20.2	2.548	3.523	3.4	19.7
3 12	11 33.30	+ 8 36.9	2.531	3.522	1.5	19.6
3 22	11 25.65	+ 9 49.5	2.546	3.519	4.0	19.7
4 1	11 18.57	+10 53.0	2.590	3.516	7.1	19.9
4 11	11 12.67	+11 43.8	2.661	3.512	9.9	20.1
4 21	11 8.35	+12 20.0	2.756	3.508	12.3	20.3

362160 2009 DN_{141} 3 12.9 282°.15 1°.6/11.6 17

2 11	11 55.73	+ 4 14.0	1.543	2.412	13.9	21.3
2 21	11 50.46	+ 4 58.7	1.458	2.393	9.9	21.0
3 2	11 42.77	+ 5 55.6	1.397	2.374	5.2	20.6
3 12	11 33.49	+ 6 57.7	1.363	2.355	1.6	20.3
3 22	11 23.78	+ 7 56.6	1.355	2.336	5.7	20.6
4 1	11 14.95	+ 8 44.2	1.374	2.316	10.7	20.8
4 11	11 8.12	+ 9 14.7	1.415	2.297	15.2	21.0
4 21	11 4.01	+ 9 25.6	1.476	2.277	19.0	21.2

210485 1996 TK 3 12.9 134°.52 1°.0/12.0 18

2 11	11 57.71	+ 3 9.4	1.850	2.705	12.6	21.4
2 21	11 51.24	+ 3 55.3	1.791	2.719	8.9	21.2
3 2	11 42.87	+ 4 50.6	1.757	2.732	4.6	21.0
3 12	11 33.48	+ 5 49.1	1.751	2.744	1.0	20.8
3 22	11 24.08	+ 6 44.0	1.775	2.756	4.6	21.0
4 1	11 15.69	+ 7 29.4	1.827	2.767	8.7	21.3
4 11	11 9.11	+ 8 1.1	1.905	2.777	12.3	21.6
4 21	11 4.80	+ 8 17.3	2.003	2.787	15.3	21.8

520960 2014 YV_{59} 3 12.9 230°.93 3°.4/16.1 17

2 11	11 56.70	− 8 23.7	2.215	3.023	12.6	21.7
2 21	11 50.56	− 8 32.1	2.120	3.012	9.7	21.5
3 2	11 42.59	− 8 24.9	2.050	3.000	6.5	21.2
3 12	11 33.47	− 8 3.5	2.008	2.988	3.8	21.0
3 22	11 24.05	− 7 30.8	1.995	2.975	4.1	21.0
4 1	11 15.26	− 6 51.7	2.011	2.962	7.2	21.2
4 11	11 7.94	− 6 11.8	2.054	2.949	10.5	21.4
4 21	11 2.63	− 5 36.0	2.120	2.934	13.6	21.6

322212 2011 AE_{40} 3 12.9 64°.35 2°.8/10.1 18

2 11	11 52.33	+ 6 18.6	1.690	2.564	12.6	20.3
2 21	11 47.63	+ 7 44.4	1.632	2.571	8.7	20.1
3 2	11 41.02	+ 9 18.9	1.600	2.577	4.7	19.9
3 12	11 33.33	+10 52.9	1.595	2.584	2.9	19.8
3 22	11 25.57	+12 17.4	1.619	2.590	6.2	20.0
4 1	11 18.76	+13 24.7	1.669	2.597	10.2	20.2
4 11	11 13.75	+14 10.5	1.742	2.604	13.8	20.5
4 21	11 10.98	+14 34.0	1.835	2.611	16.8	20.7

116393 2003 YF_{129} 3 12.9 138°.92 1°.5/11.6 18

2 11	11 57.92	+ 5 13.9	1.939	2.796	12.0	20.0
2 21	11 51.33	+ 5 51.6	1.878	2.808	8.4	19.8
3 2	11 42.91	+ 6 36.1	1.843	2.818	4.4	19.6
3 12	11 33.49	+ 7 21.7	1.836	2.828	1.5	19.4
3 22	11 24.06	+ 8 2.4	1.859	2.838	4.7	19.6
4 1	11 15.58	+ 8 33.3	1.911	2.847	8.6	19.9
4 11	11 8.86	+ 8 51.1	1.987	2.855	12.1	20.1
4 21	11 4.34	+ 8 54.5	2.085	2.863	15.0	20.3

83664 2001 TR_{19} 3 12.9 286°.36 0°.4/12.6 18

2 11	11 59.08	+ 3 34.4	1.737	2.594	13.3	18.3
2 21	11 52.71	+ 3 37.4	1.642	2.570	9.5	18.1
3 2	11 43.95	+ 3 48.8	1.572	2.547	5.2	17.7
3 12	11 33.61	+ 4 4.4	1.529	2.523	0.5	17.3
3 22	11 22.78	+ 4 19.3	1.515	2.498	4.7	17.6
4 1	11 12.71	+ 4 28.4	1.528	2.474	9.5	17.8
4 11	11 4.52	+ 4 27.6	1.566	2.450	13.8	18.0
4 21	10 58.92	+ 4 14.7	1.624	2.426	17.6	18.2

209407 2004 FA_4 3 12.9 252°.06 1°.2/11.6 17

2 11	11 52.14	+ 4 40.5	2.263	3.123	10.5	21.1
2 21	11 47.18	+ 5 23.0	2.188	3.119	7.3	20.9
3 2	11 40.69	+ 6 12.8	2.140	3.116	3.8	20.7
3 12	11 33.32	+ 7 4.6	2.120	3.112	1.2	20.5
3 22	11 25.82	+ 7 53.2	2.130	3.109	4.2	20.7
4 1	11 18.99	+ 8 33.7	2.168	3.105	7.7	20.9
4 11	11 13.52	+ 9 2.4	2.232	3.102	10.9	21.1
4 21	11 9.84	+ 9 17.5	2.318	3.098	13.6	21.3

182341 2001 QP_3 3 12.9 101°.72 1°.8/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 54.41	+ 4 29.2	1.783	2.648	12.5	19.9
2 21	11 48.97	+ 5 37.8	1.728	2.662	8.7	19.7
3 2	11 41.68	+ 6 55.6	1.699	2.676	4.5	19.5
3 12	11 33.40	+ 8 14.5	1.698	2.689	1.9	19.3
3 22	11 25.12	+ 9 26.9	1.726	2.702	5.2	19.6
4 1	11 17.83	+10 25.9	1.781	2.715	9.2	19.8
4 11	11 12.29	+11 7.4	1.860	2.728	12.8	20.1
4 21	11 8.97	+11 29.9	1.960	2.740	15.7	20.3

8613 1978 VE_{10} 3 12.9 216°.79 0°.6/12.1 18

2 11	11 51.83	+ 3 16.6	2.935	3.782	8.7	19.7
2 21	11 46.71	+ 3 52.8	2.849	3.774	6.1	19.5
3 2	11 40.36	+ 4 35.3	2.791	3.765	3.2	19.3
3 12	11 33.30	+ 5 20.7	2.763	3.756	0.6	19.1
3 22	11 26.11	+ 6 4.9	2.766	3.746	3.2	19.3
4 1	11 19.40	+ 6 44.1	2.799	3.736	6.1	19.5
4 11	11 13.73	+ 7 15.2	2.859	3.726	8.8	19.6
4 21	11 9.48	+ 7 36.1	2.943	3.715	11.2	19.8

147959 1993 TQ_{28} 3 12.9 195°.02 0°.9/12.0 16

2 11	11 54.69	+ 2 48.1	2.172	3.024	11.1	21.6
2 21	11 49.04	+ 3 38.3	2.095	3.022	7.8	21.4
3 2	11 41.72	+ 4 38.1	2.044	3.019	4.1	21.1
3 12	11 33.42	+ 5 41.9	2.023	3.016	0.9	20.9
3 22	11 24.98	+ 6 43.7	2.031	3.012	4.1	21.1
4 1	11 17.25	+ 7 37.7	2.069	3.007	7.9	21.3
4 11	11 10.98	+ 8 19.3	2.132	3.002	11.3	21.5
4 21	11 6.66	+ 8 46.4	2.217	2.996	14.2	21.7

446861 2001 VL_{39} 3 12.9 86°.78 2°.0/14.7 18

2 11	11 58.21	− 5 24.4	1.492	2.332	16.0	21.2
2 21	11 51.78	− 4 42.9	1.445	2.360	11.7	21.0
3 2	11 43.20	− 3 41.3	1.421	2.388	6.9	20.8
3 12	11 33.55	− 2 25.8	1.424	2.415	2.4	20.5
3 22	11 24.03	− 1 5.2	1.455	2.441	4.2	20.7
4 1	11 15.84	+ 0 11.3	1.513	2.467	8.7	21.1
4 11	11 9.83	+ 1 16.2	1.595	2.493	12.8	21.4
4 21	11 6.43	+ 2 4.9	1.699	2.518	16.2	21.6

168745 2000 QJ_{102} 3 12.9 218°.01 2°.6/10.5 18

2 11	11 57.54	+ 7 34.9	1.879	2.743	12.1	20.8
2 21	11 51.33	+ 8 32.3	1.801	2.734	8.5	20.5
3 2	11 43.07	+ 9 36.5	1.750	2.725	4.6	20.3
3 12	11 33.55	+10 40.4	1.726	2.715	2.7	20.1
3 22	11 23.80	+11 36.7	1.732	2.704	5.9	20.3
4 1	11 14.90	+12 19.2	1.766	2.692	9.9	20.5
4 11	11 7.75	+12 44.1	1.824	2.680	13.5	20.7
4 21	11 2.93	+12 50.5	1.903	2.667	16.6	20.9

409208 2003 WB_{44} 3 12.9 135°.20 0°.6/12.4 18

2 11	11 58.45	+ 3 0.1	1.811	2.665	12.9	21.7
2 21	11 51.83	+ 3 27.9	1.748	2.675	9.1	21.5
3 2	11 43.24	+ 4 5.0	1.710	2.685	4.8	21.2
3 12	11 33.56	+ 4 45.9	1.701	2.694	0.7	20.9
3 22	11 23.84	+ 5 24.6	1.721	2.703	4.4	21.2
4 1	11 15.14	+ 5 55.7	1.768	2.711	8.7	21.5
4 11	11 8.30	+ 6 15.2	1.841	2.719	12.4	21.7
4 21	11 3.81	+ 6 21.2	1.935	2.726	15.5	22.0

234430 2001 SM_6 3 12.9 317°.53 0°.5/13.2 18

2 11	11 59.22	+ 2 13.7	1.167	2.040	17.1	20.0
2 21	11 53.58	+ 1 56.8	1.088	2.023	12.5	19.7
3 2	11 44.73	+ 1 51.9	1.031	2.007	6.9	19.3
3 12	11 33.73	+ 1 54.7	0.997	1.991	0.9	18.8
3 22	11 22.11	+ 1 59.7	0.989	1.976	5.6	19.1
4 1	11 11.69	+ 2 0.4	1.004	1.961	11.7	19.4
4 11	11 3.97	+ 1 51.4	1.040	1.948	17.2	19.6
4 21	10 59.78	+ 1 29.6	1.094	1.935	21.8	19.9

238488 2004 RU_{257} 3 12.9 196°.45 0°.6/13.5 17

2 11	11 56.34	− 2 4.8	1.975	2.814	12.6	21.7
2 21	11 50.37	− 1 15.0	1.893	2.811	9.1	21.4
3 2	11 42.51	− 0 10.1	1.837	2.807	5.1	21.2
3 12	11 33.51	+ 1 4.8	1.810	2.803	0.9	20.9
3 22	11 24.30	+ 2 22.8	1.812	2.797	3.8	21.1
4 1	11 15.88	+ 3 36.5	1.844	2.791	8.1	21.3
4 11	11 9.09	+ 4 39.4	1.901	2.784	11.9	21.5
4 21	11 4.47	+ 5 27.5	1.981	2.775	15.1	21.7

171985 2001 TB_{184} 3 12.9 239°.55 2°.9/16.5 18

2 11	11 50.90	− 9 24.4	2.359	3.169	11.8	20.3
2 21	11 46.32	− 8 56.3	2.270	3.164	9.1	20.1
3 2	11 40.26	− 8 10.9	2.207	3.158	6.0	19.9
3 12	11 33.31	− 7 11.0	2.171	3.153	3.3	19.7
3 22	11 26.19	− 6 1.1	2.164	3.147	3.5	19.7
4 1	11 19.68	− 4 47.2	2.186	3.141	6.4	19.9
4 11	11 14.43	− 3 35.5	2.235	3.135	9.5	20.1
4 21	11 10.91	− 2 31.3	2.309	3.130	12.4	20.2

361573 2007 RB_{137} 3 12.9 91°.60 0°.9/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 57.91	+ 2 44.3	1.539	2.401	14.3	21.2
2 21	11 51.61	+ 3 26.3	1.488	2.419	10.1	21.0
3 2	11 43.15	+ 4 19.3	1.461	2.437	5.3	20.8
3 12	11 33.56	+ 5 16.3	1.461	2.454	0.9	20.5
3 22	11 24.03	+ 6 9.6	1.489	2.471	5.0	20.8
4 1	11 15.73	+ 6 52.2	1.544	2.488	9.5	21.2
4 11	11 9.56	+ 7 19.9	1.623	2.505	13.5	21.4
4 21	11 5.95	+ 7 30.8	1.721	2.521	16.8	21.7

197567 2004 GN_{12} 3 12.9 267°.32 3°.9/15.9 17

2 11	11 56.48	− 8 15.1	1.483	2.315	16.5	20.8
2 21	11 51.18	− 8 10.1	1.392	2.298	12.7	20.5
3 2	11 43.27	− 7 41.1	1.322	2.280	8.4	20.2
3 12	11 33.60	− 6 50.1	1.277	2.262	4.5	19.9
3 22	11 23.37	− 5 42.6	1.259	2.244	5.2	19.9
4 1	11 14.00	− 4 27.3	1.267	2.225	9.7	20.1
4 11	11 6.73	− 3 14.6	1.298	2.206	14.4	20.3
4 21	11 2.35	− 2 12.8	1.350	2.187	18.6	20.5

107737 2001 FA_{31} 3 12.9 38°.39 0°.7/12.4 18

2 11	11 54.61	+ 1 46.6	1.246	2.121	16.1	19.8
2 21	11 49.66	+ 2 28.4	1.196	2.133	11.4	19.5
3 2	11 42.24	+ 3 24.9	1.169	2.147	6.0	19.3
3 12	11 33.48	+ 4 27.9	1.167	2.161	0.7	18.9
3 22	11 24.75	+ 5 28.0	1.191	2.175	5.4	19.3
4 1	11 17.38	+ 6 16.4	1.239	2.191	10.6	19.6
4 11	11 12.38	+ 6 47.4	1.309	2.206	15.1	19.9
4 21	11 10.20	+ 6 59.0	1.398	2.223	18.7	20.2

328867 2009 WH_{248} 3 12.9 210°.94 1°.4/11.3 17

2 11	11 54.38	+ 4 54.1	2.257	3.114	10.6	21.8
2 21	11 48.81	+ 5 45.7	2.178	3.107	7.4	21.6
3 2	11 41.60	+ 6 45.0	2.125	3.101	3.9	21.4
3 12	11 33.44	+ 7 46.4	2.102	3.093	1.5	21.2
3 22	11 25.10	+ 8 44.1	2.108	3.085	4.4	21.4
4 1	11 17.44	+ 9 32.7	2.144	3.077	8.0	21.6
4 11	11 11.18	+10 8.2	2.205	3.068	11.3	21.7
4 21	11 6.79	+10 28.9	2.288	3.058	14.0	21.9

465117 2006 WU_{104} 3 12.9 50°.06 1°.5/11.7 18

2 11	11 55.09	+ 3 59.4	1.413	2.286	14.7	21.7
2 21	11 49.74	+ 4 48.5	1.367	2.304	10.2	21.4
3 2	11 42.18	+ 5 48.0	1.344	2.322	5.3	21.2
3 12	11 33.48	+ 6 49.8	1.347	2.340	1.6	21.0
3 22	11 24.86	+ 7 45.4	1.377	2.358	5.5	21.3
4 1	11 17.50	+ 8 27.8	1.433	2.377	10.1	21.6
4 11	11 12.30	+ 8 52.5	1.511	2.396	14.2	21.9
4 21	11 9.69	+ 8 58.6	1.609	2.416	17.5	22.2

427422 2000 RA_{37} 3 12.9 226°.30 3°.7/16.4 17

2 11	11 57.73	− 9 22.5	2.303	3.103	12.4	21.8
2 21	11 51.26	− 9 38.8	2.207	3.092	9.7	21.6
3 2	11 42.99	− 9 39.9	2.135	3.081	6.7	21.4
3 12	11 33.58	− 9 26.5	2.092	3.069	4.1	21.2
3 22	11 23.85	− 9 1.3	2.078	3.056	4.3	21.2
4 1	11 14.72	− 8 28.3	2.093	3.043	7.1	21.3
4 11	11 7.03	− 7 53.0	2.136	3.029	10.3	21.5
4 21	11 1.33	− 7 20.2	2.203	3.015	13.2	21.7

137161 1999 FK_{34} 3 12.9 307°.05 5°.6/ 7.6 18

2 11	11 57.40	+19 13.3	2.065	2.933	10.9	19.0
2 21	11 51.04	+19 52.6	1.999	2.925	8.2	18.8
3 2	11 42.82	+20 26.5	1.959	2.918	6.0	18.7
3 12	11 33.55	+20 48.3	1.947	2.910	5.9	18.6
3 22	11 24.19	+20 53.2	1.963	2.903	8.0	18.7
4 1	11 15.74	+20 38.5	2.005	2.896	10.8	18.9
4 11	11 9.01	+20 4.6	2.071	2.889	13.6	19.1
4 21	11 4.48	+19 13.4	2.156	2.882	16.0	19.2

230684 2003 TQ_{37} 3 12.9 303°.75 3°.1/15.6 17

2 11	11 54.75	− 6 13.0	1.862	2.692	13.7	20.5
2 21	11 49.43	− 6 22.0	1.775	2.681	10.4	20.3
3 2	11 42.10	− 6 14.9	1.711	2.670	6.7	20.0
3 12	11 33.50	− 5 53.4	1.674	2.659	3.5	19.8
3 22	11 24.59	− 5 21.4	1.664	2.648	4.2	19.8
4 1	11 16.42	− 4 44.4	1.682	2.638	7.9	20.0
4 11	11 9.92	− 4 8.6	1.725	2.627	11.7	20.2
4 21	11 5.69	− 3 39.2	1.790	2.617	15.1	20.4

315073 2007 DZ_{45} 3 12.9 248°.00 3°.3/16.9 17

2 11	11 51.39	−10 22.1	2.461	3.263	11.6	20.3
2 21	11 46.63	−10 12.6	2.373	3.259	9.0	20.1
3 2	11 40.42	− 9 46.8	2.309	3.255	6.2	20.0
3 12	11 33.35	− 9 6.8	2.273	3.250	3.8	19.8
3 22	11 26.11	− 8 15.9	2.266	3.246	3.8	19.8
4 1	11 19.44	− 7 19.2	2.287	3.241	6.3	19.9
4 11	11 14.01	− 6 22.2	2.336	3.236	9.2	20.1
4 21	11 10.26	− 5 29.9	2.408	3.232	11.9	20.3

133137 2003 QQ_4 3 12.9 138.°82 0.°2/13.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 54.94	− 1 30.4	1.706	2.556	13.8	20.5
2 21	11 49.50	− 0 31.9	1.640	2.564	9.8	20.3
3 2	11 42.06	+ 0 42.7	1.598	2.571	5.4	20.0
3 12	11 33.49	+ 2 6.7	1.585	2.578	0.6	19.7
3 22	11 24.83	+ 3 31.9	1.599	2.585	4.2	20.0
4 1	11 17.14	+ 4 49.6	1.642	2.591	8.7	20.2
4 11	11 11.29	+ 5 53.3	1.710	2.596	12.7	20.5
4 21	11 7.77	+ 6 39.1	1.798	2.602	16.0	20.7

501436 2014 AG_{10} 3 12.9 57.°97 8.°7/21.2 18

2 11	11 58.52	−22 22.5	2.110	2.839	15.6	20.4
2 21	11 51.95	−23 32.3	2.040	2.853	13.4	20.3
3 2	11 43.39	−24 18.3	1.991	2.867	11.1	20.2
3 12	11 33.62	−24 38.1	1.966	2.882	9.3	20.1
3 22	11 23.65	−24 32.3	1.967	2.896	8.7	20.1
4 1	11 14.50	−24 4.7	1.995	2.911	9.5	20.1
4 11	11 7.10	−23 22.0	2.047	2.926	11.3	20.3
4 21	11 1.97	−22 31.9	2.122	2.940	13.4	20.5

330452 2007 EN_{12} 3 12.9 89.°92 0.°6/12.3 17

2 11	11 51.19	− 1 42.6	1.774	2.628	13.2	20.1
2 21	11 46.81	+ 0 6.5	1.707	2.634	9.3	19.9
3 2	11 40.61	+ 2 13.8	1.665	2.640	4.9	19.6
3 12	11 33.38	+ 4 30.3	1.653	2.646	0.6	19.3
3 22	11 26.04	+ 6 44.9	1.670	2.652	4.6	19.6
4 1	11 19.56	+ 8 47.1	1.717	2.658	9.0	19.9
4 11	11 14.74	+10 28.9	1.789	2.664	12.8	20.1
4 21	11 12.06	+11 46.7	1.882	2.670	16.0	20.4

286135 2001 TD_{179} 3 12.9 248.°31 3.°3/16.8 18

2 11	11 51.87	−10 5.5	2.402	3.206	11.8	20.6
2 21	11 47.03	− 9 53.7	2.310	3.198	9.2	20.4
3 2	11 40.67	− 9 25.2	2.242	3.189	6.3	20.2
3 12	11 33.39	− 8 42.0	2.202	3.181	3.7	20.0
3 22	11 25.90	− 7 47.8	2.191	3.172	3.8	20.0
4 1	11 18.99	− 6 47.7	2.209	3.163	6.4	20.1
4 11	11 13.35	− 5 47.6	2.253	3.154	9.5	20.3
4 21	11 9.44	− 4 52.8	2.322	3.144	12.3	20.5

33134 1998 CZ_4 3 12.9 357.°15 0.°9/13.7 18

2 11	11 53.05	− 1 20.5	1.533	2.392	14.6	18.7
2 21	11 48.41	− 0 56.2	1.463	2.390	10.5	18.5
3 2	11 41.59	− 0 15.8	1.416	2.389	5.9	18.2
3 12	11 33.48	+ 0 35.5	1.395	2.388	1.2	17.9
3 22	11 25.17	+ 1 30.6	1.400	2.387	4.3	18.1
4 1	11 17.85	+ 2 21.8	1.432	2.388	9.1	18.4
4 11	11 12.47	+ 3 2.3	1.487	2.388	13.4	18.6
4 21	11 9.60	+ 3 28.2	1.563	2.389	17.0	18.9

408726 2014 OG_{41} 3 12.9 263.°91 0.°1/12.9 17

2 11	11 58.08	+ 1 29.3	1.478	2.339	14.9	21.8
2 21	11 52.22	+ 1 52.2	1.396	2.326	10.7	21.5
3 2	11 43.78	+ 2 28.9	1.338	2.313	5.8	21.2
3 12	11 33.69	+ 3 13.9	1.306	2.300	0.5	20.8
3 22	11 23.18	+ 4 0.0	1.301	2.286	5.0	21.1
4 1	11 13.66	+ 4 39.5	1.322	2.272	10.3	21.3
4 11	11 6.31	+ 5 6.1	1.367	2.258	15.0	21.6
4 21	11 1.82	+ 5 16.6	1.431	2.244	19.0	21.8

501137 2013 TJ_{43} 3 12.9 162.°12 2.°0/10.9 17

2 11	11 56.85	+ 8 17.4	2.309	3.167	10.3	21.9
2 21	11 50.42	+ 8 49.1	2.242	3.172	7.2	21.7
3 2	11 42.42	+ 9 24.1	2.202	3.176	3.9	21.5
3 12	11 33.55	+ 9 57.6	2.192	3.181	2.1	21.4
3 22	11 24.62	+10 24.8	2.211	3.184	4.7	21.5
4 1	11 16.47	+10 42.2	2.260	3.187	8.0	21.7
4 11	11 9.80	+10 47.4	2.335	3.190	11.0	21.9
4 21	11 5.02	+10 39.9	2.432	3.192	13.5	22.1

26546 Arulmani 3 12.9 62.°19 0.°6/12.3 18

2 11	11 52.35	+ 1 59.1	2.023	2.880	11.6	19.4
2 21	11 47.47	+ 2 44.9	1.952	2.881	8.2	19.2
3 2	11 40.93	+ 3 41.1	1.908	2.883	4.3	19.0
3 12	11 33.43	+ 4 42.1	1.891	2.884	0.6	18.7
3 22	11 25.82	+ 5 41.8	1.903	2.886	4.0	19.0
4 1	11 18.97	+ 6 34.0	1.944	2.888	7.9	19.2
4 11	11 13.63	+ 7 14.2	2.009	2.889	11.4	19.4
4 21	11 10.25	+ 7 39.8	2.097	2.891	14.4	19.6

467668 2008 UQ_{106} 3 12.9 216.°23 2.°0/11.1 17

2 11	11 55.42	+ 7 11.0	2.044	2.907	11.3	21.5
2 21	11 49.64	+ 7 45.9	1.972	2.905	7.9	21.2
3 2	11 42.10	+ 8 26.0	1.927	2.902	4.2	21.0
3 12	11 33.53	+ 9 5.8	1.909	2.900	2.0	20.9
3 22	11 24.84	+ 9 39.9	1.921	2.897	4.9	21.0
4 1	11 16.96	+10 3.5	1.961	2.894	8.6	21.3
4 11	11 10.65	+10 13.8	2.026	2.891	12.0	21.5
4 21	11 6.41	+10 9.8	2.112	2.887	14.9	21.7

50832 2000 FH_{39} 3 12.9 354.°68 1.°7/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 53.00	+ 5 39.0	2.015	2.880	11.3	18.9
2 21	11 47.94	+ 6 22.9	1.946	2.879	7.9	18.7
3 2	11 41.18	+ 7 13.8	1.903	2.879	4.2	18.5
3 12	11 33.45	+ 8 6.0	1.887	2.879	1.7	18.3
3 22	11 25.61	+ 8 53.3	1.901	2.879	4.7	18.5
4 1	11 18.55	+ 9 30.6	1.942	2.878	8.5	18.7
4 11	11 13.03	+ 9 54.2	2.008	2.878	11.9	18.9
4 21	11 9.50	+10 2.6	2.095	2.878	14.7	19.1

303309 2004 TV_{41} 3 12.9 214.°60 1.°6/11.7 17

2 11	11 59.82	+ 5 32.0	1.781	2.640	12.9	21.3
2 21	11 53.04	+ 6 2.9	1.703	2.633	9.1	21.1
3 2	11 44.06	+ 6 41.4	1.651	2.626	4.8	20.8
3 12	11 33.73	+ 7 21.7	1.626	2.618	1.6	20.6
3 22	11 23.16	+ 7 57.4	1.630	2.609	5.2	20.8
4 1	11 13.51	+ 8 23.0	1.663	2.600	9.6	21.0
4 11	11 5.78	+ 8 34.6	1.720	2.590	13.5	21.2
4 21	11 0.54	+ 8 30.9	1.797	2.580	16.9	21.4

352059 2006 WW_{36} 3 12.9 289.°33 5.°6/ 5.9 17

2 11	11 52.95	+19 51.3	2.327	3.198	9.8	20.6
2 21	11 47.77	+20 59.6	2.270	3.195	7.4	20.4
3 2	11 41.04	+22 3.2	2.239	3.193	5.8	20.3
3 12	11 33.45	+22 55.5	2.237	3.190	6.0	20.3
3 22	11 25.78	+23 31.2	2.262	3.187	7.9	20.4
4 1	11 18.86	+23 47.1	2.313	3.185	10.3	20.6
4 11	11 13.36	+23 42.8	2.387	3.182	12.7	20.8
4 21	11 9.72	+23 19.7	2.480	3.180	14.8	20.9

385946 2006 UD_{199} 3 12.9 26.°09 1.°3/11.6 17

2 11	11 52.19	+ 5 1.2	2.128	2.990	10.9	21.1
2 21	11 47.28	+ 5 37.7	2.061	2.994	7.6	20.9
3 2	11 40.79	+ 6 21.0	2.021	2.998	4.0	20.7
3 12	11 33.44	+ 7 5.8	2.009	3.001	1.3	20.5
3 22	11 26.01	+ 7 46.8	2.026	3.006	4.3	20.7
4 1	11 19.33	+ 8 19.5	2.071	3.010	7.9	20.9
4 11	11 14.09	+ 8 40.2	2.141	3.015	11.1	21.1
4 21	11 10.72	+ 8 47.5	2.233	3.020	13.8	21.3

419663 2010 TG_{104} 3 12.9 187.°45 2.°2/10.9 16

2 11	11 57.83	+ 7 29.9	1.963	2.825	11.7	22.2
2 21	11 51.41	+ 8 12.1	1.893	2.824	8.2	22.0
3 2	11 43.08	+ 8 59.7	1.848	2.824	4.4	21.8
3 12	11 33.66	+ 9 46.5	1.833	2.822	2.3	21.6
3 22	11 24.10	+10 26.5	1.846	2.820	5.3	21.8
4 1	11 15.43	+10 54.6	1.888	2.818	9.1	22.0
4 11	11 8.47	+11 7.7	1.955	2.815	12.6	22.2
4 21	11 3.72	+11 5.3	2.042	2.811	15.5	22.4

114770 2003 JR_{14} 3 12.9 150.°79 3.°8/ 8.2 18

2 11	11 55.68	+14 41.9	2.620	3.482	9.1	20.3
2 21	11 49.46	+15 41.3	2.565	3.493	6.5	20.2
3 2	11 41.86	+16 39.4	2.539	3.504	4.3	20.0
3 12	11 33.54	+17 30.5	2.542	3.514	4.0	20.0
3 22	11 25.21	+18 10.2	2.576	3.523	5.9	20.2
4 1	11 17.60	+18 35.1	2.638	3.531	8.4	20.3
4 11	11 11.32	+18 44.2	2.725	3.539	10.8	20.5
4 21	11 6.74	+18 38.0	2.834	3.546	12.8	20.7

430494 2001 TZ_{224} 3 12.9 87.°17 10.°7/29.3 18

2 11	12 5.59	+42 0.7	2.443	3.240	11.9	20.8
2 21	11 56.48	+42 56.2	2.432	3.261	11.0	20.8
3 2	11 45.54	+43 29.2	2.444	3.281	10.7	20.8
3 12	11 33.86	+43 34.2	2.481	3.302	11.2	20.9
3 22	11 22.60	+43 9.4	2.540	3.322	12.2	21.0
4 1	11 12.80	+42 16.6	2.622	3.342	13.4	21.1
4 11	11 5.19	+41 0.2	2.723	3.362	14.7	21.2
4 21	11 0.08	+39 25.9	2.840	3.382	15.7	21.4

87522 2000 QK_{193} 3 12.9 210.°69 3.°4/ 8.9 18

2 11	11 52.76	+ 8 58.6	2.005	2.876	11.1	18.9
2 21	11 47.85	+10 33.3	1.936	2.872	7.7	18.7
3 2	11 41.19	+12 14.2	1.894	2.868	4.5	18.5
3 12	11 33.50	+13 52.9	1.882	2.864	3.7	18.4
3 22	11 25.64	+15 21.1	1.898	2.860	6.4	18.6
4 1	11 18.54	+16 32.0	1.942	2.855	9.9	18.8
4 11	11 12.98	+17 21.6	2.010	2.849	13.1	19.0
4 21	11 9.45	+17 49.3	2.098	2.844	15.9	19.1

93547 2000 UC_{23} 3 12.9 78.°65 1.°6/11.4 18

2 11	11 55.09	+ 4 34.5	1.817	2.681	12.4	19.5
2 21	11 49.38	+ 5 30.1	1.770	2.703	8.6	19.3
3 2	11 41.91	+ 6 33.4	1.748	2.725	4.5	19.1
3 12	11 33.56	+ 7 37.5	1.755	2.746	1.6	18.9
3 22	11 25.27	+ 8 35.5	1.790	2.768	4.9	19.2
4 1	11 18.01	+ 9 21.6	1.852	2.789	8.8	19.5
4 11	11 12.51	+ 9 52.2	1.940	2.811	12.2	19.7
4 21	11 9.16	+10 6.2	2.048	2.831	15.0	20.0

256222 2006 VE_{134} 3 12.9 116°.85 1°.9/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 55.54	+ 5 20.6	1.759	2.625	12.7	20.8
2 21	11 49.87	+ 6 15.0	1.699	2.633	8.8	20.6
3 2	11 42.27	+ 7 17.7	1.665	2.641	4.6	20.3
3 12	11 33.59	+ 8 21.3	1.658	2.649	1.9	20.1
3 22	11 24.87	+ 9 18.7	1.680	2.657	5.3	20.4
4 1	11 17.13	+10 3.6	1.729	2.665	9.4	20.6
4 11	11 11.20	+10 32.0	1.802	2.672	13.0	20.9
4 21	11 7.57	+10 42.8	1.895	2.679	16.0	21.1

96701 1999 JG_{105} 3 12.9 207°.69 4°.9/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.35	+13 22.7	1.780	2.653	12.2	20.0
2 21	11 51.29	+14 40.1	1.715	2.649	8.7	19.8
3 2	11 43.11	+15 59.0	1.675	2.644	5.7	19.6
3 12	11 33.68	+17 10.4	1.663	2.639	5.2	19.5
3 22	11 24.08	+18 6.1	1.679	2.633	7.9	19.7
4 1	11 15.44	+18 40.6	1.722	2.626	11.5	19.9
4 11	11 8.69	+18 51.8	1.787	2.619	14.8	20.1
4 21	11 4.37	+18 40.9	1.871	2.611	17.7	20.3

195051 2002 CB_{73} 3 12.9 120°.51 1°.8/11.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.67	+ 4 39.4	1.646	2.510	13.5	20.6
2 21	11 51.42	+ 5 37.3	1.591	2.524	9.4	20.3
3 2	11 43.11	+ 6 44.3	1.561	2.538	4.9	20.1
3 12	11 33.67	+ 7 52.8	1.559	2.551	1.8	19.9
3 22	11 24.24	+ 8 54.6	1.585	2.563	5.4	20.2
4 1	11 15.93	+ 9 43.1	1.639	2.576	9.7	20.5
4 11	11 9.63	+10 14.3	1.716	2.587	13.5	20.7
4 21	11 5.78	+10 26.9	1.814	2.598	16.6	21.0

372656 2009 WE_{52} 3 12.9 193°.99 0°.3/13.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.59	− 0 9.4	2.626	3.461	10.0	22.1
2 21	11 49.49	+ 0 18.1	2.542	3.458	7.2	21.9
3 2	11 41.95	+ 0 54.8	2.484	3.454	4.0	21.7
3 12	11 33.58	+ 1 37.1	2.457	3.450	0.6	21.5
3 22	11 25.05	+ 2 20.9	2.460	3.445	3.0	21.6
4 1	11 17.12	+ 3 1.9	2.495	3.439	6.4	21.9
4 11	11 10.42	+ 3 36.1	2.556	3.432	9.4	22.0
4 21	11 5.38	+ 4 1.0	2.642	3.425	12.0	22.2

61957 2000 RE_{19} 3 12.9 94°.71 3°.2/17.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.33	−11 53.1	2.418	3.215	12.0	19.0
2 21	11 45.85	−11 13.1	2.342	3.225	9.3	18.8
3 2	11 40.00	−10 14.5	2.292	3.236	6.3	18.6
3 12	11 33.39	− 9 0.6	2.269	3.246	3.8	18.5
3 22	11 26.73	− 7 36.3	2.275	3.257	3.6	18.5
4 1	11 20.71	− 6 8.0	2.311	3.267	6.1	18.7
4 11	11 15.95	− 4 42.3	2.375	3.277	9.0	18.9
4 21	11 12.84	− 3 24.8	2.463	3.287	11.6	19.1

411877 2012 FQ 3 12.9 23°.66 0°.5/12.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 51.03	− 0 46.9	1.515	2.379	14.4	20.6
2 21	11 46.97	+ 0 37.2	1.450	2.382	10.2	20.3
3 2	11 40.83	+ 2 19.9	1.409	2.385	5.4	20.1
3 12	11 33.47	+ 4 12.3	1.395	2.389	0.6	19.7
3 22	11 25.99	+ 6 3.6	1.409	2.393	4.9	20.1
4 1	11 19.49	+ 7 42.9	1.449	2.397	9.8	20.3
4 11	11 14.89	+ 9 2.3	1.513	2.401	14.0	20.6
4 21	11 12.69	+ 9 58.2	1.597	2.406	17.5	20.8

329783 2004 NY_{23} 3 12.9 165°.47 5°.3/ 5.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.27	+15 17.4	2.212	3.084	10.1	20.4
2 21	11 48.10	+17 29.2	2.157	3.089	7.4	20.3
3 2	11 41.28	+19 41.1	2.132	3.092	5.5	20.1
3 12	11 33.52	+21 43.3	2.137	3.096	5.8	20.2
3 22	11 25.62	+23 27.5	2.172	3.099	8.1	20.3
4 1	11 18.46	+24 48.1	2.234	3.101	10.8	20.5
4 11	11 12.75	+25 42.9	2.320	3.103	13.4	20.7
4 21	11 8.97	+26 12.9	2.424	3.104	15.5	20.8

54599 2000 QN_{244} 3 12.9 6°.69 0°.0/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 49.47	+ 1 19.0	2.852	3.699	8.9	19.3
2 21	11 45.09	+ 1 47.1	2.775	3.699	6.3	19.1
3 2	11 39.55	+ 2 22.4	2.726	3.699	3.4	18.9
3 12	11 33.36	+ 3 1.6	2.707	3.700	0.3	18.7
3 22	11 27.09	+ 3 41.1	2.717	3.701	2.8	18.9
4 1	11 21.34	+ 4 17.1	2.756	3.702	5.8	19.1
4 11	11 16.60	+ 4 46.3	2.823	3.703	8.5	19.3
4 21	11 13.26	+ 5 6.6	2.913	3.704	10.8	19.4

497308 2005 TL_{4} 3 12.9 209°.06 1°.1/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.59	+ 4 1.1	1.971	2.829	11.9	22.7
2 21	11 49.86	+ 4 39.9	1.896	2.825	8.3	22.4
3 2	11 42.28	+ 5 27.3	1.846	2.821	4.4	22.2
3 12	11 33.62	+ 6 17.8	1.825	2.817	1.1	21.9
3 22	11 24.78	+ 7 5.5	1.833	2.813	4.5	22.2
4 1	11 16.75	+ 7 44.5	1.869	2.808	8.5	22.4
4 11	11 10.34	+ 8 10.9	1.930	2.803	12.1	22.6
4 21	11 6.07	+ 8 22.7	2.012	2.798	15.2	22.8

147547 2004 EQ_{52} 3 12.9 242°.69 2°.5/10.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 55.65	+ 7 21.2	1.813	2.681	12.2	20.3
2 21	11 50.06	+ 8 13.2	1.738	2.673	8.6	20.0
3 2	11 42.46	+ 9 12.2	1.689	2.665	4.7	19.8
3 12	11 33.64	+10 11.0	1.667	2.656	2.6	19.6
3 22	11 24.60	+11 2.6	1.674	2.648	5.8	19.8
4 1	11 16.42	+11 40.7	1.708	2.639	9.8	20.0
4 11	11 10.00	+12 1.7	1.766	2.630	13.5	20.2
4 21	11 5.90	+12 4.5	1.844	2.621	16.7	20.4

293667 2007 PD_{19} 3 12.9 252°.44 1°.2/13.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.48	− 2 1.6	1.640	2.487	14.4	21.4
2 21	11 51.66	− 1 41.6	1.552	2.473	10.6	21.1
3 2	11 43.47	− 1 5.3	1.488	2.458	6.1	20.8
3 12	11 33.74	− 0 16.9	1.450	2.442	1.5	20.4
3 22	11 23.60	+ 0 37.4	1.440	2.426	4.3	20.6
4 1	11 14.29	+ 1 30.1	1.457	2.410	9.2	20.8
4 11	11 6.92	+ 2 13.9	1.499	2.393	13.7	21.1
4 21	11 2.17	+ 2 44.2	1.561	2.376	17.6	21.3

15356 1995 DE 3 12.9 210°.36 2°.7/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.99	+ 6 35.5	2.034	2.900	11.2	18.0
2 21	11 48.01	+ 8 7.8	1.961	2.896	7.8	17.8
3 2	11 41.29	+ 9 48.8	1.915	2.891	4.2	17.6
3 12	11 33.53	+11 30.2	1.898	2.885	2.8	17.5
3 22	11 25.60	+13 3.8	1.911	2.879	5.8	17.7
4 1	11 18.40	+14 22.3	1.953	2.873	9.4	17.9
4 11	11 12.70	+15 21.1	2.019	2.866	12.8	18.1
4 21	11 9.02	+15 58.6	2.105	2.859	15.6	18.3

429228 2010 AB_{20} 3 12.9 28°.10 2°.9/10.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 53.75	+ 8 32.6	1.820	2.692	11.9	21.1
2 21	11 48.61	+ 9 27.5	1.757	2.694	8.3	20.9
3 2	11 41.61	+10 27.5	1.721	2.696	4.6	20.6
3 12	11 33.56	+11 25.4	1.711	2.699	3.0	20.5
3 22	11 25.42	+12 14.2	1.730	2.701	5.9	20.7
4 1	11 18.18	+12 48.5	1.776	2.704	9.7	20.9
4 11	11 12.66	+13 5.2	1.845	2.706	13.1	21.2
4 21	11 9.33	+13 3.9	1.934	2.709	16.1	21.4

498115 2007 RR_{325} 3 12.9 167°.50 1°.1/11.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 52.83	+ 5 21.0	3.124	3.972	8.2	22.8
2 21	11 47.33	+ 6 0.7	3.052	3.978	5.7	22.7
3 2	11 40.71	+ 6 44.8	3.008	3.983	3.0	22.5
3 12	11 33.48	+ 7 29.7	2.996	3.987	1.1	22.3
3 22	11 26.19	+ 8 11.6	3.015	3.991	3.3	22.5
4 1	11 19.41	+ 8 47.2	3.064	3.994	6.0	22.7
4 11	11 13.66	+ 9 14.0	3.140	3.997	8.4	22.9
4 21	11 9.26	+ 9 30.5	3.241	3.999	10.5	23.0

168913 2000 YA_{3} 3 12.9 200°.66 3°.3/16.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.22	− 8 37.5	1.854	2.672	14.3	20.9
2 21	11 50.47	− 8 22.3	1.771	2.669	10.9	20.7
3 2	11 42.69	− 7 46.8	1.711	2.665	7.2	20.4
3 12	11 33.67	− 6 53.9	1.678	2.661	3.8	20.2
3 22	11 24.39	− 5 48.8	1.673	2.657	4.3	20.2
4 1	11 15.94	− 4 38.8	1.696	2.652	7.9	20.4
4 11	11 9.22	− 3 31.6	1.746	2.646	11.8	20.6
4 21	11 4.81	− 2 33.7	1.817	2.640	15.1	20.8

80041 1999 JK_{38} 3 12.9 155°.53 4°.9/20.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 50.86	−18 19.6	2.621	3.375	12.3	19.2
2 21	11 46.22	−17 55.4	2.534	3.379	10.1	19.0
3 2	11 40.22	−17 10.2	2.471	3.383	7.7	18.9
3 12	11 33.44	−16 5.6	2.434	3.387	5.6	18.7
3 22	11 26.56	−14 45.3	2.425	3.390	5.0	18.7
4 1	11 20.28	−13 14.8	2.446	3.393	6.3	18.8
4 11	11 15.19	−11 41.0	2.495	3.396	8.6	18.9
4 21	11 11.72	−10 10.2	2.569	3.399	11.0	19.1

466993 2016 CQ_{4} 3 12.9 79°.46 1°.5/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 55.05	+ 2 35.5	1.483	2.352	14.4	21.2
2 21	11 49.71	+ 3 49.1	1.433	2.368	10.0	21.0
3 2	11 42.24	+ 5 15.5	1.408	2.385	5.2	20.8
3 12	11 33.62	+ 6 45.3	1.409	2.401	1.5	20.5
3 22	11 25.04	+ 8 8.8	1.437	2.418	5.5	20.8
4 1	11 17.64	+ 9 17.6	1.492	2.434	10.1	21.2
4 11	11 12.31	+10 6.2	1.571	2.450	14.1	21.4
4 21	11 9.50	+10 33.3	1.669	2.466	17.3	21.7

301288 2009 BA_{110} 3 12.9 299°.77 8°.5/19.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.52	−20 44.1	2.138	2.878	15.1	20.3
2 21	11 51.53	−21 54.3	2.035	2.860	13.0	20.1
3 2	11 43.39	−22 43.9	1.955	2.841	10.8	19.9
3 12	11 33.76	−23 9.6	1.898	2.822	9.0	19.8
3 22	11 23.56	−23 10.8	1.868	2.804	8.6	19.7
4 1	11 13.90	−22 49.7	1.864	2.786	9.7	19.7
4 11	11 5.78	−22 12.4	1.885	2.768	11.9	19.8
4 21	10 59.94	−21 26.2	1.928	2.750	14.4	19.9

380131 1998 SZ_{77} 3 12.9 131°.00 0°.6/13.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 53.06	− 2 15.4	2.744	3.574	9.8	22.3
2 21	11 47.57	− 1 30.8	2.679	3.592	7.0	22.1
3 2	11 40.86	− 0 36.1	2.641	3.609	3.9	22.0
3 12	11 33.50	+ 0 24.8	2.633	3.626	0.9	21.7
3 22	11 26.14	+ 1 27.2	2.656	3.641	2.8	21.9
4 1	11 19.39	+ 2 26.5	2.710	3.657	5.8	22.1
4 11	11 13.81	+ 3 18.5	2.791	3.671	8.6	22.3
4 21	11 9.75	+ 4 0.5	2.897	3.685	11.0	22.5

426558 2013 RV_{91} 3 12.9 263°.46 5°.7/18.0 17

2 11	11 56.43	−14 15.5	2.063	2.846	14.2	21.1
2 21	11 50.69	−14 37.6	1.958	2.825	11.6	20.8
3 2	11 42.90	−14 39.3	1.876	2.804	8.7	20.6
3 12	11 33.71	−14 20.1	1.819	2.782	6.2	20.4
3 22	11 24.05	−13 42.0	1.791	2.760	5.9	20.3
4 1	11 14.96	−12 49.8	1.790	2.737	8.2	20.4
4 11	11 7.41	−11 50.4	1.815	2.714	11.4	20.6
4 21	11 2.07	−10 51.4	1.863	2.691	14.6	20.7

497142 2004 RH_{38} 3 12.9 277°.43 0°.6/12.6 17

2 11	12 6.36	+ 5 34.5	1.961	2.804	12.6	21.4
2 21	11 57.82	+ 5 13.3	1.856	2.777	9.1	21.2
3 2	11 46.79	+ 4 55.5	1.777	2.749	4.9	20.9
3 12	11 34.08	+ 4 37.8	1.728	2.721	0.7	20.5
3 22	11 20.79	+ 4 17.3	1.711	2.693	4.5	20.7
4 1	11 8.21	+ 3 51.3	1.724	2.664	9.1	20.9
4 11	10 57.49	+ 3 17.8	1.765	2.634	13.3	21.1
4 21	10 49.37	+ 2 35.9	1.828	2.605	16.8	21.3

414263 2008 GP_{105} 3 12.9 111°.69 3°.4/ 9.5 18

2 11	11 56.76	+10 17.8	1.927	2.794	11.6	21.4
2 21	11 50.53	+11 23.6	1.879	2.813	8.1	21.2
3 2	11 42.55	+12 31.7	1.857	2.831	4.7	21.0
3 12	11 33.66	+13 34.6	1.865	2.848	3.6	21.0
3 22	11 24.83	+14 25.8	1.901	2.865	6.2	21.2
4 1	11 17.00	+15 0.6	1.964	2.881	9.6	21.4
4 11	11 10.91	+15 16.9	2.052	2.897	12.7	21.6
4 21	11 6.98	+15 15.3	2.160	2.912	15.3	21.8

166267 2002 GW_{87} 3 12.9 23°.76 4°.4/ 9.7 18

2 11	11 54.78	+ 9 35.2	1.157	2.048	15.8	19.0
2 21	11 50.02	+10 40.6	1.110	2.055	11.1	18.8
3 2	11 42.59	+11 51.7	1.085	2.062	6.3	18.5
3 12	11 33.67	+12 57.0	1.084	2.070	4.6	18.5
3 22	11 24.74	+13 46.2	1.107	2.079	8.3	18.7
4 1	11 17.27	+14 12.1	1.154	2.088	13.1	19.0
4 11	11 12.33	+14 12.4	1.220	2.099	17.3	19.3
4 21	11 10.41	+13 48.6	1.304	2.110	20.8	19.5

295659 2008 TM_{33} 3 12.9 232°.92 0°.0/12.9 17

2 11	11 56.49	− 0 23.9	1.587	2.442	14.4	21.8
2 21	11 50.95	+ 0 24.9	1.506	2.433	10.3	21.5
3 2	11 43.08	+ 1 30.7	1.449	2.423	5.7	21.2
3 12	11 33.73	+ 2 47.0	1.419	2.412	0.5	20.8
3 22	11 24.05	+ 4 5.5	1.417	2.402	4.7	21.1
4 1	11 15.29	+ 5 17.1	1.442	2.390	9.7	21.3
4 11	11 8.50	+ 6 14.4	1.491	2.378	14.2	21.6
4 21	11 4.34	+ 6 53.1	1.560	2.366	18.0	21.8

168014 2005 HS_{4} 3 12.9 307°.89 1°.6/11.3 17

2 11	11 52.17	+ 5 8.6	1.952	2.818	11.6	19.8
2 21	11 47.52	+ 5 56.0	1.872	2.806	8.1	19.6
3 2	11 41.08	+ 6 51.8	1.817	2.794	4.3	19.3
3 12	11 33.54	+ 7 50.3	1.791	2.782	1.7	19.1
3 22	11 25.79	+ 8 44.7	1.793	2.771	4.9	19.3
4 1	11 18.77	+ 9 29.2	1.822	2.760	8.8	19.5
4 11	11 13.27	+ 9 59.3	1.875	2.749	12.4	19.7
4 21	11 9.84	+10 13.0	1.950	2.738	15.5	19.9

345702 2006 UL_{357} 3 12.9 46°.57 0°.1/12.9 17

2 11	11 52.14	+ 1 13.7	2.157	3.010	11.2	21.1
2 21	11 47.23	+ 1 44.2	2.091	3.017	7.9	20.9
3 2	11 40.80	+ 2 24.1	2.051	3.025	4.2	20.6
3 12	11 33.51	+ 3 9.1	2.039	3.032	0.4	20.3
3 22	11 26.17	+ 3 53.9	2.056	3.040	3.5	20.6
4 1	11 19.57	+ 4 33.5	2.101	3.049	7.2	20.9
4 11	11 14.38	+ 5 3.9	2.173	3.057	10.5	21.1
4 21	11 11.02	+ 5 22.6	2.266	3.065	13.3	21.3

466771 2015 AF_{205} 3 12.9 158°.77 2°.9/ 9.9 17

2 11	11 53.84	+ 8 18.7	1.940	2.809	11.5	21.2
2 21	11 48.61	+ 9 25.6	1.876	2.811	8.0	21.0
3 2	11 41.61	+10 38.0	1.838	2.813	4.4	20.8
3 12	11 33.59	+11 48.6	1.829	2.815	3.0	20.7
3 22	11 25.48	+12 50.1	1.848	2.817	5.9	20.8
4 1	11 18.20	+13 36.9	1.894	2.818	9.5	21.1
4 11	11 12.55	+14 5.6	1.965	2.819	12.8	21.3
4 21	11 8.98	+14 15.6	2.056	2.820	15.6	21.5

31443 1999 CL_{2} 3 12.9 134°.82 3°.2/15.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 58.29	− 7 34.8	1.676	2.500	15.2	19.6
2 21	11 51.96	− 7 22.6	1.608	2.511	11.5	19.3
3 2	11 43.48	− 6 50.1	1.564	2.522	7.4	19.1
3 12	11 33.77	− 6 0.7	1.546	2.532	3.7	18.9
3 22	11 23.95	− 5 0.4	1.557	2.541	4.4	19.0
4 1	11 15.18	− 3 56.7	1.595	2.550	8.3	19.2
4 11	11 8.41	− 2 57.7	1.658	2.558	12.3	19.5
4 21	11 4.14	− 2 9.1	1.743	2.566	15.7	19.7

387037 2012 SJ_{54} 3 12.9 69°.02 0°.5/13.5 17

2 11	11 51.69	− 1 18.8	2.134	2.980	11.6	21.2
2 21	11 46.91	− 0 36.3	2.071	2.992	8.3	21.0
3 2	11 40.62	+ 0 18.2	2.033	3.005	4.6	20.8
3 12	11 33.50	+ 1 19.7	2.024	3.017	0.8	20.6
3 22	11 26.35	+ 2 22.6	2.044	3.030	3.4	20.8
4 1	11 19.96	+ 3 21.0	2.093	3.042	7.1	21.0
4 11	11 14.98	+ 4 9.8	2.167	3.055	10.4	21.3
4 21	11 11.83	+ 4 46.0	2.264	3.068	13.2	21.5

397126 2005 WV_{31} 3 12.9 180°.54 2°.9/10.5 18

2 11	11 59.41	+ 8 5.1	1.745	2.610	12.8	21.7
2 21	11 52.73	+ 9 0.9	1.678	2.611	9.0	21.5
3 2	11 43.89	+10 2.6	1.638	2.612	4.9	21.3
3 12	11 33.81	+11 2.5	1.625	2.613	3.0	21.1
3 22	11 23.60	+11 53.2	1.641	2.612	6.1	21.3
4 1	11 14.40	+12 28.7	1.684	2.611	10.2	21.6
4 11	11 7.17	+12 45.8	1.752	2.609	13.9	21.8
4 21	11 2.43	+12 44.3	1.839	2.606	17.1	22.0

370799 2004 TS_{125} 3 12.9 154°.74 3°.3/ 9.5 17

2 11	11 54.68	+10 25.1	2.080	2.948	10.9	20.9
2 21	11 49.10	+11 26.5	2.018	2.953	7.6	20.7
3 2	11 41.83	+12 30.9	1.984	2.957	4.4	20.5
3 12	11 33.62	+13 31.3	1.977	2.960	3.4	20.5
3 22	11 25.35	+14 21.5	2.000	2.964	6.0	20.6
4 1	11 17.89	+14 56.7	2.050	2.967	9.3	20.8
4 11	11 11.99	+15 14.6	2.125	2.970	12.3	21.0
4 21	11 8.10	+15 15.0	2.220	2.972	14.9	21.2

386199 2007 VM_{253} 3 12.9 104°.38 0°.1/12.9 18

2 11	11 52.34	+ 0 14.6	2.547	3.390	10.0	21.6
2 21	11 47.12	+ 1 5.6	2.489	3.411	7.1	21.5
3 2	11 40.64	+ 2 5.6	2.459	3.432	3.8	21.3
3 12	11 33.51	+ 3 9.8	2.459	3.452	0.3	21.0
3 22	11 26.40	+ 4 13.3	2.489	3.472	3.1	21.3
4 1	11 19.96	+ 5 11.0	2.548	3.492	6.3	21.5
4 11	11 14.75	+ 5 59.2	2.635	3.511	9.2	21.7
4 21	11 11.12	+ 6 35.4	2.746	3.529	11.6	21.9

147997 1996 RH_{26} 3 12.9 220°.19 0°.5/12.6 18

2 11	12 0.19	+ 2 3.7	1.717	2.569	13.6	20.7
2 21	11 53.48	+ 2 37.7	1.633	2.559	9.7	20.4
3 2	11 44.42	+ 3 23.9	1.574	2.548	5.2	20.1
3 12	11 33.88	+ 4 16.7	1.543	2.536	0.6	19.8
3 22	11 22.99	+ 5 9.0	1.541	2.524	4.8	20.1
4 1	11 13.00	+ 5 54.0	1.566	2.510	9.5	20.3
4 11	11 4.96	+ 6 25.9	1.617	2.495	13.8	20.5
4 21	10 59.53	+ 6 42.1	1.688	2.480	17.4	20.7

120718 1997 SF_{8} 3 12.9 220°.33 0°.2/13.1 18

2 11	11 59.04	+ 0 49.1	1.725	2.575	13.7	19.9
2 21	11 52.61	+ 1 9.0	1.644	2.568	9.8	19.7
3 2	11 43.92	+ 1 41.2	1.587	2.560	5.4	19.4
3 12	11 33.83	+ 2 21.0	1.559	2.552	0.6	19.0
3 22	11 23.46	+ 3 2.3	1.558	2.543	4.4	19.3
4 1	11 13.98	+ 3 38.8	1.586	2.534	9.0	19.5
4 11	11 6.43	+ 4 5.2	1.638	2.524	13.2	19.8
4 21	11 1.41	+ 4 18.2	1.712	2.514	16.8	20.0

52234 1978 UX_{7} 3 12.9 86°.73 1°.0/13.9 18

2 11	11 55.95	− 2 19.4	1.659	2.506	14.2	19.2
2 21	11 50.23	− 1 46.9	1.601	2.522	10.3	19.0
3 2	11 42.51	− 0 58.8	1.567	2.538	5.8	18.8
3 12	11 33.71	− 0 0.6	1.560	2.553	1.4	18.5
3 22	11 24.89	+ 1 0.7	1.582	2.568	4.0	18.7
4 1	11 17.15	+ 1 57.6	1.630	2.583	8.4	19.0
4 11	11 11.32	+ 2 44.1	1.704	2.598	12.3	19.3
4 21	11 7.86	+ 3 16.4	1.798	2.613	15.6	19.5

96042 2004 PZ_{90} 3 12.9 182°.00 0°.3/12.6 17

2 11	11 54.11	+ 1 34.7	2.508	3.352	10.1	21.0
2 21	11 48.50	+ 2 16.9	2.430	3.353	7.1	20.8
3 2	11 41.47	+ 3 7.9	2.380	3.353	3.8	20.6
3 12	11 33.61	+ 4 3.2	2.360	3.353	0.4	20.3
3 22	11 25.65	+ 4 57.9	2.370	3.352	3.4	20.5
4 1	11 18.30	+ 5 47.3	2.410	3.351	6.8	20.7
4 11	11 12.22	+ 6 27.2	2.477	3.349	9.8	20.9
4 21	11 7.82	+ 6 55.5	2.566	3.346	12.4	21.1