329780 2004 NW_7 4 10.9 212°.71 5°.4/ 4.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 43.46	+ 5 4.9	2.303	3.106	12.5	21.4
3 12	13 39.68	+ 6 20.7	2.216	3.099	10.0	21.2
3 22	13 33.94	+ 7 40.1	2.152	3.092	7.4	21.1
4 1	13 26.70	+ 8 56.5	2.116	3.084	5.6	20.9
4 11	13 18.67	+10 3.2	2.108	3.075	5.9	20.9
4 21	13 10.63	+10 54.4	2.128	3.067	8.1	21.0
5 1	13 3.37	+11 26.3	2.174	3.057	10.8	21.2
5 11	12 57.56	+11 37.4	2.243	3.047	13.4	21.4

3025 Higson 4 10.9 157°.34 8°.1/21.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.13	−38 30.2	2.852	3.445	14.5	16.1
3 12	13 41.18	−39 17.8	2.751	3.449	13.2	16.0
3 22	13 35.11	−39 46.2	2.666	3.452	11.6	15.8
4 1	13 27.36	−39 52.3	2.602	3.455	10.0	15.7
4 11	13 18.67	−39 34.4	2.561	3.457	8.7	15.6
4 21	13 9.90	−38 53.6	2.546	3.460	8.1	15.6
5 1	13 1.95	−37 53.4	2.556	3.462	8.5	15.6
5 11	12 55.56	−36 39.9	2.591	3.464	9.7	15.7

136957 1998 RQ_8 4 10.9 206°.46 1°.2/12.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.35	−13 36.4	1.983	2.747	15.6	20.7
3 12	13 42.47	−13 31.2	1.884	2.743	12.6	20.5
3 22	13 36.17	−13 11.4	1.806	2.739	9.1	20.3
4 1	13 27.97	−12 38.3	1.753	2.734	5.0	20.0
4 11	13 18.68	−11 54.9	1.728	2.729	1.3	19.8
4 21	13 9.32	−11 6.2	1.730	2.723	4.2	19.9
5 1	13 0.90	−10 18.4	1.761	2.716	8.4	20.2
5 11	12 54.27	− 9 37.3	1.816	2.710	12.2	20.4

234177 2000 QZ_1 4 10.9 243°.22 5°.0/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.44	+ 3 24.4	2.363	3.162	12.3	20.8
3 12	13 39.73	+ 4 45.0	2.260	3.143	9.8	20.6
3 22	13 34.05	+ 6 11.7	2.182	3.124	7.2	20.4
4 1	13 26.82	+ 7 38.2	2.132	3.103	5.2	20.2
4 11	13 18.69	+ 8 57.4	2.111	3.082	5.5	20.2
4 21	13 10.45	+10 2.8	2.118	3.060	7.9	20.3
5 1	13 2.90	+10 49.6	2.151	3.038	10.8	20.5
5 11	12 56.74	+11 15.5	2.208	3.014	13.5	20.6

38525 1999 TY_{288} 4 10.9 303°.53 2°.3/13.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.55	−17 26.1	2.346	3.095	13.8	18.9
3 12	13 37.54	−17 26.3	2.241	3.086	11.4	18.7
3 22	13 32.58	−17 12.0	2.157	3.078	8.5	18.5
4 1	13 26.07	−16 43.5	2.097	3.069	5.2	18.3
4 11	13 18.69	−16 3.1	2.065	3.061	2.5	18.1
4 21	13 11.23	−15 14.7	2.061	3.053	3.7	18.1
5 1	13 4.51	−14 23.3	2.085	3.045	7.0	18.3
5 11	12 59.21	−13 34.5	2.135	3.037	10.2	18.5

402914 2007 TB_{122} 4 11.0 142°.64 0°.8/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.55	− 8 19.6	1.819	2.690	12.4	21.4
3 22	13 36.78	− 7 42.1	1.759	2.701	8.6	21.2
4 1	13 28.19	− 6 55.5	1.725	2.711	4.3	20.9
4 11	13 18.70	− 6 5.1	1.719	2.721	0.8	20.7
4 21	13 9.31	− 5 16.6	1.741	2.729	4.8	21.0
5 1	13 1.03	− 4 35.8	1.791	2.738	9.0	21.3
5 11	12 54.61	− 4 7.1	1.866	2.745	12.6	21.5
5 21	12 50.47	− 3 52.6	1.961	2.752	15.6	21.7

335830 2007 LY_7 4 11.0 325°.92 4°.4/ 6.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 36.07	− 1 22.5	1.533	2.433	12.5	20.5
3 22	13 31.95	+ 0 13.9	1.466	2.421	8.7	20.2
4 1	13 25.87	+ 1 56.8	1.424	2.409	5.2	20.0
4 11	13 18.69	+ 3 36.2	1.409	2.398	4.9	20.0
4 21	13 11.45	+ 5 2.2	1.419	2.387	8.3	20.1
5 1	13 5.21	+ 6 6.8	1.453	2.377	12.4	20.3
5 11	13 0.83	+ 6 45.7	1.509	2.368	16.2	20.5
5 21	12 58.79	+ 6 58.3	1.581	2.359	19.3	20.7

20205 Sitanchen 4 11.0 213°.34 0°.5/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.51	− 8 33.0	1.867	2.742	11.9	18.9
3 22	13 34.75	− 8 5.8	1.798	2.741	8.3	18.6
4 1	13 27.20	− 7 29.7	1.754	2.741	4.2	18.4
4 11	13 18.70	− 6 49.2	1.738	2.740	0.5	18.1
4 21	13 10.20	− 6 9.4	1.750	2.739	4.6	18.4
5 1	13 2.64	− 5 35.7	1.789	2.739	8.7	18.6
5 11	12 56.81	− 5 12.4	1.852	2.738	12.3	18.9
5 21	12 53.14	− 5 2.1	1.935	2.737	15.4	19.1

408822 2001 FO_{219} 4 11.0 148°.10 0°.3/10.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.51	−10 3.0	2.040	2.904	11.5	22.9
3 22	13 35.92	− 9 19.2	1.978	2.916	8.0	22.7
4 1	13 27.72	− 8 25.6	1.942	2.926	4.1	22.4
4 11	13 18.71	− 7 26.8	1.934	2.936	0.3	22.1
4 21	13 9.80	− 6 28.5	1.956	2.946	4.3	22.5
5 1	13 1.88	− 5 36.3	2.007	2.954	8.1	22.7
5 11	12 55.62	− 4 55.0	2.083	2.962	11.5	23.0
5 21	12 51.42	− 4 27.2	2.180	2.968	14.3	23.2

518970 2010 HU_{51} 4 11.0 233°.24 7°.7/31.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 38.49	+19 12.7	2.657	3.514	9.4	22.2
3 22	13 32.96	+20 23.8	2.607	3.506	8.2	22.1
4 1	13 26.16	+21 23.1	2.584	3.498	7.7	22.0
4 11	13 18.71	+22 5.1	2.587	3.489	8.4	22.1
4 21	13 11.29	+22 26.4	2.616	3.480	9.8	22.1
5 1	13 4.58	+22 25.4	2.668	3.470	11.5	22.2
5 11	12 59.13	+22 3.0	2.741	3.461	13.2	22.4
5 21	12 55.31	+21 21.4	2.830	3.451	14.7	22.5

64967 2002 AV_1 4 11.0 50°.41 1°.5/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 37.86	− 5 42.2	2.065	2.946	10.7	19.0
3 22	13 32.68	− 5 2.5	2.010	2.957	7.3	18.8
4 1	13 26.05	− 4 17.3	1.981	2.968	3.7	18.6
4 11	13 18.72	− 3 31.5	1.980	2.980	1.6	18.5
4 21	13 11.48	− 2 50.1	2.007	2.992	4.7	18.7
5 1	13 5.13	− 2 17.6	2.061	3.004	8.2	18.9
5 11	13 0.27	− 1 57.1	2.140	3.016	11.4	19.2
5 21	12 57.27	− 1 50.2	2.240	3.028	14.0	19.4

211453 2003 BC_{33} 4 11.0 35°.21 1°.3/ 9.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 37.42	− 7 2.2	1.861	2.744	11.6	20.3
3 22	13 32.51	− 6 16.1	1.806	2.753	7.9	20.0
4 1	13 26.01	− 5 22.4	1.775	2.763	3.9	19.8
4 11	13 18.72	− 4 26.7	1.772	2.773	1.4	19.6
4 21	13 11.52	− 3 35.0	1.796	2.783	4.9	19.9
5 1	13 5.28	− 2 52.7	1.847	2.794	8.7	20.2
5 11	13 0.67	− 2 23.8	1.922	2.805	12.2	20.4
5 21	12 58.05	− 2 10.1	2.017	2.816	15.0	20.6

162663 2000 SS_{257} 4 11.0 113°.33 0°.6/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.33	−12 28.5	1.654	2.521	13.7	20.7
3 22	13 36.73	−11 48.7	1.600	2.537	9.6	20.5
4 1	13 28.19	−10 55.0	1.570	2.554	5.1	20.2
4 11	13 18.72	− 9 52.7	1.568	2.569	0.6	19.9
4 21	13 9.44	− 8 48.6	1.593	2.585	4.6	20.3
5 1	13 1.40	− 7 50.0	1.645	2.600	9.0	20.6
5 11	12 55.39	− 7 2.9	1.722	2.614	12.8	20.8
5 21	12 51.81	− 6 30.8	1.819	2.627	16.0	21.1

201068 2002 EF_{110} 4 11.0 326°.91 5°.1/ 7.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 36.98	− 1 18.9	1.126	2.037	15.1	19.3
3 22	13 33.20	+ 0 1.1	1.058	2.017	10.6	19.0
4 1	13 26.76	+ 1 29.2	1.011	1.998	6.3	18.7
4 11	13 18.72	+ 2 54.1	0.987	1.980	5.6	18.6
4 21	13 10.44	+ 4 3.6	0.986	1.963	9.8	18.8
5 1	13 3.41	+ 4 48.0	1.007	1.947	14.9	19.0
5 11	12 58.83	+ 5 2.1	1.046	1.932	19.7	19.2
5 21	12 57.33	+ 4 45.9	1.100	1.918	23.7	19.4

55938 1998 FO_{113} 4 11.0 128°.32 3°.3/14.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.73	−19 51.5	2.299	3.129	11.7	19.0
3 22	13 34.05	−19 54.8	2.221	3.131	8.9	18.8
4 1	13 26.82	−19 43.3	2.169	3.132	5.9	18.6
4 11	13 18.73	−19 18.5	2.144	3.133	3.5	18.5
4 21	13 10.60	−18 43.3	2.147	3.134	4.1	18.5
5 1	13 3.25	−18 2.4	2.178	3.135	6.9	18.7
5 11	12 57.38	−17 21.2	2.235	3.137	9.8	18.9
5 21	12 53.41	−16 44.2	2.315	3.138	12.5	19.1

68453 2001 SK_{36} 4 11.0 186°.29 0°.4/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 38.66	− 8 40.6	2.460	3.327	9.7	20.3
3 22	13 33.14	− 8 10.1	2.387	3.327	6.7	20.1
4 1	13 26.29	− 7 32.5	2.341	3.327	3.4	19.9
4 11	13 18.74	− 6 51.3	2.324	3.326	0.4	19.6
4 21	13 11.18	− 6 10.7	2.336	3.325	3.7	19.9
5 1	13 4.34	− 5 34.7	2.377	3.324	7.0	20.1
5 11	12 58.78	− 5 6.9	2.444	3.322	10.0	20.3
5 21	12 54.91	− 4 49.7	2.533	3.320	12.6	20.5

497430 2005 XA_{45} 4 11.0 203°.66 1°.6/12.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.38	−15 47.2	2.530	3.370	10.4	23.9
3 22	13 35.08	−15 24.4	2.443	3.364	7.6	23.7
4 1	13 27.32	−14 49.3	2.382	3.357	4.5	23.5
4 11	13 18.75	−14 4.6	2.351	3.349	1.7	23.3
4 21	13 10.10	−13 13.8	2.349	3.341	3.4	23.4
5 1	13 2.16	−12 21.7	2.377	3.331	6.6	23.6
5 11	12 55.57	−11 33.3	2.433	3.321	9.7	23.8
5 21	12 50.75	−10 52.6	2.511	3.310	12.4	23.9

390967 2005 QM_{76} 4 11.0 291°.91 6°.2/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 36.39	+ 7 34.0	2.114	3.003	10.1	20.7
3 22	13 31.83	+ 9 15.4	2.043	2.983	7.7	20.5
4 1	13 25.72	+10 54.4	1.999	2.962	6.3	20.3
4 11	13 18.74	+12 22.9	1.983	2.942	6.9	20.3
4 21	13 11.66	+13 33.8	1.994	2.921	9.2	20.4
5 1	13 5.30	+14 22.3	2.029	2.901	12.0	20.6
5 11	13 0.34	+14 46.3	2.086	2.880	14.6	20.7
5 21	12 57.24	+14 46.6	2.160	2.860	16.9	20.9

282015 2011 HE_{71} 4 11.0 186°.84 0°.8/10.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 41.94	− 6 48.0	2.325	3.193	10.2	21.1
3 22	13 35.47	− 6 27.0	2.252	3.193	7.0	20.9
4 1	13 27.51	− 6 0.3	2.206	3.192	3.5	20.7
4 11	13 18.75	− 5 31.2	2.189	3.190	0.9	20.5
4 21	13 9.98	− 5 3.8	2.202	3.189	4.1	20.7
5 1	13 1.99	− 4 41.8	2.243	3.186	7.6	20.9
5 11	12 55.45	− 4 28.4	2.311	3.183	10.8	21.1
5 21	12 50.76	− 4 25.5	2.400	3.180	13.4	21.3

225973 2002 CR_{142} 4 11.0 109°.23 1°.2/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.09	−13 57.9	1.907	2.766	12.5	21.1
3 22	13 35.06	−13 30.6	1.846	2.778	8.9	20.9
4 1	13 27.33	−12 49.8	1.809	2.790	4.9	20.6
4 11	13 18.75	−11 59.7	1.801	2.801	1.3	20.4
4 21	13 10.26	−11 5.4	1.820	2.813	4.0	20.6
5 1	13 2.80	−10 13.1	1.867	2.824	7.9	20.9
5 11	12 57.08	− 9 28.4	1.940	2.835	11.4	21.1
5 21	12 53.50	− 8 55.2	2.033	2.845	14.4	21.3

366415 2001 TS_{110} 4 11.0 189°.17 1°.2/12.4 13 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.88	−14 59.4	2.614	3.456	10.1	23.0
3 22	13 34.66	−14 25.6	2.532	3.455	7.3	22.8
4 1	13 27.07	−13 40.1	2.476	3.453	4.1	22.6
4 11	13 18.75	−12 46.0	2.450	3.450	1.3	22.4
4 21	13 10.42	−11 47.3	2.455	3.446	3.2	22.6
5 1	13 2.79	−10 48.9	2.489	3.442	6.4	22.8
5 11	12 56.47	− 9 55.5	2.551	3.436	9.4	22.9
5 21	12 51.83	− 9 10.8	2.636	3.430	12.0	23.1

276598 2003 TK_{18} 4 11.0 218°.96 4°.3/ 6.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.75	+ 5 10.2	2.509	3.387	9.2	21.3
3 22	13 34.58	+ 5 58.7	2.439	3.378	6.7	21.1
4 1	13 27.04	+ 6 44.9	2.396	3.368	4.7	20.9
4 11	13 18.76	+ 7 23.5	2.382	3.357	4.6	20.9
4 21	13 10.45	+ 7 50.6	2.396	3.346	6.7	21.0
5 1	13 2.85	+ 8 3.0	2.439	3.334	9.3	21.2
5 11	12 56.55	+ 7 59.6	2.505	3.322	11.8	21.3
5 21	12 51.95	+ 7 40.8	2.591	3.309	14.0	21.5

30576 2001 OC_{103} 4 11.0 208°.54 3°.0/14.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 38.78	−21 8.3	2.729	3.548	10.4	19.2
3 22	13 33.24	−20 52.9	2.640	3.542	8.0	19.0
4 1	13 26.37	−20 23.2	2.577	3.536	5.3	18.8
4 11	13 18.76	−19 40.9	2.542	3.530	3.2	18.7
4 21	13 11.10	−18 48.9	2.536	3.523	3.6	18.7
5 1	13 4.08	−17 51.8	2.559	3.515	6.1	18.8
5 11	12 58.29	−16 54.5	2.609	3.507	8.8	19.0
5 21	12 54.14	−16 1.7	2.684	3.499	11.2	19.2

347565 2000 VX 4 11.0 267°.72 2°.7/ 8.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.41	− 0 43.9	2.318	3.199	9.7	20.8
3 22	13 33.73	− 0 14.6	2.247	3.193	6.7	20.6
4 1	13 26.63	+ 0 16.0	2.202	3.186	3.8	20.4
4 11	13 18.77	+ 0 43.6	2.187	3.180	2.8	20.3
4 21	13 10.88	+ 1 4.2	2.199	3.174	5.3	20.5
5 1	13 3.73	+ 1 14.6	2.240	3.168	8.5	20.6
5 11	12 57.94	+ 1 12.7	2.305	3.161	11.4	20.8
5 21	12 53.93	+ 0 57.9	2.391	3.155	13.9	21.0

498680 2008 SH_{242} 4 11.0 215°.90 0°.9/10.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.30	− 6 5.6	2.176	3.046	10.7	21.5
3 22	13 36.54	− 5 57.5	2.100	3.041	7.4	21.3
4 1	13 28.12	− 5 44.3	2.049	3.035	3.8	21.0
4 11	13 18.77	− 5 29.2	2.028	3.029	0.9	20.8
4 21	13 9.36	− 5 15.8	2.036	3.023	4.4	21.0
5 1	13 0.77	− 5 7.7	2.073	3.017	8.1	21.2
5 11	12 53.74	− 5 7.7	2.135	3.010	11.4	21.4
5 21	12 48.72	− 5 17.6	2.218	3.003	14.2	21.6

308519 2005 UE_{50} 4 11.0 145°.28 0°.3/11.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.38	−10 45.6	2.155	3.016	11.2	21.3
3 22	13 35.82	−10 23.5	2.090	3.026	7.8	21.1
4 1	13 27.69	− 9 52.1	2.052	3.035	4.1	20.8
4 11	13 18.77	− 9 14.8	2.042	3.044	0.3	20.5
4 21	13 9.92	− 8 36.2	2.061	3.052	3.8	20.8
5 1	13 1.98	− 8 0.7	2.109	3.059	7.5	21.1
5 11	12 55.62	− 7 32.8	2.183	3.067	10.8	21.3
5 21	12 51.25	− 7 15.1	2.278	3.073	13.6	21.5

211463 2003 BD_{93} 4 11.0 5°.48 6°.1/ 4.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 38.04	+ 8 14.7	2.031	2.919	10.5	19.6
3 22	13 32.88	+ 9 21.0	1.980	2.919	7.9	19.5
4 1	13 26.20	+10 21.5	1.954	2.919	6.2	19.4
4 11	13 18.77	+11 9.4	1.956	2.920	6.6	19.4
4 21	13 11.41	+11 39.8	1.983	2.920	8.7	19.5
5 1	13 4.93	+11 49.6	2.036	2.921	11.3	19.7
5 11	12 59.97	+11 38.4	2.110	2.922	13.9	19.8
5 21	12 56.92	+11 8.0	2.203	2.924	16.1	20.0

140715 2001 UV_{91} 4 11.0 230°.74 3°.0/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 38.90	+ 0 59.1	2.650	3.528	8.7	21.0
3 22	13 33.28	+ 1 43.6	2.573	3.517	6.1	20.9
4 1	13 26.38	+ 2 28.8	2.524	3.505	3.7	20.7
4 11	13 18.78	+ 3 10.2	2.505	3.492	3.3	20.6
4 21	13 11.14	+ 3 43.8	2.514	3.480	5.4	20.8
5 1	13 4.12	+ 4 6.2	2.552	3.466	8.2	20.9
5 11	12 58.29	+ 4 15.5	2.615	3.452	10.8	21.1
5 21	12 54.03	+ 4 11.2	2.699	3.438	13.0	21.2

32030 2000 JX_{14} 4 11.0 85°.75 3°.8/ 7.6 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.81	+ 2 0.8	2.066	2.950	10.5	18.4
3 22	13 34.75	+ 2 35.4	2.010	2.955	7.4	18.2
4 1	13 27.15	+ 3 8.8	1.979	2.960	4.6	18.0
4 11	13 18.79	+ 3 35.9	1.977	2.965	4.0	18.0
4 21	13 10.51	+ 3 52.5	2.003	2.970	6.4	18.2
5 1	13 3.14	+ 3 55.5	2.055	2.975	9.6	18.4
5 11	12 57.35	+ 3 43.7	2.131	2.980	12.5	18.6
5 21	12 53.51	+ 3 17.4	2.228	2.985	15.0	18.7

408781 1999 VP_{57} 4 11.0 162°.26 0°.9/10.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.11	− 7 37.1	2.015	2.884	11.4	22.3
3 22	13 36.41	− 7 0.0	1.950	2.891	7.9	22.1
4 1	13 28.03	− 6 15.1	1.911	2.897	4.0	21.9
4 11	13 18.79	− 5 27.2	1.901	2.902	1.0	21.7
4 21	13 9.61	− 4 41.4	1.920	2.907	4.6	21.9
5 1	13 1.40	− 4 2.9	1.967	2.911	8.5	22.2
5 11	12 54.87	− 3 35.7	2.039	2.914	11.9	22.4
5 21	12 50.45	− 3 21.9	2.133	2.916	14.8	22.6

37857 1998 EV_{14} 4 11.0 64°.25 0°.7/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 38.14	−11 49.2	1.610	2.487	13.4	19.0
3 22	13 33.13	−10 13.3	1.561	2.506	9.2	18.8
4 1	13 26.36	− 8 22.9	1.538	2.525	4.6	18.5
4 11	13 18.79	− 6 26.6	1.542	2.544	0.7	18.3
4 21	13 11.44	− 4 34.6	1.574	2.563	5.1	18.7
5 1	13 5.26	− 2 56.0	1.633	2.582	9.5	19.0
5 11	13 0.95	− 1 37.2	1.717	2.602	13.2	19.2
5 21	12 58.84	− 0 41.0	1.820	2.621	16.3	19.5

7492 Kačenka 4 11.0 193°.04 0°.3/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.07	− 9 56.3	2.053	2.918	11.5	19.4
3 22	13 35.76	− 9 13.5	1.978	2.916	8.0	19.2
4 1	13 27.74	− 8 20.4	1.929	2.914	4.1	18.9
4 11	13 18.81	− 7 21.4	1.908	2.910	0.3	18.6
4 21	13 9.85	− 6 22.2	1.917	2.906	4.3	18.9
5 1	13 1.77	− 5 28.6	1.954	2.901	8.3	19.1
5 11	12 55.32	− 4 45.7	2.017	2.896	11.8	19.4
5 21	12 50.95	− 4 16.5	2.101	2.890	14.8	19.5

88640 2001 RU_{49} 4 11.0 24°.41 5°.2/16.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 37.26	−24 56.0	1.392	2.232	17.3	18.2
3 22	13 33.01	−24 17.6	1.328	2.237	13.5	17.9
4 1	13 26.50	−23 8.0	1.284	2.244	9.4	17.7
4 11	13 18.80	−21 30.9	1.264	2.251	5.8	17.5
4 21	13 11.19	−19 34.7	1.269	2.259	5.8	17.5
5 1	13 4.89	−17 31.6	1.299	2.267	9.3	17.8
5 11	13 0.83	−15 34.4	1.353	2.277	13.4	18.0
5 21	12 59.44	−13 52.6	1.428	2.286	17.1	18.3

225603 2000 YT_{39} 4 11.0 100°.00 2°.9/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.92	− 1 4.9	2.135	3.014	10.5	20.8
3 22	13 35.33	− 0 13.5	2.095	3.040	7.2	20.6
4 1	13 27.37	+ 0 39.0	2.082	3.065	4.0	20.5
4 11	13 18.81	+ 1 27.0	2.098	3.090	3.1	20.5
4 21	13 10.48	+ 2 5.9	2.143	3.114	5.7	20.7
5 1	13 3.16	+ 2 32.1	2.215	3.138	8.8	20.9
5 11	12 57.40	+ 2 43.6	2.312	3.161	11.6	21.1
5 21	12 53.55	+ 2 40.5	2.430	3.184	14.0	21.3

240040 2001 UG_{132} 4 11.0 172°.36 2°.7/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 38.99	+ 1 18.8	2.990	3.865	7.9	21.7
3 22	13 33.16	+ 1 56.0	2.927	3.868	5.5	21.5
4 1	13 26.26	+ 2 33.0	2.892	3.871	3.4	21.4
4 11	13 18.82	+ 3 6.0	2.886	3.874	2.9	21.3
4 21	13 11.42	+ 3 31.9	2.911	3.876	4.8	21.5
5 1	13 4.63	+ 3 48.1	2.965	3.877	7.2	21.6
5 11	12 58.92	+ 3 53.2	3.044	3.878	9.5	21.8
5 21	12 54.62	+ 3 46.7	3.145	3.878	11.5	21.9

185028 2006 QL_{68} 4 11.0 127°.09 0°.9/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.34	−12 48.1	1.882	2.741	12.6	21.6
3 22	13 36.64	−12 23.0	1.822	2.755	8.9	21.4
4 1	13 28.17	−11 45.5	1.787	2.769	4.8	21.2
4 11	13 18.82	−10 59.5	1.781	2.782	1.0	20.9
4 21	13 9.59	−10 10.4	1.802	2.794	4.1	21.2
5 1	13 1.44	− 9 23.9	1.852	2.806	8.1	21.4
5 11	12 55.12	− 8 45.4	1.927	2.818	11.7	21.7
5 21	12 51.04	− 8 18.5	2.023	2.828	14.7	21.9

458936 2011 UW_{321} 4 11.0 130°.59 3°.8/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 43.67	− 0 14.3	1.868	2.750	11.6	22.4
3 22	13 36.75	+ 0 55.9	1.822	2.768	8.0	22.2
4 1	13 28.17	+ 2 7.3	1.803	2.785	4.7	22.0
4 11	13 18.82	+ 3 12.6	1.812	2.801	4.1	22.0
4 21	13 9.69	+ 4 5.6	1.850	2.817	6.9	22.2
5 1	13 1.68	+ 4 41.7	1.914	2.831	10.3	22.4
5 11	12 55.49	+ 4 59.0	2.002	2.845	13.4	22.7
5 21	12 51.46	+ 4 57.7	2.109	2.858	16.0	22.9

308619 2005 WT_{171} 4 11.0 160°.98 1°.5/ 9.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.95	− 5 28.3	2.295	3.167	10.1	22.1
3 22	13 34.76	− 4 43.9	2.231	3.174	6.9	21.9
4 1	13 27.15	− 3 54.2	2.194	3.180	3.5	21.7
4 11	13 18.83	− 3 3.8	2.186	3.185	1.6	21.5
4 21	13 10.56	− 2 17.5	2.208	3.190	4.6	21.7
5 1	13 3.11	− 1 39.7	2.258	3.195	8.0	22.0
5 11	12 57.11	− 1 13.6	2.334	3.198	11.0	22.2
5 21	12 52.92	− 1 0.7	2.431	3.201	13.5	22.3

289138 2004 VM_{7} 4 11.0 104°.97 2°.0/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.09	− 5 46.6	1.601	2.482	13.2	21.1
3 22	13 37.23	− 4 51.8	1.556	2.502	9.0	20.9
4 1	13 28.46	− 3 50.0	1.536	2.523	4.6	20.6
4 11	13 18.83	− 2 48.4	1.543	2.543	2.2	20.5
4 21	13 9.47	− 1 53.7	1.578	2.562	5.9	20.8
5 1	13 1.41	− 1 12.1	1.640	2.580	10.1	21.1
5 11	12 55.43	− 0 47.2	1.725	2.598	13.7	21.3
5 21	12 51.88	− 0 40.0	1.829	2.616	16.7	21.6

336941 2011 HG_{69} 4 11.0 95°.40 2°.5/ 8.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.84	− 2 45.7	1.866	2.750	11.5	21.1
3 22	13 34.97	− 2 10.1	1.803	2.750	7.9	20.8
4 1	13 27.35	− 1 30.9	1.765	2.751	4.2	20.6
4 11	13 18.83	− 0 53.6	1.754	2.751	2.7	20.5
4 21	13 10.33	− 0 23.3	1.771	2.751	5.8	20.7
5 1	13 2.79	− 0 4.4	1.815	2.752	9.6	20.9
5 11	12 56.96	+ 0 0.2	1.883	2.752	13.0	21.1
5 21	12 53.27	− 0 10.2	1.970	2.752	15.9	21.3

48905 1998 MH_{34} 4 11.0 198°.16 3°.4/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.31	− 1 56.4	1.697	2.580	12.5	19.5
3 22	13 37.55	− 0 57.9	1.630	2.577	8.7	19.3
4 1	13 28.75	+ 0 5.0	1.589	2.574	4.8	19.1
4 11	13 18.84	+ 1 5.0	1.575	2.569	3.6	19.0
4 21	13 8.92	+ 1 55.3	1.590	2.564	7.0	19.2
5 1	13 0.09	+ 2 29.9	1.630	2.558	11.0	19.4
5 11	12 53.22	+ 2 45.7	1.694	2.552	14.7	19.6
5 21	12 48.81	+ 2 42.0	1.776	2.544	17.8	19.8

8324 Juliadeleón 4 11.0 180°.94 3°.2/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.13	−20 10.7	1.950	2.782	13.4	18.6
3 22	13 36.64	−19 46.4	1.872	2.784	10.1	18.4
4 1	13 28.26	−19 2.9	1.818	2.785	6.5	18.2
4 11	13 18.84	−18 2.6	1.792	2.785	3.5	18.0
4 21	13 9.41	−16 50.7	1.794	2.784	4.4	18.1
5 1	13 0.97	−15 34.3	1.824	2.783	7.9	18.3
5 11	12 54.35	−14 21.2	1.880	2.781	11.5	18.5
5 21	12 50.02	−13 17.5	1.959	2.778	14.6	18.7

422706 2000 SP_{105} 4 11.0 118°.04 1°.2/12.2 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.31	−13 35.5	2.365	3.212	10.8	22.9
3 22	13 36.31	−13 21.0	2.308	3.234	7.7	22.7
4 1	13 27.91	−12 56.2	2.278	3.256	4.3	22.5
4 11	13 18.85	−12 23.9	2.277	3.277	1.3	22.3
4 21	13 9.92	−11 47.8	2.306	3.297	3.4	22.5
5 1	13 1.91	−11 12.2	2.364	3.317	6.7	22.8
5 11	12 55.42	−10 41.5	2.449	3.336	9.7	23.0
5 21	12 50.79	−10 18.5	2.557	3.354	12.2	23.2

352049 2006 VX_{145} 4 11.0 169°.06 1°.7/13.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 37.80	−17 31.3	3.275	4.105	8.6	22.5
3 22	13 32.34	−17 7.7	3.196	4.109	6.3	22.4
4 1	13 25.85	−16 33.9	3.144	4.114	3.9	22.2
4 11	13 18.84	−15 52.1	3.122	4.117	1.8	22.1
4 21	13 11.84	−15 4.9	3.130	4.121	2.7	22.1
5 1	13 5.39	−14 16.1	3.168	4.123	5.1	22.3
5 11	12 59.96	−13 29.3	3.234	4.125	7.5	22.5
5 21	12 55.86	−12 47.7	3.325	4.127	9.6	22.6

461473 2002 RC_{89} 4 11.0 246°.95 0°.7/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.27	−12 27.7	1.923	2.784	12.3	22.2
3 22	13 36.17	−11 58.1	1.833	2.767	8.8	21.9
4 1	13 28.10	−11 15.2	1.767	2.750	4.8	21.6
4 11	13 18.85	−10 22.4	1.729	2.731	0.8	21.3
4 21	13 9.40	− 9 25.2	1.720	2.712	4.3	21.5
5 1	13 0.77	− 8 29.8	1.739	2.692	8.6	21.7
5 11	12 53.85	− 7 42.6	1.782	2.672	12.6	21.9
5 21	12 49.20	− 7 7.9	1.847	2.651	16.0	22.1

150923 2001 TL_{61} 4 11.0 221°.40 0°.4/10.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 40.59	− 9 41.1	2.150	3.016	11.0	21.3
3 22	13 34.74	− 8 54.9	2.067	3.007	7.6	21.1
4 1	13 27.25	− 7 58.4	2.011	2.997	3.9	20.9
4 11	13 18.86	− 6 56.2	1.984	2.986	0.5	20.6
4 21	13 10.39	− 5 53.8	1.986	2.975	4.3	20.8
5 1	13 2.69	− 4 57.0	2.016	2.963	8.1	21.0
5 11	12 56.50	− 4 10.8	2.072	2.950	11.6	21.2
5 21	12 52.27	− 3 38.2	2.149	2.937	14.5	21.4

224444 2005 UY_{494} 4 11.0 217°.66 4°.9/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.10	+ 4 9.2	2.165	3.049	10.1	21.1
3 22	13 34.33	+ 5 26.9	2.098	3.041	7.3	20.9
4 1	13 27.02	+ 6 43.7	2.058	3.032	5.2	20.7
4 11	13 18.87	+ 7 52.6	2.047	3.022	5.3	20.7
4 21	13 10.70	+ 8 47.7	2.064	3.013	7.6	20.8
5 1	13 3.32	+ 9 24.5	2.107	3.002	10.6	21.0
5 11	12 57.41	+ 9 41.2	2.174	2.991	13.4	21.1
5 21	12 53.39	+ 9 38.1	2.259	2.979	15.8	21.3

411869 2012 EO 4 11.0 127°.16 2°.2/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.27	−16 1.1	1.774	2.626	13.6	21.6
3 22	13 36.76	−15 45.1	1.711	2.637	9.9	21.4
4 1	13 28.32	−15 13.1	1.671	2.647	5.8	21.2
4 11	13 18.88	−14 28.4	1.659	2.657	2.3	21.0
4 21	13 9.52	−13 36.2	1.674	2.667	4.3	21.1
5 1	13 1.28	−12 43.2	1.717	2.676	8.3	21.4
5 11	12 54.97	−11 55.8	1.785	2.684	12.0	21.6
5 21	12 51.05	−11 19.0	1.873	2.693	15.2	21.9

477449 2009 WW_{202} 4 11.0 99°.32 0°.0/11.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 35.45	− 9 46.1	3.268	4.128	7.8	22.2
3 22	13 30.68	− 9 19.6	3.206	4.142	5.4	22.1
4 1	13 25.00	− 8 47.4	3.171	4.155	2.7	21.9
4 11	13 18.87	− 8 12.3	3.166	4.169	0.0	21.6
4 21	13 12.80	− 7 37.1	3.192	4.182	2.7	21.9
5 1	13 7.26	− 7 4.7	3.247	4.195	5.3	22.1
5 11	13 2.67	− 6 37.9	3.328	4.208	7.6	22.3
5 21	12 59.31	− 6 18.5	3.434	4.220	9.6	22.4

239995 2001 SC_{193} 4 11.0 216°.13 0°.3/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.05	− 8 59.6	2.281	3.149	10.3	20.8
3 22	13 33.56	− 8 31.3	2.206	3.147	7.2	20.6
4 1	13 26.61	− 7 55.0	2.158	3.144	3.7	20.4
4 11	13 18.88	− 7 14.6	2.138	3.140	0.3	20.1
4 21	13 11.12	− 6 34.3	2.148	3.137	3.9	20.4
5 1	13 4.11	− 5 58.6	2.185	3.133	7.4	20.6
5 11	12 58.49	− 5 31.4	2.248	3.130	10.6	20.8
5 21	12 54.67	− 5 15.1	2.332	3.126	13.4	21.0

520888 2014 WH_{524} 4 11.0 52°.34 5°.8/16.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.23	−24 47.7	1.608	2.433	16.1	20.7
3 22	13 35.64	−24 53.9	1.543	2.442	12.7	20.5
4 1	13 27.85	−24 35.2	1.499	2.451	9.1	20.3
4 11	13 18.88	−23 52.5	1.480	2.460	6.3	20.2
4 21	13 9.95	−22 50.4	1.486	2.469	6.2	20.2
5 1	13 2.24	−21 36.9	1.518	2.478	9.0	20.4
5 11	12 56.67	−20 21.6	1.574	2.488	12.4	20.6
5 21	12 53.72	−19 12.5	1.650	2.498	15.7	20.8

65226 2002 EQ_{46} 4 11.0 294°.81 1°.4/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.97	−14 2.5	1.793	2.656	12.9	19.6
3 22	13 34.59	−13 43.2	1.716	2.649	9.4	19.4
4 1	13 27.28	−13 9.6	1.662	2.642	5.3	19.1
4 11	13 18.89	−12 24.9	1.635	2.636	1.6	18.9
4 21	13 10.39	−11 34.3	1.636	2.629	4.2	19.0
5 1	13 2.84	−10 44.1	1.663	2.622	8.5	19.3
5 11	12 57.06	−10 0.7	1.714	2.616	12.4	19.5
5 21	12 53.57	− 9 28.7	1.787	2.609	15.7	19.7

502743 2015 DU_{44} 4 11.0 197°.55 2°.7/ 8.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.96	− 1 51.9	2.125	3.007	10.4	21.6
3 22	13 34.23	− 1 4.4	2.058	3.005	7.2	21.4
4 1	13 26.96	− 0 13.9	2.019	3.003	4.0	21.2
4 11	13 18.89	+ 0 34.1	2.007	3.001	3.0	21.1
4 21	13 10.83	+ 1 14.6	2.024	2.999	5.7	21.3
5 1	13 3.59	+ 1 43.3	2.068	2.996	9.0	21.5
5 11	12 57.85	+ 1 57.5	2.136	2.993	12.1	21.7
5 21	12 54.02	+ 1 56.3	2.225	2.990	14.8	21.8

56291 1999 NG_{3} 4 11.0 195°.07 3°.3/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 38.83	− 0 39.0	2.359	3.240	9.5	20.0
3 22	13 33.33	+ 0 38.1	2.292	3.238	6.6	19.9
4 1	13 26.47	+ 1 57.9	2.253	3.235	3.9	19.7
4 11	13 18.90	+ 3 14.3	2.243	3.231	3.6	19.6
4 21	13 11.33	+ 4 21.5	2.263	3.227	6.0	19.8
5 1	13 4.49	+ 5 14.9	2.310	3.222	9.0	20.0
5 11	12 58.98	+ 5 51.4	2.382	3.217	11.8	20.1
5 21	12 55.18	+ 6 10.4	2.474	3.211	14.1	20.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
31003 1995 WQ_2			4 11.0 122°.64	6°.2/ 4.3 18		
	h m	° ′			°	m
3 12	13 40.69	+12 10.1	2.405	3.279	9.7	18.8
3 22	13 34.51	+12 56.1	2.359	3.285	7.6	18.7
4 1	13 27.02	+13 33.4	2.340	3.291	6.3	18.6
4 11	13 18.90	+13 57.1	2.348	3.297	6.6	18.6
4 21	13 10.91	+14 3.8	2.383	3.303	8.3	18.8
5 1	13 3.75	+13 52.1	2.444	3.309	10.4	18.9
5 11	12 58.01	+13 22.5	2.528	3.315	12.6	19.1
5 21	12 54.00	+12 37.0	2.630	3.320	14.4	19.2
380583 2004 RK_{209}			4 11.0 259°.60	1°.4/12.5 17		
3 12	13 39.80	−15 49.8	2.107	2.958	11.8	21.4
3 22	13 34.36	−15 3.4	2.009	2.936	8.6	21.1
4 1	13 27.16	−14 0.5	1.936	2.914	5.0	20.9
4 11	13 18.91	−12 44.5	1.891	2.891	1.5	20.6
4 21	13 10.46	−11 21.0	1.874	2.867	3.9	20.7
5 1	13 2.75	− 9 57.1	1.887	2.843	7.9	20.9
5 11	12 56.55	− 8 40.1	1.925	2.818	11.6	21.1
5 21	12 52.40	− 7 35.3	1.986	2.793	14.9	21.2
426423 2013 QU_{15}			4 11.0 269°.83	2°.6/13.1 17		
3 12	13 41.99	−16 48.4	1.763	2.615	13.7	21.5
3 22	13 36.20	−16 36.6	1.670	2.595	10.2	21.2
4 1	13 28.23	−16 7.4	1.601	2.576	6.2	21.0
4 11	13 18.91	−15 22.7	1.558	2.555	2.8	20.7
4 21	13 9.30	−14 27.3	1.542	2.535	4.6	20.8
5 1	13 0.56	−13 27.8	1.554	2.514	8.9	21.0
5 11	12 53.69	−12 32.0	1.589	2.493	13.0	21.2
5 21	12 49.31	−11 46.1	1.646	2.472	16.7	21.3
225706 2001 QE_{242}			4 11.0 215°.95	3°.3/13.9 18		
3 12	13 43.99	−18 50.7	2.102	2.935	12.5	20.9
3 22	13 37.27	−18 59.2	2.016	2.928	9.5	20.7
4 1	13 28.65	−18 52.5	1.955	2.920	6.2	20.5
4 11	13 18.92	−18 31.5	1.921	2.912	3.5	20.3
4 21	13 9.03	−17 59.2	1.915	2.904	4.4	20.3
5 1	12 59.97	−17 20.4	1.938	2.894	7.7	20.5
5 11	12 52.60	−16 41.0	1.987	2.885	11.1	20.7
5 21	12 47.45	−16 6.5	2.058	2.874	14.1	20.9
470684 2008 SD_{286}			4 11.0 212°.75	1°.0/10.0 17		
3 12	13 39.20	− 7 54.4	2.204	3.076	10.5	21.7
3 22	13 33.71	− 7 5.5	2.128	3.071	7.2	21.5
4 1	13 26.72	− 6 8.3	2.079	3.065	3.6	21.3
4 11	13 18.91	− 5 7.6	2.058	3.060	1.0	21.1
4 21	13 11.07	− 4 8.8	2.067	3.053	4.4	21.3
5 1	13 4.00	− 3 17.2	2.104	3.047	8.0	21.5
5 11	12 58.36	− 2 37.1	2.166	3.040	11.3	21.7
5 21	12 54.57	− 2 11.0	2.249	3.033	14.1	21.9
62455 2000 SK_{210}			4 11.0 288°.36	5°.6/ 6.1 18		
3 12	13 40.61	+ 0 39.5	1.434	2.331	13.4	19.3
3 22	13 35.53	+ 2 16.7	1.350	2.302	9.6	19.0
4 1	13 28.00	+ 4 1.2	1.291	2.273	6.2	18.7
4 11	13 18.92	+ 5 42.1	1.258	2.243	6.2	18.6
4 21	13 9.47	+ 7 8.0	1.250	2.213	9.9	18.8
5 1	13 0.98	+ 8 9.5	1.266	2.183	14.4	18.9
5 11	12 54.59	+ 8 41.4	1.302	2.153	18.7	19.1
5 21	12 50.97	+ 8 43.3	1.354	2.122	22.4	19.3
127650 2003 DC_2			4 11.0 52°.70	3°.7/ 6.8 17		
3 12	13 37.10	+ 0 57.4	2.179	3.067	9.9	20.3
3 22	13 32.20	+ 2 5.2	2.121	3.068	6.9	20.1
4 1	13 25.91	+ 3 13.8	2.089	3.070	4.3	19.9
4 11	13 18.91	+ 4 17.0	2.085	3.071	4.1	19.9
4 21	13 11.96	+ 5 9.3	2.109	3.072	6.5	20.1
5 1	13 5.78	+ 5 46.6	2.160	3.074	9.5	20.2
5 11	13 1.00	+ 6 6.4	2.234	3.075	12.3	20.4
5 21	12 57.97	+ 6 8.7	2.328	3.076	14.6	20.6
458739 2011 QE_{27}			4 11.1 206°.64	2°.8/13.3 17		
3 12	13 45.49	−17 32.1	1.806	2.649	13.8	22.2
3 22	13 38.51	−17 24.1	1.724	2.643	10.3	22.0
4 1	13 29.36	−16 58.8	1.665	2.637	6.4	21.7
4 11	13 18.94	−16 18.0	1.634	2.630	3.0	21.5
4 21	13 8.37	−15 26.2	1.631	2.622	4.6	21.6
5 1	12 58.82	−14 30.1	1.655	2.613	8.6	21.8
5 11	12 51.24	−13 37.0	1.705	2.603	12.6	22.0
5 21	12 46.19	−12 53.0	1.776	2.593	16.0	22.2
240492 2004 CE_{57}			4 11.1 267°.39	0°.7/10.4 17		
3 12	13 41.53	− 6 41.6	2.100	2.972	10.9	20.3
3 22	13 35.39	− 6 31.8	2.028	2.970	7.6	20.0
4 1	13 27.61	− 6 16.3	1.981	2.967	3.8	19.8
4 11	13 18.94	− 5 58.4	1.963	2.965	0.8	19.6
4 21	13 10.23	− 5 41.9	1.974	2.963	4.3	19.8
5 1	13 2.37	− 5 30.6	2.013	2.960	8.1	20.0
5 11	12 56.06	− 5 27.6	2.077	2.958	11.4	20.2
5 21	12 51.75	− 5 34.7	2.162	2.955	14.3	20.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
300971 2008 EQ_{38}			4 11.1 95°.06	1°.2/ 9.8 17		
	h m	° ′			°	m
3 12	13 39.83	− 5 3.9	2.381	3.255	9.8	20.3
3 22	13 34.00	− 4 45.8	2.318	3.261	6.7	20.1
4 1	13 26.81	− 4 23.7	2.281	3.267	3.4	19.9
4 11	13 18.93	− 4 1.1	2.273	3.273	1.3	19.7
4 21	13 11.10	− 3 41.5	2.294	3.279	4.2	20.0
5 1	13 4.04	− 3 28.3	2.344	3.285	7.4	20.2
5 11	12 58.33	− 3 23.8	2.419	3.291	10.4	20.4
5 21	12 54.35	− 3 29.5	2.515	3.297	12.8	20.5
3669 Vertinskij			4 11.1 66°.23	4°.0/ 8.4 18		
3 12	13 43.56	− 1 53.7	1.241	2.138	15.1	16.1
3 22	13 37.40	− 0 59.8	1.192	2.145	10.4	15.8
4 1	13 28.79	− 0 1.9	1.166	2.153	5.8	15.6
4 11	13 18.95	+ 0 51.1	1.165	2.161	4.2	15.5
4 21	13 9.28	+ 1 30.9	1.189	2.169	8.1	15.7
5 1	13 1.12	+ 1 51.3	1.237	2.177	12.7	16.0
5 11	12 55.44	+ 1 49.9	1.305	2.185	16.9	16.3
5 21	12 52.68	+ 1 27.4	1.391	2.193	20.4	16.5
34584 2000 SX_{351}			4 11.1 63°.35	8°.7/ 2.9 18		
3 12	13 40.65	+12 44.5	1.648	2.534	12.6	18.2
3 22	13 34.88	+14 12.8	1.616	2.547	10.1	18.0
4 1	13 27.32	+15 28.3	1.610	2.560	8.7	18.0
4 11	13 18.95	+16 22.3	1.628	2.573	9.4	18.0
4 21	13 10.82	+16 49.5	1.671	2.586	11.5	18.2
5 1	13 3.89	+16 48.1	1.736	2.599	14.1	18.4
5 11	12 58.89	+16 20.0	1.821	2.612	16.5	18.6
5 21	12 56.16	+15 29.2	1.922	2.626	18.6	18.8
474989 2005 TE_{127}			4 11.1 259°.12	0°.1/11.2 16		
3 12	13 38.10	−10 26.6	2.500	3.363	9.7	22.2
3 22	13 32.90	− 9 58.7	2.413	3.350	6.8	21.9
4 1	13 26.31	− 9 22.2	2.352	3.336	3.6	21.7
4 11	13 18.96	− 8 40.3	2.320	3.322	0.1	21.4
4 21	13 11.51	− 7 56.9	2.318	3.309	3.5	21.7
5 1	13 4.68	− 7 16.4	2.344	3.294	6.9	21.9
5 11	12 59.10	− 6 42.9	2.396	3.280	10.0	22.0
5 21	12 55.17	− 6 19.1	2.471	3.266	12.7	22.2
126963 2002 FG_{16}			4 11.1 104°.16	0°.8/11.7 17		
3 12	13 41.58	−11 41.4	1.874	2.740	12.4	19.8
3 22	13 35.57	−11 28.9	1.806	2.743	8.8	19.6
4 1	13 27.75	−11 5.3	1.763	2.746	4.7	19.3
4 11	13 18.96	−10 34.0	1.747	2.749	0.8	19.0
4 21	13 10.18	− 9 59.5	1.760	2.752	4.1	19.3
5 1	13 2.36	− 9 27.1	1.799	2.755	8.2	19.5
5 11	12 56.30	− 9 1.7	1.863	2.758	11.9	19.8
5 21	12 52.44	− 8 46.6	1.948	2.761	15.0	20.0
141040 2001 WM_{75}			4 11.1 338°.60	2°.4/13.6 17		
3 12	13 36.99	−18 20.7	2.062	2.908	12.2	19.7
3 22	13 32.33	−17 45.5	1.984	2.905	9.1	19.5
4 1	13 26.07	−16 53.4	1.930	2.902	5.6	19.3
4 11	13 18.95	−15 47.7	1.903	2.900	2.6	19.1
4 21	13 11.81	−14 33.5	1.905	2.897	3.8	19.2
5 1	13 5.49	−13 17.6	1.934	2.895	7.3	19.4
5 11	13 0.70	−12 6.8	1.988	2.893	10.7	19.6
5 21	12 57.86	−11 6.4	2.065	2.892	13.7	19.8
118747 2000 QB_{162}			4 11.1 195°.90	3°.0/ 7.7 17		
3 12	13 38.57	− 3 34.1	1.908	2.794	11.2	19.7
3 22	13 33.41	− 2 5.6	1.844	2.793	7.7	19.5
4 1	13 26.62	− 0 30.7	1.806	2.792	4.2	19.3
4 11	13 18.96	+ 1 2.9	1.796	2.790	3.3	19.2
4 21	13 11.33	+ 2 27.4	1.815	2.788	6.4	19.4
5 1	13 4.59	+ 3 36.1	1.861	2.786	10.1	19.6
5 11	12 59.46	+ 4 25.0	1.930	2.784	13.4	19.8
5 21	12 56.34	+ 4 52.8	2.018	2.781	16.2	20.0
372423 2009 SG_{25}			4 11.1 90°.47	1°.2/ 9.8 18		
3 12	13 39.12	− 9 2.7	1.776	2.654	12.3	21.1
3 22	13 33.77	− 7 42.2	1.723	2.669	8.4	20.9
4 1	13 26.76	− 6 11.0	1.696	2.684	4.2	20.7
4 11	13 18.97	− 4 36.6	1.698	2.698	1.4	20.5
4 21	13 11.34	− 3 7.0	1.727	2.713	5.2	20.8
5 1	13 4.76	− 1 49.8	1.784	2.727	9.2	21.0
5 11	12 59.93	− 0 50.0	1.864	2.741	12.7	21.3
5 21	12 57.19	− 0 9.9	1.965	2.755	15.6	21.5
106648 2000 WU_{135}			4 11.1 214°.42	5°.2/ 4.8 18		
3 12	13 41.09	+ 7 59.1	2.507	3.383	9.2	21.0
3 22	13 34.90	+ 9 3.8	2.440	3.374	7.0	20.8
4 1	13 27.32	+10 4.4	2.401	3.364	5.4	20.7
4 11	13 18.99	+10 55.2	2.390	3.353	5.6	20.7
4 21	13 10.64	+11 31.7	2.408	3.341	7.6	20.8
5 1	13 3.00	+11 50.7	2.453	3.328	10.0	20.9
5 11	12 56.67	+11 51.3	2.521	3.315	12.4	21.0
5 21	12 52.05	+11 34.4	2.608	3.301	14.4	21.2

384810 2012 QW_{41} 4 11.1 229°.50 3°.4/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 39.15	+ 0 40.3	2.422	3.303	9.3	21.6
3 22	13 33.61	+ 1 44.5	2.346	3.291	6.5	21.4
4 1	13 26.69	+ 2 50.5	2.297	3.278	4.0	21.3
4 11	13 18.99	+ 3 52.6	2.278	3.265	3.7	21.2
4 21	13 11.23	+ 4 45.7	2.288	3.251	6.1	21.3
5 1	13 4.14	+ 5 25.6	2.326	3.237	9.0	21.5
5 11	12 58.35	+ 5 49.5	2.387	3.222	11.8	21.6
5 21	12 54.25	+ 5 56.9	2.470	3.206	14.2	21.8

210147 Zalgiris 4 11.1 194°.89 0°.6/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 37.93	−12 40.3	2.404	3.262	10.3	20.9
3 22	13 32.77	−12 6.0	2.328	3.261	7.3	20.7
4 1	13 26.24	−11 21.2	2.278	3.260	3.9	20.5
4 11	13 18.99	−10 29.4	2.257	3.258	0.7	20.3
4 21	13 11.73	− 9 35.1	2.265	3.257	3.4	20.5
5 1	13 5.18	− 8 43.0	2.301	3.255	6.8	20.7
5 11	12 59.94	− 7 57.8	2.364	3.253	9.9	20.9
5 21	12 56.40	− 7 22.8	2.449	3.251	12.6	21.1

129415 2277 T-3 4 11.1 124°.29 2°.1/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.48	−15 6.1	1.573	2.431	14.7	20.5
3 22	13 38.50	−14 54.8	1.513	2.443	10.7	20.3
4 1	13 29.33	−14 26.9	1.477	2.455	6.2	20.1
4 11	13 19.02	−13 45.9	1.467	2.466	2.2	19.8
4 21	13 8.81	−12 57.4	1.484	2.477	4.6	20.0
5 1	12 59.91	−12 8.7	1.528	2.487	9.1	20.3
5 11	12 53.21	−11 26.6	1.596	2.497	13.1	20.6
5 21	12 49.18	−10 55.9	1.684	2.506	16.5	20.8

369358 2009 TW_{37} 4 11.1 177°.08 1°.6/12.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.32	−15 26.5	2.289	3.135	11.2	22.2
3 22	13 35.18	−15 2.0	2.213	3.137	8.1	22.0
4 1	13 27.51	−14 24.7	2.162	3.138	4.7	21.8
4 11	13 19.01	−13 37.5	2.140	3.140	1.7	21.6
4 21	13 10.51	−12 44.7	2.148	3.140	3.5	21.7
5 1	13 2.82	−11 51.4	2.184	3.140	7.0	21.9
5 11	12 56.61	−11 3.0	2.247	3.139	10.2	22.1
5 21	12 52.29	−10 23.5	2.332	3.138	13.0	22.3

376021 2010 AQ_{76} 4 11.1 136°.01 3°.3/ 7.3 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.00	+ 0 26.6	2.350	3.231	9.6	21.5
3 22	13 34.08	+ 1 28.6	2.299	3.244	6.7	21.4
4 1	13 26.86	+ 2 31.0	2.276	3.256	4.0	21.2
4 11	13 19.01	+ 3 28.4	2.281	3.269	3.6	21.2
4 21	13 11.28	+ 4 15.9	2.316	3.280	5.9	21.4
5 1	13 4.37	+ 4 50.0	2.378	3.291	8.7	21.6
5 11	12 58.84	+ 5 8.5	2.465	3.302	11.4	21.8
5 21	12 55.04	+ 5 11.5	2.572	3.311	13.6	21.9

297057 2010 HU_{111} 4 11.1 302°.49 6°.4/23.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 36.65	−42 58.6	4.263	4.907	9.5	19.6
3 22	13 31.73	−43 24.9	4.161	4.896	8.5	19.5
4 1	13 25.69	−43 35.6	4.080	4.886	7.6	19.4
4 11	13 19.02	−43 29.9	4.022	4.875	6.8	19.4
4 21	13 12.23	−43 8.1	3.989	4.865	6.4	19.3
5 1	13 5.89	−42 31.9	3.980	4.854	6.5	19.3
5 11	13 0.51	−41 44.5	3.998	4.844	7.2	19.4
5 21	12 56.45	−40 49.6	4.038	4.834	8.1	19.4

183616 2003 UG_{213} 4 11.1 194°.45 1°.6/ 9.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.97	− 5 59.9	2.010	2.883	11.3	21.4
3 22	13 36.47	− 5 15.5	1.938	2.881	7.8	21.2
4 1	13 28.23	− 4 24.0	1.892	2.878	4.0	20.9
4 11	13 19.06	− 3 30.7	1.874	2.874	1.7	20.8
4 21	13 9.86	− 2 41.2	1.886	2.870	5.1	21.0
5 1	13 1.56	− 2 0.7	1.926	2.865	8.9	21.2
5 11	12 54.93	− 1 33.2	1.990	2.859	12.4	21.4
5 21	12 50.40	− 1 20.7	2.075	2.852	15.3	21.6

138750 2000 SH_{253} 4 11.1 248°.63 1°.5/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 37.95	− 5 27.0	2.496	3.371	9.3	20.6
3 22	13 32.79	− 4 42.4	2.414	3.358	6.4	20.4
4 1	13 26.29	− 3 52.3	2.359	3.345	3.3	20.2
4 11	13 19.05	− 3 0.8	2.333	3.332	1.6	20.1
4 21	13 11.73	− 2 12.5	2.336	3.319	4.4	20.2
5 1	13 5.05	− 1 31.7	2.368	3.305	7.6	20.4
5 11	12 59.59	− 1 1.8	2.425	3.291	10.6	20.6
5 21	12 55.76	− 0 44.7	2.504	3.277	13.1	20.7

305851 2009 EB_6 4 11.1 84°.62 0°.6/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.01	− 8 49.4	1.440	2.321	14.5	20.9
3 22	13 37.48	− 8 15.6	1.392	2.337	10.0	20.7
4 1	13 28.79	− 7 30.9	1.366	2.353	5.1	20.5
4 11	13 19.07	− 6 41.5	1.367	2.369	0.7	20.2
4 21	13 9.55	− 5 54.1	1.395	2.385	5.4	20.6
5 1	13 1.43	− 5 15.6	1.448	2.401	10.1	20.9
5 11	12 55.56	− 4 51.0	1.524	2.416	14.2	21.1
5 21	12 52.34	− 4 42.4	1.619	2.432	17.5	21.4

178490 1999 TN_{83} 4 11.1 287°.38 0°.9/10.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 38.93	− 6 54.3	2.275	3.148	10.2	20.7
3 22	13 33.61	− 6 30.4	2.191	3.134	7.0	20.5
4 1	13 26.76	− 6 0.2	2.133	3.119	3.6	20.3
4 11	13 19.05	− 5 27.3	2.103	3.104	0.9	20.0
4 21	13 11.23	− 4 55.8	2.102	3.089	4.2	20.2
5 1	13 4.09	− 4 29.9	2.129	3.075	7.8	20.4
5 11	12 58.31	− 4 13.2	2.181	3.060	11.0	20.6
5 21	12 54.34	− 4 7.7	2.254	3.045	13.8	20.8

27512 Gilstrap 4 11.1 76°.56 1°.3/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.00	− 6 24.8	1.276	2.163	15.5	18.2
3 22	13 39.18	− 6 9.1	1.222	2.170	10.7	17.9
4 1	13 29.79	− 5 44.8	1.190	2.178	5.4	17.6
4 11	13 19.08	− 5 17.7	1.184	2.185	1.4	17.4
4 21	13 8.47	− 4 54.1	1.203	2.193	6.2	17.7
5 1	12 59.38	− 4 40.1	1.247	2.201	11.3	18.0
5 11	12 52.85	− 4 39.9	1.313	2.208	15.8	18.3
5 21	12 49.34	− 4 55.1	1.397	2.216	19.5	18.5

476428 2008 DR_{71} 4 11.1 4°.43 0°.5/10.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 36.89	− 9 11.9	2.107	2.981	10.8	21.2
3 22	13 32.18	− 8 28.6	2.038	2.981	7.5	21.0
4 1	13 26.00	− 7 36.3	1.995	2.982	3.8	20.7
4 11	13 19.05	− 6 39.6	1.980	2.982	0.6	20.5
4 21	13 12.10	− 5 43.8	1.994	2.983	4.1	20.7
5 1	13 5.95	− 4 54.4	2.034	2.984	7.8	21.0
5 11	13 1.23	− 4 15.7	2.100	2.985	11.1	21.2
5 21	12 58.34	− 3 50.3	2.187	2.987	13.9	21.4

414110 2007 UM_{18} 4 11.1 214°.38 2°.6/ 8.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.42	− 2 19.6	1.934	2.809	11.6	21.6
3 22	13 38.29	− 1 44.7	1.857	2.801	8.0	21.3
4 1	13 29.23	− 1 6.3	1.807	2.792	4.4	21.1
4 11	13 19.09	− 0 29.6	1.786	2.782	2.8	21.0
4 21	13 8.86	+ 0 0.2	1.793	2.771	6.0	21.2
5 1	12 59.56	+ 0 18.6	1.829	2.760	9.8	21.4
5 11	12 52.02	+ 0 22.7	1.888	2.747	13.4	21.6
5 21	12 46.76	+ 0 11.5	1.968	2.734	16.4	21.7

284663 2008 FD_{63} 4 11.1 225°.72 2°.0/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 31.96	+ 2 28.9	4.796	5.674	5.1	21.1
3 22	13 28.16	+ 2 58.2	4.727	5.669	3.6	21.0
4 1	13 23.76	+ 3 26.9	4.687	5.665	2.3	20.9
4 11	13 19.05	+ 3 52.8	4.677	5.661	2.1	20.9
4 21	13 14.34	+ 4 14.0	4.697	5.656	3.3	20.9
5 1	13 9.94	+ 4 29.0	4.745	5.652	4.9	21.1
5 11	13 6.14	+ 4 36.8	4.820	5.647	6.4	21.2
5 21	13 3.12	+ 4 36.8	4.918	5.642	7.7	21.3

95251 2002 CR_{55} 4 11.1 111°.05 2°.0/12.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.38	−15 46.8	1.683	2.536	14.2	19.9
3 22	13 38.25	−15 23.9	1.630	2.557	10.3	19.7
4 1	13 29.15	−14 44.4	1.600	2.577	5.9	19.4
4 11	13 19.10	−13 52.5	1.598	2.597	2.1	19.2
4 21	13 9.26	−12 54.0	1.623	2.616	4.4	19.4
5 1	13 0.72	−11 56.3	1.676	2.634	8.5	19.7
5 11	12 54.26	−11 6.0	1.754	2.652	12.3	20.0
5 21	12 50.29	−10 27.8	1.852	2.669	15.5	20.2

129534 1996 HA_5 4 11.1 261°.88 1°.5/ 9.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.20	− 4 7.9	2.152	3.025	10.7	19.7
3 22	13 36.66	− 3 57.9	2.068	3.011	7.4	19.5
4 1	13 28.38	− 3 44.2	2.011	2.996	3.8	19.3
4 11	13 19.10	− 3 30.5	1.982	2.981	1.6	19.1
4 21	13 9.68	− 3 20.3	1.982	2.966	4.8	19.3
5 1	13 1.01	− 3 17.0	2.010	2.951	8.5	19.5
5 11	12 53.88	− 3 23.4	2.064	2.936	11.9	19.6
5 21	12 48.78	− 3 40.9	2.139	2.920	14.8	19.8

54487 2000 OD_{30} 4 11.1 236°.51 2°.0/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 37.17	− 4 46.0	2.365	3.244	9.6	19.6
3 22	13 32.28	− 3 43.2	2.291	3.237	6.6	19.3
4 1	13 26.04	− 2 34.7	2.244	3.230	3.4	19.1
4 11	13 19.08	− 1 25.7	2.226	3.223	2.1	19.0
4 21	13 12.10	− 0 21.5	2.237	3.216	4.9	19.2
5 1	13 5.80	+ 0 32.7	2.276	3.208	8.1	19.4
5 11	13 0.78	+ 1 13.3	2.340	3.200	11.1	19.6
5 21	12 57.42	+ 1 38.6	2.425	3.193	13.6	19.7

334763 2003 SQ_{50} 4 11.1 176°.91 2°.5/13.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.69	−18 40.8	2.528	3.357	10.8	21.3
3 22	13 34.69	−18 26.2	2.448	3.360	8.1	21.1
4 1	13 27.27	−17 58.0	2.394	3.361	5.1	21.0
4 11	13 19.10	−17 18.3	2.369	3.362	2.7	20.8
4 21	13 10.90	−16 30.5	2.373	3.363	3.5	20.8
5 1	13 3.43	−15 39.2	2.406	3.363	6.4	21.0
5 11	12 57.31	−14 49.6	2.466	3.362	9.3	21.2
5 21	12 52.95	−14 5.8	2.549	3.361	11.9	21.4

93564 2000 UR_{38} 4 11.1 244°.34 1°.7/ 9.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 42.07	− 4 48.5	2.076	2.951	10.9	20.1
3 22	13 35.91	− 4 17.5	1.994	2.938	7.6	19.9
4 1	13 28.01	− 3 40.9	1.938	2.924	3.9	19.6
4 11	13 19.11	− 3 3.3	1.910	2.909	1.8	19.4
4 21	13 10.08	− 2 29.6	1.911	2.895	5.0	19.6
5 1	13 1.84	− 2 4.2	1.940	2.879	8.9	19.8
5 11	12 55.16	− 1 50.7	1.994	2.864	12.3	20.0
5 21	12 50.53	− 1 50.9	2.068	2.848	15.3	20.2

373519 2001 SK_{23} 4 11.1 199°.53 3°.1/13.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.94	−17 25.9	2.060	2.896	12.6	21.3
3 22	13 38.69	−17 46.3	1.979	2.893	9.5	21.1
4 1	13 29.48	−17 53.0	1.922	2.890	6.0	20.9
4 11	13 19.12	−17 46.6	1.893	2.886	3.3	20.7
4 21	13 8.62	−17 29.7	1.893	2.882	4.4	20.8
5 1	12 59.01	−17 6.4	1.922	2.878	7.8	21.0
5 11	12 51.15	−16 42.2	1.977	2.872	11.2	21.2
5 21	12 45.59	−16 22.0	2.053	2.867	14.3	21.4

152596 1995 SO_{70} 4 11.1 191°.89 0°.3/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.97	−11 13.3	1.641	2.508	13.7	20.8
3 22	13 38.22	−10 44.5	1.569	2.507	9.7	20.5
4 1	13 29.28	−10 2.5	1.522	2.506	5.1	20.2
4 11	13 19.13	− 9 11.7	1.501	2.503	0.4	19.9
4 21	13 8.92	− 8 18.4	1.509	2.500	4.8	20.2
5 1	12 59.84	− 7 29.6	1.543	2.497	9.5	20.5
5 11	12 52.83	− 6 51.4	1.601	2.492	13.7	20.7
5 21	12 48.41	− 6 27.7	1.680	2.487	17.2	20.9

401030 2011 SJ_{127} 4 11.1 288°.29 1°.6/ 9.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.65	− 8 27.1	1.313	2.202	14.9	21.1
3 22	13 35.74	− 7 22.8	1.231	2.182	10.5	20.8
4 1	13 28.24	− 6 1.9	1.173	2.161	5.3	20.5
4 11	13 19.12	− 4 32.1	1.139	2.140	1.8	20.2
4 21	13 9.68	− 3 3.7	1.131	2.119	6.8	20.4
5 1	13 1.35	− 1 47.6	1.147	2.099	12.3	20.6
5 11	12 55.31	− 0 52.4	1.185	2.078	17.3	20.9
5 21	12 52.24	− 0 22.1	1.239	2.057	21.5	21.1

90366 2003 JJ_{13} 4 11.1 281°.20 1°.2/ 9.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 36.78	− 7 0.2	2.370	3.245	9.7	19.6
3 22	13 32.08	− 6 7.6	2.284	3.229	6.7	19.3
4 1	13 25.99	− 5 7.4	2.225	3.212	3.4	19.1
4 11	13 19.11	− 4 4.2	2.195	3.195	1.3	18.9
4 21	13 12.14	− 3 3.1	2.194	3.179	4.4	19.1
5 1	13 5.80	− 2 9.3	2.221	3.162	7.8	19.3
5 11	13 0.72	− 1 26.9	2.273	3.145	10.9	19.5
5 21	12 57.32	− 0 58.5	2.347	3.128	13.6	19.6

272830 2006 AN_{100} 4 11.1 259°.12 3°.0/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 38.38	− 3 6.3	1.880	2.767	11.3	20.4
3 22	13 33.37	− 1 52.8	1.813	2.763	7.7	20.2
4 1	13 26.69	− 0 33.5	1.773	2.759	4.3	19.9
4 11	13 19.11	+ 0 44.2	1.760	2.754	3.3	19.9
4 21	13 11.53	+ 1 53.3	1.775	2.750	6.3	20.0
5 1	13 4.83	+ 2 47.8	1.817	2.746	10.0	20.2
5 11	12 59.75	+ 3 23.6	1.882	2.742	13.4	20.4
5 21	12 56.70	+ 3 39.8	1.966	2.737	16.2	20.6

338869 2004 AA_{8} 4 11.1 96°.17 2°.5/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 48.67	−15 44.0	1.351	2.210	16.6	21.1
3 22	13 40.84	−15 36.0	1.305	2.235	12.0	20.8
4 1	13 30.56	−15 8.9	1.281	2.259	7.0	20.6
4 11	13 19.15	−14 26.5	1.283	2.282	2.7	20.4
4 21	13 8.06	−13 35.5	1.311	2.304	5.1	20.6
5 1	12 58.64	−12 44.4	1.366	2.327	9.8	20.9
5 11	12 51.84	−12 0.9	1.444	2.348	14.0	21.3
5 21	12 48.04	−11 30.0	1.541	2.368	17.6	21.5

372544 2009 TJ_{23} 4 11.1 213°.41 1°.9/ 9.5 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.06	− 4 1.4	1.983	2.859	11.3	20.6
3 22	13 36.58	− 3 36.7	1.911	2.855	7.8	20.3
4 1	13 28.34	− 3 7.7	1.864	2.850	4.0	20.1
4 11	13 19.13	− 2 38.8	1.846	2.845	2.0	19.9
4 21	13 9.88	− 2 14.6	1.857	2.840	5.2	20.1
5 1	13 1.52	− 1 59.3	1.895	2.835	9.0	20.4
5 11	12 54.84	− 1 55.9	1.958	2.829	12.5	20.6
5 21	12 50.29	− 2 5.7	2.041	2.822	15.4	20.8

360229 1999 VL_{11} 4 11.1 183°.55 20°.4/29.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	14 12.81	+42 20.6	1.446	2.190	21.4	21.1
3 22	13 57.81	+43 31.6	1.421	2.192	20.6	21.1
4 1	13 39.18	+43 54.5	1.413	2.193	20.5	21.1
4 11	13 19.23	+43 18.1	1.424	2.192	21.0	21.1
4 21	13 0.49	+41 41.4	1.454	2.190	22.1	21.2
5 1	12 45.00	+39 12.6	1.501	2.187	23.5	21.3
5 11	12 33.81	+36 5.8	1.563	2.183	24.9	21.4
5 21	12 27.00	+32 35.2	1.639	2.177	26.2	21.6

429157 2009 UC_{129} 4 11.1 174°.49 1°.8/ 9.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 43.13	− 3 13.0	2.531	3.399	9.4	21.6
3 22	13 36.28	− 2 46.4	2.462	3.403	6.5	21.4
4 1	13 28.06	− 2 17.0	2.421	3.406	3.4	21.2
4 11	13 19.14	− 1 48.4	2.410	3.408	1.9	21.1
4 21	13 10.24	− 1 24.3	2.430	3.409	4.5	21.3
5 1	13 2.09	− 1 8.0	2.479	3.410	7.6	21.5
5 11	12 55.30	− 1 1.6	2.554	3.410	10.4	21.7
5 21	12 50.25	− 1 6.3	2.651	3.409	12.8	21.8

315287 2007 TK_{128} 4 11.1 118°.46 0°.5/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.58	−12 14.2	1.731	2.595	13.3	21.9
3 22	13 36.99	−11 37.8	1.674	2.611	9.3	21.7
4 1	13 28.52	−10 48.4	1.643	2.626	4.9	21.5
4 11	13 19.14	− 9 50.8	1.639	2.641	0.6	21.2
4 21	13 9.90	− 8 51.4	1.663	2.655	4.4	21.5
5 1	13 1.85	− 7 56.9	1.714	2.669	8.7	21.8
5 11	12 55.74	− 7 13.0	1.790	2.682	12.4	22.0
5 21	12 51.98	− 6 43.2	1.887	2.694	15.6	22.3

49306 1998 VS_{13} 4 11.1 275°.30 1°.3/10.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.61	− 5 37.4	1.715	2.591	12.8	19.1
3 22	13 38.83	− 5 28.7	1.624	2.568	9.0	18.8
4 1	13 29.73	− 5 13.9	1.559	2.545	4.6	18.5
4 11	13 19.15	− 4 56.9	1.520	2.521	1.3	18.2
4 21	13 8.23	− 4 42.3	1.510	2.497	5.5	18.4
5 1	12 58.19	− 4 34.9	1.526	2.473	10.2	18.6
5 11	12 50.07	− 4 38.7	1.566	2.449	14.4	18.8
5 21	12 44.54	− 4 55.7	1.627	2.424	18.1	19.0

207719 2007 RE_{132} 4 11.1 47°.90 4°.0/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.29	+ 2 28.5	1.954	2.839	11.0	19.9
3 22	13 35.26	+ 3 2.3	1.898	2.844	7.8	19.7
4 1	13 27.61	+ 3 34.4	1.868	2.848	4.9	19.5
4 11	13 19.14	+ 3 59.4	1.866	2.853	4.3	19.5
4 21	13 10.76	+ 4 12.9	1.891	2.858	6.8	19.7
5 1	13 3.33	+ 4 12.0	1.943	2.863	10.0	19.9
5 11	12 57.55	+ 3 55.6	2.018	2.868	13.0	20.1
5 21	12 53.82	+ 3 24.2	2.112	2.873	15.6	20.3

340745 2006 SC_{215} 4 11.1 97°.20 0°.3/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.23	− 7 53.9	2.537	3.398	9.7	20.7
3 22	13 35.57	− 7 46.5	2.483	3.420	6.7	20.5
4 1	13 27.65	− 7 33.7	2.456	3.440	3.4	20.4
4 11	13 19.14	− 7 18.3	2.459	3.461	0.3	20.1
4 21	13 10.76	− 7 3.1	2.492	3.481	3.5	20.4
5 1	13 3.18	− 6 51.3	2.555	3.501	6.6	20.7
5 11	12 56.97	− 6 45.4	2.644	3.521	9.4	20.9
5 21	12 52.46	− 6 47.1	2.755	3.540	11.8	21.1

427746 2004 RS_{157} 4 11.1 211°.71 4°.0/15.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.70	−22 18.7	2.190	3.009	12.6	21.7
3 22	13 35.69	−22 15.4	2.104	3.004	9.8	21.5
4 1	13 27.92	−21 54.2	2.042	2.998	6.7	21.3
4 11	13 19.15	−21 16.3	2.007	2.992	4.3	21.2
4 21	13 10.27	−20 24.9	2.000	2.985	4.6	21.2
5 1	13 2.20	−19 25.4	2.021	2.979	7.4	21.3
5 11	12 55.73	−18 24.6	2.069	2.971	10.5	21.5
5 21	12 51.35	−17 28.4	2.139	2.963	13.4	21.7

518450 2005 BD_{50} 4 11.1 105°.12 4°.4/15.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.86	−22 37.5	2.084	2.904	13.1	21.4
3 22	13 35.78	−22 46.4	2.014	2.913	10.2	21.2
4 1	13 27.93	−22 37.1	1.967	2.921	7.1	21.0
4 11	13 19.15	−22 10.8	1.946	2.929	4.7	20.9
4 21	13 10.36	−21 30.6	1.953	2.937	4.9	20.9
5 1	13 2.50	−20 41.9	1.988	2.945	7.5	21.1
5 11	12 56.34	−19 51.1	2.048	2.953	10.5	21.3
5 21	12 52.33	−19 4.0	2.131	2.960	13.3	21.5

120394 2005 QB_{107} 4 11.1 277°.19 5°.9/ 3.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 37.41	+ 8 27.5	2.298	3.183	9.6	20.0
3 22	13 32.55	+ 9 52.2	2.228	3.165	7.4	19.8
4 1	13 26.25	+11 13.4	2.185	3.146	6.0	19.7
4 11	13 19.14	+12 23.9	2.170	3.127	6.5	19.7
4 21	13 11.95	+13 18.1	2.182	3.109	8.6	19.7
5 1	13 5.43	+13 51.9	2.219	3.090	11.1	19.9
5 11	13 0.23	+14 4.1	2.278	3.071	13.6	20.0
5 21	12 56.78	+13 55.2	2.355	3.052	15.7	20.1

402088 2003 UN_{255} 4 11.1 155°.46 2°.3/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.48	− 4 0.0	1.907	2.785	11.6	21.7
3 22	13 36.82	− 3 12.7	1.848	2.793	8.0	21.5
4 1	13 28.43	− 2 20.6	1.814	2.800	4.2	21.3
4 11	13 19.17	− 1 29.4	1.809	2.806	2.4	21.2
4 21	13 9.99	− 0 44.6	1.832	2.812	5.6	21.4
5 1	13 1.83	− 0 11.4	1.883	2.817	9.4	21.6
5 11	12 55.43	+ 0 7.1	1.958	2.822	12.8	21.9
5 21	12 51.20	+ 0 9.9	2.053	2.826	15.6	22.1

118962 2000 WK_{129} 4 11.1 227°.67 2°.1/ 8.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 39.48	− 2 9.4	2.521	3.397	9.2	20.2
3 22	13 33.82	− 1 40.7	2.447	3.392	6.3	20.0
4 1	13 26.85	− 1 9.8	2.401	3.386	3.4	19.8
4 11	13 19.16	− 0 40.5	2.384	3.380	2.3	19.7
4 21	13 11.44	− 0 16.4	2.396	3.374	4.7	19.8
5 1	13 4.40	− 0 1.0	2.437	3.368	7.7	20.0
5 11	12 58.60	+ 0 3.7	2.503	3.361	10.5	20.2
5 21	12 54.45	− 0 3.3	2.590	3.354	12.9	20.4

34401 2000 RS_{83} 4 11.1 263°.12 2°.0/12.8 18

3 12	13 41.29	−15 20.6	1.847	2.703	13.0	19.2
3 22	13 35.59	−15 8.9	1.766	2.695	9.5	18.9
4 1	13 27.94	−14 42.4	1.709	2.687	5.6	18.7
4 11	13 19.17	−14 3.5	1.679	2.678	2.2	18.4
4 21	13 10.27	−13 17.0	1.677	2.670	4.2	18.5
5 1	13 2.27	−12 28.8	1.701	2.661	8.3	18.8
5 11	12 56.05	−11 45.3	1.751	2.653	12.1	19.0
5 21	12 52.11	−11 11.5	1.821	2.644	15.4	19.2

153530 2001 SL_{61} 4 11.1 157°.02 0°.6/10.5 18

3 12	13 40.88	− 9 16.1	1.992	2.862	11.5	20.9
3 22	13 35.02	− 8 28.8	1.926	2.867	8.0	20.7
4 1	13 27.52	− 7 31.9	1.886	2.872	4.0	20.4
4 11	13 19.17	− 6 30.3	1.874	2.876	0.6	20.2
4 21	13 10.87	− 5 30.0	1.891	2.880	4.4	20.5
5 1	13 3.49	− 4 36.7	1.936	2.884	8.3	20.7
5 11	12 57.73	− 3 55.3	2.006	2.887	11.8	20.9
5 21	12 54.01	− 3 28.4	2.097	2.890	14.7	21.1

440502 2005 TG_{187} 4 11.1 288°.14 1°.1/ 9.9 16

3 12	13 38.14	− 6 54.8	2.219	3.094	10.3	21.7
3 22	13 33.12	− 6 17.8	2.134	3.079	7.1	21.5
4 1	13 26.58	− 5 33.6	2.076	3.063	3.6	21.3
4 11	13 19.17	− 4 46.5	2.046	3.047	1.2	21.0
4 21	13 11.64	− 4 1.3	2.045	3.031	4.4	21.3
5 1	13 4.81	− 3 22.7	2.071	3.016	8.1	21.4
5 11	12 59.34	− 2 54.9	2.122	3.000	11.4	21.6
5 21	12 55.69	− 2 40.1	2.195	2.984	14.2	21.8

105441 2000 QU_{180} 4 11.1 149°.71 1°.7/12.7 18

3 12	13 45.08	−15 9.6	2.086	2.930	12.2	20.1
3 22	13 37.89	−14 52.0	2.019	2.943	8.8	19.9
4 1	13 28.98	−14 21.1	1.978	2.954	5.1	19.7
4 11	13 19.20	−13 39.8	1.965	2.965	1.8	19.5
4 21	13 9.48	−12 52.5	1.982	2.974	3.8	19.6
5 1	13 0.76	−12 4.8	2.028	2.983	7.5	19.8
5 11	12 53.77	−11 22.2	2.100	2.991	10.9	20.1
5 21	12 48.92	−10 48.7	2.194	2.998	13.8	20.3

119646 2001 XN_{40} 4 11.1 238°.78 7°.0/17.7 18

3 12	13 44.13	−30 20.4	2.190	2.962	14.1	19.5
3 22	13 37.64	−30 46.5	2.092	2.948	11.8	19.3
4 1	13 29.07	−30 50.5	2.017	2.934	9.4	19.1
4 11	13 19.20	−30 30.8	1.966	2.919	7.5	18.9
4 21	13 9.05	−29 48.7	1.943	2.903	7.1	18.9
5 1	12 59.71	−28 48.5	1.946	2.887	8.7	18.9
5 11	12 52.12	−27 37.7	1.975	2.871	11.2	19.1
5 21	12 46.89	−26 24.4	2.026	2.854	13.9	19.2

371049 2005 UT_{186} 4 11.1 241°.78 2°.0/12.9 17

3 12	13 40.55	−16 23.1	1.881	2.734	12.9	21.2
3 22	13 35.04	−15 55.9	1.800	2.726	9.5	21.0
4 1	13 27.65	−15 12.2	1.743	2.719	5.6	20.7
4 11	13 19.19	−14 15.0	1.712	2.711	2.2	20.5
4 21	13 10.62	−13 9.7	1.710	2.703	4.1	20.6
5 1	13 2.96	−12 3.3	1.735	2.695	8.1	20.8
5 11	12 57.03	−11 2.8	1.785	2.686	11.9	21.0
5 21	12 53.33	−10 13.4	1.856	2.677	15.2	21.2

186883 2004 JV_{19} 4 11.1 246°.46 2°.4/ 8.7 18

3 12	13 41.70	− 3 9.2	2.175	3.051	10.4	20.6
3 22	13 35.65	− 2 20.7	2.088	3.032	7.2	20.3
4 1	13 27.92	− 1 27.1	2.028	3.013	3.9	20.1
4 11	13 19.20	− 0 33.7	1.996	2.992	2.6	20.0
4 21	13 10.33	+ 0 14.2	1.994	2.971	5.5	20.1
5 1	13 2.16	+ 0 51.4	2.020	2.950	9.1	20.3
5 11	12 55.47	+ 1 14.6	2.070	2.927	12.5	20.5
5 21	12 50.73	+ 1 22.0	2.141	2.904	15.3	20.6

315456 2007 XB_{22} 4 11.1 163°.49 2°.5/ 8.9 18

3 12	13 44.06	− 3 6.0	1.998	2.873	11.2	21.3
3 22	13 37.19	− 2 21.0	1.936	2.880	7.7	21.1
4 1	13 28.63	− 1 32.2	1.901	2.886	4.1	20.9
4 11	13 19.21	− 0 45.0	1.895	2.891	2.6	20.8
4 21	13 9.87	− 0 4.6	1.918	2.896	5.6	21.0
5 1	13 1.50	+ 0 24.3	1.968	2.899	9.2	21.2
5 11	12 54.84	+ 0 38.8	2.043	2.902	12.5	21.4
5 21	12 50.29	+ 0 38.2	2.139	2.904	15.3	21.6

54034 2000 GG_{107} 4 11.1 49°.92 1°.6/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 41.91	−14 35.4	1.200	2.079	16.9	18.9
3 22	13 36.50	−14 3.7	1.146	2.088	12.2	18.6
4 1	13 28.52	−13 11.3	1.114	2.097	6.8	18.4
4 11	13 19.21	−12 3.9	1.105	2.106	1.8	18.1
4 21	13 10.01	−10 50.6	1.121	2.116	5.3	18.3
5 1	13 2.34	− 9 41.5	1.161	2.126	10.6	18.6
5 11	12 57.21	− 8 45.6	1.223	2.136	15.3	18.9
5 21	12 55.08	− 8 8.0	1.303	2.147	19.2	19.2

292556 2006 TX_{66} 4 11.1 127°.70 2°.5/14.3 17

3 12	13 39.33	−19 30.7	2.810	3.634	10.0	21.9
3 22	13 33.61	−19 15.9	2.742	3.649	7.5	21.7
4 1	13 26.70	−18 48.5	2.699	3.662	4.8	21.6
4 11	13 19.19	−18 10.7	2.685	3.676	2.7	21.5
4 21	13 11.74	−17 25.5	2.700	3.689	3.3	21.5
5 1	13 4.97	−16 37.0	2.745	3.702	5.7	21.7
5 11	12 59.43	−15 49.7	2.817	3.714	8.2	21.9
5 21	12 55.44	−15 7.3	2.913	3.726	10.5	22.0

80078 1999 JU_{115} 4 11.1 47°.50 1°.6/ 9.7 18

3 12	13 39.51	− 5 42.1	1.847	2.730	11.7	18.7
3 22	13 34.07	− 5 6.6	1.796	2.744	8.0	18.5
4 1	13 27.02	− 4 25.2	1.771	2.758	4.0	18.3
4 11	13 19.20	− 3 43.3	1.772	2.773	1.7	18.2
4 21	13 11.50	− 3 6.1	1.802	2.787	5.0	18.4
5 1	13 4.81	− 2 38.2	1.858	2.803	8.8	18.7
5 11	12 59.79	− 2 23.0	1.937	2.818	12.2	18.9
5 21	12 56.83	− 2 21.8	2.038	2.834	14.9	19.1

305460 2008 DD_{19} 4 11.1 319°.15 3°.8/ 7.0 17

3 12	13 37.31	+ 0 51.9	2.073	2.962	10.3	20.5
3 22	13 32.55	+ 1 51.4	2.006	2.954	7.2	20.3
4 1	13 26.28	+ 2 52.1	1.965	2.946	4.5	20.1
4 11	13 19.19	+ 3 47.9	1.951	2.939	4.1	20.1
4 21	13 12.07	+ 4 33.2	1.965	2.931	6.6	20.2
5 1	13 5.73	+ 5 3.6	2.005	2.924	9.8	20.4
5 11	13 0.83	+ 5 16.5	2.068	2.917	12.8	20.6
5 21	12 57.78	+ 5 11.7	2.151	2.910	15.4	20.7

224638 2005 YZ_{172} 4 11.1 183°.75 0°.8/11.9 17

3 12	13 42.18	−12 33.3	2.461	3.312	10.3	21.3
3 22	13 35.76	−12 12.5	2.384	3.313	7.3	21.1
4 1	13 27.88	−11 42.0	2.332	3.313	4.0	20.9
4 11	13 19.21	−11 4.5	2.311	3.312	0.8	20.7
4 21	13 10.53	−10 23.8	2.319	3.310	3.4	20.9
5 1	13 2.58	− 9 44.2	2.356	3.308	6.8	21.1
5 11	12 56.01	− 9 10.0	2.421	3.305	9.9	21.3
5 21	12 51.24	− 8 44.3	2.508	3.302	12.5	21.4

425850 2011 ET_{62} 4 11.1 300°.39 4°.5/ 7.4 17

3 12	13 41.23	+ 1 35.0	1.677	2.568	12.2	20.8
3 22	13 35.64	+ 2 21.2	1.604	2.552	8.7	20.6
4 1	13 28.02	+ 3 8.0	1.554	2.536	5.4	20.3
4 11	13 19.22	+ 3 48.4	1.531	2.520	4.8	20.2
4 21	13 10.27	+ 4 16.1	1.535	2.504	7.8	20.4
5 1	13 2.27	+ 4 26.3	1.564	2.489	11.6	20.6
5 11	12 56.13	+ 4 16.8	1.615	2.474	15.3	20.8
5 21	12 52.38	+ 3 47.8	1.684	2.459	18.4	20.9

360536 2003 SM_{128} 4 11.1 264°.28 0°.2/11.2 17

3 12	13 46.57	− 9 16.8	1.693	2.561	13.3	21.1
3 22	13 39.59	− 9 16.5	1.601	2.540	9.5	20.8
4 1	13 30.19	− 9 6.7	1.534	2.519	5.0	20.5
4 11	13 19.25	− 8 50.4	1.494	2.497	0.2	20.0
4 21	13 7.92	− 8 31.6	1.483	2.474	4.9	20.3
5 1	12 57.49	− 8 15.4	1.498	2.451	9.8	20.6
5 11	12 49.06	− 8 7.0	1.537	2.427	14.2	20.8
5 21	12 43.30	− 8 9.9	1.597	2.403	18.0	21.0

268254 2005 MO_{41} 4 11.1 184°.84 4°.5/16.1 17

3 12	13 43.37	−25 23.5	2.496	3.290	12.0	22.2
3 22	13 36.70	−25 23.1	2.410	3.290	9.5	22.0
4 1	13 28.41	−25 4.8	2.348	3.290	6.9	21.9
4 11	13 19.23	−24 29.2	2.314	3.289	4.9	21.7
4 21	13 9.99	−23 39.1	2.309	3.287	4.8	21.7
5 1	13 1.52	−22 39.1	2.333	3.284	6.9	21.8
5 11	12 54.56	−21 35.6	2.383	3.280	9.5	22.0
5 21	12 49.54	−20 34.3	2.458	3.276	12.1	22.2

110146 2001 SO_{154} 4 11.1 127°.62 0°.4/11.5 17

3 12	13 42.05	−11 32.6	1.931	2.795	12.1	21.2
3 22	13 35.86	−11 1.8	1.869	2.806	8.5	21.0
4 1	13 27.97	−10 19.8	1.833	2.816	4.5	20.8
4 11	13 19.23	− 9 30.8	1.824	2.826	0.4	20.5
4 21	13 10.56	− 8 40.1	1.843	2.835	4.1	20.8
5 1	13 2.89	− 7 53.5	1.891	2.844	8.1	21.0
5 11	12 56.94	− 7 16.0	1.963	2.853	11.6	21.3
5 21	12 53.11	− 6 50.8	2.057	2.861	14.6	21.5

433517 2013 WD_{68} 4 11.1 198°.30 6°.3/17.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 42.01	−29 26.0	2.186	2.967	13.9	21.6
3 22	13 36.01	−29 35.9	2.101	2.965	11.4	21.4
4 1	13 28.15	−29 23.4	2.038	2.963	8.9	21.2
4 11	13 19.23	−28 48.2	2.000	2.960	6.8	21.1
4 21	13 10.21	−27 52.9	1.990	2.957	6.4	21.0
5 1	13 2.07	−26 42.7	2.006	2.954	8.1	21.1
5 11	12 55.64	−25 25.4	2.048	2.950	10.6	21.3
5 21	12 51.43	−24 8.5	2.113	2.946	13.2	21.4

112713 2002 PU_{111} 4 11.1 290°.74 2°.1/ 9.2 18

3 12	13 40.09	− 4 34.4	1.913	2.795	11.4	19.9
3 22	13 34.78	− 3 51.1	1.822	2.769	7.9	19.7
4 1	13 27.58	− 3 0.8	1.756	2.743	4.1	19.4
4 11	13 19.24	− 2 8.9	1.718	2.717	2.3	19.2
4 21	13 10.65	− 1 21.4	1.708	2.691	5.7	19.4
5 1	13 2.80	− 0 43.9	1.725	2.664	9.7	19.5
5 11	12 56.55	− 0 21.0	1.765	2.638	13.5	19.7
5 21	12 52.45	− 0 14.8	1.825	2.611	16.8	19.9

357113 2001 VY_{22} 4 11.1 179°.81 1°.6/ 9.9 18

3 12	13 45.65	− 5 39.7	1.673	2.550	13.0	21.2
3 22	13 38.63	− 5 9.6	1.607	2.552	9.0	21.0
4 1	13 29.52	− 4 32.6	1.566	2.553	4.6	20.7
4 11	13 19.27	− 3 54.0	1.553	2.553	1.7	20.5
4 21	13 9.02	− 3 19.5	1.567	2.553	5.6	20.8
5 1	12 59.91	− 2 54.6	1.608	2.552	10.0	21.0
5 11	12 52.82	− 2 43.2	1.673	2.550	13.9	21.2
5 21	12 48.26	− 2 46.8	1.757	2.548	17.2	21.5

269045 2007 FF_{38} 4 11.1 344°.80 11°.7/17.2 17

3 12	13 41.33	−29 11.6	1.220	2.044	20.2	19.0
3 22	13 36.93	−31 0.4	1.143	2.027	17.3	18.7
4 1	13 29.25	−32 23.0	1.083	2.012	14.4	18.5
4 11	13 19.27	−33 12.0	1.044	1.998	12.2	18.3
4 21	13 8.59	−33 24.3	1.026	1.987	11.9	18.3
5 1	12 59.11	−33 3.2	1.029	1.976	13.8	18.3
5 11	12 52.50	−32 19.0	1.051	1.968	16.9	18.5
5 21	12 49.71	−31 24.1	1.090	1.962	20.3	18.7

30671 1314 $T\text{-}_{2}$ 4 11.1 290°.19 0°.4/11.5 18

3 12	13 41.56	−11 2.9	1.617	2.490	13.5	19.1
3 22	13 36.03	−10 42.9	1.535	2.476	9.6	18.8
4 1	13 28.31	−10 10.0	1.477	2.462	5.1	18.5
4 11	13 19.27	− 9 28.2	1.446	2.448	0.5	18.1
4 21	13 10.02	− 8 43.0	1.441	2.434	4.8	18.4
5 1	13 1.74	− 8 1.1	1.462	2.420	9.6	18.7
5 11	12 55.42	− 7 29.0	1.507	2.406	13.9	18.9
5 21	12 51.64	− 7 10.6	1.571	2.392	17.6	19.1

115999 2003 WD_{73} 4 11.1 108°.28 0°.4/10.8 18

3 12	13 41.49	− 8 19.0	2.093	2.963	11.1	19.9
3 22	13 35.39	− 8 0.6	2.031	2.971	7.7	19.7
4 1	13 27.73	− 7 35.0	1.994	2.979	3.9	19.4
4 11	13 19.27	− 7 5.8	1.985	2.987	0.4	19.2
4 21	13 10.85	− 6 37.1	2.005	2.995	4.1	19.5
5 1	13 3.33	− 6 13.3	2.054	3.003	7.8	19.7
5 11	12 57.39	− 5 58.0	2.127	3.011	11.1	19.9
5 21	12 53.41	− 5 53.1	2.222	3.018	13.9	20.1

434829 2006 SH_{35} 4 11.1 231°.97 1°.0/12.2 17

3 12	13 38.59	−13 34.4	2.367	3.222	10.5	21.8
3 22	13 33.37	−13 6.3	2.286	3.217	7.5	21.6
4 1	13 26.71	−12 27.1	2.231	3.211	4.2	21.4
4 11	13 19.26	−11 39.8	2.204	3.205	1.1	21.1
4 21	13 11.76	−10 48.6	2.206	3.199	3.4	21.3
5 1	13 4.96	− 9 58.4	2.237	3.193	6.8	21.5
5 11	12 59.50	− 9 14.1	2.294	3.186	10.0	21.7
5 21	12 55.78	− 8 39.1	2.373	3.180	12.8	21.8

120391 2005 QU_{80} 4 11.1 210°.63 0°.6/10.4 17

3 12	13 39.94	− 6 57.1	2.952	3.815	8.4	20.8
3 22	13 34.05	− 6 40.0	2.870	3.808	5.8	20.7
4 1	13 26.98	− 6 18.2	2.816	3.801	3.0	20.5
4 11	13 19.27	− 5 54.4	2.792	3.794	0.6	20.2
4 21	13 11.51	− 5 31.6	2.799	3.786	3.3	20.5
5 1	13 4.31	− 5 12.6	2.835	3.777	6.2	20.6
5 11	12 58.20	− 5 0.1	2.898	3.768	8.9	20.8
5 21	12 53.54	− 4 55.7	2.984	3.759	11.2	20.9

305773 2009 DQ_{42} 4 11.1 77°.24 1°.1/11.9 18

3 12	13 43.45	−13 15.3	1.387	2.259	15.4	21.0
3 22	13 37.29	−12 46.7	1.335	2.274	11.0	20.8
4 1	13 28.85	−12 1.6	1.305	2.288	6.0	20.5
4 11	13 19.29	−11 5.3	1.302	2.303	1.2	20.3
4 21	13 9.91	−10 5.3	1.324	2.318	4.9	20.6
5 1	13 1.93	− 9 9.7	1.372	2.332	9.8	20.9
5 11	12 56.28	− 8 25.7	1.443	2.347	14.1	21.1
5 21	12 53.36	− 7 57.2	1.533	2.361	17.6	21.4

151058 2001 VP_{14} 4 11.1 150°.49 3°.1/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 41.93	−19 1.5	1.932	2.771	13.2	19.9
3 22	13 35.93	−18 49.7	1.860	2.776	9.9	19.7
4 1	13 28.10	−18 20.6	1.812	2.780	6.3	19.5
4 11	13 19.29	−17 36.4	1.790	2.784	3.3	19.3
4 21	13 10.46	−16 41.7	1.796	2.787	4.3	19.4
5 1	13 2.60	−15 42.8	1.830	2.791	7.7	19.6
5 11	12 56.51	−14 46.5	1.890	2.794	11.3	19.8
5 21	12 52.64	−13 58.3	1.971	2.796	14.3	20.0

323432 2004 FN_{138} 4 11.1 130°.20 15°.8/ 3.7 18

3 12	13 59.27	+25 56.9	1.187	2.033	19.3	19.6
3 22	13 48.46	+26 53.1	1.156	2.042	17.1	19.5
4 1	13 34.55	+27 14.2	1.146	2.051	15.9	19.4
4 11	13 19.37	+26 49.6	1.157	2.059	16.3	19.5
4 21	13 4.91	+25 37.1	1.189	2.066	18.0	19.6
5 1	12 52.91	+23 42.4	1.242	2.073	20.4	19.8
5 11	12 44.38	+21 16.2	1.312	2.080	22.9	20.0
5 21	12 39.59	+18 30.0	1.398	2.086	25.1	20.2

70466 1999 TU_{30} 4 11.1 142°.55 0°.7/11.7 18

3 12	13 43.65	−12 23.9	1.883	2.743	12.6	20.2
3 22	13 37.04	−11 55.1	1.820	2.754	8.9	20.0
4 1	13 28.63	−11 13.9	1.782	2.764	4.8	19.8
4 11	13 19.30	−10 24.5	1.771	2.773	0.8	19.5
4 21	13 10.04	− 9 32.3	1.789	2.782	4.1	19.8
5 1	13 1.83	− 8 43.4	1.836	2.790	8.2	20.0
5 11	12 55.43	− 8 3.2	1.907	2.797	11.9	20.3
5 21	12 51.27	− 7 35.1	1.999	2.804	14.9	20.5

467125 2016 ES_{74} 4 11.1 52°.44 0°.5/11.5 17

3 12	13 42.67	−11 25.9	1.342	2.222	15.4	21.2
3 22	13 36.82	−11 3.3	1.289	2.233	10.8	21.0
4 1	13 28.65	−10 26.2	1.259	2.244	5.7	20.7
4 11	13 19.30	− 9 39.9	1.253	2.255	0.6	20.4
4 21	13 10.06	− 8 51.4	1.273	2.267	5.1	20.7
5 1	13 2.23	− 8 8.4	1.318	2.279	10.1	21.0
5 11	12 56.73	− 7 37.2	1.386	2.291	14.5	21.3
5 21	12 54.00	− 7 21.3	1.472	2.303	18.1	21.6

145290 2005 JX_{177} 4 11.1 298°.34 0°.2/11.3 17

3 12	13 39.63	−12 3.3	1.487	2.365	14.3	19.8
3 22	13 34.79	−11 16.9	1.409	2.352	10.1	19.6
4 1	13 27.71	−10 13.5	1.353	2.339	5.4	19.2
4 11	13 19.29	− 8 58.6	1.324	2.326	0.3	18.8
4 21	13 10.70	− 7 40.2	1.320	2.313	5.1	19.2
5 1	13 3.16	− 6 27.4	1.342	2.300	10.2	19.4
5 11	12 57.66	− 5 28.4	1.387	2.288	14.7	19.6
5 21	12 54.78	− 4 47.9	1.450	2.276	18.6	19.8

376542 2013 AA_{4} 4 11.1 279°.20 0°.9/12.6 18

3 12	13 35.28	−13 28.0	4.370	5.211	6.4	20.6
3 22	13 30.59	−13 30.9	4.283	5.205	4.6	20.4
4 1	13 25.13	−13 28.5	4.223	5.199	2.6	20.3
4 11	13 19.27	−13 22.0	4.194	5.193	1.0	20.1
4 21	13 13.36	−13 12.7	4.196	5.187	2.0	20.2
5 1	13 7.80	−13 2.6	4.228	5.182	4.0	20.4
5 11	13 2.92	−12 53.5	4.288	5.176	5.9	20.5
5 21	12 59.00	−12 47.1	4.373	5.170	7.5	20.6

464811 2004 RC_{175} 4 11.1 256°.19 4°.7/15.5 17

3 12	13 42.40	−23 39.6	2.132	2.944	13.1	21.6
3 22	13 36.41	−23 42.3	2.031	2.925	10.4	21.3
4 1	13 28.46	−23 25.8	1.954	2.905	7.4	21.1
4 11	13 19.31	−22 50.3	1.904	2.885	5.0	20.9
4 21	13 9.88	−21 58.4	1.881	2.864	5.2	20.9
5 1	13 1.20	−20 55.4	1.886	2.842	7.9	21.0
5 11	12 54.15	−19 48.7	1.917	2.820	11.1	21.2
5 21	12 49.31	−18 45.1	1.970	2.798	14.3	21.3

106200 2000 UA_{19} 4 11.1 249°.42 1°.1/12.5 18

3 12	13 38.18	−14 49.2	2.800	3.645	9.4	20.8
3 22	13 32.98	−14 15.0	2.701	3.626	6.8	20.6
4 1	13 26.50	−13 29.7	2.629	3.606	3.9	20.3
4 11	13 19.29	−12 35.8	2.586	3.586	1.2	20.1
4 21	13 11.96	−11 37.1	2.573	3.566	3.0	20.2
5 1	13 5.17	−10 38.2	2.590	3.545	6.1	20.4
5 11	12 59.49	− 9 43.5	2.634	3.523	9.0	20.5
5 21	12 55.33	− 8 56.8	2.702	3.501	11.6	20.7

503766 2016 PX_{67} 4 11.1 225°.88 1°.0/ 9.9 17

3 12	13 37.29	− 7 52.3	2.509	3.380	9.4	21.7
3 22	13 32.38	− 6 57.4	2.431	3.373	6.5	21.5
4 1	13 26.18	− 5 54.9	2.380	3.367	3.3	21.2
4 11	13 19.29	− 4 49.4	2.359	3.360	1.0	21.1
4 21	13 12.36	− 3 45.7	2.367	3.352	4.0	21.3
5 1	13 6.08	− 2 48.7	2.403	3.345	7.3	21.5
5 11	13 1.02	− 2 2.5	2.466	3.337	10.2	21.6
5 21	12 57.54	− 1 29.4	2.550	3.329	12.7	21.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
202223 2004 XV_{176}			4 11.1 196°.95		0°.6/11.8 17	
	h m	° ′			°	m
3 12	13 39.48	−12 46.2	2.090	2.951	11.5	21.2
3 22	13 34.11	−12 8.2	2.015	2.950	8.1	20.9
4 1	13 27.13	−11 17.9	1.966	2.948	4.4	20.7
4 11	13 19.30	−10 19.5	1.945	2.947	0.7	20.4
4 21	13 11.44	− 9 18.2	1.953	2.945	3.8	20.7
5 1	13 4.42	− 8 19.9	1.988	2.943	7.6	20.9
5 11	12 58.91	− 7 30.0	2.049	2.941	11.1	21.1
5 21	12 55.36	− 6 52.2	2.132	2.938	14.0	21.3
178345 1995 VZ_{16}			4 11.1 260°.39		2°.3/13.2 17	
3 12	13 41.03	−17 7.1	1.675	2.530	14.1	21.1
3 22	13 35.64	−16 36.7	1.592	2.519	10.5	20.9
4 1	13 28.10	−15 46.7	1.531	2.507	6.3	20.6
4 11	13 19.32	−14 40.3	1.497	2.495	2.6	20.3
4 21	13 10.36	−13 23.8	1.490	2.484	4.5	20.4
5 1	13 2.38	−12 5.4	1.510	2.471	8.9	20.7
5 11	12 56.34	−10 53.7	1.553	2.459	13.1	20.9
5 21	12 52.79	− 9 55.1	1.618	2.447	16.8	21.1
285191 1996 VK_{13}			4 11.1 64°.58		3°.3/15.1 17	
3 12	13 38.01	−22 31.7	2.057	2.884	13.0	20.1
3 22	13 33.02	−21 41.5	1.995	2.902	9.9	20.0
4 1	13 26.52	−20 31.2	1.958	2.920	6.5	19.8
4 11	13 19.29	−19 4.8	1.947	2.937	3.7	19.6
4 21	13 12.21	−17 28.3	1.965	2.955	4.0	19.7
5 1	13 6.09	−15 49.7	2.011	2.973	7.0	19.9
5 11	13 1.56	−14 16.5	2.084	2.991	10.2	20.1
5 21	12 58.96	−12 54.6	2.180	3.010	13.0	20.3
210763 2000 WL_{111}			4 11.1 198°.08		0°.3/10.9 18	
3 12	13 44.58	− 9 13.2	1.818	2.686	12.6	21.0
3 22	13 37.86	− 8 48.8	1.744	2.684	8.8	20.7
4 1	13 29.16	− 8 14.5	1.696	2.681	4.5	20.5
4 11	13 19.35	− 7 34.5	1.675	2.677	0.3	20.1
4 21	13 9.47	− 6 54.0	1.682	2.673	4.6	20.5
5 1	13 0.59	− 6 18.7	1.718	2.668	9.0	20.7
5 11	12 53.57	− 5 53.5	1.777	2.662	12.8	20.9
5 21	12 48.91	− 5 41.3	1.857	2.656	16.1	21.1
10105 Holmhällar			4 11.1 1°.85		0°.4/10.7 18	
3 12	13 38.06	− 9 8.6	1.941	2.817	11.5	17.9
3 22	13 33.18	− 8 36.1	1.873	2.817	8.0	17.7
4 1	13 26.68	− 7 54.4	1.831	2.817	4.1	17.4
4 11	13 19.31	− 7 8.0	1.815	2.817	0.4	17.1
4 21	13 11.93	− 6 22.1	1.827	2.817	4.3	17.4
5 1	13 5.42	− 5 42.1	1.866	2.818	8.2	17.7
5 11	13 0.47	− 5 12.5	1.929	2.820	11.7	17.9
5 21	12 57.50	− 4 55.8	2.013	2.821	14.7	18.1
328220 2008 EK_{151}			4 11.1 340°.15		2°.6/ 9.0 17	
3 12	13 38.09	− 5 39.4	1.360	2.256	14.0	19.9
3 22	13 33.74	− 4 35.6	1.295	2.249	9.7	19.7
4 1	13 27.16	− 3 21.4	1.253	2.241	5.0	19.4
4 11	13 19.32	− 2 5.2	1.236	2.235	2.8	19.2
4 21	13 11.42	− 0 56.2	1.244	2.229	6.9	19.4
5 1	13 4.67	− 0 2.9	1.277	2.224	11.7	19.7
5 11	13 0.02	+ 0 29.2	1.330	2.220	16.0	19.9
5 21	12 58.00	+ 0 38.4	1.402	2.216	19.6	20.1
289987 2005 OJ_{27}			4 11.1 244°.07		0°.4/11.5 18	
3 12	13 40.89	−10 17.6	2.408	3.268	10.2	20.4
3 22	13 34.97	−10 12.4	2.327	3.262	7.2	20.2
4 1	13 27.56	− 9 59.5	2.273	3.256	3.8	20.0
4 11	13 19.33	− 9 41.5	2.247	3.249	0.4	19.7
4 21	13 11.02	− 9 21.4	2.251	3.243	3.5	20.0
5 1	13 3.40	− 9 3.0	2.284	3.236	6.9	20.2
5 11	12 57.13	− 8 49.7	2.342	3.229	10.1	20.3
5 21	12 52.64	− 8 44.1	2.423	3.222	12.8	20.5
326102 2011 BG_{145}			4 11.1 294°.86		0°.9/10.4 17	
3 12	13 40.74	− 8 7.8	1.634	2.515	13.0	20.8
3 22	13 35.46	− 7 34.0	1.552	2.498	9.1	20.6
4 1	13 28.04	− 6 49.6	1.494	2.481	4.7	20.2
4 11	13 19.34	− 5 59.5	1.462	2.463	0.9	19.9
4 21	13 10.42	− 5 10.2	1.457	2.446	5.3	20.2
5 1	13 2.43	− 4 28.4	1.478	2.430	10.0	20.4
5 11	12 56.34	− 3 59.8	1.522	2.413	14.3	20.6
5 21	12 52.71	− 3 47.5	1.585	2.396	17.9	20.8
81757 2000 JN_{59}			4 11.1 278°.11		4°.5/14.3 18	
3 12	13 44.79	−20 2.0	1.791	2.626	14.3	19.1
3 22	13 38.42	−20 28.2	1.694	2.604	11.1	18.8
4 1	13 29.67	−20 37.3	1.620	2.582	7.5	18.5
4 11	13 19.36	−20 28.6	1.571	2.560	4.7	18.3
4 21	13 8.61	−20 4.2	1.550	2.537	5.5	18.3
5 1	12 58.67	−19 29.0	1.556	2.514	9.0	18.5
5 11	12 50.66	−18 50.1	1.586	2.491	12.9	18.6
5 21	12 45.28	−18 14.4	1.637	2.468	16.5	18.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
46834 1998 QL_{11}			4 11.1 250°.78		0°.1/11.0 18	
	h m	° ′			°	m
3 12	13 42.11	−10 19.9	1.770	2.640	12.7	19.4
3 22	13 36.27	− 9 44.9	1.687	2.627	9.0	19.1
4 1	13 28.41	− 8 57.7	1.629	2.614	4.7	18.8
4 11	13 19.35	− 8 2.7	1.598	2.600	0.1	18.4
4 21	13 10.12	− 7 5.9	1.595	2.586	4.7	18.8
5 1	13 1.80	− 6 14.3	1.619	2.571	9.2	19.0
5 11	12 55.30	− 5 33.6	1.667	2.556	13.3	19.2
5 21	12 51.15	− 5 7.8	1.735	2.541	16.8	19.4
245534 2005 SX_{272}			4 11.1 231°.07		1°.3/ 9.8 17	
3 12	13 41.29	− 4 25.4	2.583	3.452	9.2	20.6
3 22	13 35.14	− 4 13.1	2.504	3.445	6.4	20.4
4 1	13 27.62	− 3 57.7	2.452	3.437	3.3	20.2
4 11	13 19.35	− 3 42.0	2.429	3.429	1.3	20.0
4 21	13 11.02	− 3 29.1	2.437	3.421	4.0	20.2
5 1	13 3.34	− 3 21.9	2.474	3.413	7.2	20.4
5 11	12 56.92	− 3 22.9	2.536	3.404	10.1	20.5
5 21	12 52.16	− 3 33.2	2.621	3.396	12.5	20.7
81898 2000 LE_{33}			4 11.1 187°.03		0°.6/11.9 18	
3 12	13 38.07	−13 18.0	2.462	3.318	10.2	19.8
3 22	13 32.94	−12 31.6	2.386	3.317	7.2	19.6
4 1	13 26.49	−11 33.9	2.335	3.317	3.9	19.4
4 11	13 19.33	−10 28.9	2.314	3.316	0.7	19.1
4 21	13 12.18	− 9 21.3	2.322	3.314	3.3	19.4
5 1	13 5.72	− 8 16.4	2.360	3.313	6.7	19.6
5 11	13 0.54	− 7 19.1	2.423	3.311	9.8	19.8
5 21	12 57.02	− 6 32.8	2.510	3.309	12.4	19.9
56748 2000 OF_{4}			4 11.1 268°.76		2°.2/ 8.9 18	
3 12	13 39.54	− 5 47.8	1.889	2.770	11.5	19.7
3 22	13 34.39	− 4 35.1	1.803	2.750	8.0	19.4
4 1	13 27.42	− 3 12.4	1.743	2.729	4.1	19.2
4 11	13 19.36	− 1 46.5	1.710	2.708	2.4	19.0
4 21	13 11.12	− 0 24.9	1.706	2.687	5.9	19.2
5 1	13 3.66	+ 0 44.9	1.729	2.665	10.0	19.4
5 11	12 57.82	+ 1 37.3	1.776	2.643	13.7	19.5
5 21	12 54.11	+ 2 9.8	1.843	2.621	16.9	19.7
12851 1998 DT_{9}			4 11.1 241°.92		1°.0/11.8 18	
3 12	13 44.93	−12 32.4	1.431	2.302	15.2	18.5
3 22	13 38.65	−12 11.3	1.354	2.292	10.9	18.2
4 1	13 29.79	−11 34.0	1.299	2.282	6.0	17.9
4 11	13 19.39	−10 44.4	1.270	2.271	1.1	17.6
4 21	13 8.77	− 9 49.0	1.267	2.260	5.2	17.8
5 1	12 59.31	− 8 56.1	1.290	2.249	10.4	18.1
5 11	12 52.17	− 8 13.5	1.335	2.237	15.2	18.3
5 21	12 47.96	− 7 46.2	1.400	2.224	19.1	18.5
320582 2008 AW_{136}			4 11.1 41°.94		3°.1/ 8.6 18	
3 12	13 39.72	− 4 44.1	1.320	2.217	14.4	20.6
3 22	13 34.73	− 3 29.9	1.273	2.227	9.8	20.4
4 1	13 27.58	− 2 7.8	1.250	2.238	5.2	20.2
4 11	13 19.36	− 0 47.4	1.251	2.249	3.3	20.1
4 21	13 11.31	+ 0 22.0	1.278	2.260	7.2	20.3
5 1	13 4.59	+ 1 12.6	1.330	2.272	11.8	20.6
5 11	13 0.07	+ 1 40.6	1.402	2.285	15.8	20.9
5 21	12 58.13	+ 1 45.4	1.492	2.297	19.1	21.1
286019 2001 SA_{146}			4 11.1 145°.22		2°.0/12.8 18	
3 12	13 46.65	−15 18.7	1.815	2.664	13.5	22.3
3 22	13 39.24	−15 6.8	1.751	2.676	9.8	22.1
4 1	13 29.83	−14 39.9	1.711	2.688	5.7	21.9
4 11	13 19.40	−14 1.0	1.699	2.698	2.1	21.7
4 21	13 9.04	−13 14.9	1.716	2.708	4.2	21.8
5 1	12 59.84	−12 28.0	1.761	2.717	8.3	22.1
5 11	12 52.62	−11 46.4	1.831	2.725	12.0	22.3
5 21	12 47.85	−11 14.7	1.922	2.733	15.2	22.5
153391 2001 QQ_{74}			4 11.1 104°.57		1°.7/12.4 18	
3 12	13 46.17	−13 19.9	1.865	2.718	13.0	19.2
3 22	13 38.84	−13 30.4	1.805	2.733	9.3	19.0
4 1	13 29.60	−13 29.0	1.770	2.748	5.3	18.8
4 11	13 19.40	−13 18.1	1.763	2.762	1.8	18.6
4 21	13 9.28	−13 0.9	1.784	2.776	4.1	18.7
5 1	13 0.27	−12 42.3	1.834	2.790	8.0	19.0
5 11	12 53.18	−12 27.0	1.908	2.804	11.6	19.3
5 21	12 48.45	−12 18.7	2.005	2.817	14.6	19.5
209488 2004 HW_{62}			4 11.1 9°.00		10°.0/ 2.4 18	
3 12	13 38.99	+15 32.7	1.523	2.410	13.4	18.8
3 22	13 34.05	+16 45.1	1.487	2.413	11.1	18.7
4 1	13 27.17	+17 41.4	1.474	2.417	10.0	18.6
4 11	13 19.36	+18 13.0	1.484	2.422	10.6	18.7
4 21	13 11.73	+18 15.0	1.517	2.428	12.7	18.8
5 1	13 5.32	+17 46.5	1.571	2.435	15.2	19.0
5 11	13 0.89	+16 50.2	1.644	2.444	17.7	19.1
5 21	12 58.81	+15 31.1	1.733	2.453	19.9	19.3

289696 2005 GS_{177} 4 11.2 253.°85 0.°1/11.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 39.43	−10 33.1	2.138	3.005	11.0	21.5
3 22	13 34.08	−10 4.6	2.062	3.000	7.7	21.3
4 1	13 27.16	− 9 26.3	2.010	2.995	4.0	21.1
4 11	13 19.37	− 8 42.1	1.987	2.989	0.1	20.7
4 21	13 11.52	− 7 56.4	1.992	2.984	3.9	21.0
5 1	13 4.45	− 7 14.5	2.026	2.978	7.7	21.3
5 11	12 58.85	− 6 40.8	2.084	2.973	11.1	21.4
5 21	12 55.16	− 6 18.4	2.164	2.967	14.0	21.6

111069 2001 VS_{48} 4 11.2 205.°39 4.°9/16.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.69	−27 6.3	2.336	3.126	12.8	19.9
3 22	13 35.69	−26 50.0	2.245	3.121	10.3	19.7
4 1	13 28.01	−26 12.7	2.177	3.115	7.6	19.5
4 11	13 19.38	−25 15.1	2.136	3.108	5.4	19.4
4 21	13 10.68	−24 0.8	2.123	3.101	5.2	19.3
5 1	13 2.79	−22 35.6	2.139	3.093	7.2	19.4
5 11	12 56.46	−21 7.1	2.182	3.085	10.0	19.6
5 21	12 52.15	−19 42.3	2.249	3.076	12.7	19.8

499107 2009 HJ_{11} 4 11.2 287.°68 2.°0/ 9.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.46	− 4 45.8	1.539	2.423	13.5	21.2
3 22	13 38.32	− 4 21.7	1.449	2.396	9.5	20.9
4 1	13 29.68	− 3 50.5	1.383	2.369	5.0	20.6
4 11	13 19.41	− 3 17.4	1.342	2.342	2.1	20.3
4 21	13 8.72	− 2 48.6	1.329	2.315	6.3	20.5
5 1	12 58.95	− 2 30.3	1.341	2.288	11.3	20.7
5 11	12 51.23	− 2 27.2	1.376	2.260	15.9	20.9
5 21	12 46.30	− 2 41.3	1.429	2.233	19.8	21.1

186254 2001 XK_{241} 4 11.2 221.°00 5.°3/ 6.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.09	+ 6 18.6	2.054	2.932	10.9	20.9
3 22	13 37.33	+ 7 4.0	1.986	2.924	8.0	20.7
4 1	13 28.83	+ 7 45.2	1.946	2.916	5.7	20.5
4 11	13 19.40	+ 8 16.2	1.933	2.907	5.6	20.5
4 21	13 9.95	+ 8 32.2	1.948	2.898	7.9	20.6
5 1	13 1.39	+ 8 30.3	1.990	2.888	10.9	20.8
5 11	12 54.48	+ 8 9.7	2.054	2.878	13.8	20.9
5 21	12 49.66	+ 7 31.9	2.138	2.867	16.3	21.1

341294 2007 RK_{308} 4 11.2 211.°27 0.°1/11.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.39	−10 16.1	2.305	3.169	10.4	21.7
3 22	13 33.96	− 9 40.6	2.228	3.165	7.3	21.5
4 1	13 27.06	− 8 55.9	2.177	3.161	3.8	21.2
4 11	13 19.38	− 8 5.8	2.154	3.156	0.1	20.9
4 21	13 11.65	− 7 15.0	2.161	3.151	3.7	21.2
5 1	13 4.65	− 6 28.3	2.196	3.146	7.3	21.4
5 11	12 59.03	− 5 50.1	2.257	3.141	10.5	21.6
5 21	12 55.19	− 5 23.3	2.340	3.135	13.3	21.8

161014 2002 ES_{80} 4 11.2 155.°38 2.°0/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.78	−16 19.8	1.769	2.620	13.7	20.3
3 22	13 37.31	−15 49.4	1.701	2.627	10.0	20.1
4 1	13 28.88	−15 1.7	1.657	2.633	5.8	19.9
4 11	13 19.41	−14 0.6	1.640	2.639	2.2	19.6
4 21	13 9.97	−12 52.2	1.652	2.645	4.2	19.8
5 1	13 1.64	−11 43.9	1.691	2.649	8.4	20.0
5 11	12 55.24	−10 43.0	1.755	2.654	12.3	20.3
5 21	12 51.24	− 9 54.6	1.840	2.657	15.5	20.5

351870 2006 SP_{50} 4 11.2 225.°57 3.°8/15.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.12	−22 35.0	2.456	3.270	11.5	21.1
3 22	13 34.53	−22 33.5	2.368	3.264	9.0	20.9
4 1	13 27.39	−22 16.0	2.304	3.257	6.3	20.8
4 11	13 19.39	−21 43.4	2.268	3.251	4.1	20.6
4 21	13 11.28	−20 58.7	2.259	3.244	4.3	20.6
5 1	13 3.87	−20 6.3	2.280	3.236	6.7	20.7
5 11	12 57.85	−19 11.9	2.326	3.229	9.5	20.9
5 21	12 53.67	−18 20.8	2.397	3.221	12.1	21.1

291868 2006 PT_{7} 4 11.2 237.°37 1.°1/12.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.69	−13 1.5	1.878	2.736	12.7	21.6
3 22	13 37.35	−12 42.4	1.791	2.723	9.1	21.4
4 1	13 28.99	−12 10.0	1.729	2.710	5.1	21.1
4 11	13 19.42	−11 27.3	1.694	2.696	1.2	20.8
4 21	13 9.64	−10 39.3	1.688	2.681	4.2	21.0
5 1	13 0.74	− 9 51.9	1.710	2.665	8.6	21.2
5 11	12 53.62	− 9 11.4	1.756	2.649	12.5	21.4
5 21	12 48.83	− 8 42.2	1.823	2.633	15.9	21.6

302849 Richardboyle 4 11.2 60.°17 2.°4/12.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 47.28	−14 15.4	2.137	2.980	12.0	20.0
3 22	13 39.54	−14 57.3	2.069	2.990	8.8	19.9
4 1	13 29.98	−15 29.2	2.027	3.000	5.3	19.7
4 11	13 19.43	−15 51.4	2.015	3.011	2.5	19.5
4 21	13 8.86	−16 5.2	2.032	3.021	4.0	19.6
5 1	12 59.23	−16 13.7	2.078	3.032	7.4	19.8
5 11	12 51.34	−16 20.5	2.150	3.043	10.6	20.0
5 21	12 45.64	−16 29.2	2.246	3.054	13.4	20.3

332078 2005 TY_{26} 4 11.2 154.°99 0.°0/11.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 40.99	−11 0.5	2.097	2.960	11.3	22.2
3 22	13 35.11	−10 16.5	2.030	2.967	7.9	22.0
4 1	13 27.65	− 9 21.8	1.989	2.973	4.1	21.7
4 11	13 19.40	− 8 21.1	1.976	2.979	0.1	21.4
4 21	13 11.18	− 7 19.8	1.993	2.984	4.0	21.7
5 1	13 3.84	− 6 23.6	2.038	2.988	7.8	22.0
5 11	12 58.07	− 5 37.5	2.108	2.992	11.2	22.2
5 21	12 54.25	− 5 4.5	2.200	2.996	14.0	22.4

333438 2003 SX_{235} 4 11.2 161.°99 3.°9/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.57	+ 2 10.1	2.359	3.240	9.5	21.2
3 22	13 33.95	+ 3 16.1	2.302	3.245	6.7	21.1
4 1	13 27.00	+ 4 21.7	2.272	3.250	4.4	20.9
4 11	13 19.39	+ 5 21.1	2.272	3.254	4.2	20.9
4 21	13 11.83	+ 6 9.5	2.300	3.258	6.4	21.1
5 1	13 5.03	+ 6 43.1	2.355	3.261	9.1	21.2
5 11	12 59.58	+ 7 0.1	2.435	3.264	11.7	21.4
5 21	12 55.84	+ 7 0.4	2.534	3.266	14.0	21.6

320557 2008 AQ_{49} 4 11.2 353.°14 3.°8/13.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.71	−18 1.7	1.359	2.221	16.4	20.3
3 22	13 36.45	−18 8.8	1.290	2.218	12.3	20.0
4 1	13 28.67	−17 54.9	1.242	2.216	7.8	19.8
4 11	13 19.42	−17 21.8	1.219	2.214	4.1	19.5
4 21	13 10.03	−16 34.5	1.220	2.213	5.4	19.6
5 1	13 1.91	−15 41.2	1.246	2.212	9.9	19.8
5 11	12 56.15	−14 51.0	1.294	2.212	14.3	20.1
5 21	12 53.32	−14 10.9	1.361	2.213	18.2	20.3

16596 Stephenstrauss 4 11.2 14.°50 0.°2/11.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 38.86	−10 38.3	1.128	2.023	16.4	17.4
3 22	13 34.53	− 9 57.9	1.075	2.026	11.5	17.1
4 1	13 27.65	− 9 0.8	1.043	2.031	5.9	16.8
4 11	13 19.41	− 7 54.4	1.034	2.036	0.2	16.4
4 21	13 11.23	− 6 48.4	1.049	2.043	5.9	16.8
5 1	13 4.50	− 5 52.4	1.087	2.050	11.4	17.1
5 11	13 0.27	− 5 13.9	1.146	2.058	16.2	17.4
5 21	12 58.97	− 4 56.2	1.221	2.068	20.1	17.7

61720 2000 QM_{143} 4 11.2 148.°98 1.°1/10.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.61	− 7 47.1	1.955	2.829	11.5	19.1
3 22	13 34.93	− 7 0.4	1.890	2.834	7.9	18.9
4 1	13 27.60	− 6 5.2	1.852	2.838	4.0	18.7
4 11	13 19.42	− 5 6.9	1.841	2.842	1.1	18.5
4 21	13 11.27	− 4 11.3	1.858	2.846	4.7	18.7
5 1	13 4.04	− 3 23.9	1.903	2.849	8.6	19.0
5 11	12 58.44	− 2 49.3	1.973	2.852	12.0	19.2
5 21	12 54.88	− 2 29.5	2.063	2.855	14.9	19.4

288625 2004 OT_{14} 4 11.2 210.°13 6.°2/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 37.56	+11 28.5	2.504	3.382	9.2	20.7
3 22	13 32.56	+12 44.0	2.453	3.380	7.2	20.5
4 1	13 26.30	+13 52.6	2.428	3.378	6.2	20.5
4 11	13 19.40	+14 48.4	2.431	3.376	6.7	20.5
4 21	13 12.53	+15 27.1	2.461	3.373	8.4	20.6
5 1	13 6.35	+15 46.0	2.516	3.371	10.5	20.7
5 11	13 1.42	+15 45.0	2.593	3.368	12.6	20.9
5 21	12 58.09	+15 25.3	2.688	3.366	14.4	21.0

361713 2007 VL_{303} 4 11.2 148.°48 5.°8/ 5.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.49	+ 5 48.6	1.906	2.789	11.4	20.9
3 22	13 36.85	+ 7 8.1	1.860	2.799	8.3	20.8
4 1	13 28.55	+ 8 23.4	1.840	2.809	6.1	20.6
4 11	13 19.43	+ 9 26.9	1.848	2.819	6.2	20.7
4 21	13 10.47	+10 12.4	1.883	2.827	8.6	20.8
5 1	13 2.55	+10 36.6	1.944	2.835	11.5	21.0
5 11	12 56.40	+10 38.6	2.028	2.842	14.3	21.2
5 21	12 52.38	+10 20.3	2.129	2.848	16.6	21.4

435634 2008 SX_{141} 4 11.2 240.°73 1.°1/10.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.11	− 6 51.3	2.314	3.183	10.2	22.0
3 22	13 35.22	− 6 14.8	2.226	3.168	7.1	21.8
4 1	13 27.78	− 5 31.3	2.166	3.151	3.6	21.5
4 11	13 19.43	− 4 44.9	2.134	3.135	1.1	21.3
4 21	13 10.95	− 4 0.1	2.132	3.117	4.3	21.5
5 1	13 3.15	− 3 21.7	2.158	3.099	7.9	21.7
5 11	12 56.72	− 2 53.6	2.209	3.081	11.2	21.9
5 21	12 52.13	− 2 38.1	2.283	3.062	14.0	22.0

77409 2001 FD_{172} 4 11.2 271.°05 11.°1/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 48.06	+20 5.9	1.679	2.539	13.9	18.4
3 22	13 40.47	+21 6.8	1.621	2.524	12.0	18.3
4 1	13 30.60	+21 48.9	1.587	2.508	11.1	18.2
4 11	13 19.48	+22 3.3	1.576	2.493	11.7	18.2
4 21	13 8.36	+21 45.0	1.590	2.477	13.6	18.3
5 1	12 58.48	+20 53.2	1.626	2.461	16.2	18.4
5 11	12 50.82	+19 31.7	1.681	2.445	18.7	18.5
5 21	12 45.86	+17 46.3	1.752	2.429	21.0	18.7

215028 2009 BO_{112} 4 11.2 311°.58 3°.6/ 8.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 39.40	− 3 48.4	1.360	2.257	14.0	20.3
3 22	13 34.71	− 2 29.3	1.294	2.247	9.7	20.1
4 1	13 27.72	− 1 0.8	1.251	2.238	5.3	19.8
4 11	13 19.43	+ 0 27.3	1.233	2.229	3.9	19.7
4 21	13 11.04	+ 1 44.9	1.241	2.220	7.8	19.9
5 1	13 3.80	+ 2 43.2	1.273	2.211	12.5	20.1
5 11	12 58.72	+ 3 16.9	1.325	2.203	16.8	20.3
5 21	12 56.31	+ 3 25.1	1.395	2.195	20.4	20.5

106334 2000 UM_{107} 4 11.2 233°.64 2°.7/ 7.6 18

3 12	13 38.67	+ 0 25.6	2.950	3.825	8.0	20.5
3 22	13 33.24	+ 1 10.6	2.868	3.810	5.6	20.3
4 1	13 26.65	+ 1 56.7	2.814	3.795	3.4	20.2
4 11	13 19.42	+ 2 39.9	2.791	3.779	2.9	20.1
4 21	13 12.12	+ 3 16.5	2.797	3.763	4.9	20.2
5 1	13 5.36	+ 3 43.4	2.832	3.746	7.4	20.4
5 11	12 59.63	+ 3 58.4	2.892	3.729	9.9	20.5
5 21	12 55.32	+ 4 0.7	2.974	3.711	12.0	20.6

497396 2005 VP_{114} 4 11.2 225°.37 3°.3/ 7.9 17

3 12	13 43.89	+ 1 9.2	2.363	3.237	9.8	22.4
3 22	13 37.09	+ 1 46.6	2.283	3.224	6.9	22.1
4 1	13 28.72	+ 2 24.4	2.230	3.210	4.2	21.9
4 11	13 19.46	+ 2 57.9	2.206	3.195	3.5	21.9
4 21	13 10.10	+ 3 22.8	2.212	3.179	5.9	22.0
5 1	13 1.46	+ 3 35.6	2.247	3.163	9.0	22.2
5 11	12 54.24	+ 3 34.4	2.306	3.146	12.0	22.3
5 21	12 48.88	+ 3 18.8	2.387	3.128	14.5	22.5

125106 2001 UR_{39} 4 11.2 241°.13 0°.9/ 9.4 18

3 12	13 32.19	− 4 26.9	4.706	5.576	5.4	20.4
3 22	13 28.45	− 4 1.1	4.628	5.570	3.7	20.3
4 1	13 24.08	− 3 33.4	4.579	5.564	1.9	20.2
4 11	13 19.38	− 3 5.5	4.559	5.558	0.9	20.1
4 21	13 14.67	− 2 39.5	4.570	5.552	2.5	20.2
5 1	13 10.27	− 2 17.2	4.611	5.545	4.3	20.3
5 11	13 6.46	− 2 0.1	4.678	5.539	6.0	20.4
5 21	13 3.46	− 1 49.3	4.770	5.532	7.4	20.5

336435 2008 UG_{265} 4 11.2 261°.52 1°.9/12.9 17

3 12	13 40.23	−15 46.8	1.964	2.817	12.4	21.3
3 22	13 34.82	−15 27.9	1.885	2.812	9.1	21.0
4 1	13 27.63	−14 54.3	1.831	2.807	5.4	20.8
4 11	13 19.44	−14 8.9	1.803	2.802	2.1	20.6
4 21	13 11.17	−13 16.2	1.803	2.796	3.9	20.7
5 1	13 3.75	−12 22.3	1.831	2.791	7.8	20.9
5 11	12 57.98	−11 33.3	1.884	2.785	11.4	21.1
5 21	12 54.32	−10 54.1	1.958	2.780	14.5	21.3

136071 2002 XF_{106} 4 11.2 128°.56 3°.4/14.8 18

3 12	13 40.48	−20 53.0	2.291	3.117	11.9	20.2
3 22	13 34.78	−20 50.1	2.217	3.122	9.1	20.0
4 1	13 27.53	−20 31.4	2.167	3.127	6.1	19.8
4 11	13 19.44	−19 58.5	2.144	3.132	3.7	19.7
4 21	13 11.34	−19 14.8	2.150	3.137	4.1	19.7
5 1	13 4.04	−18 25.1	2.183	3.142	6.8	19.9
5 11	12 58.23	−17 35.2	2.243	3.146	9.8	20.1
5 21	12 54.33	−16 50.1	2.326	3.151	12.4	20.3

175520 2006 SZ_{57} 4 11.2 127°.43 5°.5/ 3.4 18

3 12	13 38.39	+11 1.8	2.794	3.668	8.5	20.3
3 22	13 32.95	+12 13.8	2.756	3.682	6.6	20.2
4 1	13 26.44	+13 19.1	2.746	3.697	5.5	20.2
4 11	13 19.42	+14 12.4	2.765	3.711	5.9	20.2
4 21	13 12.51	+14 50.4	2.812	3.724	7.5	20.3
5 1	13 6.29	+15 10.9	2.885	3.738	9.4	20.5
5 11	13 1.24	+15 13.8	2.980	3.750	11.2	20.6
5 21	12 57.64	+15 0.2	3.094	3.762	12.8	20.8

16861 Lipovetsky 4 11.2 236°.19 3°.3/ 7.8 18

3 12	13 39.51	− 2 13.4	1.885	2.772	11.3	18.6
3 22	13 34.27	− 0 58.5	1.817	2.765	7.8	18.4
4 1	13 27.32	+ 0 21.5	1.774	2.759	4.4	18.1
4 11	13 19.44	+ 1 39.3	1.760	2.752	3.6	18.1
4 21	13 11.53	+ 2 47.7	1.773	2.746	6.6	18.2
5 1	13 4.49	+ 3 40.7	1.813	2.739	10.3	18.4
5 11	12 59.08	+ 4 14.5	1.876	2.731	13.6	18.6
5 21	12 55.73	+ 4 28.2	1.958	2.724	16.5	18.8

283155 2009 BC_{14} 4 11.2 73°.31 13°.1/21.9 18

3 12	13 58.65	−39 24.8	1.524	2.248	21.2	20.0
3 22	13 48.55	−41 12.2	1.484	2.284	18.5	19.9
4 1	13 35.00	−42 21.9	1.461	2.320	15.9	19.8
4 11	13 19.58	−42 47.7	1.460	2.355	13.9	19.8
4 21	13 4.29	−42 29.8	1.481	2.390	13.1	19.8
5 1	12 51.12	−41 36.0	1.525	2.424	13.6	19.9
5 11	12 41.40	−40 19.5	1.591	2.457	15.1	20.1
5 21	12 35.65	−38 54.1	1.677	2.490	17.0	20.3

320646 2008 CL_{119} 4 11.2 71°.26 3°.6/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 44.06	−18 24.2	1.524	2.375	15.5	20.9
3 22	13 37.78	−18 30.6	1.464	2.386	11.6	20.7
4 1	13 29.23	−18 17.6	1.426	2.397	7.4	20.5
4 11	13 19.48	−17 47.0	1.413	2.407	3.9	20.3
4 21	13 9.77	−17 3.8	1.427	2.418	5.1	20.4
5 1	13 1.35	−16 15.2	1.466	2.429	9.0	20.7
5 11	12 55.16	−15 29.1	1.529	2.440	13.0	20.9
5 21	12 51.67	−14 51.6	1.613	2.451	16.4	21.2

273874 2007 GO_{76} 4 11.2 105°.12 0°.0/11.2 17

3 12	13 42.28	− 9 41.0	1.825	2.696	12.4	20.6
3 22	13 36.23	− 9 23.6	1.759	2.699	8.7	20.4
4 1	13 28.35	− 8 56.6	1.717	2.702	4.5	20.1
4 11	13 19.47	− 8 24.0	1.703	2.705	0.1	19.7
4 21	13 10.60	− 7 50.4	1.717	2.709	4.4	20.1
5 1	13 2.73	− 7 21.1	1.758	2.712	8.5	20.4
5 11	12 56.64	− 7 0.8	1.823	2.715	12.2	20.6
5 21	12 52.78	− 6 52.0	1.909	2.718	15.4	20.8

209002 2003 BL_{14} 4 11.2 188°.78 5°.6/ 3.9 18

3 12	13 37.73	+ 8 7.9	2.376	3.259	9.4	19.9
3 22	13 32.73	+ 9 31.5	2.323	3.259	7.1	19.7
4 1	13 26.42	+10 50.5	2.297	3.258	5.7	19.6
4 11	13 19.45	+11 58.5	2.299	3.258	6.1	19.6
4 21	13 12.50	+12 50.4	2.329	3.257	8.0	19.8
5 1	13 6.27	+13 22.9	2.384	3.255	10.4	19.9
5 11	13 1.34	+13 35.1	2.461	3.254	12.7	20.1
5 21	12 58.06	+13 27.8	2.557	3.252	14.7	20.2

309356 2007 TO_{67} 4 11.2 101°.64 2°.1/ 9.6 18

3 12	13 47.42	− 3 54.9	1.703	2.579	12.9	20.5
3 22	13 39.63	− 3 28.0	1.660	2.603	8.8	20.3
4 1	13 29.98	− 2 57.0	1.642	2.627	4.6	20.1
4 11	13 19.51	− 2 27.3	1.651	2.650	2.2	20.0
4 21	13 9.31	− 2 3.8	1.690	2.673	5.6	20.2
5 1	13 0.44	− 1 50.7	1.755	2.695	9.6	20.5
5 11	12 53.62	− 1 50.6	1.845	2.716	13.1	20.8
5 21	12 49.24	− 2 3.9	1.955	2.736	16.0	21.0

462197 2007 UA_{142} 4 11.2 125°.58 1°.3/10.0 18

3 12	13 44.15	− 6 59.5	1.760	2.635	12.6	22.4
3 22	13 37.45	− 6 17.6	1.706	2.649	8.7	22.2
4 1	13 28.92	− 5 27.8	1.676	2.662	4.4	21.9
4 11	13 19.50	− 4 36.0	1.675	2.675	1.4	21.7
4 21	13 10.21	− 3 48.0	1.701	2.688	5.1	22.0
5 1	13 2.06	− 3 9.5	1.755	2.700	9.2	22.3
5 11	12 55.82	− 2 44.6	1.833	2.711	12.9	22.5
5 21	12 51.87	− 2 34.9	1.931	2.722	15.8	22.8

387797 2003 WY_{130} 4 11.2 153°.15 0°.0/11.1 17

3 12	13 41.34	− 9 33.6	2.189	3.054	10.9	21.0
3 22	13 35.36	− 9 14.6	2.120	3.058	7.6	20.8
4 1	13 27.83	− 8 47.4	2.077	3.061	3.9	20.6
4 11	13 19.49	− 8 15.5	2.062	3.064	0.1	20.2
4 21	13 11.15	− 7 43.0	2.076	3.067	3.8	20.6
5 1	13 3.64	− 7 14.2	2.119	3.070	7.5	20.8
5 11	12 57.62	− 6 52.9	2.187	3.072	10.8	21.0
5 21	12 53.51	− 6 41.7	2.277	3.075	13.5	21.2

349867 2009 DY_{57} 4 11.2 325°.53 1°.1/10.2 17

3 12	13 38.87	− 7 1.0	1.969	2.847	11.2	20.7
3 22	13 33.82	− 6 28.4	1.895	2.841	7.8	20.5
4 1	13 27.11	− 5 48.4	1.848	2.834	4.0	20.3
4 11	13 19.49	− 5 5.5	1.827	2.828	1.1	20.0
4 21	13 11.81	− 4 24.9	1.834	2.822	4.7	20.3
5 1	13 4.96	− 3 51.6	1.869	2.817	8.5	20.5
5 11	12 59.65	− 3 29.7	1.927	2.811	12.0	20.7
5 21	12 56.34	− 3 21.4	2.006	2.806	15.0	20.9

49620 1999 FH_{51} 4 11.2 106°.61 3°.8/14.8 18

3 12	13 41.46	−20 56.6	2.188	3.014	12.4	18.3
3 22	13 35.56	−21 5.1	2.114	3.018	9.5	18.2
4 1	13 27.99	−20 57.5	2.064	3.023	6.4	18.0
4 11	13 19.51	−20 35.1	2.040	3.027	4.0	17.8
4 21	13 10.98	−20 0.7	2.045	3.031	4.4	17.9
5 1	13 3.30	−19 19.3	2.077	3.035	7.1	18.0
5 11	12 57.19	−18 36.4	2.136	3.040	10.1	18.2
5 21	12 53.10	−17 57.3	2.217	3.044	12.9	18.4

352042 2006 VV_{104} 4 11.2 147°.66 2°.6/14.4 18

3 12	13 38.42	−19 46.3	2.570	3.398	10.7	21.3
3 22	13 33.22	−19 22.7	2.494	3.403	8.0	21.1
4 1	13 26.70	−18 44.9	2.443	3.408	5.2	20.9
4 11	13 19.49	−17 55.3	2.420	3.412	2.8	20.8
4 21	13 12.29	−16 57.5	2.426	3.416	3.4	20.8
5 1	13 5.79	−15 56.4	2.461	3.420	6.1	21.0
5 11	13 0.57	−14 57.3	2.523	3.424	8.9	21.2
5 21	12 57.00	−14 4.5	2.609	3.427	11.4	21.4

422610 2014 TY_{74} 4 11.2 209°.84 0°.3/10.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 43.38	− 9 55.5	1.990	2.855	11.8	22.6
3 22	13 36.99	− 9 15.9	1.910	2.848	8.3	22.4
4 1	13 28.77	− 8 25.4	1.856	2.841	4.3	22.1
4 11	13 19.53	− 7 28.6	1.830	2.832	0.3	21.7
4 21	13 10.19	− 6 31.1	1.833	2.823	4.4	22.1
5 1	13 1.72	− 5 39.0	1.865	2.813	8.5	22.3
5 11	12 54.92	− 4 57.4	1.921	2.802	12.2	22.5
5 21	12 50.28	− 4 29.7	1.999	2.791	15.3	22.7

29325 1994 PN_{39} 4 11.2 225°.07 1°.2/10.2 18

3 12	13 43.27	− 8 8.5	1.528	2.408	13.8	19.7
3 22	13 37.28	− 7 21.0	1.457	2.402	9.6	19.5
4 1	13 29.05	− 6 21.7	1.410	2.396	4.9	19.2
4 11	13 19.54	− 5 17.1	1.389	2.390	1.3	18.9
4 21	13 9.93	− 4 14.7	1.395	2.383	5.7	19.2
5 1	13 1.45	− 3 22.2	1.427	2.376	10.5	19.4
5 11	12 55.07	− 2 45.7	1.482	2.369	14.8	19.7
5 21	12 51.31	− 2 27.8	1.556	2.361	18.4	19.9

210544 1999 RC_{70} 4 11.2 288°.93 3°.1/ 8.5 18

3 12	13 40.19	− 4 57.7	1.471	2.362	13.5	20.0
3 22	13 35.34	− 3 39.0	1.387	2.339	9.4	19.7
4 1	13 28.15	− 2 8.1	1.328	2.315	5.0	19.4
4 11	13 19.53	− 0 33.7	1.294	2.291	3.4	19.2
4 21	13 10.60	+ 0 54.2	1.287	2.267	7.4	19.4
5 1	13 2.64	+ 2 5.7	1.305	2.243	12.3	19.6
5 11	12 56.70	+ 2 54.3	1.344	2.219	16.8	19.8
5 21	12 53.43	+ 3 17.3	1.400	2.195	20.6	20.0

62570 2000 SX_{274} 4 11.2 250°.15 1°.8/ 9.5 18

3 12	13 40.09	− 6 6.2	1.948	2.827	11.3	19.9
3 22	13 34.71	− 5 11.7	1.870	2.816	7.8	19.7
4 1	13 27.61	− 4 9.1	1.818	2.805	4.0	19.4
4 11	13 19.52	− 3 4.1	1.794	2.794	1.9	19.2
4 21	13 11.33	− 2 2.9	1.798	2.782	5.3	19.4
5 1	13 3.97	− 1 11.7	1.830	2.770	9.2	19.6
5 11	12 58.20	− 0 35.0	1.885	2.758	12.8	19.8
5 21	12 54.50	− 0 15.1	1.961	2.746	15.8	20.0

491726 2012 UK_{165} 4 11.2 241°.87 5°.0/16.3 18

3 12	13 41.13	−25 30.4	2.309	3.110	12.6	21.3
3 22	13 35.41	−25 38.5	2.218	3.101	10.1	21.1
4 1	13 27.98	−25 28.0	2.151	3.092	7.4	21.0
4 11	13 19.53	−24 59.2	2.110	3.083	5.4	20.8
4 21	13 10.92	−24 14.4	2.096	3.074	5.3	20.8
5 1	13 3.07	−23 18.4	2.110	3.064	7.3	20.9
5 11	12 56.73	−22 17.5	2.151	3.054	10.1	21.0
5 21	12 52.41	−21 18.1	2.214	3.044	12.8	21.2

408253 2013 EV_{128} 4 11.2 19°.29 2°.1/ 9.8 18

3 12	13 42.20	− 6 6.4	1.226	2.121	15.4	20.8
3 22	13 36.77	− 5 24.9	1.171	2.123	10.7	20.6
4 1	13 28.83	− 4 33.7	1.137	2.126	5.4	20.3
4 11	13 19.54	− 3 40.3	1.128	2.129	2.2	20.1
4 21	13 10.29	− 2 53.2	1.144	2.132	6.7	20.3
5 1	13 2.45	− 2 20.0	1.183	2.136	11.9	20.6
5 11	12 57.06	− 2 5.4	1.244	2.140	16.4	20.9
5 21	12 54.59	− 2 11.0	1.321	2.145	20.1	21.2

500809 2013 GT_{39} 4 11.2 316°.83 5°.5/ 7.1 17

3 12	13 39.31	− 0 16.4	1.169	2.076	15.0	20.3
3 22	13 35.09	+ 1 0.8	1.097	2.054	10.7	19.9
4 1	13 28.15	+ 2 24.7	1.047	2.032	6.6	19.6
4 11	13 19.53	+ 3 44.2	1.020	2.011	6.0	19.5
4 21	13 10.59	+ 4 47.6	1.016	1.990	10.0	19.7
5 1	13 2.84	+ 5 25.7	1.035	1.971	15.0	19.9
5 11	12 57.51	+ 5 33.7	1.072	1.952	19.7	20.1
5 21	12 55.28	+ 5 12.0	1.124	1.934	23.7	20.3

364595 2007 RX_{173} 4 11.2 99°.79 1°.6/ 9.9 18

3 12	13 45.25	− 5 53.2	1.531	2.412	13.7	20.9
3 22	13 38.43	− 5 22.2	1.480	2.426	9.5	20.7
4 1	13 29.51	− 4 44.1	1.453	2.440	4.8	20.5
4 11	13 19.56	− 4 4.8	1.453	2.454	1.7	20.3
4 21	13 9.79	− 3 30.4	1.480	2.467	5.7	20.6
5 1	13 1.33	− 3 6.4	1.533	2.480	10.1	20.9
5 11	12 55.03	− 2 56.5	1.610	2.493	14.0	21.1
5 21	12 51.30	− 3 1.9	1.705	2.505	17.2	21.4

110958 2001 UH_{167} 4 11.2 70°.33 4°.8/14.7 17

3 12	13 45.25	−20 49.9	1.712	2.545	14.9	19.0
3 22	13 38.60	−21 21.8	1.643	2.551	11.5	18.8
4 1	13 29.72	−21 34.9	1.596	2.556	7.9	18.6
4 11	13 19.57	−21 29.3	1.576	2.562	5.1	18.5
4 21	13 9.34	−21 7.6	1.582	2.567	5.6	18.5
5 1	13 0.23	−20 35.4	1.615	2.573	8.8	18.7
5 11	12 53.21	−19 59.7	1.672	2.579	12.3	18.9
5 21	12 48.82	−19 27.1	1.750	2.585	15.5	19.1

4399 Ashizuri 4 11.2 285°.54 4°.9/15.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 39.91	−24 21.9	1.763	2.587	14.9	16.6
3 22	13 34.99	−24 2.6	1.668	2.569	11.8	16.4
4 1	13 27.92	−23 18.0	1.595	2.550	8.4	16.1
4 11	13 19.54	−22 9.1	1.547	2.531	5.4	15.9
4 21	13 10.92	−20 40.5	1.526	2.513	5.5	15.9
5 1	13 3.20	−19 0.5	1.531	2.494	8.7	16.0
5 11	12 57.36	−17 19.2	1.561	2.475	12.5	16.2
5 21	12 54.01	−15 45.8	1.613	2.457	16.1	16.4

459975 2014 OL_{19} 4 11.2 126°.53 3°.3/ 8.4 18

3 12	13 43.42	− 3 3.6	1.563	2.450	13.2	21.8
3 22	13 37.12	− 1 54.8	1.512	2.461	9.1	21.6
4 1	13 28.83	− 0 40.8	1.485	2.471	4.9	21.3
4 11	13 19.56	+ 0 30.1	1.486	2.481	3.5	21.3
4 21	13 10.42	+ 1 30.2	1.513	2.490	7.0	21.5
5 1	13 2.52	+ 2 13.2	1.567	2.499	11.1	21.8
5 11	12 56.67	+ 2 36.0	1.643	2.508	14.7	22.0
5 21	12 53.27	+ 2 38.2	1.737	2.516	17.8	22.2

406235 2007 BF_{73} 4 11.2 67°.11 8°.0/16.3 18

3 12	13 59.37	−26 55.3	1.664	2.450	17.3	20.8
3 22	13 48.37	−28 27.1	1.623	2.491	14.0	20.6
4 1	13 34.68	−29 32.8	1.605	2.532	10.7	20.5
4 11	13 19.67	−30 8.9	1.614	2.571	8.3	20.5
4 21	13 4.94	−30 16.4	1.651	2.611	8.2	20.5
5 1	12 52.02	−30 1.2	1.716	2.650	10.2	20.7
5 11	12 41.96	−29 32.8	1.805	2.688	12.8	21.0
5 21	12 35.20	−29 0.2	1.916	2.725	15.3	21.2

101495 1998 XJ_{3} 4 11.2 94°.63 1°.7/ 9.3 18

3 12	13 38.74	− 6 4.7	2.077	2.956	10.7	19.6
3 22	13 33.54	− 5 3.7	2.021	2.967	7.3	19.4
4 1	13 26.89	− 3 56.3	1.991	2.978	3.7	19.2
4 11	13 19.53	− 2 48.3	1.989	2.989	1.8	19.1
4 21	13 12.25	− 1 45.5	2.017	2.999	4.9	19.3
5 1	13 5.84	− 0 53.3	2.071	3.010	8.4	19.6
5 11	13 0.91	− 0 15.3	2.150	3.020	11.5	19.8
5 21	12 57.84	+ 0 6.7	2.250	3.031	14.2	20.0

376171 2011 CV_{11} 4 11.2 300°.84 0°.9/11.9 17

3 12	13 40.85	−12 43.6	1.668	2.537	13.4	21.2
3 22	13 35.51	−12 20.7	1.592	2.530	9.6	21.0
4 1	13 28.12	−11 43.5	1.540	2.522	5.3	20.7
4 11	13 19.55	−10 56.0	1.513	2.515	1.1	20.4
4 21	13 10.86	−10 3.9	1.514	2.508	4.4	20.6
5 1	13 3.15	− 9 14.1	1.541	2.501	9.0	20.8
5 11	12 57.34	− 8 32.9	1.592	2.494	13.1	21.1
5 21	12 53.93	− 8 4.9	1.663	2.487	16.6	21.3

376749 1999 UQ_{27} 4 11.2 131°.00 0°.9/12.1 17

3 12	13 42.76	−12 45.9	2.342	3.193	10.8	21.7
3 22	13 36.23	−12 31.4	2.278	3.207	7.7	21.6
4 1	13 28.26	−12 7.0	2.241	3.221	4.2	21.4
4 11	13 19.56	−11 35.6	2.233	3.234	1.0	21.1
4 21	13 10.93	−11 0.8	2.254	3.246	3.4	21.4
5 1	13 3.14	−10 27.1	2.305	3.258	6.8	21.6
5 11	12 56.83	− 9 58.5	2.382	3.270	9.9	21.8
5 21	12 52.37	− 9 38.0	2.481	3.281	12.5	22.0

480535 2015 MK_{27} 4 11.2 188°.02 4°.2/15.9 17

3 12	13 39.36	−23 57.2	2.336	3.147	12.1	21.4
3 22	13 34.07	−23 49.3	2.255	3.147	9.5	21.2
4 1	13 27.23	−23 23.6	2.197	3.147	6.8	21.0
4 11	13 19.54	−22 41.2	2.166	3.146	4.5	20.9
4 21	13 11.80	−21 45.5	2.163	3.146	4.6	20.9
5 1	13 4.83	−20 41.8	2.188	3.145	6.8	21.0
5 11	12 59.32	−19 36.3	2.239	3.145	9.6	21.2
5 21	12 55.69	−18 34.8	2.313	3.144	12.3	21.3

186072 2001 SL_{207} 4 11.2 298°.66 0°.7/10.6 17

3 12	13 40.30	− 9 7.7	1.574	2.456	13.4	20.4
3 22	13 35.22	− 8 25.1	1.499	2.444	9.4	20.1
4 1	13 28.01	− 7 30.0	1.447	2.433	4.8	19.8
4 11	13 19.56	− 6 28.2	1.421	2.422	0.8	19.5
4 21	13 10.98	− 5 26.8	1.421	2.412	5.3	19.8
5 1	13 3.40	− 4 33.4	1.448	2.401	10.0	20.1
5 11	12 57.75	− 3 54.2	1.497	2.391	14.3	20.3
5 21	12 54.60	− 3 32.6	1.565	2.380	17.9	20.5

352499 2008 CK_{28} 4 11.2 124°.05 7°.6/19.6 18

3 12	13 44.49	−34 43.1	2.553	3.285	13.3	21.3
3 22	13 37.76	−35 29.9	2.474	3.292	11.4	21.2
4 1	13 29.20	−35 55.8	2.417	3.299	9.6	21.0
4 11	13 19.59	−35 58.9	2.385	3.306	8.1	21.0
4 21	13 9.84	−35 40.1	2.379	3.312	7.6	20.9
5 1	13 0.90	−35 2.6	2.400	3.318	8.4	21.0
5 11	12 53.59	−34 12.3	2.446	3.325	10.0	21.1
5 21	12 48.40	−33 16.0	2.514	3.331	11.9	21.2

279321 2009 XH_{11} 4 11.2 37°.73 3°.7/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 40.44	− 0 32.7	1.661	2.552	12.3	19.9
3 22	13 35.01	+ 0 18.2	1.608	2.558	8.5	19.7
4 1	13 27.74	+ 1 10.8	1.581	2.565	4.9	19.5
4 11	13 19.56	+ 1 58.1	1.580	2.572	4.0	19.4
4 21	13 11.48	+ 2 34.1	1.606	2.580	7.0	19.6
5 1	13 4.48	+ 2 54.1	1.657	2.587	10.7	19.8
5 11	12 59.31	+ 2 55.9	1.730	2.595	14.1	20.1
5 21	12 56.39	+ 2 39.8	1.822	2.604	17.0	20.3

141295 2001 YD_{91} 4 11.2 103°.34 1°.1/10.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 38.93	− 6 37.3	2.367	3.240	9.8	20.3
3 22	13 33.57	− 6 2.4	2.305	3.248	6.8	20.1
4 1	13 26.89	− 5 22.0	2.270	3.256	3.4	19.9
4 11	13 19.56	− 4 40.0	2.264	3.264	1.1	19.7
4 21	13 12.27	− 4 0.6	2.286	3.272	4.1	19.9
5 1	13 5.73	− 3 28.1	2.337	3.280	7.3	20.2
5 11	13 0.52	− 3 5.4	2.413	3.288	10.3	20.4
5 21	12 56.99	− 2 54.3	2.511	3.296	12.8	20.5

406344 2007 RW_{95} 4 11.2 156°.28 1°.6/ 9.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.71	− 6 18.8	1.949	2.821	11.6	22.6
3 22	13 37.09	− 5 27.2	1.887	2.830	8.0	22.4
4 1	13 28.78	− 4 28.5	1.852	2.838	4.1	22.2
4 11	13 19.60	− 3 28.3	1.846	2.845	1.7	22.0
4 21	13 10.49	− 2 32.6	1.868	2.852	5.1	22.3
5 1	13 2.39	− 1 46.9	1.918	2.858	8.9	22.5
5 11	12 56.00	− 1 15.2	1.993	2.863	12.4	22.7
5 21	12 51.74	− 0 59.1	2.089	2.867	15.2	22.9

230384 2002 GP_{103} 4 11.2 289°.42 4°.5/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 38.91	+ 0 48.3	1.847	2.738	11.3	20.1
3 22	13 34.06	+ 2 10.7	1.766	2.714	8.0	19.9
4 1	13 27.37	+ 3 37.1	1.710	2.690	5.1	19.6
4 11	13 19.58	+ 4 59.4	1.681	2.667	5.0	19.6
4 21	13 11.60	+ 6 9.8	1.680	2.643	7.9	19.7
5 1	13 4.39	+ 7 1.8	1.704	2.619	11.5	19.9
5 11	12 58.80	+ 7 31.4	1.751	2.594	15.0	20.0
5 21	12 55.34	+ 7 38.2	1.816	2.570	18.0	20.2

204795 2006 QK_{87} 4 11.2 166°.98 3°.0/ 7.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 37.83	− 0 59.7	2.450	3.331	9.2	20.8
3 22	13 32.80	+ 0 8.7	2.388	3.334	6.4	20.6
4 1	13 26.51	+ 1 19.5	2.354	3.336	3.7	20.4
4 11	13 19.57	+ 2 27.0	2.348	3.338	3.2	20.4
4 21	13 12.66	+ 3 26.2	2.372	3.340	5.5	20.5
5 1	13 6.44	+ 4 12.8	2.424	3.341	8.4	20.7
5 11	13 1.48	+ 4 44.1	2.500	3.342	11.1	20.9
5 21	12 58.11	+ 4 59.5	2.597	3.343	13.3	21.1

417463 2006 QD_{59} 4 11.2 207°.63 2°.1/13.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.75	−16 43.1	2.148	2.988	12.0	22.2
3 22	13 37.24	−16 25.3	2.062	2.982	8.9	21.9
4 1	13 28.94	−15 52.9	2.001	2.974	5.4	21.7
4 11	13 19.62	−15 8.1	1.969	2.966	2.3	21.5
4 21	13 10.18	−14 15.1	1.965	2.957	3.8	21.6
5 1	13 1.56	−13 19.5	1.991	2.947	7.5	21.8
5 11	12 54.54	−12 27.5	2.042	2.937	11.0	22.0
5 21	12 49.63	−11 44.0	2.116	2.926	14.0	22.2

462232 2008 AN_{34} 4 11.2 72°.65 2°.3/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.47	− 4 59.6	1.458	2.345	13.9	22.0
3 22	13 37.20	− 4 12.1	1.414	2.363	9.5	21.7
4 1	13 28.88	− 3 18.2	1.395	2.382	4.9	21.5
4 11	13 19.62	− 2 25.1	1.402	2.401	2.5	21.4
4 21	13 10.59	− 1 39.9	1.435	2.419	6.2	21.7
5 1	13 2.92	− 1 8.4	1.494	2.438	10.6	22.0
5 11	12 57.42	− 0 54.0	1.575	2.456	14.4	22.2
5 21	12 54.44	− 0 57.4	1.675	2.475	17.5	22.5

440729 2006 AA_{71} 4 11.2 207°.28 7°.1/20.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.95	−35 12.9	2.767	3.497	12.5	21.7
3 22	13 35.20	−35 43.5	2.680	3.496	10.7	21.5
4 1	13 27.87	−35 54.1	2.615	3.495	9.0	21.4
4 11	13 19.61	−35 43.7	2.574	3.494	7.6	21.3
4 21	13 11.22	−35 13.1	2.559	3.493	7.1	21.3
5 1	13 3.54	−34 25.7	2.571	3.493	7.8	21.3
5 11	12 57.27	−33 26.9	2.608	3.492	9.3	21.4
5 21	12 52.88	−32 22.8	2.669	3.491	11.1	21.5

462073 2007 ER_{217} 4 11.2 307°.36 3°.6/ 7.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 36.95	− 4 33.8	1.559	2.453	12.7	20.5
3 22	13 32.93	− 2 47.4	1.479	2.432	8.8	20.2
4 1	13 26.86	− 0 48.5	1.424	2.411	4.9	19.9
4 11	13 19.59	+ 1 13.0	1.396	2.390	4.0	19.8
4 21	13 12.13	+ 3 5.9	1.395	2.370	7.7	19.9
5 1	13 5.58	+ 4 40.0	1.420	2.350	12.1	20.1
5 11	13 0.85	+ 5 48.5	1.466	2.330	16.2	20.3
5 21	12 58.50	+ 6 29.0	1.529	2.311	19.7	20.5

471497 2011 WM_{124} 4 11.2 224°.41 3°.3/ 6.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 39.13	+ 3 1.8	2.896	3.773	8.1	22.7
3 22	13 33.60	+ 3 45.3	2.822	3.762	5.8	22.5
4 1	13 26.92	+ 4 27.9	2.775	3.751	3.8	22.3
4 11	13 19.60	+ 5 5.6	2.758	3.740	3.6	22.3
4 21	13 12.25	+ 5 34.9	2.770	3.728	5.4	22.4
5 1	13 5.45	+ 5 52.8	2.811	3.716	7.9	22.6
5 11	12 59.74	+ 5 57.8	2.876	3.703	10.2	22.7
5 21	12 55.46	+ 5 49.7	2.963	3.690	12.2	22.8

328342 2008 KZ_{2} 4 11.2 264°.56 4°.2/ 7.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.88	+ 0 30.0	1.922	2.808	11.1	21.4
3 22	13 35.37	+ 1 41.9	1.841	2.787	7.9	21.1
4 1	13 28.04	+ 2 57.1	1.785	2.766	4.9	20.9
4 11	13 19.62	+ 4 8.5	1.758	2.745	4.5	20.8
4 21	13 11.03	+ 5 8.9	1.758	2.723	7.4	20.9
5 1	13 3.23	+ 5 52.5	1.785	2.701	11.0	21.1
5 11	12 57.02	+ 6 15.9	1.834	2.678	14.4	21.3
5 21	12 52.95	+ 6 18.3	1.902	2.655	17.3	21.4

428046 2006 DA_{128} 4 11.2 310°.55 7°.3/ 3.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 37.92	+ 7 12.1	1.638	2.534	12.1	20.3
3 22	13 33.48	+ 8 57.4	1.574	2.518	9.2	20.1
4 1	13 27.09	+10 39.8	1.535	2.501	7.4	20.0
4 11	13 19.60	+12 8.8	1.522	2.485	8.1	20.0
4 21	13 12.01	+13 15.8	1.534	2.470	10.8	20.1
5 1	13 5.35	+13 54.8	1.569	2.454	14.1	20.2
5 11	13 0.47	+14 4.4	1.623	2.440	17.2	20.4
5 21	12 57.89	+13 46.3	1.694	2.425	19.9	20.6

382928 2004 TA_{59} 4 11.2 243°.37 0°.4/10.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.99	− 9 35.3	2.173	3.039	10.9	21.7
3 22	13 35.29	− 8 55.0	2.085	3.024	7.6	21.4
4 1	13 27.94	− 8 4.6	2.023	3.008	3.9	21.2
4 11	13 19.62	− 7 8.5	1.990	2.992	0.4	20.9
4 21	13 11.16	− 6 11.6	1.985	2.975	4.2	21.1
5 1	13 3.42	− 5 19.7	2.009	2.957	8.0	21.3
5 11	12 57.14	− 4 37.6	2.059	2.939	11.5	21.5
5 21	12 52.80	− 4 8.5	2.129	2.921	14.5	21.7

366540 2002 QQ_{91} 4 11.2 259°.97 5°.7/ 5.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.75	+ 3 54.2	1.772	2.661	11.8	21.7
3 22	13 36.09	+ 5 19.5	1.697	2.642	8.6	21.4
4 1	13 28.45	+ 6 45.4	1.648	2.622	6.1	21.3
4 11	13 19.64	+ 8 3.1	1.625	2.602	6.2	21.2
4 21	13 10.66	+ 9 4.5	1.630	2.582	9.0	21.3
5 1	13 2.56	+ 9 43.7	1.660	2.561	12.5	21.5
5 11	12 56.21	+ 9 58.1	1.711	2.539	15.9	21.7
5 21	12 52.17	+ 9 48.4	1.779	2.518	18.8	21.8

409139 2003 UO_{63} 4 11.2 167°.72 4°.0/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.32	+ 1 38.1	2.044	2.923	10.9	21.9
3 22	13 37.48	+ 2 32.9	1.986	2.928	7.7	21.7
4 1	13 28.99	+ 3 27.4	1.954	2.933	4.8	21.5
4 11	13 19.66	+ 4 15.7	1.951	2.937	4.3	21.5
4 21	13 10.41	+ 4 52.4	1.977	2.940	6.8	21.6
5 1	13 2.11	+ 5 13.7	2.029	2.943	10.0	21.8
5 11	12 55.47	+ 5 17.8	2.106	2.945	13.0	22.0
5 21	12 50.89	+ 5 5.0	2.203	2.945	15.5	22.2

21066 1991 NG_{5} 4 11.2 297°.22 3°.5/13.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.15	−17 54.1	1.464	2.322	15.6	18.4
3 22	13 37.00	−17 53.2	1.370	2.296	11.9	18.1
4 1	13 29.21	−17 31.5	1.297	2.270	7.6	17.8
4 11	13 19.67	−16 50.0	1.249	2.245	3.8	17.5
4 21	13 9.64	−15 53.2	1.226	2.219	5.4	17.5
5 1	13 0.53	−14 48.9	1.228	2.193	10.1	17.7
5 11	12 53.61	−13 46.8	1.253	2.168	14.9	17.9
5 21	12 49.64	−12 55.2	1.297	2.142	19.2	18.1

499147 2009 RL_{45} 4 11.2 209°.52 0°.1/11.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.17	−10 51.2	2.411	3.269	10.2	23.5
3 22	13 35.25	−10 4.9	2.327	3.261	7.2	23.3
4 1	13 27.86	− 9 8.5	2.269	3.253	3.7	23.1
4 11	13 19.65	− 8 6.0	2.241	3.244	0.1	22.7
4 21	13 11.37	− 7 2.3	2.244	3.234	3.7	23.1
5 1	13 3.79	− 6 2.7	2.275	3.223	7.3	23.3
5 11	12 57.56	− 5 11.9	2.333	3.211	10.5	23.4
5 21	12 53.10	− 4 33.2	2.413	3.199	13.2	23.6

48270 2002 CS_{82} 4 11.2 316°.04 0°.5/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.75	− 8 42.7	1.594	2.475	13.3	19.4
3 22	13 35.58	− 8 21.2	1.516	2.461	9.4	19.1
4 1	13 28.26	− 7 49.1	1.461	2.447	4.8	18.8
4 11	13 19.66	− 7 11.0	1.432	2.434	0.5	18.4
4 21	13 10.86	− 6 32.7	1.430	2.421	5.1	18.7
5 1	13 3.04	− 6 0.5	1.453	2.409	9.8	19.0
5 11	12 57.14	− 5 39.8	1.500	2.397	14.0	19.2
5 21	12 53.74	− 5 33.7	1.565	2.386	17.6	19.4

416334 2003 ST_{205} 4 11.2 244°.24 0°.2/11.4 14 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 44.14	−11 3.1	1.893	2.756	12.4	22.2
3 22	13 37.76	−10 33.3	1.802	2.738	8.8	22.0
4 1	13 29.35	− 9 51.3	1.736	2.719	4.7	21.7
4 11	13 19.68	− 9 0.7	1.698	2.700	0.3	21.3
4 21	13 9.77	− 8 6.9	1.688	2.680	4.4	21.6
5 1	13 0.67	− 7 16.4	1.707	2.659	8.9	21.8
5 11	12 53.32	− 6 35.0	1.750	2.637	12.9	22.0
5 21	12 48.28	− 6 6.8	1.814	2.614	16.4	22.2

465916 2010 VR_{194} 4 11.2 103°.34 1°.3/10.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.47	− 7 28.8	1.740	2.617	12.6	21.6
3 22	13 36.34	− 6 39.0	1.688	2.632	8.6	21.4
4 1	13 28.43	− 5 40.9	1.660	2.647	4.3	21.2
4 11	13 19.66	− 4 40.4	1.661	2.662	1.4	21.0
4 21	13 11.04	− 3 44.0	1.689	2.676	5.1	21.3
5 1	13 3.53	− 2 57.8	1.745	2.690	9.2	21.6
5 11	12 57.88	− 2 26.1	1.824	2.704	12.8	21.8
5 21	12 54.47	− 2 10.5	1.923	2.717	15.8	22.1

292370 2006 SK_{250} 4 11.2 101°.11 0°.2/11.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 37.52	−12 9.1	2.220	3.084	10.8	20.3
3 22	13 32.75	−11 15.7	2.149	3.086	7.6	20.1
4 1	13 26.55	−10 10.9	2.104	3.087	4.0	19.8
4 11	13 19.62	− 8 59.3	2.087	3.089	0.2	19.5
4 21	13 12.70	− 7 46.4	2.099	3.091	3.7	19.8
5 1	13 6.54	− 6 38.3	2.139	3.092	7.3	20.0
5 11	13 1.76	− 5 40.0	2.205	3.094	10.5	20.2
5 21	12 58.75	− 4 54.9	2.294	3.096	13.3	20.4

306372 4285 T_{-2} 4 11.2 192°.15 1°.3/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.77	−13 17.3	2.801	3.641	9.5	20.9
3 22	13 36.91	−13 28.7	2.718	3.640	6.9	20.7
4 1	13 28.67	−13 32.2	2.662	3.638	4.0	20.5
4 11	13 19.67	−13 28.9	2.636	3.635	1.4	20.3
4 21	13 10.59	−13 21.0	2.641	3.632	3.1	20.4
5 1	13 2.14	−13 11.2	2.676	3.629	6.0	20.6
5 11	12 54.92	−13 2.8	2.739	3.625	8.8	20.8
5 21	12 49.35	−12 58.3	2.826	3.621	11.2	20.9

468090 2013 TC_{122} 4 11.2 210°.43 1°.0/10.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.31	− 6 47.3	2.369	3.235	10.1	22.1
3 22	13 36.05	− 6 16.6	2.289	3.228	7.0	21.9
4 1	13 28.28	− 5 39.6	2.235	3.220	3.6	21.6
4 11	13 19.67	− 5 0.1	2.211	3.212	1.0	21.4
4 21	13 10.98	− 4 22.5	2.217	3.203	4.2	21.6
5 1	13 3.01	− 3 50.8	2.251	3.193	7.6	21.8
5 11	12 56.42	− 3 28.6	2.312	3.183	10.8	22.0
5 21	12 51.65	− 3 17.9	2.394	3.172	13.5	22.2

497234 2005 ES_{42} 4 11.2 10°.02 1°.6/12.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.91	−13 20.6	1.186	2.070	16.7	20.6
3 22	13 36.07	−13 8.5	1.127	2.071	12.0	20.4
4 1	13 28.60	−12 37.9	1.089	2.073	6.7	20.1
4 11	13 19.68	−11 53.5	1.074	2.075	1.7	19.8
4 21	13 10.72	−11 2.6	1.084	2.079	5.3	20.0
5 1	13 3.19	−10 14.2	1.117	2.084	10.7	20.3
5 11	12 58.17	− 9 36.5	1.171	2.089	15.5	20.6
5 21	12 56.17	− 9 14.4	1.243	2.095	19.5	20.9

344111 1999 UB_{28} 4 11.2 233°.13 0°.4/10.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.55	−10 19.4	2.252	3.117	10.6	21.8
3 22	13 34.22	− 9 22.1	2.167	3.105	7.4	21.6
4 1	13 27.37	− 8 13.8	2.108	3.093	3.8	21.3
4 11	13 19.66	− 6 59.3	2.078	3.080	0.4	21.0
4 21	13 11.85	− 5 44.3	2.078	3.067	4.0	21.3
5 1	13 4.76	− 4 34.9	2.107	3.054	7.8	21.5
5 11	12 59.05	− 3 36.3	2.161	3.040	11.1	21.7
5 21	12 55.17	− 2 52.0	2.237	3.025	14.0	21.9

484845 2009 HA_{73} 4 11.2 264°.44 2°.4/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.73	−12 17.4	1.143	2.033	16.7	20.8
3 22	13 35.37	− 9 32.1	1.071	2.023	11.6	20.5
4 1	13 28.30	− 6 14.3	1.023	2.012	5.7	20.1
4 11	13 19.68	− 2 40.0	1.002	2.001	2.8	19.9
4 21	13 10.92	+ 0 49.4	1.007	1.990	8.4	20.2
5 1	13 3.54	+ 3 52.9	1.038	1.979	14.4	20.5
5 11	12 58.66	+ 6 16.6	1.090	1.968	19.6	20.7
5 21	12 56.86	+ 7 56.4	1.158	1.957	23.8	21.0

87554 2000 QM_{231} 4 11.2 190°.52 1°.6/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.30	−15 27.6	2.029	2.880	12.2	19.9
3 22	13 35.55	−14 59.5	1.952	2.879	8.9	19.6
4 1	13 28.08	−14 16.8	1.901	2.878	5.1	19.4
4 11	13 19.67	−13 22.9	1.877	2.876	1.8	19.2
4 21	13 11.22	−12 22.9	1.881	2.874	3.8	19.3
5 1	13 3.64	−11 22.8	1.914	2.872	7.6	19.5
5 11	12 57.68	−10 28.8	1.972	2.870	11.2	19.8
5 21	12 53.79	− 9 45.5	2.052	2.867	14.2	20.0

72204 2000 YV_{133} 4 11.2 228°.37 2°.6/ 8.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 44.00	− 3 10.1	2.057	2.931	11.0	20.2
3 22	13 37.45	− 2 19.1	1.974	2.917	7.7	19.9
4 1	13 29.10	− 1 22.9	1.917	2.902	4.2	19.7
4 11	13 19.70	− 0 26.9	1.890	2.886	2.7	19.6
4 21	13 10.15	+ 0 22.9	1.891	2.869	5.8	19.7
5 1	13 1.40	+ 1 1.3	1.921	2.851	9.5	19.9
5 11	12 54.24	+ 1 24.7	1.975	2.832	13.0	20.1
5 21	12 49.19	+ 1 31.4	2.050	2.812	15.9	20.3

137247 1999 RG_{66} 4 11.2 231°.48 1°.5/10.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.86	− 7 56.4	1.379	2.264	14.7	20.0
3 22	13 37.93	− 7 4.1	1.310	2.258	10.3	19.7
4 1	13 29.53	− 5 58.9	1.264	2.251	5.2	19.4
4 11	13 19.71	− 4 48.0	1.244	2.245	1.6	19.1
4 21	13 9.78	− 3 40.1	1.250	2.238	6.2	19.4
5 1	13 1.07	− 2 44.1	1.280	2.231	11.4	19.7
5 11	12 54.66	− 2 6.3	1.333	2.223	16.0	19.9
5 21	12 51.11	− 1 49.5	1.404	2.215	19.8	20.2

221327 2005 VY_{109} 4 11.2 0°.84 2°.9/ 9.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.50	− 2 23.4	1.456	2.347	13.6	19.9
3 22	13 36.77	− 1 58.4	1.396	2.346	9.5	19.6
4 1	13 28.84	− 1 29.9	1.359	2.346	5.1	19.3
4 11	13 19.70	− 1 4.2	1.348	2.346	3.1	19.2
4 21	13 10.56	− 0 46.9	1.363	2.346	6.7	19.4
5 1	13 2.62	− 0 42.9	1.403	2.347	11.1	19.7
5 11	12 56.81	− 0 54.9	1.464	2.349	15.1	19.9
5 21	12 53.61	− 1 23.1	1.544	2.351	18.5	20.2

506991 2008 SY_{234} 4 11.2 180°.74 0°.8/10.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.35	− 7 23.5	2.369	3.236	10.1	22.5
3 22	13 35.33	− 6 51.5	2.297	3.237	7.0	22.3
4 1	13 27.89	− 6 13.1	2.252	3.237	3.5	22.1
4 11	13 19.68	− 5 32.0	2.236	3.237	0.9	21.8
4 21	13 11.47	− 4 52.5	2.250	3.237	4.0	22.1
5 1	13 4.01	− 4 18.9	2.292	3.236	7.4	22.3
5 11	12 57.92	− 3 54.5	2.360	3.234	10.5	22.5
5 21	12 53.61	− 3 41.5	2.450	3.233	13.1	22.7

59648 1999 JA_{90} 4 11.2 245°.86 3°.2/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 38.81	− 3 29.7	1.801	2.688	11.6	18.3
3 22	13 33.91	− 1 59.3	1.735	2.684	8.0	18.1
4 1	13 27.26	− 0 22.0	1.694	2.680	4.5	17.9
4 11	13 19.67	+ 1 14.2	1.682	2.675	3.6	17.8
4 21	13 12.07	+ 2 40.9	1.697	2.671	6.7	18.0
5 1	13 5.37	+ 3 50.9	1.739	2.666	10.5	18.2
5 11	13 0.34	+ 4 39.8	1.804	2.662	14.0	18.4
5 21	12 57.41	+ 5 6.3	1.888	2.657	16.9	18.6

245455 2005 LC_{23} 4 11.2 253°.04 1°.8/13.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.53	−16 7.7	2.494	3.337	10.5	21.6
3 22	13 34.17	−15 50.3	2.401	3.322	7.7	21.4
4 1	13 27.35	−15 20.7	2.334	3.308	4.6	21.1
4 11	13 19.68	−14 41.0	2.295	3.293	1.9	20.9
4 21	13 11.88	−13 54.7	2.285	3.278	3.3	21.0
5 1	13 4.70	−13 6.4	2.304	3.262	6.5	21.2
5 11	12 58.80	−12 20.9	2.350	3.246	9.7	21.3
5 21	12 54.62	−11 42.3	2.418	3.230	12.4	21.5

216447 2009 FC_{45} 4 11.2 351°.40 0°.6/11.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 38.71	−12 12.6	1.177	2.066	16.3	19.6
3 22	13 34.58	−11 37.9	1.113	2.061	11.6	19.3
4 1	13 27.87	−10 44.3	1.070	2.056	6.2	19.0
4 11	13 19.69	− 9 38.0	1.051	2.052	0.7	18.6
4 21	13 11.41	− 8 28.0	1.055	2.050	5.6	18.9
5 1	13 4.45	− 7 24.6	1.083	2.048	11.1	19.2
5 11	12 59.92	− 6 36.3	1.131	2.047	16.1	19.5
5 21	12 58.35	− 6 8.1	1.198	2.048	20.2	19.8

32205 2000 OS_{5} 4 11.2 182°.03 6°.1/19.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.97	−34 18.9	3.138	3.865	11.2	19.4
3 22	13 35.75	−34 37.9	3.048	3.865	9.5	19.3
4 1	13 28.13	−34 39.0	2.981	3.866	7.9	19.2
4 11	13 19.71	−34 21.4	2.940	3.865	6.5	19.1
4 21	13 11.20	−33 46.4	2.926	3.864	6.1	19.0
5 1	13 3.33	−32 57.1	2.939	3.863	6.8	19.1
5 11	12 56.72	−31 58.4	2.980	3.861	8.3	19.2
5 21	12 51.80	−30 55.6	3.044	3.859	10.0	19.3

315402 2007 VZ_{153} 4 11.2 155°.11 0°.2/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.99	− 9 27.2	1.775	2.643	12.8	21.2
3 22	13 38.22	− 9 3.1	1.710	2.649	9.0	21.0
4 1	13 29.49	− 8 29.0	1.670	2.655	4.6	20.7
4 11	13 19.74	− 7 49.3	1.658	2.660	0.2	20.4
4 21	13 10.01	− 7 9.3	1.674	2.665	4.6	20.7
5 1	13 1.36	− 6 34.6	1.718	2.669	8.9	21.0
5 11	12 54.62	− 6 10.1	1.786	2.673	12.7	21.2
5 21	12 50.25	− 5 58.3	1.874	2.676	15.9	21.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
162479 2000 OH_{31}			4 11.2 253°.84	1°.2/12.2 17		
	h m	° ′			°	m
3 12	13 43.11	−14 21.6	1.705	2.564	13.7	20.2
3 22	13 37.26	−13 43.8	1.613	2.546	9.9	19.9
4 1	13 29.18	−12 48.3	1.546	2.526	5.6	19.6
4 11	13 19.74	−11 38.9	1.505	2.507	1.3	19.3
4 21	13 10.01	−10 22.1	1.493	2.486	4.6	19.4
5 1	13 1.18	− 9 6.2	1.507	2.465	9.3	19.7
5 11	12 54.27	− 7 59.3	1.546	2.443	13.7	19.9
5 21	12 49.87	− 7 7.4	1.605	2.420	17.5	20.1
22249 Dvorets Pionerov			4 11.2 248°.49	0°.6/10.7 17		
3 12	13 43.12	− 9 50.2	1.800	2.669	12.6	19.3
3 22	13 37.13	− 9 0.1	1.710	2.651	8.9	19.0
4 1	13 29.06	− 7 56.9	1.646	2.631	4.6	18.7
4 11	13 19.74	− 6 45.7	1.609	2.611	0.6	18.3
4 21	13 10.17	− 5 33.4	1.601	2.590	5.0	18.6
5 1	13 1.45	− 4 27.5	1.620	2.568	9.5	18.8
5 11	12 54.52	− 3 34.5	1.663	2.546	13.7	19.0
5 21	12 49.95	− 2 58.5	1.726	2.523	17.2	19.2
65086 2002 BY_{20}			4 11.2 69°.35	8°.0/ 5.9 18		
3 12	13 49.07	+13 21.8	1.728	2.599	13.0	18.3
3 22	13 40.94	+13 45.6	1.681	2.605	10.2	18.2
4 1	13 30.82	+13 56.0	1.659	2.612	8.3	18.1
4 11	13 19.77	+13 46.6	1.663	2.619	8.3	18.1
4 21	13 8.96	+13 14.6	1.694	2.626	10.2	18.2
5 1	12 59.47	+12 19.9	1.750	2.633	13.0	18.4
5 11	12 52.11	+11 5.4	1.828	2.640	15.7	18.6
5 21	12 47.27	+ 9 35.4	1.925	2.647	18.1	18.8
356832 2011 UA_{408}			4 11.2 81°.58	4°.0/15.5 17		
3 12	13 40.50	−22 31.6	2.398	3.213	11.8	20.8
3 22	13 34.88	−22 41.9	2.320	3.215	9.2	20.7
4 1	13 27.72	−22 36.5	2.266	3.218	6.4	20.5
4 11	13 19.71	−22 16.3	2.239	3.221	4.3	20.4
4 21	13 11.64	−21 43.8	2.240	3.223	4.5	20.4
5 1	13 4.32	−21 3.2	2.270	3.226	6.7	20.5
5 11	12 58.42	−20 20.0	2.325	3.229	9.4	20.7
5 21	12 54.38	−19 39.2	2.404	3.232	12.0	20.9
135349 2001 TX_{64}			4 11.2 146°.49	1°.2/ 9.9 18		
3 12	13 39.92	− 5 39.3	2.612	3.482	9.2	20.5
3 22	13 34.21	− 5 8.5	2.548	3.489	6.3	20.3
4 1	13 27.27	− 4 33.3	2.511	3.497	3.2	20.1
4 11	13 19.71	− 3 57.2	2.503	3.503	1.2	20.0
4 21	13 12.19	− 3 24.1	2.525	3.510	3.9	20.2
5 1	13 5.35	− 2 57.3	2.576	3.516	6.9	20.4
5 11	12 59.75	− 2 39.5	2.653	3.522	9.7	20.6
5 21	12 55.72	− 2 32.3	2.753	3.527	12.0	20.8
380678 2005 GO_{76}			4 11.2 110°.89	1°.0/10.4 17		
3 12	13 45.36	− 5 17.6	2.324	3.189	10.3	21.0
3 22	13 38.03	− 5 15.1	2.267	3.206	7.1	20.8
4 1	13 29.24	− 5 8.8	2.238	3.222	3.6	20.6
4 11	13 19.76	− 5 1.6	2.238	3.239	1.0	20.5
4 21	13 10.38	− 4 56.4	2.268	3.254	4.0	20.7
5 1	13 1.90	− 4 56.1	2.327	3.270	7.4	20.9
5 11	12 54.95	− 5 2.8	2.413	3.285	10.4	21.2
5 21	12 49.90	− 5 17.9	2.521	3.299	12.9	21.4
115109 2003 SK_{32}			4 11.2 182°.54	4°.2/14.7 18		
3 12	13 46.87	−21 1.2	2.005	2.826	13.5	20.4
3 22	13 39.60	−21 17.5	1.926	2.828	10.4	20.2
4 1	13 30.28	−21 16.4	1.870	2.828	7.1	20.0
4 11	13 19.78	−20 58.3	1.841	2.828	4.5	19.9
4 21	13 9.15	−20 26.0	1.841	2.827	5.0	19.9
5 1	12 59.49	−19 44.6	1.869	2.825	8.0	20.1
5 11	12 51.67	−19 0.7	1.923	2.822	11.3	20.3
5 21	12 46.24	−18 20.6	1.999	2.819	14.4	20.5
413719 2006 BF_{26}			4 11.2 59°.34	4°.5/ 6.9 18		
3 12	13 39.82	+ 0 2.3	1.600	2.494	12.5	20.4
3 22	13 34.55	+ 1 29.7	1.563	2.513	8.7	20.3
4 1	13 27.53	+ 2 57.8	1.551	2.533	5.3	20.1
4 11	13 19.72	+ 4 17.6	1.565	2.553	4.9	20.1
4 21	13 12.13	+ 5 21.4	1.607	2.573	7.8	20.3
5 1	13 5.71	+ 6 4.3	1.673	2.593	11.3	20.6
5 11	13 1.15	+ 6 24.3	1.761	2.614	14.5	20.8
5 21	12 58.78	+ 6 22.4	1.868	2.634	17.2	21.1
456825 2007 TW_{420}			4 11.2 165°.00	6°.4/ 5.4 18		
3 12	13 45.22	+ 8 4.5	1.878	2.757	11.7	21.2
3 22	13 38.22	+ 9 10.8	1.828	2.763	8.8	21.0
4 1	13 29.44	+10 10.7	1.803	2.768	6.7	20.9
4 11	13 19.77	+10 56.8	1.806	2.772	6.8	20.9
4 21	13 10.21	+11 23.8	1.836	2.775	9.1	21.0
5 1	13 1.73	+11 28.7	1.892	2.778	12.0	21.2
5 11	12 55.08	+11 11.7	1.969	2.780	14.8	21.4
5 21	12 50.66	+10 35.0	2.065	2.782	17.2	21.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
67891 2000 WR_{61}			4 11.2 137°.86	2°.2/13.3 18		
	h m	° ′			°	m
3 12	13 44.43	−17 15.1	1.919	2.762	13.1	19.6
3 22	13 37.72	−16 49.0	1.855	2.775	9.7	19.4
4 1	13 29.20	−16 6.4	1.815	2.788	5.8	19.2
4 11	13 19.77	−15 10.7	1.803	2.801	2.5	19.0
4 21	13 10.42	−14 7.4	1.820	2.812	4.0	19.1
5 1	13 2.14	−13 3.1	1.865	2.823	7.8	19.4
5 11	12 55.68	−12 4.5	1.935	2.833	11.3	19.6
5 21	12 51.48	−11 16.5	2.028	2.842	14.4	19.8
212189 2005 GY_{97}			4 11.2 216°.93	0°.8/10.3 17		
3 12	13 39.30	− 7 41.7	2.598	3.465	9.3	21.4
3 22	13 33.88	− 7 0.7	2.517	3.457	6.4	21.2
4 1	13 27.16	− 6 13.0	2.463	3.449	3.3	21.0
4 11	13 19.72	− 5 22.4	2.439	3.440	0.9	20.8
4 21	13 12.23	− 4 33.0	2.444	3.431	3.8	21.0
5 1	13 5.36	− 3 49.2	2.478	3.421	7.0	21.2
5 11	12 59.68	− 3 14.6	2.539	3.411	9.9	21.3
5 21	12 55.60	− 2 51.4	2.621	3.400	12.4	21.5
392580 2011 SE_{146}			4 11.2 202°.91	0°.4/11.7 17		
3 12	13 37.64	−12 25.0	2.584	3.441	9.7	21.5
3 22	13 32.73	−11 41.3	2.506	3.438	6.8	21.3
4 1	13 26.55	−10 47.6	2.454	3.436	3.7	21.1
4 11	13 19.71	− 9 47.5	2.431	3.433	0.4	20.8
4 21	13 12.84	− 8 45.4	2.438	3.430	3.2	21.0
5 1	13 6.61	− 7 46.2	2.474	3.426	6.5	21.2
5 11	13 1.58	− 6 54.2	2.536	3.423	9.4	21.4
5 21	12 58.12	− 6 12.7	2.621	3.419	11.9	21.6
425073 2009 RV_{59}			4 11.2 159°.08	4°.0/15.4 16		
3 12	13 44.67	−22 57.1	2.457	3.262	11.8	22.0
3 22	13 37.73	−23 5.1	2.380	3.270	9.2	21.9
4 1	13 29.18	−22 57.1	2.328	3.278	6.5	21.7
4 11	13 19.77	−22 33.7	2.304	3.285	4.3	21.6
4 21	13 10.33	−21 57.6	2.309	3.291	4.5	21.6
5 1	13 1.71	−21 13.2	2.343	3.296	6.8	21.7
5 11	12 54.60	−20 26.1	2.404	3.301	9.5	21.9
5 21	12 49.44	−19 41.4	2.489	3.305	12.0	22.1
435374 2007 VR_{329}			4 11.2 79°.32	6°.9/ 4.7 15		
3 12	13 43.17	+13 1.2	2.183	3.055	10.6	21.5
3 22	13 36.50	+13 44.8	2.149	3.072	8.4	21.4
4 1	13 28.43	+14 17.8	2.141	3.090	7.0	21.3
4 11	13 19.75	+14 35.1	2.160	3.107	7.2	21.4
4 21	13 11.30	+14 33.6	2.205	3.125	8.9	21.5
5 1	13 3.84	+14 12.4	2.276	3.142	11.1	21.7
5 11	12 57.97	+13 32.8	2.370	3.159	13.2	21.8
5 21	12 54.00	+12 37.3	2.482	3.177	15.1	22.0
345562 2006 RO_{71}			4 11.2 101°.32	2°.4/13.6 17		
3 12	13 42.94	−16 57.3	2.477	3.311	10.8	21.4
3 22	13 36.39	−17 5.8	2.414	3.328	8.0	21.3
4 1	13 28.43	−17 2.8	2.376	3.345	5.0	21.1
4 11	13 19.76	−16 49.6	2.367	3.361	2.5	21.0
4 21	13 11.13	−16 29.0	2.388	3.378	3.5	21.1
5 1	13 3.30	−16 4.8	2.437	3.394	6.3	21.3
5 11	12 56.90	−15 41.1	2.513	3.409	9.1	21.5
5 21	12 52.30	−15 21.4	2.613	3.425	11.6	21.7
371120 2005 VN_{126}			4 11.2 218°.10	0°.4/11.5 17		
3 12	13 45.46	− 9 47.7	1.859	2.724	12.5	21.3
3 22	13 38.63	− 9 49.2	1.783	2.720	8.9	21.0
4 1	13 29.78	− 9 41.9	1.732	2.716	4.7	20.8
4 11	13 19.80	− 9 28.5	1.709	2.711	0.4	20.4
4 21	13 9.69	− 9 12.7	1.715	2.707	4.3	20.7
5 1	13 0.54	− 8 58.9	1.748	2.702	8.6	21.0
5 11	12 53.22	− 8 51.4	1.806	2.697	12.4	21.2
5 21	12 48.25	− 8 53.2	1.885	2.691	15.6	21.4
426928 2013 XB_{9}			4 11.2 171°.94	0°.1/11.4 18		
3 12	13 44.48	− 9 24.8	2.516	3.371	10.0	21.8
3 22	13 37.47	− 9 19.1	2.442	3.374	7.0	21.6
4 1	13 29.02	− 9 6.7	2.395	3.378	3.7	21.4
4 11	13 19.79	− 8 49.9	2.378	3.380	0.2	21.1
4 21	13 10.54	− 8 31.9	2.392	3.382	3.4	21.4
5 1	13 2.03	− 8 16.0	2.435	3.384	6.8	21.6
5 11	12 54.92	− 8 5.3	2.505	3.384	9.8	21.8
5 21	12 49.59	− 8 2.1	2.599	3.385	12.3	22.0
212778 2007 TW_{141}			4 11.2 16°.51	1°.9/ 9.9 17		
3 12	13 40.83	− 6 44.2	1.190	2.087	15.6	20.5
3 22	13 35.92	− 6 1.2	1.137	2.090	10.8	20.3
4 1	13 28.51	− 5 7.4	1.105	2.094	5.5	20.0
4 11	13 19.77	− 4 10.8	1.097	2.098	2.0	19.7
4 21	13 11.08	− 3 19.9	1.114	2.103	6.6	20.0
5 1	13 3.82	− 2 42.9	1.154	2.110	11.8	20.3
5 11	12 58.98	− 2 24.8	1.215	2.116	16.3	20.6
5 21	12 57.03	− 2 27.3	1.293	2.124	20.1	20.9

260098 2004 ME_5 4 11.2 35°.73 2°.1/13.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 39.39	−16 41.1	1.404	2.272	15.6	20.0
3 22	13 34.67	−15 59.5	1.346	2.281	11.4	19.7
4 1	13 27.77	−14 56.7	1.311	2.290	6.6	19.5
4 11	13 19.75	−13 38.3	1.301	2.300	2.3	19.2
4 21	13 11.83	−12 12.7	1.316	2.311	4.7	19.4
5 1	13 5.16	−10 49.6	1.357	2.322	9.3	19.7
5 11	13 0.64	− 9 38.0	1.420	2.334	13.6	20.0
5 21	12 58.70	− 8 43.5	1.504	2.345	17.2	20.2

246890 1997 EF_{15} 4 11.2 189°.99 4°.9/16.2 18

3 12	13 45.01	−25 41.1	2.730	3.515	11.3	21.2
3 22	13 38.00	−26 20.2	2.643	3.514	9.1	21.1
4 1	13 29.38	−26 44.4	2.581	3.513	6.9	20.9
4 11	13 19.80	−26 53.0	2.547	3.511	5.2	20.8
4 21	13 10.06	−26 46.9	2.542	3.510	5.2	20.8
5 1	13 0.96	−26 28.9	2.565	3.508	6.8	20.9
5 11	12 53.24	−26 3.6	2.616	3.506	9.1	21.0
5 21	12 47.37	−25 35.7	2.691	3.503	11.3	21.2

500681 2012 VS_{73} 4 11.2 121°.96 4°.8/ 5.8 17

3 12	13 40.68	+ 7 26.6	2.522	3.399	9.2	21.5
3 22	13 34.72	+ 8 12.3	2.475	3.410	6.8	21.3
4 1	13 27.53	+ 8 53.1	2.455	3.421	5.1	21.2
4 11	13 19.76	+ 9 24.2	2.464	3.432	5.1	21.3
4 21	13 12.09	+ 9 42.3	2.501	3.442	6.9	21.4
5 1	13 5.20	+ 9 45.1	2.564	3.453	9.2	21.5
5 11	12 59.61	+ 9 32.3	2.652	3.462	11.4	21.7
5 21	12 55.65	+ 9 5.0	2.759	3.472	13.3	21.9

315268 2007 TR_{64} 4 11.2 105°.66 1°.1/10.4 18

3 12	13 43.81	− 8 15.0	1.618	2.494	13.4	21.6
3 22	13 37.41	− 7 28.3	1.566	2.510	9.2	21.4
4 1	13 29.07	− 6 31.8	1.539	2.526	4.7	21.2
4 11	13 19.79	− 5 31.8	1.539	2.541	1.1	20.9
4 21	13 10.68	− 4 35.2	1.567	2.556	5.2	21.2
5 1	13 2.78	− 3 48.6	1.621	2.570	9.5	21.5
5 11	12 56.90	− 3 16.4	1.699	2.584	13.4	21.8
5 21	12 53.43	− 3 0.9	1.797	2.597	16.5	22.0

37034 2000 UC_9 4 11.2 82°.17 2°.1/13.7 18

3 12	13 37.99	−18 0.7	2.345	3.185	11.1	18.5
3 22	13 33.06	−17 28.2	2.275	3.193	8.2	18.3
4 1	13 26.75	−16 41.4	2.230	3.202	5.0	18.1
4 11	13 19.74	−15 43.4	2.214	3.210	2.3	17.9
4 21	13 12.76	−14 38.8	2.226	3.218	3.4	18.0
5 1	13 6.55	−13 32.9	2.266	3.226	6.5	18.2
5 11	13 1.70	−12 31.5	2.333	3.235	9.5	18.4
5 21	12 58.58	−11 38.9	2.423	3.243	12.1	18.6

389276 2009 HC_{23} 4 11.2 38°.35 1°.3/ 9.7 17

3 12	13 36.34	− 9 22.9	1.844	2.724	11.8	20.4
3 22	13 32.08	− 7 50.6	1.790	2.736	8.1	20.2
4 1	13 26.27	− 6 7.3	1.762	2.749	4.0	20.0
4 11	13 19.73	− 4 20.8	1.762	2.762	1.4	19.8
4 21	13 13.29	− 2 39.4	1.790	2.776	5.0	20.1
5 1	13 7.79	− 1 10.8	1.846	2.790	8.9	20.4
5 11	13 3.85	− 0 0.4	1.926	2.805	12.3	20.6
5 21	13 1.83	+ 0 49.4	2.027	2.820	15.1	20.8

170165 2003 FN_{44} 4 11.2 278°.09 3°.5/13.4 16

3 12	13 45.84	−16 40.9	1.454	2.311	15.8	20.4
3 22	13 39.62	−16 59.0	1.367	2.293	11.9	20.1
4 1	13 30.63	−16 59.3	1.301	2.275	7.5	19.8
4 11	13 19.84	−16 42.6	1.261	2.257	3.7	19.5
4 21	13 8.58	−16 12.0	1.246	2.239	5.5	19.6
5 1	12 58.36	−15 34.0	1.257	2.220	10.2	19.8
5 11	12 50.46	−14 57.1	1.291	2.201	14.9	20.0
5 21	12 45.62	−14 28.2	1.344	2.183	19.0	20.2

246970 1999 TX_{138} 4 11.2 166°.30 0°.4/11.6 18

3 12	13 43.97	−11 32.6	2.036	2.895	11.8	21.5
3 22	13 37.36	−11 2.2	1.967	2.900	8.4	21.3
4 1	13 29.04	−10 20.9	1.923	2.905	4.4	21.0
4 11	13 19.81	− 9 32.4	1.908	2.910	0.4	20.7
4 21	13 10.59	− 8 41.8	1.921	2.913	4.0	21.0
5 1	13 2.30	− 7 54.8	1.964	2.916	7.9	21.2
5 11	12 55.69	− 7 16.2	2.031	2.918	11.4	21.5
5 21	12 51.18	− 6 49.4	2.121	2.919	14.4	21.7

385094 2012 VS_{26} 4 11.2 345°.14 0°.2/11.4 17

3 12	13 40.14	−10 26.5	1.969	2.838	11.7	21.1
3 22	13 34.78	−10 3.6	1.898	2.837	8.2	20.8
4 1	13 27.74	− 9 30.7	1.852	2.836	4.3	20.6
4 11	13 19.78	− 8 51.6	1.833	2.835	0.2	20.2
4 21	13 11.78	− 8 11.2	1.842	2.834	4.0	20.6
5 1	13 4.63	− 7 34.6	1.878	2.833	8.0	20.8
5 11	12 59.08	− 7 6.4	1.939	2.832	11.5	21.0
5 21	12 55.57	− 6 49.7	2.021	2.832	14.6	21.2

208968 2002 XR_{76} 4 11.2 109°.66 0°.1/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 40.79	− 9 29.8	2.374	3.237	10.2	20.3
3 22	13 34.91	− 9 5.9	2.315	3.252	7.1	20.1
4 1	13 27.67	− 8 34.6	2.281	3.265	3.7	19.9
4 11	13 19.78	− 7 59.3	2.277	3.279	0.1	19.6
4 21	13 11.96	− 7 24.0	2.302	3.293	3.5	19.9
5 1	13 4.93	− 6 52.7	2.356	3.306	6.9	20.2
5 11	12 59.29	− 6 28.9	2.435	3.319	9.9	20.4
5 21	12 55.37	− 6 14.8	2.537	3.331	12.4	20.6

407690 2011 UK_{86} 4 11.2 45°.39 1°.9/12.8 18

3 12	13 41.06	−16 10.8	1.342	2.212	16.1	20.8
3 22	13 35.97	−15 28.7	1.280	2.216	11.7	20.6
4 1	13 28.52	−14 24.7	1.241	2.221	6.7	20.3
4 11	13 19.80	−13 4.3	1.225	2.226	2.1	20.0
4 21	13 11.10	−11 36.3	1.236	2.231	4.9	20.2
5 1	13 3.73	−10 11.1	1.272	2.236	9.9	20.5
5 11	12 58.65	− 8 58.4	1.330	2.242	14.4	20.8
5 21	12 56.34	− 8 3.9	1.407	2.248	18.3	21.0

505173 2012 TK_{31} 4 11.2 233°.75 1°.8/13.4 17

3 12	13 39.64	−17 39.5	2.410	3.248	11.0	21.9
3 22	13 34.30	−16 58.4	2.317	3.235	8.1	21.6
4 1	13 27.46	−16 2.1	2.250	3.222	4.9	21.4
4 11	13 19.78	−14 53.6	2.211	3.209	2.1	21.2
4 21	13 11.99	−13 37.5	2.202	3.195	3.4	21.3
5 1	13 4.88	−12 19.7	2.222	3.180	6.7	21.5
5 11	12 59.11	−11 6.4	2.269	3.165	10.0	21.6
5 21	12 55.12	−10 2.5	2.339	3.150	12.8	21.8

258892 2002 QZ_{68} 4 11.2 218°.48 0°.3/10.9 17

3 12	13 43.51	− 9 26.7	2.033	2.898	11.6	22.5
3 22	13 37.16	− 8 54.8	1.951	2.889	8.1	22.2
4 1	13 29.01	− 8 13.1	1.895	2.879	4.2	22.0
4 11	13 19.82	− 7 25.8	1.867	2.869	0.3	21.6
4 21	13 10.50	− 6 37.7	1.868	2.858	4.3	21.9
5 1	13 2.02	− 5 54.6	1.898	2.846	8.4	22.1
5 11	12 55.16	− 5 21.1	1.952	2.834	12.0	22.3
5 21	12 50.42	− 5 0.4	2.028	2.821	15.1	22.5

72424 2001 CC_{39} 4 11.2 111°.41 2°.9/ 9.1 18

3 12	13 45.63	− 2 30.4	1.603	2.485	13.1	19.2
3 22	13 38.72	− 1 55.9	1.551	2.497	9.1	18.9
4 1	13 29.78	− 1 18.2	1.523	2.509	4.9	18.7
4 11	13 19.84	− 0 43.3	1.523	2.520	3.0	18.6
4 21	13 10.05	− 0 16.9	1.550	2.531	6.4	18.9
5 1	13 1.51	− 0 3.6	1.603	2.541	10.5	19.1
5 11	12 55.04	− 0 5.8	1.680	2.552	14.1	19.4
5 21	12 51.06	− 0 23.8	1.775	2.562	17.2	19.6

249824 2001 GU_6 4 11.2 290°.73 6°.7/ 7.7 17

3 12	13 51.85	+ 8 31.3	1.526	2.403	14.0	19.0
3 22	13 43.39	+ 8 37.2	1.458	2.394	10.5	18.8
4 1	13 32.37	+ 8 32.7	1.414	2.384	7.5	18.6
4 11	13 19.92	+ 8 11.5	1.397	2.375	6.9	18.5
4 21	13 7.40	+ 7 30.1	1.407	2.366	9.5	18.6
5 1	12 56.21	+ 6 27.7	1.443	2.357	13.2	18.8
5 11	12 47.42	+ 5 6.5	1.502	2.348	16.9	19.0
5 21	12 41.59	+ 3 30.4	1.579	2.339	20.0	19.2

130105 1999 XW_{42} 4 11.2 148°.47 0°.5/11.7 18

3 12	13 43.61	−12 12.4	1.996	2.854	12.0	20.9
3 22	13 37.10	−11 36.5	1.931	2.865	8.5	20.7
4 1	13 28.90	−10 48.7	1.892	2.874	4.5	20.5
4 11	13 19.83	− 9 53.3	1.881	2.883	0.6	20.2
4 21	13 10.83	− 8 55.9	1.900	2.891	3.9	20.5
5 1	13 2.80	− 8 2.2	1.946	2.899	7.9	20.7
5 11	12 56.47	− 7 17.6	2.018	2.906	11.4	20.9
5 21	12 52.25	− 6 45.4	2.112	2.912	14.4	21.2

35051 1981 ED_{47} 4 11.2 72°.76 1°.1/12.1 18

3 12	13 45.18	−12 59.9	1.336	2.209	15.9	19.7
3 22	13 38.68	−12 38.6	1.289	2.228	11.3	19.5
4 1	13 29.83	−12 1.1	1.264	2.247	6.2	19.2
4 11	13 19.86	−11 12.5	1.265	2.266	1.3	19.0
4 21	13 10.12	−10 20.1	1.292	2.286	4.9	19.3
5 1	13 1.89	− 9 31.8	1.344	2.305	9.9	19.6
5 11	12 56.07	− 8 54.5	1.418	2.324	14.2	19.9
5 21	12 53.08	− 8 32.0	1.512	2.343	17.7	20.2

349336 2007 VT_{56} 4 11.2 69°.34 4°.8/ 6.7 17

3 12	13 41.16	+ 5 2.7	2.057	2.941	10.6	20.4
3 22	13 35.30	+ 5 46.9	2.008	2.950	7.7	20.2
4 1	13 27.93	+ 6 27.4	1.984	2.958	5.3	20.1
4 11	13 19.82	+ 6 58.5	1.988	2.966	5.1	20.1
4 21	13 11.82	+ 7 16.0	2.019	2.975	7.3	20.2
5 1	13 4.74	+ 7 17.1	2.077	2.984	10.1	20.4
5 11	12 59.22	+ 7 1.2	2.157	2.992	12.8	20.6
5 21	12 55.62	+ 6 29.5	2.257	3.001	15.2	20.8

68456 2001 SJ_{57} 4 11.2 182°.66 2°.4/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 38.00	− 3 8.3	2.403	3.283	9.4	19.7
3 22	13 33.03	− 2 4.6	2.337	3.283	6.5	19.5
4 1	13 26.75	− 0 56.8	2.298	3.283	3.5	19.3
4 11	13 19.79	+ 0 9.6	2.288	3.283	2.6	19.3
4 21	13 12.85	+ 1 9.6	2.307	3.282	5.1	19.4
5 1	13 6.59	+ 1 58.5	2.354	3.282	8.1	19.6
5 11	13 1.60	+ 2 33.3	2.426	3.281	11.0	19.8
5 21	12 58.24	+ 2 52.7	2.519	3.280	13.3	20.0

253822 2003 YT_{57} 4 11.2 192°.31 5°.6/ 5.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.33	+ 7 43.2	2.255	3.130	10.2	20.5
3 22	13 37.48	+ 8 48.4	2.195	3.128	7.7	20.3
4 1	13 29.07	+ 9 48.9	2.161	3.125	5.8	20.2
4 11	13 19.85	+10 38.4	2.156	3.121	6.0	20.2
4 21	13 10.65	+11 12.1	2.179	3.116	8.0	20.3
5 1	13 2.29	+11 26.8	2.230	3.110	10.7	20.5
5 11	12 55.45	+11 21.8	2.303	3.104	13.2	20.6
5 21	12 50.54	+10 58.5	2.395	3.096	15.4	20.8

97860 2000 QR_{26} 4 11.2 266°.80 3°.8/14.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.36	−19 6.3	1.592	2.438	15.2	19.6
3 22	13 38.41	−19 7.8	1.501	2.419	11.6	19.3
4 1	13 29.94	−18 49.0	1.432	2.401	7.6	19.0
4 11	13 19.88	−18 10.7	1.388	2.382	4.1	18.8
4 21	13 9.42	−17 16.9	1.371	2.362	5.3	18.8
5 1	12 59.92	−16 14.8	1.380	2.343	9.5	19.0
5 11	12 52.54	−15 13.5	1.413	2.323	13.9	19.2
5 21	12 47.98	−14 20.8	1.466	2.302	17.8	19.4

213266 2001 KE_{32} 4 11.3 247°.71 20°.3/23.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 52.51	+35 58.6	1.211	2.028	20.8	20.0
3 22	13 44.39	+37 58.0	1.190	2.023	20.3	19.9
4 1	13 32.96	+39 13.9	1.185	2.017	20.6	19.9
4 11	13 19.94	+39 33.9	1.196	2.011	21.7	20.0
4 21	13 7.34	+38 54.7	1.223	2.005	23.3	20.0
5 1	12 56.97	+37 20.3	1.264	1.999	25.0	20.2
5 11	12 49.95	+35 1.2	1.316	1.992	26.8	20.3
5 21	12 46.62	+32 9.2	1.378	1.986	28.3	20.4

247208 2001 PN_{28} 4 11.3 277°.05 3°.8/14.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.79	−21 27.0	2.215	3.038	12.3	20.9
3 22	13 35.37	−21 24.7	2.114	3.017	9.6	20.7
4 1	13 28.15	−21 5.3	2.037	2.995	6.5	20.4
4 11	13 19.84	−20 29.6	1.986	2.973	4.1	20.2
4 21	13 11.27	−19 40.6	1.964	2.951	4.5	20.2
5 1	13 3.37	−18 43.3	1.970	2.929	7.4	20.3
5 11	12 56.96	−17 44.3	2.001	2.906	10.7	20.5
5 21	12 52.58	−16 49.5	2.055	2.884	13.7	20.7

507348 2011 UK_{329} 4 11.3 179°.33 5°.9/20.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.78	−34 56.2	3.018	3.746	11.6	22.7
3 22	13 34.24	−34 42.7	2.927	3.747	9.8	22.5
4 1	13 27.38	−34 8.9	2.858	3.748	8.0	22.4
4 11	13 19.82	−33 15.1	2.815	3.748	6.5	22.3
4 21	13 12.26	−32 3.6	2.800	3.748	5.9	22.3
5 1	13 5.41	−30 38.6	2.813	3.747	6.6	22.3
5 11	12 59.84	−29 6.1	2.853	3.747	8.3	22.4
5 21	12 55.94	−27 32.4	2.919	3.745	10.1	22.5

329792 2004 PP_{59} 4 11.3 245°.54 4°.6/ 6.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.46	+ 1 4.1	1.863	2.752	11.2	20.6
3 22	13 34.37	+ 2 33.2	1.798	2.745	7.9	20.4
4 1	13 27.57	+ 4 4.7	1.759	2.738	5.2	20.2
4 11	13 19.82	+ 5 30.4	1.747	2.731	5.0	20.2
4 21	13 12.04	+ 6 42.4	1.763	2.723	7.8	20.4
5 1	13 5.13	+ 7 35.1	1.805	2.715	11.2	20.5
5 11	12 59.84	+ 8 5.3	1.869	2.708	14.4	20.7
5 21	12 56.63	+ 8 13.1	1.952	2.699	17.1	20.9

279225 2009 UL_{101} 4 11.3 228°.16 0°.8/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.46	− 8 22.0	2.104	2.973	11.1	21.9
3 22	13 35.69	− 7 38.5	2.023	2.963	7.7	21.6
4 1	13 28.24	− 6 45.9	1.967	2.953	3.9	21.4
4 11	13 19.84	− 5 48.8	1.940	2.942	0.9	21.1
4 21	13 11.34	− 4 52.6	1.942	2.930	4.4	21.4
5 1	13 3.61	− 4 2.9	1.972	2.918	8.3	21.6
5 11	12 57.39	− 3 24.4	2.027	2.905	11.8	21.8
5 21	12 53.15	− 2 59.9	2.103	2.892	14.8	21.9

332168 2005 YH_{239} 4 11.3 232°.64 3°.4/ 8.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.03	− 0 45.0	1.927	2.810	11.2	21.0
3 22	13 36.14	+ 0 4.3	1.856	2.803	7.9	20.7
4 1	13 28.48	+ 0 56.0	1.812	2.795	4.5	20.5
4 11	13 19.85	+ 1 44.3	1.795	2.787	3.6	20.4
4 21	13 11.16	+ 2 23.3	1.806	2.779	6.4	20.6
5 1	13 3.34	+ 2 48.4	1.844	2.771	10.0	20.8
5 11	12 57.18	+ 2 56.9	1.905	2.762	13.4	21.0
5 21	12 53.12	+ 2 48.1	1.986	2.754	16.2	21.2

122523 2000 QV_{207} 4 11.3 116°.77 0°.4/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 43.11	−11 35.9	2.266	3.121	10.9	21.0
3 22	13 36.53	−11 7.7	2.211	3.143	7.7	20.9
4 1	13 28.53	−10 30.1	2.181	3.163	4.1	20.7
4 11	13 19.86	− 9 46.6	2.181	3.183	0.5	20.4
4 21	13 11.31	− 9 1.8	2.211	3.202	3.5	20.7
5 1	13 3.68	− 8 20.3	2.269	3.221	7.0	20.9
5 11	12 57.56	− 7 46.2	2.354	3.239	10.1	21.2
5 21	12 53.31	− 7 22.2	2.461	3.256	12.7	21.4

214965 2007 YN_{58} 4 11.3 150°.05 4°.8/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 38.76	+ 6 45.4	2.529	3.409	9.0	20.3
3 22	13 33.46	+ 7 50.4	2.478	3.415	6.7	20.1
4 1	13 26.94	+ 8 51.5	2.453	3.420	5.0	20.0
4 11	13 19.82	+ 9 43.3	2.458	3.425	5.2	20.1
4 21	13 12.75	+10 21.7	2.490	3.429	7.0	20.2
5 1	13 6.38	+10 43.7	2.549	3.433	9.4	20.3
5 11	13 1.26	+10 48.6	2.631	3.437	11.6	20.5
5 21	12 57.71	+10 36.9	2.733	3.441	13.5	20.6

222664 2001 XV_{233} 4 11.3 179°.51 3°.1/ 8.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.94	− 0 18.6	2.235	3.111	10.2	21.4
3 22	13 36.52	+ 0 25.0	2.170	3.113	7.1	21.2
4 1	13 28.59	+ 1 10.0	2.132	3.114	4.1	21.0
4 11	13 19.86	+ 1 51.2	2.123	3.114	3.3	20.9
4 21	13 11.15	+ 2 24.1	2.143	3.114	5.7	21.1
5 1	13 3.27	+ 2 44.9	2.191	3.113	8.9	21.3
5 11	12 56.87	+ 2 51.5	2.263	3.112	11.9	21.5
5 21	12 52.35	+ 2 43.4	2.357	3.110	14.4	21.6

260694 2005 JM_{105} 4 11.3 324°.82 0°.8/10.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.52	− 7 25.2	1.283	2.173	15.2	20.0
3 22	13 37.29	− 7 15.5	1.209	2.159	10.7	19.7
4 1	13 29.41	− 6 55.7	1.157	2.144	5.6	19.3
4 11	13 19.89	− 6 30.8	1.129	2.131	0.9	18.9
4 21	13 10.08	− 6 7.0	1.126	2.118	6.0	19.3
5 1	13 1.45	− 5 51.0	1.147	2.106	11.4	19.5
5 11	12 55.19	− 5 48.0	1.189	2.095	16.3	19.8
5 21	12 51.96	− 6 1.1	1.249	2.084	20.4	20.0

483332 2016 PW_{77} 4 11.3 271°.06 5°.7/16.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.42	−26 39.7	2.376	3.166	12.6	21.0
3 22	13 37.20	−27 15.7	2.280	3.152	10.3	20.8
4 1	13 29.12	−27 34.5	2.207	3.138	7.9	20.7
4 11	13 19.88	−27 34.9	2.160	3.124	6.1	20.5
4 21	13 10.36	−27 17.8	2.141	3.109	6.0	20.5
5 1	13 1.51	−26 46.7	2.149	3.095	7.7	20.6
5 11	12 54.17	−26 7.2	2.184	3.081	10.3	20.7
5 21	12 48.90	−25 25.1	2.241	3.066	12.8	20.8

505797 2015 BQ_{331} 4 11.3 255°.43 0°.8/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.18	−12 12.6	1.841	2.705	12.6	21.8
3 22	13 36.40	−11 55.4	1.763	2.698	9.0	21.6
4 1	13 28.69	−11 25.9	1.709	2.691	4.9	21.3
4 11	13 19.87	−10 47.4	1.682	2.683	0.9	21.0
4 21	13 10.93	−10 4.9	1.683	2.676	4.2	21.2
5 1	13 2.88	− 9 24.2	1.711	2.668	8.4	21.5
5 11	12 56.59	− 8 50.8	1.763	2.661	12.3	21.7
5 21	12 52.57	− 8 28.7	1.837	2.653	15.6	21.9

263845 2009 BM_{10} 4 11.3 69°.38 15°.9/25.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.37	+17 10.2	0.955	1.858	17.9	19.4
3 22	13 35.87	+21 30.6	0.945	1.870	16.0	19.3
4 1	13 28.54	+25 18.0	0.957	1.881	16.3	19.4
4 11	13 19.87	+28 10.2	0.991	1.893	18.3	19.5
4 21	13 11.52	+29 57.6	1.043	1.905	21.1	19.7
5 1	13 5.00	+30 40.9	1.111	1.917	23.9	20.0
5 11	13 1.30	+30 29.4	1.190	1.929	26.3	20.2
5 21	13 0.72	+29 34.6	1.278	1.941	28.1	20.4

491456 2012 GQ 4 11.3 149°.23 9°.5/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.26	+ 5 0.6	1.181	2.083	15.3	20.9
3 22	13 37.58	+ 8 33.9	1.143	2.090	11.5	20.7
4 1	13 29.38	+12 4.3	1.131	2.097	9.5	20.6
4 11	13 19.89	+15 10.7	1.146	2.103	10.9	20.7
4 21	13 10.57	+17 37.0	1.185	2.109	14.4	20.9
5 1	13 2.78	+19 15.1	1.247	2.113	18.2	21.1
5 11	12 57.49	+20 5.7	1.325	2.117	21.5	21.4
5 21	12 55.14	+20 15.0	1.416	2.121	24.2	21.6

441509 2008 SO_{136} 4 11.3 125°.98 1°.8/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 36.85	−17 39.0	3.504	4.332	8.1	21.8
3 22	13 31.95	−17 29.8	3.430	4.341	6.0	21.6
4 1	13 26.13	−17 11.6	3.383	4.350	3.8	21.5
4 11	13 19.82	−16 46.0	3.365	4.358	1.9	21.4
4 21	13 13.51	−16 15.3	3.376	4.367	2.6	21.4
5 1	13 7.70	−15 42.3	3.418	4.375	4.7	21.6
5 11	13 2.80	−15 10.1	3.487	4.383	6.8	21.7
5 21	12 59.10	−14 41.4	3.581	4.391	8.8	21.9

200839 2001 XO_{247} 4 11.3 106°.52 2°.2/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 45.49	− 4 58.7	1.492	2.375	13.9	20.1
3 22	13 38.73	− 4 16.2	1.442	2.389	9.6	19.9
4 1	13 29.84	− 3 27.1	1.417	2.403	4.9	19.7
4 11	13 19.91	− 2 38.2	1.417	2.417	2.3	19.5
4 21	13 10.16	− 1 56.3	1.445	2.430	6.2	19.8
5 1	13 1.74	− 1 27.3	1.499	2.442	10.6	20.1
5 11	12 55.51	− 1 14.7	1.575	2.455	14.5	20.4
5 21	12 51.89	− 1 19.3	1.670	2.467	17.7	20.6

200722 2001 VM_{8} 4 11.3 154°.61 0°.9/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.46	− 8 4.2	1.785	2.655	12.7	21.1
3 22	13 38.55	− 7 24.5	1.723	2.664	8.8	20.9
4 1	13 29.72	− 6 35.6	1.686	2.672	4.5	20.7
4 11	13 19.91	− 5 43.0	1.677	2.679	1.0	20.4
4 21	13 10.17	− 4 52.6	1.697	2.685	4.9	20.7
5 1	13 1.53	− 4 10.3	1.745	2.691	9.1	21.0
5 11	12 54.79	− 3 40.8	1.816	2.696	12.9	21.2
5 21	12 50.39	− 3 26.2	1.909	2.700	16.0	21.4

303212 2004 JN_{10} 4 11.3 281°.37 6°.4/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.65	+11 36.2	2.403	3.276	9.7	20.5
3 22	13 35.74	+12 31.2	2.322	3.248	7.7	20.3
4 1	13 28.27	+13 19.8	2.268	3.220	6.4	20.2
4 11	13 19.89	+13 55.8	2.241	3.191	6.8	20.2
4 21	13 11.35	+14 14.6	2.241	3.162	8.7	20.2
5 1	13 3.46	+14 13.5	2.267	3.133	11.1	20.3
5 11	12 56.90	+13 52.0	2.316	3.103	13.6	20.5
5 21	12 52.15	+13 11.4	2.383	3.073	15.7	20.6

374424 2005 WA_{111} 4 11.3 160°.61 2°.1/ 9.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.25	− 4 1.0	2.146	3.021	10.6	21.9
3 22	13 36.08	− 3 17.7	2.083	3.027	7.3	21.7
4 1	13 28.38	− 2 30.1	2.047	3.032	3.8	21.5
4 11	13 19.89	− 1 43.0	2.039	3.036	2.2	21.4
4 21	13 11.43	− 1 1.5	2.060	3.041	5.0	21.6
5 1	13 3.84	− 0 29.9	2.109	3.044	8.5	21.8
5 11	12 57.76	− 0 11.2	2.183	3.047	11.6	22.0
5 21	12 53.61	− 0 6.6	2.278	3.050	14.3	22.2

329809 2004 RP_{75} 4 11.3 236°.85 1°.3/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.23	− 6 36.7	2.204	3.075	10.5	21.8
3 22	13 35.50	− 5 51.2	2.119	3.062	7.3	21.6
4 1	13 28.15	− 4 58.1	2.062	3.047	3.7	21.3
4 11	13 19.88	− 4 2.2	2.033	3.033	1.4	21.1
4 21	13 11.49	− 3 8.7	2.033	3.018	4.6	21.3
5 1	13 3.81	− 2 22.9	2.061	3.002	8.3	21.5
5 11	12 57.57	− 1 48.9	2.114	2.986	11.7	21.7
5 21	12 53.21	− 1 29.0	2.189	2.969	14.5	21.9

117306 2004 VF_{21} 4 11.3 231°.85 2°.2/ 9.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.62	− 4 44.2	1.767	2.645	12.4	20.5
3 22	13 38.18	− 3 57.1	1.688	2.633	8.6	20.2
4 1	13 29.66	− 3 2.6	1.634	2.620	4.5	20.0
4 11	13 19.93	− 2 6.9	1.607	2.606	2.4	19.8
4 21	13 10.02	− 1 16.3	1.609	2.591	6.0	20.0
5 1	13 1.05	− 0 37.2	1.638	2.576	10.2	20.2
5 11	12 53.93	− 0 13.9	1.690	2.560	14.1	20.4
5 21	12 49.21	− 0 8.2	1.762	2.544	17.5	20.6

159314 2006 BQ_{152} 4 11.3 219°.89 1°.8/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.39	− 5 4.6	2.039	2.916	11.0	21.1
3 22	13 35.64	− 4 25.2	1.967	2.911	7.6	20.8
4 1	13 28.22	− 3 40.1	1.920	2.906	3.9	20.6
4 11	13 19.89	− 2 54.0	1.902	2.901	1.9	20.4
4 21	13 11.51	− 2 12.3	1.912	2.896	5.0	20.6
5 1	13 3.96	− 1 39.6	1.950	2.890	8.7	20.8
5 11	12 57.97	− 1 19.7	2.012	2.884	12.1	21.0
5 21	12 53.97	− 1 14.2	2.094	2.878	15.0	21.2

233658 2008 QG_{28} 4 11.3 139°.89 4°.6/ 6.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.83	+ 4 0.8	2.194	3.077	10.1	20.1
3 22	13 35.02	+ 5 6.7	2.144	3.086	7.3	19.9
4 1	13 27.80	+ 6 10.3	2.120	3.094	5.0	19.8
4 11	13 19.88	+ 7 5.6	2.125	3.102	4.9	19.8
4 21	13 12.05	+ 7 47.5	2.157	3.110	7.1	20.0
5 1	13 5.07	+ 8 12.5	2.216	3.117	9.9	20.1
5 11	12 59.54	+ 8 19.4	2.299	3.124	12.5	20.3
5 21	12 55.84	+ 8 8.9	2.401	3.131	14.7	20.5

205649 2001 XN_{99} 4 11.3 70°.55 5°.2/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.40	+ 1 43.0	1.285	2.179	14.9	20.0
3 22	13 39.44	+ 2 34.3	1.250	2.200	10.5	19.8
4 1	13 30.20	+ 3 23.6	1.238	2.220	6.4	19.6
4 11	13 19.95	+ 4 2.3	1.251	2.241	5.5	19.6
4 21	13 10.06	+ 4 23.9	1.290	2.261	8.7	19.8
5 1	13 1.78	+ 4 24.6	1.352	2.282	12.7	20.1
5 11	12 55.95	+ 4 4.0	1.436	2.302	16.4	20.4
5 21	12 52.93	+ 3 24.5	1.536	2.322	19.5	20.6

427263 2014 WL_{159} 4 11.3 231°.60 3°.6/ 8.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 42.44	− 1 57.1	1.662	2.549	12.5	21.2
3 22	13 36.66	− 0 52.4	1.594	2.542	8.7	20.9
4 1	13 28.85	+ 0 17.2	1.551	2.535	4.9	20.7
4 11	13 19.92	+ 1 24.2	1.535	2.528	3.8	20.6
4 21	13 10.92	+ 2 21.1	1.546	2.520	7.1	20.8
5 1	13 2.93	+ 3 1.5	1.582	2.512	11.1	21.0
5 11	12 56.83	+ 3 21.8	1.641	2.504	14.9	21.2
5 21	12 53.11	+ 3 21.4	1.719	2.496	18.0	21.4

324346 2006 QQ_{16} 4 11.3 232°.05 2°.3/13.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.79	−15 38.7	1.813	2.663	13.4	21.8
3 22	13 38.36	−15 35.2	1.729	2.654	9.9	21.6
4 1	13 29.79	−15 16.7	1.669	2.644	5.9	21.3
4 11	13 19.95	−14 45.0	1.636	2.634	2.5	21.0
4 21	13 9.90	−14 4.4	1.630	2.623	4.3	21.1
5 1	13 0.78	−13 20.8	1.653	2.612	8.5	21.4
5 11	12 53.53	−12 40.8	1.700	2.600	12.5	21.6
5 21	12 48.73	−12 9.5	1.768	2.588	15.9	21.8

80099 1999 NR 4 11.3 334°.74 14°.4/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 38.68	+13 6.3	0.962	1.873	17.0	18.9
3 22	13 34.86	+17 27.8	0.933	1.870	14.7	18.7
4 1	13 28.16	+21 31.3	0.928	1.868	14.7	18.7
4 11	13 19.90	+24 50.9	0.945	1.867	17.1	18.8
4 21	13 11.69	+27 10.3	0.983	1.865	20.5	19.0
5 1	13 5.12	+28 25.2	1.036	1.864	23.9	19.2
5 11	13 1.30	+28 41.2	1.102	1.863	26.8	19.5
5 21	13 0.69	+28 8.8	1.176	1.862	29.1	19.7

270143 2001 SQ_{21} 4 11.3 178°.36 1°.0/10.1 13 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.39	− 7 42.2	2.552	3.415	9.6	22.8
3 22	13 35.34	− 6 49.6	2.479	3.418	6.6	22.6
4 1	13 27.96	− 5 50.1	2.435	3.420	3.3	22.4
4 11	13 19.90	− 4 47.8	2.420	3.421	1.0	22.2
4 21	13 11.85	− 3 47.7	2.436	3.421	3.9	22.5
5 1	13 4.50	− 2 54.3	2.481	3.420	7.2	22.7
5 11	12 58.43	− 2 11.5	2.553	3.419	10.1	22.9
5 21	12 54.02	− 1 41.3	2.647	3.416	12.5	23.0

181678 2667 P–L 4 11.3 170°.51 0°.3/11.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.67	−11 27.5	1.987	2.846	12.1	21.8
3 22	13 37.93	−10 57.7	1.917	2.850	8.5	21.6
4 1	13 29.41	−10 16.7	1.872	2.854	4.5	21.3
4 11	13 19.94	− 9 28.4	1.855	2.857	0.4	21.0
4 21	13 10.47	− 8 37.9	1.868	2.860	4.1	21.3
5 1	13 1.95	− 7 51.1	1.909	2.861	8.1	21.6
5 11	12 55.15	− 7 12.9	1.976	2.862	11.7	21.8
5 21	12 50.53	− 6 46.7	2.064	2.862	14.7	22.0

504686 2009 FH_{57} 4 11.3 88°.10 2°.3/ 8.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 37.26	− 5 35.7	2.192	3.072	10.2	21.3
3 22	13 32.58	− 3 59.4	2.134	3.081	6.9	21.1
4 1	13 26.55	− 2 16.3	2.104	3.090	3.6	20.9
4 11	13 19.87	− 0 33.6	2.103	3.099	2.5	20.8
4 21	13 13.25	+ 1 1.7	2.132	3.108	5.3	21.0
5 1	13 7.42	+ 2 23.4	2.189	3.117	8.6	21.3
5 11	13 2.95	+ 3 27.3	2.271	3.126	11.6	21.5
5 21	13 0.19	+ 4 11.8	2.374	3.135	14.0	21.7

52292 Kamdzhalov 4 11.3 162°.83 1°.2/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.28	−13 35.1	2.634	3.480	9.9	20.4
3 22	13 35.28	−13 28.0	2.559	3.484	7.1	20.2
4 1	13 27.95	−13 11.7	2.511	3.488	4.0	20.0
4 11	13 19.92	−12 48.3	2.491	3.491	1.3	19.8
4 21	13 11.86	−12 20.7	2.502	3.494	3.1	19.9
5 1	13 4.48	−11 52.7	2.542	3.497	6.2	20.1
5 11	12 58.36	−11 27.9	2.608	3.499	9.0	20.3
5 21	12 53.88	−11 9.3	2.698	3.501	11.5	20.5

88913 2001 TG_{9} 4 11.3 177°.78 1°.5/12.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.45	−14 6.2	1.700	2.558	13.8	19.3
3 22	13 38.77	−13 48.6	1.629	2.560	10.0	19.0
4 1	13 29.96	−13 15.8	1.582	2.561	5.7	18.8
4 11	13 19.97	−12 31.5	1.561	2.562	1.7	18.5
4 21	13 9.92	−11 40.8	1.569	2.562	4.4	18.7
5 1	13 0.97	−10 50.7	1.603	2.561	8.8	19.0
5 11	12 54.02	−10 7.7	1.662	2.560	12.9	19.2
5 21	12 49.60	− 9 36.5	1.742	2.559	16.3	19.4

310464 2000 SF 4 11.3 167°.55 8°.2/18.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 51.59	−34 14.8	2.311	3.043	14.6	20.0
3 22	13 43.03	−35 6.2	2.229	3.050	12.4	19.8
4 1	13 32.20	−35 34.4	2.170	3.056	10.3	19.7
4 11	13 20.03	−35 36.6	2.135	3.061	8.6	19.6
4 21	13 7.65	−35 13.2	2.128	3.065	8.2	19.5
5 1	12 56.26	−34 28.1	2.149	3.067	9.2	19.6
5 11	12 46.84	−33 28.7	2.195	3.069	11.2	19.7
5 21	12 39.99	−32 23.3	2.264	3.070	13.3	19.9

151751 2003 DT_{18} 4 11.3 122.°04 1.°7/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 43.02	− 5 46.9	2.021	2.894	11.3	21.0
3 22	13 36.61	− 4 59.2	1.968	2.911	7.7	20.8
4 1	13 28.65	− 4 5.6	1.941	2.927	3.9	20.6
4 11	13 19.94	− 3 11.5	1.943	2.943	1.7	20.5
4 21	13 11.36	− 2 22.4	1.974	2.958	4.9	20.7
5 1	13 3.77	− 1 43.2	2.033	2.973	8.5	21.0
5 11	12 57.81	− 1 17.1	2.117	2.987	11.7	21.2
5 21	12 53.87	− 1 5.6	2.222	3.000	14.4	21.4

272717 2005 YQ_{42} 4 11.3 23.°86 1.°0/12.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.61	−13 11.8	1.714	2.581	13.3	21.2
3 22	13 35.34	−12 43.4	1.646	2.582	9.5	21.0
4 1	13 28.15	−12 0.9	1.602	2.584	5.2	20.7
4 11	13 19.92	−11 8.3	1.584	2.586	1.1	20.4
4 21	13 11.67	−10 11.6	1.594	2.588	4.2	20.7
5 1	13 4.44	− 9 17.7	1.630	2.590	8.6	20.9
5 11	12 59.03	− 8 32.7	1.690	2.592	12.5	21.2
5 21	12 55.91	− 8 0.9	1.771	2.595	15.8	21.4

430670 2003 UR_{269} 4 11.3 244.°73 0.°6/10.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.41	− 7 46.0	2.334	3.198	10.3	21.4
3 22	13 36.30	− 7 24.7	2.244	3.183	7.2	21.2
4 1	13 28.59	− 6 56.6	2.182	3.166	3.7	20.9
4 11	13 19.94	− 6 24.9	2.148	3.149	0.6	20.7
4 21	13 11.13	− 5 53.5	2.143	3.132	4.0	20.9
5 1	13 2.99	− 5 26.7	2.168	3.114	7.6	21.1
5 11	12 56.22	− 5 8.1	2.218	3.096	10.9	21.3
5 21	12 51.30	− 5 0.0	2.291	3.077	13.8	21.4

419972 2011 CO 4 11.3 38.°67 6.°7/15.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.82	−23 47.6	1.567	2.391	16.5	20.0
3 22	13 40.05	−24 46.3	1.502	2.399	13.2	19.8
4 1	13 30.76	−25 23.2	1.460	2.407	9.7	19.6
4 11	13 20.00	−25 36.4	1.441	2.416	7.1	19.4
4 21	13 9.11	−25 27.5	1.449	2.426	7.2	19.5
5 1	12 59.49	−25 1.8	1.481	2.436	9.8	19.6
5 11	12 52.21	−24 27.6	1.537	2.446	13.1	19.8
5 21	12 47.85	−23 52.7	1.614	2.456	16.2	20.1

373423 1999 CR_{128} 4 11.3 25.°92 0.°6/11.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 51.81	− 4 32.0	1.015	1.908	18.0	18.0
3 22	13 43.22	− 5 30.6	0.999	1.949	12.4	17.8
4 1	13 32.06	− 6 22.3	1.005	1.992	6.3	17.6
4 11	13 20.02	− 7 8.9	1.034	2.036	0.6	17.3
4 21	13 8.83	− 7 52.4	1.089	2.082	5.9	17.8
5 1	12 59.91	− 8 35.5	1.168	2.129	11.0	18.3
5 11	12 54.06	− 9 21.0	1.268	2.177	15.3	18.6
5 21	12 51.46	−10 10.3	1.387	2.225	18.6	19.0

407668 2011 SE_{189} 4 11.3 163.°90 1.°8/ 9.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.69	− 7 21.7	1.623	2.503	13.2	21.7
3 22	13 36.79	− 6 10.9	1.561	2.507	9.1	21.5
4 1	13 28.90	− 4 49.4	1.523	2.510	4.6	21.2
4 11	13 19.95	− 3 24.9	1.513	2.513	2.0	21.0
4 21	13 11.04	− 2 5.6	1.531	2.516	5.8	21.3
5 1	13 3.25	− 0 59.5	1.575	2.518	10.2	21.5
5 11	12 57.41	− 0 11.8	1.642	2.519	14.1	21.8
5 21	12 53.97	+ 0 15.4	1.729	2.520	17.4	22.0

17835 Anoelsuri 4 11.3 131.°55 1.°5/10.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.81	− 6 32.7	1.815	2.688	12.3	18.7
3 22	13 38.03	− 5 50.7	1.760	2.702	8.5	18.5
4 1	13 29.44	− 5 1.5	1.730	2.716	4.3	18.2
4 11	13 19.97	− 4 10.6	1.728	2.729	1.5	18.1
4 21	13 10.63	− 3 23.9	1.755	2.741	5.1	18.3
5 1	13 2.39	− 2 46.8	1.809	2.752	9.1	18.6
5 11	12 56.00	− 2 23.1	1.887	2.763	12.7	18.8
5 21	12 51.86	− 2 14.4	1.986	2.773	15.6	19.1

431832 2008 SG_{10} 4 11.3 239.°61 0.°7/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.70	− 8 49.6	2.299	3.165	10.4	21.8
3 22	13 35.11	− 8 1.2	2.210	3.149	7.2	21.5
4 1	13 27.97	− 7 3.5	2.148	3.133	3.7	21.3
4 11	13 19.94	− 6 0.8	2.114	3.116	0.7	21.0
4 21	13 11.77	− 4 58.4	2.111	3.099	4.1	21.3
5 1	13 4.27	− 4 1.8	2.136	3.081	7.8	21.4
5 11	12 58.13	− 3 15.6	2.186	3.062	11.2	21.6
5 21	12 53.82	− 2 42.9	2.259	3.043	14.0	21.8

303978 2006 BW_{67} 4 11.3 230.°26 4.°6/ 7.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.13	+ 0 38.1	1.649	2.535	12.6	21.6
3 22	13 37.90	+ 1 49.1	1.578	2.525	8.9	21.3
4 1	13 29.55	+ 3 2.9	1.533	2.514	5.5	21.1
4 11	13 19.98	+ 4 11.1	1.515	2.503	5.0	21.0
4 21	13 10.30	+ 5 6.0	1.524	2.491	8.1	21.2
5 1	13 1.64	+ 5 41.4	1.558	2.478	12.0	21.4
5 11	12 54.93	+ 5 54.4	1.615	2.465	15.7	21.6
5 21	12 50.70	+ 5 45.1	1.689	2.451	18.9	21.7

105361 2000 QG_{112} 4 11.3 184.°49 0.°7/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 38.55	− 7 38.6	2.906	3.770	8.5	21.0
3 22	13 33.28	− 7 0.0	2.831	3.770	5.9	20.8
4 1	13 26.89	− 6 15.8	2.784	3.769	3.0	20.6
4 11	13 19.91	− 5 29.2	2.767	3.768	0.8	20.4
4 21	13 12.92	− 4 44.0	2.780	3.767	3.4	20.6
5 1	13 6.51	− 4 3.8	2.823	3.765	6.3	20.8
5 11	13 1.17	− 3 31.7	2.892	3.763	8.9	21.0
5 21	12 57.24	− 3 9.6	2.984	3.761	11.1	21.1

32904 1994 PU_{24} 4 11.3 131.°44 1.°0/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.06	− 6 23.2	2.792	3.659	8.7	19.7
3 22	13 33.60	− 5 45.9	2.731	3.672	6.0	19.6
4 1	13 27.03	− 5 3.9	2.698	3.684	3.0	19.4
4 11	13 19.92	− 4 20.9	2.695	3.696	1.1	19.3
4 21	13 12.86	− 3 40.5	2.722	3.707	3.6	19.5
5 1	13 6.45	− 3 6.2	2.778	3.718	6.5	19.7
5 11	13 1.18	− 2 40.7	2.860	3.729	9.1	19.8
5 21	12 57.37	− 2 25.6	2.965	3.739	11.2	20.0

61645 2000 QT_{109} 4 11.3 231.°08 0.°4/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.11	−11 59.9	2.057	2.919	11.6	20.1
3 22	13 35.52	−11 22.2	1.975	2.910	8.2	19.9
4 1	13 28.22	−10 32.4	1.918	2.901	4.4	19.6
4 11	13 19.95	− 9 34.4	1.889	2.891	0.5	19.3
4 21	13 11.58	− 8 33.7	1.889	2.881	3.9	19.5
5 1	13 3.99	− 7 36.1	1.916	2.870	7.9	19.8
5 11	12 57.96	− 6 47.4	1.969	2.859	11.6	20.0
5 21	12 53.95	− 6 11.3	2.044	2.848	14.6	20.1

501018 2013 RE_{47} 4 11.3 240.°25 5.°2/15.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.26	−23 15.7	1.961	2.776	14.0	21.7
3 22	13 38.73	−23 41.8	1.872	2.766	11.1	21.5
4 1	13 30.03	−23 49.2	1.806	2.756	8.0	21.2
4 11	13 20.01	−23 37.2	1.766	2.745	5.5	21.1
4 21	13 9.71	−23 7.9	1.753	2.734	5.7	21.1
5 1	13 0.26	−22 26.1	1.768	2.723	8.4	21.2
5 11	12 52.65	−21 38.9	1.808	2.711	11.7	21.4
5 21	12 47.48	−20 53.0	1.870	2.699	14.8	21.5

64833 2001 XM_{251} 4 11.3 72.°23 0.°4/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.13	− 9 13.9	2.193	3.063	10.7	20.0
3 22	13 33.91	− 8 39.3	2.132	3.073	7.4	19.8
4 1	13 27.28	− 7 56.6	2.097	3.083	3.8	19.6
4 11	13 19.93	− 7 10.1	2.091	3.093	0.4	19.3
4 21	13 12.63	− 6 24.3	2.112	3.103	3.8	19.6
5 1	13 6.15	− 5 44.0	2.162	3.113	7.4	19.9
5 11	13 1.08	− 5 13.1	2.237	3.123	10.5	20.1
5 21	12 57.81	− 4 53.9	2.334	3.133	13.2	20.3

253077 2002 TJ_{183} 4 11.3 145.°23 0.°7/12.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.12	−13 37.2	1.874	2.733	12.7	21.1
3 22	13 36.22	−12 51.1	1.808	2.741	9.0	20.9
4 1	13 28.55	−11 50.7	1.767	2.748	4.9	20.6
4 11	13 19.96	−10 40.9	1.753	2.755	0.9	20.4
4 21	13 11.43	− 9 27.9	1.768	2.761	4.0	20.6
5 1	13 3.89	− 8 19.0	1.811	2.767	8.2	20.9
5 11	12 58.09	− 7 20.2	1.879	2.773	11.8	21.1
5 21	12 54.47	− 6 35.6	1.969	2.778	14.9	21.3

137781 1999 XX_{224} 4 11.3 252.°51 4.°7/15.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.31	−23 10.8	1.978	2.794	13.8	20.2
3 22	13 38.10	−23 12.0	1.877	2.774	10.9	20.0
4 1	13 29.73	−22 52.9	1.800	2.753	7.7	19.7
4 11	13 20.00	−22 13.4	1.748	2.732	5.1	19.5
4 21	13 9.93	−21 16.5	1.725	2.709	5.3	19.5
5 1	13 0.65	−20 8.1	1.729	2.686	8.3	19.6
5 11	12 53.13	−18 56.4	1.758	2.663	11.9	19.8
5 21	12 48.02	−17 48.9	1.810	2.638	15.3	19.9

138683 2000 SS_{35} 4 11.3 230.°61 0.°8/10.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 38.93	− 7 37.1	2.686	3.552	9.0	21.0
3 22	13 33.68	− 6 59.6	2.602	3.541	6.3	20.8
4 1	13 27.16	− 6 15.8	2.545	3.530	3.2	20.6
4 11	13 19.93	− 5 29.1	2.518	3.519	0.8	20.4
4 21	13 12.63	− 4 43.5	2.520	3.507	3.6	20.6
5 1	13 5.91	− 4 3.1	2.552	3.495	6.8	20.8
5 11	13 0.34	− 3 31.2	2.610	3.483	9.7	20.9
5 21	12 56.30	− 3 10.2	2.690	3.470	12.1	21.1

109731 2001 RD_{59} 4 11.3 99.°85 1.°5/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 47.97	−11 53.8	1.745	2.603	13.5	19.5
3 22	13 40.44	−12 14.6	1.682	2.613	9.7	19.2
4 1	13 30.80	−12 24.8	1.644	2.623	5.4	19.0
4 11	13 20.03	−12 26.2	1.633	2.633	1.6	18.8
4 21	13 9.28	−12 21.8	1.651	2.643	4.3	19.0
5 1	12 59.69	−12 15.8	1.696	2.653	8.5	19.3
5 11	12 52.14	−12 12.9	1.766	2.663	12.3	19.5
5 21	12 47.13	−12 16.4	1.858	2.672	15.5	19.7

465360 2008 AE_{82} 4 11.3 103°.18 3°.7/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 45.39	− 0 45.5	1.679	2.562	12.6	21.7
3 22	13 38.42	+ 0 7.7	1.637	2.583	8.7	21.5
4 1	13 29.62	+ 1 2.2	1.620	2.603	5.0	21.3
4 11	13 20.00	+ 1 51.0	1.631	2.623	3.9	21.3
4 21	13 10.62	+ 2 28.1	1.670	2.643	6.8	21.5
5 1	13 2.49	+ 2 49.4	1.734	2.662	10.5	21.8
5 11	12 56.34	+ 2 52.9	1.822	2.680	13.8	22.0
5 21	12 52.53	+ 2 39.1	1.929	2.698	16.6	22.3

480787 2016 PU_{28} 4 11.3 280°.98 8°.1/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.28	+15 52.6	2.182	3.053	10.6	20.7
3 22	13 34.80	+17 4.4	2.129	3.044	8.9	20.6
4 1	13 27.78	+18 5.1	2.102	3.036	8.1	20.5
4 11	13 19.95	+18 47.8	2.100	3.027	8.7	20.5
4 21	13 12.13	+19 8.0	2.124	3.018	10.4	20.6
5 1	13 5.14	+19 3.8	2.171	3.009	12.6	20.7
5 11	12 59.63	+18 35.9	2.239	3.001	14.7	20.9
5 21	12 56.01	+17 47.0	2.323	2.992	16.6	21.0

70514 1999 TO_{104} 4 11.3 330°.93 3°.6/13.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.87	−17 7.2	1.394	2.255	16.1	18.4
3 22	13 38.16	−17 23.6	1.321	2.249	12.1	18.1
4 1	13 29.86	−17 21.0	1.270	2.244	7.6	17.8
4 11	13 20.01	−17 0.7	1.244	2.239	3.9	17.6
4 21	13 9.94	−16 26.9	1.242	2.235	5.4	17.7
5 1	13 1.07	−15 46.6	1.266	2.231	9.9	17.9
5 11	12 54.56	−15 8.2	1.312	2.227	14.3	18.1
5 21	12 51.01	−14 38.3	1.377	2.224	18.2	18.4

461707 2005 SS_{46} 4 11.3 279°.08 2°.2/12.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 47.22	−13 21.7	1.709	2.565	13.8	21.1
3 22	13 40.25	−13 50.7	1.623	2.552	10.2	20.8
4 1	13 30.90	−14 8.5	1.562	2.539	6.0	20.6
4 11	13 20.05	−14 15.7	1.527	2.526	2.4	20.3
4 21	13 8.86	−14 14.7	1.521	2.513	4.6	20.4
5 1	12 58.60	−14 9.6	1.541	2.500	9.1	20.6
5 11	12 50.36	−14 5.6	1.586	2.487	13.2	20.8
5 21	12 44.80	−14 7.2	1.651	2.473	16.8	21.1

209684 2005 ET_{14} 4 11.3 49°.89 2°.3/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.08	− 5 59.7	1.302	2.195	14.8	20.2
3 22	13 36.61	− 5 5.7	1.254	2.206	10.2	20.0
4 1	13 28.87	− 4 2.9	1.229	2.217	5.2	19.7
4 11	13 19.99	− 2 59.2	1.229	2.229	2.4	19.6
4 21	13 11.27	− 2 3.3	1.255	2.241	6.6	19.8
5 1	13 3.93	− 1 22.4	1.304	2.254	11.3	20.1
5 11	12 58.89	− 1 0.9	1.375	2.266	15.5	20.4
5 21	12 56.54	− 0 59.8	1.465	2.279	18.9	20.7

522631 2016 FN_{67} 4 11.3 30°.61 6°.9/ 4.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 38.71	+ 3 52.3	1.344	2.248	13.7	21.1
3 22	13 34.19	+ 5 44.4	1.304	2.255	9.9	20.9
4 1	13 27.59	+ 7 33.8	1.287	2.263	7.2	20.8
4 11	13 19.95	+ 9 8.6	1.295	2.271	7.6	20.8
4 21	13 12.46	+10 19.1	1.328	2.280	10.6	21.0
5 1	13 6.22	+10 59.8	1.383	2.289	14.2	21.2
5 11	13 2.07	+11 9.7	1.458	2.299	17.5	21.4
5 21	13 0.40	+10 51.7	1.548	2.310	20.3	21.7

462190 2007 UZ_{33} 4 11.3 184°.05 4°.4/ 7.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.62	+ 2 30.9	2.014	2.893	11.0	21.9
3 22	13 37.86	+ 3 30.9	1.952	2.893	7.9	21.7
4 1	13 29.39	+ 4 30.4	1.916	2.893	5.1	21.5
4 11	13 20.02	+ 5 22.7	1.909	2.893	4.7	21.5
4 21	13 10.67	+ 6 2.4	1.931	2.891	7.2	21.7
5 1	13 2.25	+ 6 25.2	1.979	2.888	10.4	21.8
5 11	12 55.51	+ 6 29.6	2.051	2.885	13.4	22.0
5 21	12 50.86	+ 6 15.9	2.142	2.881	16.0	22.2

497002 2002 UH_{64} 4 11.3 237°.01 0°.1/11.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.93	−10 23.4	1.946	2.811	12.0	22.7
3 22	13 36.92	− 9 46.0	1.860	2.798	8.5	22.5
4 1	13 29.03	− 8 57.1	1.800	2.784	4.4	22.2
4 11	13 20.02	− 8 0.8	1.767	2.769	0.2	21.8
4 21	13 10.84	− 7 2.8	1.763	2.754	4.4	22.1
5 1	13 2.47	− 6 9.5	1.787	2.738	8.6	22.3
5 11	12 55.77	− 5 26.3	1.836	2.722	12.5	22.5
5 21	12 51.26	− 4 57.0	1.906	2.705	15.7	22.7

500701 2012 WO_{1} 4 11.3 107°.82 2°.4/14.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 38.99	−18 56.2	2.293	3.129	11.5	21.8
3 22	13 33.86	−18 27.4	2.221	3.136	8.6	21.6
4 1	13 27.29	−17 43.4	2.174	3.142	5.4	21.4
4 11	13 19.97	−16 47.1	2.154	3.149	2.7	21.2
4 21	13 12.66	−15 42.7	2.163	3.155	3.5	21.3
5 1	13 6.14	−14 36.1	2.200	3.161	6.6	21.5
5 11	13 1.03	−13 33.2	2.264	3.167	9.7	21.7
5 21	12 57.72	−12 38.4	2.351	3.174	12.4	21.9

364732 2007 VX_{142} 4 11.3 256°.30 1°.2/12.3 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 42.49	−14 26.7	1.675	2.536	13.8	21.6
3 22	13 36.91	−13 46.0	1.587	2.520	10.0	21.4
4 1	13 29.14	−12 47.3	1.523	2.503	5.6	21.1
4 11	13 20.03	−11 34.8	1.485	2.486	1.3	20.7
4 21	13 10.68	−10 15.0	1.475	2.468	4.5	20.9
5 1	13 2.25	− 8 56.6	1.491	2.450	9.3	21.1
5 11	12 55.74	− 7 47.9	1.532	2.432	13.7	21.3
5 21	12 51.74	− 6 54.6	1.593	2.413	17.4	21.5

520099 2013 YE_{154} 4 11.3 166°.62 4°.0/15.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.84	−23 36.6	2.491	3.297	11.7	21.8
3 22	13 35.85	−23 35.1	2.411	3.301	9.1	21.6
4 1	13 28.34	−23 17.1	2.356	3.304	6.5	21.4
4 11	13 20.01	−22 43.7	2.327	3.307	4.3	21.3
4 21	13 11.64	−21 57.7	2.328	3.310	4.4	21.3
5 1	13 4.02	−21 3.8	2.357	3.312	6.6	21.5
5 11	12 57.81	−20 7.7	2.412	3.314	9.2	21.6
5 21	12 53.45	−19 14.6	2.492	3.315	11.8	21.8

378740 2008 RC_{35} 4 11.3 143°.65 0°.3/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.32	−10 7.5	2.033	2.901	11.4	21.9
3 22	13 34.89	− 9 22.5	1.966	2.906	8.0	21.6
4 1	13 27.86	− 8 27.3	1.925	2.910	4.1	21.4
4 11	13 20.00	− 7 26.7	1.912	2.914	0.3	21.1
4 21	13 12.16	− 6 26.4	1.927	2.918	4.1	21.4
5 1	13 5.18	− 5 32.1	1.970	2.921	8.0	21.7
5 11	12 59.75	− 4 48.8	2.038	2.924	11.4	21.9
5 21	12 56.29	− 4 19.2	2.128	2.928	14.3	22.1

41494 2000 QX_{111} 4 11.3 136°.27 2°.2/13.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.76	−15 37.9	1.633	2.487	14.5	19.6
3 22	13 39.04	−15 30.1	1.568	2.495	10.6	19.3
4 1	13 30.15	−15 5.8	1.527	2.503	6.3	19.1
4 11	13 20.08	−14 28.0	1.512	2.510	2.5	18.9
4 21	13 10.02	−13 41.9	1.524	2.517	4.5	19.0
5 1	13 1.15	−12 54.2	1.564	2.524	8.8	19.3
5 11	12 54.40	−12 11.9	1.627	2.530	12.8	19.5
5 21	12 50.24	−11 40.1	1.711	2.536	16.2	19.8

297801 2001 YD_{131} 4 11.3 100°.52 2°.6/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.65	− 3 41.8	1.420	2.307	14.2	20.3
3 22	13 39.07	− 3 9.5	1.364	2.313	9.9	20.0
4 1	13 30.19	− 2 31.9	1.332	2.318	5.2	19.8
4 11	13 20.09	− 1 55.6	1.326	2.324	2.7	19.6
4 21	13 10.06	− 1 27.0	1.346	2.330	6.6	19.9
5 1	13 1.36	− 1 11.7	1.391	2.335	11.2	20.2
5 11	12 54.94	− 1 12.7	1.458	2.341	15.3	20.4
5 21	12 51.26	− 1 30.7	1.544	2.346	18.7	20.7

375818 2009 UZ_{27} 4 11.3 193°.47 1°.2/12.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.84	−14 53.3	2.350	3.196	10.9	22.3
3 22	13 35.86	−14 21.7	2.269	3.194	7.9	22.1
4 1	13 28.37	−13 37.6	2.214	3.191	4.5	21.8
4 11	13 20.05	−12 44.0	2.187	3.187	1.4	21.6
4 21	13 11.67	−11 45.4	2.190	3.183	3.4	21.7
5 1	13 4.04	−10 47.1	2.223	3.178	6.9	22.0
5 11	12 57.82	− 9 54.3	2.282	3.173	10.1	22.2
5 21	12 53.44	− 9 11.1	2.363	3.167	12.9	22.3

128281 2003 UQ_{145} 4 11.3 196°.81 1°.7/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.45	− 5 16.1	2.170	3.045	10.5	20.2
3 22	13 34.93	− 4 33.5	2.100	3.044	7.2	20.0
4 1	13 27.89	− 3 45.3	2.057	3.043	3.7	19.7
4 11	13 20.03	− 2 56.3	2.042	3.041	1.8	19.6
4 21	13 12.16	− 2 11.4	2.055	3.039	4.7	19.8
5 1	13 5.07	− 1 35.3	2.097	3.036	8.3	20.0
5 11	12 59.42	− 1 11.5	2.163	3.034	11.5	20.2
5 21	12 55.63	− 1 1.5	2.250	3.031	14.2	20.4

38834 2000 SP_{1} 4 11.3 206°.62 6°.4/20.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.49	−36 35.7	3.225	3.933	11.2	20.3
3 22	13 35.54	−36 46.9	3.126	3.927	9.7	20.2
4 1	13 28.19	−36 39.2	3.050	3.920	8.2	20.1
4 11	13 20.04	−36 12.0	2.999	3.912	6.9	20.0
4 21	13 11.79	−35 26.3	2.974	3.905	6.4	19.9
5 1	13 4.16	−34 25.4	2.977	3.896	7.0	19.9
5 11	12 57.77	−33 14.2	3.007	3.887	8.3	20.0
5 21	12 53.04	−31 58.4	3.062	3.878	10.0	20.1

224951 2007 EA_{1} 4 11.3 12°.73 0°.1/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.07	− 7 45.6	1.435	2.314	14.6	19.0
3 22	13 39.47	− 8 7.6	1.373	2.316	10.3	18.8
4 1	13 30.46	− 8 22.3	1.334	2.319	5.4	18.5
4 11	13 20.11	− 8 32.2	1.321	2.323	0.2	18.1
4 21	13 9.71	− 8 40.7	1.334	2.327	5.1	18.5
5 1	13 0.58	− 8 51.8	1.373	2.332	9.9	18.8
5 11	12 53.74	− 9 9.4	1.435	2.337	14.2	19.0
5 21	12 49.73	− 9 35.6	1.516	2.343	17.8	19.3

309895 2009 DG_{141} 4 11.3 49°.85 1°.5/12.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 43.04	−14 6.0	1.208	2.086	16.9	20.2
3 22	13 37.43	−13 39.2	1.163	2.104	12.1	20.0
4 1	13 29.36	−12 53.3	1.139	2.122	6.7	19.7
4 11	13 20.08	−11 54.3	1.139	2.140	1.7	19.4
4 21	13 11.03	−10 50.5	1.164	2.159	5.1	19.7
5 1	13 3.54	− 9 51.3	1.214	2.179	10.2	20.1
5 11	12 58.56	− 9 4.6	1.285	2.198	14.7	20.4
5 21	12 56.47	− 8 34.7	1.375	2.218	18.4	20.7

57095 2001 OX_{48} 4 11.3 190°.79 0°.2/11.1 17

3 12	13 41.99	−10 20.4	2.220	3.082	10.9	20.2
3 22	13 36.00	− 9 37.6	2.144	3.080	7.6	19.9
4 1	13 28.46	− 8 44.9	2.095	3.078	4.0	19.7
4 11	13 20.06	− 7 46.6	2.074	3.076	0.2	19.4
4 21	13 11.63	− 6 47.6	2.083	3.073	3.9	19.7
5 1	13 3.99	− 5 53.6	2.120	3.069	7.6	19.9
5 11	12 57.81	− 5 9.1	2.183	3.064	11.0	20.1
5 21	12 53.54	− 4 37.3	2.268	3.059	13.8	20.3

129495 1995 DP_{6} 4 11.3 174°.17 1°.5/ 9.9 18

3 12	13 43.87	− 6 55.8	1.818	2.692	12.3	21.0
3 22	13 37.52	− 6 2.8	1.752	2.695	8.5	20.8
4 1	13 29.30	− 5 1.2	1.712	2.698	4.3	20.5
4 11	13 20.09	− 3 57.0	1.699	2.700	1.6	20.3
4 21	13 10.89	− 2 56.7	1.715	2.701	5.3	20.6
5 1	13 2.70	− 2 6.6	1.759	2.701	9.4	20.8
5 11	12 56.31	− 1 31.2	1.826	2.701	13.0	21.0
5 21	12 52.18	− 1 12.7	1.914	2.700	16.1	21.2

423642 2005 XP_{27} 4 11.3 134°.06 0°.8/12.2 16

3 12	13 43.05	−13 2.6	2.269	3.120	11.1	22.8
3 22	13 36.62	−12 35.8	2.206	3.135	7.9	22.7
4 1	13 28.71	−11 58.2	2.170	3.149	4.3	22.5
4 11	13 20.07	−11 13.4	2.162	3.163	0.9	22.2
4 21	13 11.51	−10 25.5	2.184	3.176	3.4	22.4
5 1	13 3.81	− 9 39.7	2.235	3.189	7.0	22.7
5 11	12 57.62	− 9 0.4	2.312	3.200	10.1	22.9
5 21	12 53.32	− 8 30.8	2.411	3.211	12.8	23.1

455677 2005 ES_{11} 4 11.3 7°.00 1°.5/12.1 17

3 12	13 41.29	−11 29.7	1.030	1.925	17.7	19.9
3 22	13 36.72	−11 43.9	0.976	1.925	12.7	19.6
4 1	13 29.23	−11 42.2	0.941	1.927	7.0	19.3
4 11	13 20.09	−11 28.2	0.928	1.930	1.7	19.0
4 21	13 10.88	−11 8.0	0.939	1.935	5.7	19.3
5 1	13 3.25	−10 49.1	0.971	1.941	11.4	19.6
5 11	12 58.38	−10 38.9	1.023	1.949	16.5	19.9
5 21	12 56.83	−10 41.7	1.093	1.958	20.7	20.2

308009 2004 RX_{153} 4 11.3 250°.57 0°.4/11.6 17

3 12	13 42.98	−12 55.1	1.654	2.519	13.7	21.3
3 22	13 37.29	−12 1.1	1.565	2.502	9.8	21.0
4 1	13 29.37	−10 49.4	1.501	2.484	5.3	20.7
4 11	13 20.10	− 9 25.1	1.464	2.466	0.5	20.3
4 21	13 10.57	− 7 55.7	1.454	2.447	4.8	20.6
5 1	13 1.97	− 6 30.6	1.472	2.427	9.7	20.8
5 11	12 55.31	− 5 18.1	1.513	2.407	14.2	21.0
5 21	12 51.18	− 4 23.7	1.575	2.386	18.0	21.2

308086 2004 UM_{8} 4 11.3 175°.75 1°.2/12.4 16

3 12	13 45.00	−14 19.5	2.011	2.860	12.4	22.2
3 22	13 38.24	−13 48.9	1.936	2.863	8.9	22.0
4 1	13 29.67	−13 4.4	1.888	2.866	5.0	21.8
4 11	13 20.12	−12 9.7	1.867	2.868	1.4	21.5
4 21	13 10.55	−11 9.9	1.876	2.869	3.9	21.7
5 1	13 1.92	−10 11.3	1.913	2.869	7.8	22.0
5 11	12 55.02	− 9 19.9	1.977	2.868	11.5	22.2
5 21	12 50.31	− 8 39.8	2.062	2.866	14.5	22.4

364199 2006 QC_{47} 4 11.3 224°.84 2°.4/ 9.1 17

3 12	13 44.09	− 3 31.9	1.969	2.845	11.4	21.7
3 22	13 37.68	− 2 48.2	1.890	2.834	7.9	21.5
4 1	13 29.43	− 1 59.2	1.838	2.823	4.2	21.3
4 11	13 20.11	− 1 10.5	1.814	2.811	2.5	21.1
4 21	13 10.68	− 0 27.7	1.818	2.798	5.7	21.3
5 1	13 2.08	+ 0 4.1	1.850	2.785	9.5	21.5
5 11	12 55.15	+ 0 21.3	1.907	2.771	13.1	21.7
5 21	12 50.38	+ 0 22.5	1.983	2.756	16.1	21.9

61239 2000 OP_{17} 4 11.3 284°.57 1°.0/10.6 17

3 12	13 42.87	− 8 29.5	1.391	2.275	14.6	19.2
3 22	13 37.43	− 7 51.1	1.316	2.263	10.3	18.9
4 1	13 29.51	− 6 59.8	1.265	2.252	5.3	18.6
4 11	13 20.12	− 6 1.7	1.238	2.240	1.0	18.3
4 21	13 10.51	− 5 4.6	1.237	2.228	5.9	18.6
5 1	13 2.03	− 4 16.7	1.262	2.216	11.1	18.8
5 11	12 55.77	− 3 44.6	1.308	2.205	15.7	19.1
5 21	12 52.34	− 3 31.5	1.372	2.193	19.6	19.3

34734 2001 QS_{64} 4 11.3 112°.59 1°.1/10.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 40.18	− 6 24.4	2.537	3.405	9.4	19.8
3 22	13 34.47	− 5 45.8	2.482	3.423	6.5	19.6
4 1	13 27.55	− 5 2.2	2.455	3.440	3.3	19.5
4 11	13 20.06	− 4 17.6	2.457	3.457	1.2	19.3
4 21	13 12.65	− 3 36.1	2.488	3.473	3.9	19.5
5 1	13 6.00	− 3 1.5	2.549	3.489	6.9	19.8
5 11	13 0.61	− 2 36.5	2.635	3.505	9.7	20.0
5 21	12 56.82	− 2 22.8	2.743	3.520	12.0	20.1

258525 2002 AF_{207} 4 11.3 27°.83 16°.5/21.6 17

3 12	13 44.72	+36 40.4	1.658	2.457	16.8	19.5
3 22	13 38.36	+38 30.7	1.649	2.461	16.5	19.5
4 1	13 29.75	+39 45.6	1.659	2.464	16.9	19.6
4 11	13 20.13	+40 17.5	1.688	2.468	17.7	19.6
4 21	13 10.82	+40 4.6	1.732	2.472	18.9	19.7
5 1	13 3.06	+39 9.5	1.792	2.476	20.2	19.8
5 11	12 57.67	+37 38.7	1.864	2.480	21.4	20.0
5 21	12 54.98	+35 40.0	1.947	2.485	22.5	20.1

292076 2006 RN_{21} 4 11.3 158°.84 0°.9/10.2 18

3 12	13 38.20	− 8 2.6	2.643	3.510	9.1	21.1
3 22	13 33.15	− 7 8.1	2.574	3.514	6.3	21.0
4 1	13 26.90	− 6 6.9	2.534	3.519	3.2	20.8
4 11	13 20.05	− 5 3.2	2.522	3.523	0.9	20.6
4 21	13 13.22	− 4 1.5	2.541	3.527	3.7	20.8
5 1	13 7.03	− 3 6.4	2.589	3.531	6.8	21.0
5 11	13 2.02	− 2 21.5	2.663	3.534	9.6	21.2
5 21	12 58.51	− 1 48.9	2.759	3.537	11.9	21.4

168471 1999 LS_{30} 4 11.3 272°.40 3°.6/ 8.5 17

3 12	13 44.12	− 1 48.9	1.579	2.465	13.1	20.4
3 22	13 38.17	− 0 57.6	1.496	2.444	9.2	20.1
4 1	13 29.88	− 0 0.8	1.438	2.422	5.2	19.8
4 11	13 20.15	+ 0 54.2	1.406	2.400	3.8	19.7
4 21	13 10.12	+ 1 40.0	1.400	2.378	7.4	19.8
5 1	13 1.03	+ 2 9.8	1.421	2.355	11.8	20.0
5 11	12 53.93	+ 2 19.7	1.463	2.332	16.0	20.2
5 21	12 49.46	+ 2 8.7	1.523	2.309	19.6	20.4

123784 2001 BE_{17} 4 11.3 24°.16 9°.1/ 2.6 18

3 12	13 40.15	+12 41.3	1.571	2.460	13.0	18.7
3 22	13 35.05	+14 16.3	1.533	2.465	10.5	18.6
4 1	13 28.05	+15 39.1	1.519	2.469	9.2	18.5
4 11	13 20.11	+16 40.0	1.530	2.475	9.8	18.5
4 21	13 12.30	+17 12.7	1.564	2.480	12.0	18.7
5 1	13 5.64	+17 14.7	1.620	2.486	14.7	18.9
5 11	13 0.91	+16 47.7	1.696	2.493	17.3	19.0
5 21	12 58.49	+15 55.8	1.786	2.500	19.6	19.2

234866 2002 RQ_{270} 4 11.3 199°.67 0°.6/11.9 17

3 12	13 40.36	−12 11.8	2.078	2.940	11.5	21.3
3 22	13 34.98	−11 43.3	2.005	2.939	8.2	21.1
4 1	13 27.99	−11 3.5	1.957	2.939	4.4	20.9
4 11	13 20.11	−10 16.1	1.936	2.938	0.7	20.6
4 21	13 12.20	− 9 26.0	1.944	2.937	3.7	20.8
5 1	13 5.11	− 8 38.6	1.980	2.936	7.6	21.1
5 11	12 59.53	− 7 58.8	2.041	2.935	11.0	21.3
5 21	12 55.91	− 7 30.1	2.124	2.934	14.0	21.5

18940 2000 QV_{49} 4 11.3 210°.04 0°.7/ 9.8 18

3 12	13 32.58	− 5 25.3	4.733	5.600	5.4	19.2
3 22	13 28.91	− 4 58.0	4.657	5.598	3.7	19.0
4 1	13 24.62	− 4 28.4	4.610	5.595	1.9	18.9
4 11	13 20.01	− 3 58.3	4.593	5.593	0.8	18.8
4 21	13 15.39	− 3 29.7	4.607	5.590	2.3	18.9
5 1	13 11.08	− 3 4.5	4.650	5.588	4.1	19.0
5 11	13 7.35	− 2 44.3	4.720	5.585	5.8	19.2
5 21	13 4.43	− 2 30.3	4.815	5.583	7.3	19.3

286151 2001 TL_{235} 4 11.3 202°.31 1°.4/13.0 18

3 12	13 38.95	−15 51.8	2.526	3.370	10.3	21.0
3 22	13 33.81	−15 16.1	2.444	3.367	7.5	20.8
4 1	13 27.32	−14 28.0	2.388	3.364	4.4	20.6
4 11	13 20.10	−13 30.5	2.361	3.360	1.6	20.4
4 21	13 12.84	−12 27.7	2.363	3.356	3.1	20.5
5 1	13 6.24	−11 24.9	2.394	3.352	6.3	20.7
5 11	13 0.90	−10 27.0	2.452	3.347	9.4	20.9
5 21	12 57.21	− 9 38.0	2.533	3.343	12.0	21.1

102306 1999 TF_{93} 4 11.3 167°.75 2°.7/ 9.1 18

3 12	13 44.87	− 2 41.1	1.814	2.693	12.0	19.4
3 22	13 38.21	− 2 1.0	1.751	2.696	8.4	19.1
4 1	13 29.69	− 1 17.1	1.715	2.699	4.5	18.9
4 11	13 20.17	− 0 35.2	1.706	2.702	2.9	18.8
4 21	13 10.68	− 0 0.9	1.725	2.704	6.0	19.0
5 1	13 2.23	+ 0 21.1	1.771	2.706	9.8	19.2
5 11	12 55.60	+ 0 27.9	1.840	2.707	13.4	19.5
5 21	12 51.25	+ 0 19.0	1.930	2.707	16.3	19.7

329997 2005 TA_{74} 4 11.3 210°.94 2°.6/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 42.23	− 2 38.5	2.159	3.035	10.5	21.6
3 22	13 36.23	− 1 47.6	2.085	3.029	7.3	21.4
4 1	13 28.63	− 0 52.7	2.038	3.022	4.0	21.2
4 11	13 20.14	+ 0 0.9	2.019	3.015	2.8	21.1
4 21	13 11.59	+ 0 47.9	2.030	3.006	5.5	21.3
5 1	13 3.83	+ 1 23.4	2.068	2.998	9.0	21.5
5 11	12 57.55	+ 1 44.5	2.131	2.988	12.1	21.7
5 21	12 53.19	+ 1 49.8	2.215	2.979	14.9	21.8

142620 2002 TL_{154} 4 11.3 184°.39 1°.4/12.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.68	−15 37.7	2.172	3.017	11.7	21.8
3 22	13 36.56	−14 59.3	2.094	3.018	8.5	21.6
4 1	13 28.80	−14 6.6	2.041	3.018	4.9	21.4
4 11	13 20.15	−13 3.0	2.017	3.017	1.6	21.1
4 21	13 11.47	−11 53.8	2.022	3.015	3.6	21.3
5 1	13 3.62	−10 45.0	2.056	3.013	7.3	21.5
5 11	12 57.33	− 9 42.9	2.117	3.010	10.7	21.7
5 21	12 53.01	− 8 51.8	2.200	3.006	13.7	21.9

272933 2006 BD_{225} 4 11.3 189°.80 2°.5/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.11	− 4 2.8	1.971	2.852	11.1	20.8
3 22	13 34.82	− 2 59.8	1.905	2.852	7.6	20.6
4 1	13 27.90	− 1 51.0	1.866	2.851	4.1	20.4
4 11	13 20.12	− 0 42.8	1.854	2.851	2.7	20.3
4 21	13 12.34	+ 0 18.5	1.871	2.850	5.7	20.5
5 1	13 5.42	+ 1 7.3	1.915	2.848	9.3	20.7
5 11	13 0.05	+ 1 39.9	1.982	2.847	12.6	20.9
5 21	12 56.67	+ 1 54.9	2.070	2.846	15.4	21.1

303956 2005 YZ_{67} 4 11.3 159°.99 0°.6/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.79	−12 5.5	1.625	2.490	14.0	21.9
3 22	13 39.08	−11 38.2	1.559	2.495	10.0	21.7
4 1	13 30.23	−10 57.1	1.518	2.500	5.4	21.4
4 11	13 20.20	−10 6.6	1.503	2.504	0.7	21.1
4 21	13 10.18	− 9 12.8	1.515	2.508	4.6	21.4
5 1	13 1.33	− 8 22.9	1.555	2.511	9.2	21.7
5 11	12 54.56	− 7 43.1	1.619	2.514	13.3	21.9
5 21	12 50.35	− 7 17.2	1.703	2.516	16.7	22.2

43951 1997 BC_{5} 4 11.3 276°.21 0°.4/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.56	−11 48.8	1.644	2.513	13.6	19.7
3 22	13 37.08	−11 14.9	1.553	2.492	9.8	19.4
4 1	13 29.34	−10 25.9	1.486	2.470	5.3	19.1
4 11	13 20.18	− 9 25.9	1.446	2.448	0.5	18.6
4 21	13 10.69	− 8 21.4	1.432	2.425	4.8	18.9
5 1	13 2.08	− 7 20.1	1.445	2.402	9.7	19.1
5 11	12 55.38	− 6 29.6	1.482	2.379	14.2	19.3
5 21	12 51.23	− 5 54.7	1.538	2.356	18.0	19.5

102461 1999 TG_{227} 4 11.3 228°.56 0°.5/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.59	−11 31.2	1.948	2.808	12.2	20.9
3 22	13 38.15	−11 7.1	1.862	2.796	8.7	20.7
4 1	13 29.76	−10 31.2	1.801	2.784	4.7	20.4
4 11	13 20.20	− 9 47.0	1.768	2.770	0.6	20.1
4 21	13 10.46	− 8 59.4	1.764	2.756	4.2	20.3
5 1	13 1.56	− 8 14.3	1.788	2.742	8.4	20.5
5 11	12 54.36	− 7 37.1	1.837	2.726	12.3	20.7
5 21	12 49.41	− 7 11.8	1.908	2.710	15.6	20.9

416058 2002 GK_{180} 4 11.3 36°.13 2°.2/13.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.76	−16 47.4	1.545	2.407	14.7	20.3
3 22	13 34.92	−16 14.7	1.485	2.416	10.8	20.1
4 1	13 28.06	−15 22.9	1.448	2.426	6.4	19.8
4 11	13 20.15	−14 16.3	1.437	2.436	2.5	19.6
4 21	13 12.30	−13 2.3	1.452	2.446	4.4	19.7
5 1	13 5.60	−11 49.1	1.492	2.457	8.7	20.0
5 11	13 0.89	−10 44.8	1.557	2.469	12.7	20.3
5 21	12 58.58	− 9 54.7	1.642	2.481	16.1	20.5

219652 2001 UB_{162} 4 11.3 207°.94 5°.7/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.10	−29 24.0	1.991	2.779	14.8	19.6
3 22	13 35.73	−28 48.1	1.904	2.776	12.0	19.4
4 1	13 28.46	−27 44.9	1.839	2.773	9.0	19.2
4 11	13 20.16	−26 15.6	1.800	2.770	6.4	19.1
4 21	13 11.83	−24 25.4	1.788	2.767	5.9	19.0
5 1	13 4.48	−22 22.6	1.804	2.763	8.0	19.1
5 11	12 58.93	−20 17.8	1.847	2.759	11.0	19.3
5 21	12 55.63	−18 20.3	1.913	2.754	14.1	19.5

439159 2011 UF_{267} 4 11.3 206°.46 1°.9/13.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 38.31	−17 37.5	2.614	3.451	10.2	21.4
3 22	13 33.35	−17 5.9	2.531	3.448	7.6	21.2
4 1	13 27.09	−16 21.3	2.474	3.445	4.6	21.1
4 11	13 20.12	−15 26.2	2.445	3.442	2.1	20.9
4 21	13 13.12	−14 24.6	2.446	3.438	3.1	20.9
5 1	13 6.75	−13 21.5	2.475	3.435	6.1	21.1
5 11	13 1.60	−12 21.8	2.532	3.431	9.0	21.3
5 21	12 58.04	−11 29.7	2.612	3.427	11.5	21.5

212842 2007 UH_{104} 4 11.3 315°.63 5°.1/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 43.38	+ 1 26.8	1.354	2.250	14.1	19.8
3 22	13 37.74	+ 2 16.9	1.291	2.241	10.1	19.6
4 1	13 29.67	+ 3 7.6	1.250	2.233	6.3	19.3
4 11	13 20.21	+ 3 50.3	1.235	2.224	5.4	19.2
4 21	13 10.64	+ 4 17.5	1.244	2.216	8.8	19.4
5 1	13 2.30	+ 4 23.6	1.277	2.209	13.1	19.6
5 11	12 56.21	+ 4 6.7	1.331	2.201	17.2	19.8
5 21	12 52.93	+ 3 28.1	1.401	2.195	20.6	20.1

96299 1996 SO 4 11.3 135°.67 0°.5/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.29	−11 18.9	1.866	2.725	12.7	20.7
3 22	13 39.15	−10 58.3	1.806	2.739	9.0	20.5
4 1	13 30.16	−10 26.7	1.770	2.752	4.8	20.2
4 11	13 20.23	− 9 47.9	1.763	2.765	0.6	19.9
4 21	13 10.39	− 9 7.0	1.785	2.777	4.1	20.2
5 1	13 1.64	− 8 29.3	1.835	2.788	8.3	20.5
5 11	12 54.76	− 7 59.9	1.910	2.799	11.9	20.8
5 21	12 50.18	− 7 41.9	2.006	2.808	14.9	21.0

51340 2000 QJ_{12} 4 11.3 214°.87 0°.6/10.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 33.08	− 6 24.3	4.573	5.438	5.6	19.3
3 22	13 29.28	− 5 59.7	4.496	5.435	3.9	19.2
4 1	13 24.84	− 5 32.3	4.448	5.433	2.0	19.0
4 11	13 20.07	− 5 3.9	4.429	5.430	0.6	18.9
4 21	13 15.28	− 4 36.7	4.441	5.427	2.3	19.1
5 1	13 10.80	− 4 12.5	4.483	5.425	4.2	19.2
5 11	13 6.95	− 3 53.0	4.553	5.422	5.9	19.3
5 21	13 3.93	− 3 39.5	4.646	5.419	7.5	19.4

152156 2005 MV_{50} 4 11.3 162°.34 2°.4/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 38.53	− 0 33.6	3.033	3.907	7.9	21.6
3 22	13 33.26	+ 0 13.7	2.971	3.913	5.5	21.5
4 1	13 26.96	+ 1 2.2	2.937	3.919	3.2	21.3
4 11	13 20.13	+ 1 47.9	2.933	3.924	2.6	21.3
4 21	13 13.34	+ 2 27.2	2.959	3.928	4.5	21.4
5 1	13 7.11	+ 2 57.4	3.014	3.932	6.9	21.6
5 11	13 1.91	+ 3 16.4	3.094	3.935	9.2	21.7
5 21	12 58.05	+ 3 23.5	3.196	3.939	11.1	21.9

93909 2000 WF_{154} 4 11.3 252°.57 1°.5/12.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.51	−13 0.6	1.926	2.781	12.5	19.6
3 22	13 38.13	−13 5.6	1.843	2.773	9.1	19.4
4 1	13 29.77	−12 59.3	1.785	2.764	5.2	19.1
4 11	13 20.23	−12 43.7	1.754	2.755	1.6	18.8
4 21	13 10.51	−12 22.3	1.752	2.745	4.0	19.0
5 1	13 1.64	−11 59.6	1.778	2.736	8.1	19.2
5 11	12 54.51	−11 40.7	1.829	2.726	11.9	19.4
5 21	12 49.66	−11 29.6	1.901	2.717	15.1	19.6

56121 1999 CB_{20} 4 11.3 347°.42 8°.2/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.39	+ 9 29.5	1.490	2.383	13.3	18.3
3 22	13 36.09	+10 52.6	1.441	2.381	10.3	18.1
4 1	13 28.69	+12 7.2	1.415	2.378	8.4	18.0
4 11	13 20.20	+13 3.5	1.414	2.376	8.8	18.0
4 21	13 11.74	+13 34.4	1.437	2.374	11.3	18.2
5 1	13 4.46	+13 36.2	1.483	2.372	14.5	18.3
5 11	12 59.22	+13 9.8	1.548	2.371	17.6	18.5
5 21	12 56.47	+12 18.5	1.630	2.371	20.2	18.7

507437 2012 SY_{4} 4 11.3 279°.34 0°.3/11.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.10	−11 18.2	1.971	2.836	11.9	21.7
3 22	13 35.76	−10 47.8	1.877	2.814	8.5	21.4
4 1	13 28.55	−10 5.3	1.808	2.792	4.5	21.1
4 11	13 20.20	− 9 14.3	1.767	2.769	0.4	20.7
4 21	13 11.60	− 8 20.1	1.754	2.747	4.2	21.0
5 1	13 3.73	− 7 28.8	1.769	2.724	8.4	21.2
5 11	12 57.43	− 6 46.0	1.808	2.701	12.3	21.4
5 21	12 53.25	− 6 15.9	1.868	2.677	15.6	21.6

165392 2000 XT_{5} 4 11.3 156°.27 5°.0/15.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.69	−24 17.4	1.909	2.719	14.5	20.6
3 22	13 38.94	−24 17.2	1.835	2.727	11.4	20.4
4 1	13 30.16	−23 55.4	1.784	2.734	8.1	20.2
4 11	13 20.26	−23 12.8	1.760	2.740	5.4	20.1
4 21	13 10.34	−22 13.3	1.763	2.746	5.4	20.1
5 1	13 1.48	−21 3.6	1.793	2.751	8.1	20.2
5 11	12 54.55	−19 51.9	1.850	2.755	11.4	20.4
5 21	12 50.05	−18 45.7	1.928	2.759	14.4	20.6

10025 Rauer 4 11.3 152°.11 0°.6/11.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.64	−12 5.5	2.218	3.077	11.0	17.7
3 22	13 35.10	−11 38.9	2.147	3.080	7.8	17.5
4 1	13 28.05	−11 1.9	2.102	3.084	4.2	17.2
4 11	13 20.20	−10 17.9	2.085	3.087	0.7	17.0
4 21	13 12.33	− 9 31.6	2.097	3.089	3.5	17.2
5 1	13 5.26	− 8 47.7	2.137	3.092	7.2	17.4
5 11	12 59.63	− 8 10.8	2.203	3.094	10.4	17.6
5 21	12 55.85	− 7 44.2	2.291	3.097	13.2	17.8

203274 2001 RN_{22} 4 11.3 248°.33 0°.9/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 44.74	−12 44.5	1.548	2.415	14.4	21.9
3 22	13 38.68	−12 18.0	1.466	2.402	10.4	21.6
4 1	13 30.22	−11 35.5	1.406	2.388	5.7	21.3
4 11	13 20.28	−10 41.0	1.373	2.374	1.0	20.9
4 21	13 10.07	− 9 40.8	1.366	2.360	4.8	21.2
5 1	13 0.89	− 8 42.8	1.386	2.345	9.9	21.4
5 11	12 53.81	− 7 54.8	1.429	2.329	14.4	21.6
5 21	12 49.47	− 7 21.7	1.492	2.313	18.3	21.8

383784 2007 VP_{332} 4 11.3 144°.34 4°.5/ 6.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.42	+ 4 52.9	2.331	3.212	9.6	21.1
3 22	13 34.81	+ 5 46.1	2.276	3.217	7.0	20.9
4 1	13 27.85	+ 6 36.4	2.248	3.221	4.9	20.8
4 11	13 20.20	+ 7 18.6	2.249	3.225	4.8	20.8
4 21	13 12.61	+ 7 48.2	2.277	3.229	6.8	20.9
5 1	13 5.79	+ 8 2.3	2.333	3.233	9.4	21.1
5 11	13 0.33	+ 7 59.9	2.411	3.237	12.0	21.3
5 21	12 56.59	+ 7 41.6	2.510	3.240	14.1	21.5

347312 2011 QL_{33} 4 11.3 219°.05 2°.6/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 38.34	− 1 53.4	2.598	3.476	8.9	21.4
3 22	13 33.34	− 0 47.3	2.524	3.469	6.2	21.2
4 1	13 27.10	+ 0 22.0	2.478	3.461	3.5	21.0
4 11	13 20.18	+ 1 29.6	2.461	3.453	2.8	20.9
4 21	13 13.22	+ 2 30.5	2.474	3.444	5.1	21.1
5 1	13 6.86	+ 3 20.4	2.515	3.436	8.0	21.2
5 11	13 1.67	+ 3 56.3	2.581	3.426	10.7	21.4
5 21	12 58.01	+ 4 16.9	2.668	3.417	13.0	21.6

63832 2001 RL_{74} 4 11.3 68°.22 1°.0/12.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 38.57	−15 42.1	2.089	2.942	11.8	18.9
3 22	13 33.61	−14 37.0	2.033	2.962	8.4	18.7
4 1	13 27.23	−13 17.6	2.004	2.982	4.7	18.5
4 11	13 20.18	−11 49.1	2.002	3.003	1.2	18.3
4 21	13 13.27	−10 18.1	2.029	3.023	3.5	18.5
5 1	13 7.26	− 8 51.6	2.085	3.043	7.1	18.7
5 11	13 2.75	− 7 35.7	2.167	3.063	10.4	19.0
5 21	13 0.06	− 6 34.3	2.272	3.083	13.1	19.2

41247 1999 XQ_{39} 4 11.3 260°.37 3°.2/14.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.09	−21 29.6	2.126	2.952	12.6	18.8
3 22	13 34.97	−20 54.2	2.029	2.936	9.7	18.6
4 1	13 28.11	−19 58.6	1.957	2.920	6.4	18.4
4 11	13 20.21	−18 45.3	1.912	2.903	3.6	18.2
4 21	13 12.16	−17 19.1	1.895	2.886	4.1	18.2
5 1	13 4.86	−15 46.8	1.907	2.868	7.4	18.3
5 11	12 59.09	−14 16.6	1.944	2.851	10.9	18.5
5 21	12 55.35	−12 55.3	2.005	2.833	14.0	18.7

307088 2002 AT_{144} 4 11.3 80°.89 4°.4/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.39	− 1 22.7	1.386	2.280	14.0	19.9
3 22	13 36.87	− 0 4.6	1.333	2.284	9.7	19.7
4 1	13 29.14	+ 1 17.9	1.304	2.288	5.7	19.4
4 11	13 20.25	+ 2 34.9	1.301	2.293	4.7	19.4
4 21	13 11.43	+ 3 37.5	1.323	2.297	8.2	19.6
5 1	13 3.88	+ 4 18.8	1.370	2.301	12.4	19.8
5 11	12 58.51	+ 4 35.7	1.437	2.305	16.3	20.1
5 21	12 55.75	+ 4 28.9	1.522	2.309	19.5	20.3

85412 1996 VS_{10} 4 11.3 264°.90 2°.4/13.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.57	−15 33.9	2.004	2.849	12.6	20.6
3 22	13 38.99	−15 45.0	1.906	2.827	9.4	20.4
4 1	13 30.32	−15 43.3	1.832	2.805	5.7	20.1
4 11	13 20.30	−15 29.7	1.786	2.783	2.6	19.9
4 21	13 9.91	−15 7.1	1.768	2.760	4.2	19.9
5 1	13 0.24	−14 39.9	1.779	2.737	8.1	20.1
5 11	12 52.25	−14 13.6	1.815	2.713	11.9	20.3
5 21	12 46.56	−13 53.1	1.873	2.689	15.3	20.5

71385 2000 AR_{151} 4 11.3 218°.34 3°.3/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.69	− 1 20.3	1.757	2.639	12.2	19.0
3 22	13 38.26	− 0 37.2	1.687	2.633	8.6	18.7
4 1	13 29.82	+ 0 9.0	1.643	2.627	4.8	18.5
4 11	13 20.28	+ 0 52.0	1.626	2.620	3.5	18.4
4 21	13 10.65	+ 1 25.8	1.637	2.613	6.6	18.6
5 1	13 2.02	+ 1 45.6	1.674	2.606	10.5	18.8
5 11	12 55.25	+ 1 48.5	1.735	2.598	14.2	19.0
5 21	12 50.83	+ 1 34.1	1.815	2.590	17.3	19.2

520019 2013 UH_{21} 4 11.3 193°.73 2°.2/13.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.26	−17 5.6	2.068	2.912	12.3	21.9
3 22	13 35.70	−16 43.3	1.990	2.911	9.1	21.7
4 1	13 28.43	−16 5.7	1.937	2.910	5.5	21.5
4 11	13 20.23	−15 15.7	1.911	2.909	2.4	21.3
4 21	13 11.97	−14 17.7	1.914	2.907	3.8	21.4
5 1	13 4.55	−13 17.8	1.945	2.905	7.3	21.6
5 11	12 58.71	−12 22.2	2.001	2.903	10.8	21.8
5 21	12 54.91	−11 35.8	2.079	2.901	13.8	22.0

152319 Pynchon 4 11.3 286°.37 3°.5/13.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 44.87	−17 25.7	1.699	2.547	14.3	19.9
3 22	13 38.71	−17 47.3	1.615	2.535	10.8	19.6
4 1	13 30.23	−17 52.9	1.553	2.523	7.0	19.4
4 11	13 20.30	−17 43.3	1.517	2.511	3.7	19.2
4 21	13 10.07	−17 21.1	1.508	2.499	4.9	19.2
5 1	13 0.78	−16 51.7	1.526	2.487	8.9	19.4
5 11	12 53.47	−16 21.7	1.568	2.476	12.9	19.6
5 21	12 48.78	−15 57.1	1.630	2.464	16.4	19.8

268141 2004 TL_{209} 4 11.3 283°.50 0°.1/11.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.26	−10 15.7	1.793	2.663	12.6	21.0
3 22	13 36.57	− 9 56.0	1.720	2.659	8.9	20.8
4 1	13 28.96	− 9 25.7	1.671	2.655	4.7	20.5
4 11	13 20.26	− 8 48.6	1.650	2.652	0.2	20.2
4 21	13 11.47	− 8 9.9	1.655	2.648	4.3	20.5
5 1	13 3.62	− 7 35.2	1.688	2.644	8.7	20.7
5 11	12 57.55	− 7 9.4	1.745	2.640	12.5	21.0
5 21	12 53.74	− 6 55.9	1.822	2.636	15.8	21.2

74703 1999 RN_{148} 4 11.3 239°.32 1°.0/12.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.78	−13 26.6	1.822	2.680	13.0	20.5
3 22	13 37.74	−12 58.8	1.735	2.667	9.4	20.3
4 1	13 29.63	−12 16.3	1.673	2.654	5.3	20.0
4 11	13 20.29	−11 22.7	1.639	2.640	1.2	19.7
4 21	13 10.74	−10 23.4	1.632	2.625	4.2	19.8
5 1	13 2.06	− 9 25.2	1.653	2.610	8.7	20.1
5 11	12 55.18	− 8 34.9	1.698	2.594	12.8	20.3
5 21	12 50.67	− 7 57.2	1.764	2.577	16.2	20.5

29598 1998 HB_{62} 4 11.3 57°.57 1°.0/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.93	− 7 9.5	2.110	2.984	10.8	18.7
3 22	13 34.62	− 6 38.4	2.048	2.991	7.5	18.5
4 1	13 27.81	− 6 0.8	2.012	2.998	3.8	18.3
4 11	13 20.23	− 5 20.8	2.003	3.005	1.0	18.1
4 21	13 12.68	− 4 43.2	2.024	3.012	4.2	18.3
5 1	13 5.95	− 4 12.4	2.071	3.019	7.8	18.5
5 11	13 0.70	− 3 51.9	2.144	3.026	11.1	18.7
5 21	12 57.32	− 3 43.5	2.237	3.034	13.8	18.9

82856 2001 QA_{57} 4 11.3 169°.13 3°.6/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.19	+ 2 33.4	2.661	3.539	8.7	20.2
3 22	13 33.86	+ 3 35.2	2.601	3.543	6.2	20.0
4 1	13 27.34	+ 4 36.3	2.570	3.546	4.1	19.9
4 11	13 20.22	+ 5 31.9	2.567	3.549	3.9	19.9
4 21	13 13.13	+ 6 17.5	2.594	3.551	5.8	20.0
5 1	13 6.69	+ 6 50.0	2.649	3.553	8.3	20.1
5 11	13 1.41	+ 7 7.5	2.728	3.554	10.7	20.3
5 21	12 57.65	+ 7 9.9	2.828	3.555	12.7	20.5

284845 2009 BG_{85} 4 11.3 220°.27 3°.9/ 7.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 38.92	+ 0 52.8	2.108	2.994	10.3	20.7
3 22	13 33.93	+ 2 1.7	2.047	2.993	7.2	20.5
4 1	13 27.47	+ 3 11.6	2.012	2.992	4.5	20.3
4 11	13 20.23	+ 4 16.2	2.006	2.992	4.2	20.3
4 21	13 13.00	+ 5 9.7	2.027	2.991	6.6	20.4
5 1	13 6.55	+ 5 47.6	2.075	2.990	9.7	20.6
5 11	13 1.54	+ 6 7.5	2.146	2.989	12.6	20.8
5 21	12 58.35	+ 6 9.2	2.237	2.989	15.1	21.0

83721 2001 TT_{97} 4 11.3 158°.27 1°.1/12.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.99	−12 39.0	2.345	3.198	10.7	19.7
3 22	13 36.02	−12 35.3	2.271	3.200	7.7	19.6
4 1	13 28.56	−12 22.1	2.223	3.202	4.3	19.3
4 11	13 20.27	−12 1.9	2.203	3.203	1.2	19.1
4 21	13 11.95	−11 37.7	2.212	3.205	3.3	19.3
5 1	13 4.36	−11 13.5	2.250	3.207	6.8	19.5
5 11	12 58.18	−10 53.3	2.314	3.208	9.9	19.7
5 21	12 53.83	−10 40.0	2.401	3.209	12.6	19.9

59998 1999 TS_{2} 4 11.3 231°.21 8°.2/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.23	+21 43.5	2.681	3.525	9.8	18.5
3 22	13 36.01	+22 38.6	2.632	3.517	8.6	18.4
4 1	13 28.48	+23 20.2	2.609	3.509	8.2	18.4
4 11	13 20.27	+23 43.1	2.611	3.501	8.7	18.4
4 21	13 12.11	+23 44.4	2.639	3.493	10.0	18.5
5 1	13 4.70	+23 23.2	2.691	3.485	11.6	18.6
5 11	12 58.61	+22 40.9	2.763	3.476	13.2	18.7
5 21	12 54.21	+21 40.4	2.852	3.467	14.7	18.8

476406 2008 CO_{207} 4 11.3 302°.40 5°.3/15.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.43	−23 43.2	2.229	3.036	12.8	21.8
3 22	13 38.12	−24 28.3	2.135	3.022	10.3	21.6
4 1	13 29.84	−24 57.9	2.065	3.008	7.6	21.4
4 11	13 20.33	−25 10.7	2.021	2.994	5.6	21.3
4 21	13 10.48	−25 7.4	2.005	2.981	5.7	21.2
5 1	13 1.32	−24 51.2	2.017	2.967	7.9	21.3
5 11	12 53.73	−24 27.2	2.054	2.954	10.7	21.5
5 21	12 48.30	−24 1.2	2.114	2.941	13.4	21.6

348938 2006 TV_{71} 4 11.3 127°.18 3°.4/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 39.53	+ 1 44.8	2.568	3.447	8.9	21.2
3 22	13 34.09	+ 2 35.8	2.515	3.457	6.3	21.1
4 1	13 27.46	+ 3 26.3	2.489	3.468	4.0	20.9
4 11	13 20.24	+ 4 11.5	2.493	3.478	3.6	20.9
4 21	13 13.09	+ 4 47.4	2.525	3.487	5.6	21.1
5 1	13 6.64	+ 5 11.0	2.585	3.497	8.2	21.3
5 11	13 1.42	+ 5 20.6	2.669	3.506	10.6	21.4
5 21	12 57.76	+ 5 16.3	2.775	3.515	12.7	21.6

32420 2000 RS_{40} 4 11.4 262°.52 3°.0/17.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 34.46	−26 21.6	4.639	5.414	7.1	19.2
3 22	13 30.35	−26 23.8	4.545	5.409	5.7	19.1
4 1	13 25.47	−26 16.2	4.476	5.404	4.3	19.0
4 11	13 20.18	−25 59.6	4.436	5.399	3.2	18.9
4 21	13 14.85	−25 35.1	4.424	5.394	3.1	18.9
5 1	13 9.85	−25 4.8	4.442	5.389	4.0	19.0
5 11	13 5.52	−24 31.1	4.487	5.384	5.4	19.1
5 21	13 2.13	−23 56.7	4.558	5.379	6.9	19.2

208926 2002 UO_{36} 4 11.4 134°.34 0°.1/11.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.58	−10 37.6	2.537	3.395	9.8	21.3
3 22	13 34.87	−10 6.3	2.473	3.407	6.9	21.1
4 1	13 27.89	− 9 26.9	2.435	3.418	3.6	20.9
4 11	13 20.26	− 8 42.9	2.427	3.429	0.2	20.7
4 21	13 12.69	− 7 58.2	2.448	3.439	3.3	21.0
5 1	13 5.83	− 7 17.1	2.499	3.449	6.5	21.2
5 11	13 0.26	− 6 43.1	2.576	3.459	9.4	21.4
5 21	12 56.31	− 6 18.9	2.675	3.468	11.9	21.6

403791 2011 SY_{190} 4 11.4 95°.48 1°.5/12.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 47.07	−13 39.8	1.558	2.418	14.7	21.3
3 22	13 39.94	−13 27.8	1.507	2.439	10.6	21.1
4 1	13 30.67	−13 1.0	1.479	2.459	5.9	20.9
4 11	13 20.36	−12 23.3	1.478	2.479	1.7	20.6
4 21	13 10.24	−11 40.3	1.505	2.499	4.5	20.9
5 1	13 1.47	−10 58.7	1.558	2.518	8.9	21.2
5 11	12 54.92	−10 24.7	1.636	2.536	12.9	21.4
5 21	12 50.99	−10 2.4	1.734	2.555	16.2	21.7

36870 2000 SU_{150} 4 11.4 352°.68 0°.9/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.65	−12 41.3	1.127	2.016	16.9	17.6
3 22	13 35.53	−12 13.9	1.064	2.011	12.1	17.3
4 1	13 28.70	−11 26.8	1.021	2.007	6.6	17.0
4 11	13 20.30	−10 25.8	1.002	2.004	1.1	16.6
4 21	13 11.77	− 9 19.7	1.006	2.001	5.5	16.9
5 1	13 4.61	− 8 18.8	1.033	2.000	11.2	17.2
5 11	12 59.97	− 7 32.3	1.080	2.000	16.3	17.5
5 21	12 58.42	− 7 5.2	1.145	2.001	20.6	17.7

174592 2003 QR_{53} 4 11.4 294°.15 0°.5/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.17	−11 5.8	1.411	2.287	15.0	20.4
3 22	13 38.67	−10 52.3	1.318	2.260	10.8	20.1
4 1	13 30.43	−10 24.1	1.248	2.232	5.9	19.7
4 11	13 20.37	− 9 44.7	1.202	2.204	0.7	19.2
4 21	13 9.74	− 8 59.9	1.183	2.176	5.4	19.5
5 1	13 0.03	− 8 17.5	1.188	2.148	10.9	19.7
5 11	12 52.52	− 7 45.2	1.215	2.121	16.0	19.9
5 21	12 48.02	− 7 28.3	1.261	2.093	20.4	20.1

501123 2013 TX_{23} 4 11.4 224°.69 1°.1/12.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.76	−13 26.8	2.129	2.982	11.6	22.6
3 22	13 36.77	−13 6.1	2.044	2.973	8.4	22.4
4 1	13 29.04	−12 33.3	1.984	2.964	4.7	22.2
4 11	13 20.32	−11 51.3	1.953	2.954	1.2	21.9
4 21	13 11.45	−11 4.4	1.950	2.943	3.7	22.0
5 1	13 3.36	−10 18.0	1.976	2.933	7.6	22.3
5 11	12 56.81	− 9 37.4	2.028	2.921	11.1	22.5
5 21	12 52.28	− 9 6.5	2.101	2.910	14.2	22.6

351514 2005 SW_{47} 4 11.4 213°.22 1°.2/12.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.17	−14 7.1	2.924	3.767	9.1	21.6
3 22	13 34.58	−13 55.4	2.837	3.760	6.6	21.4
4 1	13 27.77	−13 34.7	2.777	3.753	3.8	21.2
4 11	13 20.27	−13 7.1	2.746	3.745	1.3	21.0
4 21	13 12.70	−12 35.2	2.745	3.737	2.8	21.1
5 1	13 5.67	−12 2.6	2.774	3.729	5.7	21.3
5 11	12 59.74	−11 32.8	2.830	3.720	8.4	21.5
5 21	12 55.27	−11 8.7	2.909	3.711	10.8	21.6

100290 1995 CL_{6} 4 11.4 193°.33 2°.5/ 8.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.78	− 3 56.1	2.025	2.903	11.0	20.6
3 22	13 36.01	− 2 55.4	1.957	2.902	7.6	20.4
4 1	13 28.60	− 1 49.1	1.915	2.900	4.1	20.2
4 11	13 20.30	− 0 43.3	1.901	2.897	2.6	20.1
4 21	13 11.98	+ 0 16.0	1.916	2.894	5.6	20.3
5 1	13 4.52	+ 1 3.2	1.958	2.891	9.2	20.5
5 11	12 58.61	+ 1 34.7	2.025	2.887	12.5	20.7
5 21	12 54.70	+ 1 49.1	2.112	2.882	15.3	20.9

49732 1999 VX_{85} 4 11.4 290°.75 1°.2/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 43.26	−13 23.6	1.247	2.125	16.4	19.4
3 22	13 38.20	−12 59.5	1.163	2.104	12.0	19.1
4 1	13 30.24	−12 15.0	1.099	2.082	6.8	18.7
4 11	13 20.37	−11 14.1	1.059	2.061	1.4	18.3
4 21	13 10.01	−10 4.2	1.044	2.039	5.6	18.5
5 1	13 0.75	− 8 55.7	1.053	2.018	11.5	18.7
5 11	12 53.97	− 7 58.7	1.083	1.996	16.9	19.0
5 21	12 50.43	− 7 20.2	1.131	1.975	21.5	19.2

341798 2007 XU_{22} 4 11.4 88°.37 1°.1/12.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.63	−14 9.7	2.272	3.124	11.0	21.2
3 22	13 35.01	−13 44.1	2.214	3.142	7.9	21.1
4 1	13 27.99	−13 7.4	2.181	3.160	4.5	20.9
4 11	13 20.29	−12 22.7	2.177	3.178	1.3	20.7
4 21	13 12.67	−11 34.5	2.202	3.195	3.3	20.9
5 1	13 5.90	−10 47.6	2.255	3.213	6.7	21.1
5 11	13 0.56	−10 6.6	2.334	3.230	9.8	21.3
5 21	12 57.01	− 9 34.8	2.436	3.247	12.4	21.5

51825 Davidbrown 4 11.4 140°.59 0°.2/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.45	− 8 50.0	2.255	3.119	10.6	19.1
3 22	13 36.36	− 8 38.0	2.186	3.123	7.4	18.9
4 1	13 28.75	− 8 19.0	2.143	3.127	3.9	18.7
4 11	13 20.33	− 7 56.0	2.129	3.131	0.2	18.4
4 21	13 11.91	− 7 32.7	2.144	3.135	3.7	18.7
5 1	13 4.28	− 7 12.9	2.188	3.139	7.3	18.9
5 11	12 58.10	− 6 59.9	2.257	3.143	10.5	19.1
5 21	12 53.78	− 6 56.1	2.349	3.146	13.2	19.3

153636 2001 TS_{73} 4 11.4 124°.49 0°.4/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.80	− 9 51.5	2.110	2.974	11.3	21.4
3 22	13 36.57	− 9 8.0	2.053	2.990	7.8	21.2
4 1	13 28.82	− 8 15.4	2.022	3.006	4.0	21.0
4 11	13 20.33	− 7 18.4	2.020	3.022	0.4	20.7
4 21	13 11.95	− 6 22.3	2.047	3.036	4.0	21.0
5 1	13 4.50	− 5 32.4	2.102	3.051	7.7	21.3
5 11	12 58.62	− 4 53.0	2.183	3.064	10.9	21.5
5 21	12 54.68	− 4 26.6	2.285	3.077	13.6	21.7

380579 2004 RP_{183} 4 11.4 150°.75 6°.2/17.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.35	−28 46.5	2.193	2.974	13.8	21.1
3 22	13 37.94	−29 3.2	2.115	2.980	11.3	20.9
4 1	13 29.68	−28 58.4	2.061	2.986	8.7	20.7
4 11	13 20.37	−28 31.9	2.031	2.992	6.7	20.6
4 21	13 11.00	−27 45.9	2.029	2.997	6.3	20.6
5 1	13 2.54	−26 45.8	2.054	3.002	7.9	20.7
5 11	12 55.81	−25 38.7	2.105	3.006	10.4	20.9
5 21	12 51.29	−24 31.8	2.179	3.010	12.9	21.0

456801 2007 TA_{259} 4 11.4 83°.13 1°.4/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 47.04	−12 29.8	1.457	2.324	15.2	21.3
3 22	13 40.14	−12 32.9	1.401	2.336	10.9	21.1
4 1	13 30.89	−12 22.2	1.368	2.349	6.1	20.8
4 11	13 20.42	−12 0.8	1.360	2.361	1.6	20.5
4 21	13 10.02	−11 33.8	1.380	2.373	4.7	20.8
5 1	13 0.98	−11 7.3	1.425	2.386	9.4	21.1
5 11	12 54.26	−10 47.3	1.494	2.398	13.7	21.4
5 21	12 50.33	−10 37.9	1.582	2.410	17.2	21.6

419554 2010 PA_{52} 4 11.4 101°.04 4°.1/14.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 49.90	−19 14.4	1.810	2.639	14.4	21.0
3 22	13 41.89	−19 49.9	1.750	2.657	10.9	20.8
4 1	13 31.74	−20 8.6	1.714	2.676	7.2	20.6
4 11	13 20.45	−20 10.7	1.705	2.694	4.4	20.5
4 21	13 9.20	−19 58.6	1.725	2.711	5.1	20.6
5 1	12 59.17	−19 37.3	1.772	2.728	8.3	20.8
5 11	12 51.25	−19 13.2	1.845	2.745	11.7	21.0
5 21	12 45.93	−18 51.9	1.939	2.761	14.7	21.3

153662 2001 TY_{150} 4 11.4 120°.62 4°.2/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.59	+ 1 45.3	1.785	2.669	12.0	19.9
3 22	13 38.05	+ 2 24.1	1.730	2.675	8.5	19.7
4 1	13 29.68	+ 3 1.8	1.701	2.681	5.2	19.5
4 11	13 20.37	+ 3 32.5	1.698	2.687	4.4	19.5
4 21	13 11.15	+ 3 51.2	1.724	2.693	7.1	19.7
5 1	13 2.99	+ 3 54.2	1.775	2.699	10.6	19.9
5 11	12 56.67	+ 3 40.4	1.849	2.704	13.8	20.1
5 21	12 52.61	+ 3 10.4	1.943	2.709	16.6	20.3

498852 2008 XZ_{32} 4 11.4 250°.96 0°.8/10.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.66	− 7 31.8	2.063	2.934	11.1	21.5
3 22	13 36.00	− 7 4.4	1.985	2.926	7.8	21.3
4 1	13 28.65	− 6 29.4	1.932	2.918	4.0	21.0
4 11	13 20.34	− 5 51.0	1.908	2.909	0.9	20.8
4 21	13 11.93	− 5 13.9	1.912	2.901	4.4	21.0
5 1	13 4.31	− 4 42.9	1.943	2.892	8.2	21.2
5 11	12 58.21	− 4 21.9	2.000	2.883	11.7	21.4
5 21	12 54.11	− 4 13.3	2.078	2.874	14.7	21.6

308982 2006 TK_{124} 4 11.4 236°.07 0°.8/12.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 41.55	−12 1.4	2.437	3.291	10.3	21.4
3 22	13 35.75	−11 53.7	2.354	3.284	7.4	21.2
4 1	13 28.46	−11 37.1	2.296	3.276	4.1	21.0
4 11	13 20.33	−11 13.9	2.267	3.268	0.9	20.7
4 21	13 12.10	−10 47.3	2.267	3.260	3.3	20.9
5 1	13 4.53	−10 21.2	2.297	3.252	6.7	21.1
5 11	12 58.27	− 9 59.5	2.352	3.243	9.9	21.3
5 21	12 53.78	− 9 45.1	2.430	3.235	12.6	21.4

293848 2007 RY_{228} 4 11.4 183°.43 3°.5/ 8.3 18

3 12	13 43.49	− 2 25.7	1.690	2.574	12.5	20.8
3 22	13 37.44	− 1 15.7	1.628	2.575	8.7	20.6
4 1	13 29.43	− 0 0.6	1.591	2.575	4.9	20.4
4 11	13 20.37	+ 1 11.9	1.581	2.575	3.7	20.3
4 21	13 11.31	+ 2 14.1	1.599	2.574	6.9	20.5
5 1	13 3.31	+ 2 59.9	1.643	2.572	10.9	20.7
5 11	12 57.18	+ 3 25.6	1.710	2.571	14.5	20.9
5 21	12 53.40	+ 3 30.8	1.795	2.568	17.5	21.1

235194 2003 SR_{134} 4 11.4 123°.79 0°.3/11.0 18

3 12	13 42.08	− 9 0.3	2.060	2.927	11.3	20.8
3 22	13 36.19	− 8 35.2	1.995	2.934	7.9	20.6
4 1	13 28.69	− 8 1.9	1.956	2.940	4.1	20.4
4 11	13 20.35	− 7 24.3	1.945	2.947	0.3	20.1
4 21	13 12.02	− 6 47.0	1.962	2.953	4.0	20.4
5 1	13 4.58	− 6 14.7	2.008	2.959	7.8	20.6
5 11	12 58.70	− 5 51.4	2.078	2.965	11.2	20.8
5 21	12 54.80	− 5 39.5	2.170	2.970	14.0	21.0

123537 2000 XE_{18} 4 11.4 176°.40 1°.2/10.3 18

3 12	13 45.38	− 5 17.6	2.360	3.224	10.2	20.3
3 22	13 38.34	− 5 5.2	2.288	3.226	7.1	20.1
4 1	13 29.78	− 4 48.7	2.243	3.228	3.7	19.8
4 11	13 20.39	− 4 31.2	2.228	3.229	1.2	19.7
4 21	13 10.98	− 4 16.1	2.244	3.230	4.1	19.9
5 1	13 2.36	− 4 6.6	2.288	3.230	7.6	20.1
5 11	12 55.20	− 4 5.4	2.359	3.229	10.7	20.3
5 21	12 49.92	− 4 13.9	2.452	3.228	13.3	20.5

18045 1999 RR_{100} 4 11.4 31°.70 7°.7/19.8 18

3 12	13 40.61	−32 52.2	2.025	2.792	15.3	17.0
3 22	13 35.48	−33 12.8	1.953	2.800	12.9	16.8
4 1	13 28.44	−33 8.0	1.902	2.808	10.4	16.7
4 11	13 20.34	−32 37.0	1.874	2.818	8.4	16.6
4 21	13 12.20	−31 42.3	1.871	2.827	7.7	16.6
5 1	13 5.05	−30 29.7	1.894	2.837	8.8	16.6
5 11	12 59.71	−29 7.4	1.942	2.847	10.9	16.8
5 21	12 56.66	−27 43.7	2.012	2.858	13.3	17.0

392134 2009 FR_{75} 4 11.4 55°.02 0°.5/11.9 17

3 12	13 39.75	−12 19.9	1.971	2.835	11.9	20.7
3 22	13 34.56	−11 46.5	1.916	2.852	8.4	20.5
4 1	13 27.82	−11 1.7	1.886	2.869	4.5	20.3
4 11	13 20.32	−10 10.0	1.884	2.885	0.7	20.0
4 21	13 12.92	− 9 16.5	1.909	2.902	3.7	20.3
5 1	13 6.45	− 8 27.0	1.962	2.920	7.5	20.5
5 11	13 1.56	− 7 46.4	2.040	2.937	10.9	20.8
5 21	12 58.62	− 7 17.6	2.140	2.954	13.7	21.0

302877 2003 HG_{51} 4 11.4 309°.61 3°.7/ 7.5 17

3 12	13 39.27	+ 1 18.4	2.127	3.012	10.2	20.3
3 22	13 34.26	+ 2 5.9	2.056	3.002	7.2	20.1
4 1	13 27.72	+ 2 54.0	2.011	2.991	4.5	19.9
4 11	13 20.32	+ 3 37.1	1.993	2.981	4.0	19.8
4 21	13 12.86	+ 4 10.1	2.003	2.971	6.4	20.0
5 1	13 6.13	+ 4 29.1	2.040	2.961	9.5	20.1
5 11	13 0.82	+ 4 31.9	2.100	2.951	12.5	20.3
5 21	12 57.36	+ 4 18.4	2.180	2.942	15.1	20.5

7310 1995 OL_{1} 4 11.4 314°.17 1°.7/12.6 18

3 12	13 41.46	−13 39.5	1.540	2.409	14.4	17.7
3 22	13 36.47	−13 33.1	1.455	2.391	10.5	17.4
4 1	13 29.15	−13 11.3	1.393	2.374	6.0	17.1
4 11	13 20.38	−12 36.9	1.356	2.356	1.8	16.7
4 21	13 11.29	−11 54.9	1.345	2.340	4.6	16.9
5 1	13 3.14	−11 12.2	1.360	2.323	9.5	17.1
5 11	12 57.00	−10 35.8	1.397	2.307	14.0	17.3
5 21	12 53.51	−10 11.3	1.454	2.292	17.9	17.5

64417 2001 UA_{178} 4 11.4 57°.32 0°.4/11.7 18

3 12	13 41.59	−12 1.3	1.576	2.449	13.9	19.2
3 22	13 36.16	−11 25.2	1.521	2.460	9.8	19.0
4 1	13 28.77	−10 35.3	1.488	2.472	5.2	18.8
4 11	13 20.36	− 9 37.0	1.482	2.484	0.6	18.4
4 21	13 12.05	− 8 37.0	1.503	2.496	4.5	18.8
5 1	13 4.89	− 7 42.5	1.550	2.509	9.0	19.1
5 11	12 59.70	− 6 59.8	1.620	2.521	13.0	19.3
5 21	12 56.89	− 6 32.1	1.711	2.534	16.3	19.6

59307 1999 CT_{79} 4 11.4 69°.79 2°.4/13.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 43.45	−16 35.2	1.330	2.195	16.4	18.2
3 22	13 37.80	−16 7.2	1.273	2.206	12.0	18.0
4 1	13 29.73	−15 17.9	1.239	2.217	7.1	17.7
4 11	13 20.40	−14 11.9	1.228	2.228	2.7	17.5
4 21	13 11.15	−12 57.3	1.244	2.239	4.9	17.6
5 1	13 3.30	−11 43.7	1.284	2.250	9.7	17.9
5 11	12 57.83	−10 40.3	1.347	2.261	14.2	18.2
5 21	12 55.19	− 9 52.8	1.430	2.272	17.9	18.5

269499 2009 UD_{53} 4 11.4 200°.84 0°.3/11.6 17

3 12	13 43.86	−10 19.2	1.803	2.670	12.7	20.4
3 22	13 37.70	−10 10.1	1.732	2.670	9.0	20.1
4 1	13 29.59	− 9 51.0	1.686	2.669	4.8	19.9
4 11	13 20.40	− 9 25.2	1.667	2.669	0.4	19.5
4 21	13 11.13	− 8 57.2	1.676	2.668	4.2	19.8
5 1	13 2.84	− 8 32.1	1.712	2.668	8.5	20.1
5 11	12 56.37	− 8 14.6	1.772	2.667	12.3	20.3
5 21	12 52.19	− 8 7.8	1.853	2.667	15.6	20.5

124209 2001 OM_{98} 4 11.4 179°.53 3°.6/ 8.1 18

3 12	13 45.19	− 1 7.3	1.867	2.746	11.8	20.8
3 22	13 38.48	− 0 1.1	1.804	2.748	8.2	20.5
4 1	13 29.93	+ 1 8.4	1.768	2.750	4.8	20.3
4 11	13 20.41	+ 2 14.0	1.759	2.750	3.8	20.3
4 21	13 10.91	+ 3 9.1	1.779	2.750	6.7	20.5
5 1	13 2.41	+ 3 48.5	1.826	2.749	10.4	20.7
5 11	12 55.68	+ 4 9.1	1.897	2.747	13.7	20.9
5 21	12 51.19	+ 4 10.7	1.987	2.744	16.6	21.1

156969 2003 HK_{44} 4 11.4 332°.06 2°.3/ 9.4 17

3 12	13 40.41	− 5 5.6	1.562	2.450	13.1	20.0
3 22	13 35.48	− 4 15.5	1.494	2.444	9.1	19.7
4 1	13 28.50	− 3 17.5	1.451	2.438	4.7	19.5
4 11	13 20.36	− 2 18.4	1.434	2.433	2.5	19.3
4 21	13 12.15	− 1 25.6	1.443	2.428	6.2	19.5
5 1	13 4.97	− 0 45.7	1.478	2.423	10.6	19.7
5 11	12 59.70	− 0 23.1	1.535	2.419	14.5	20.0
5 21	12 56.83	− 0 19.6	1.610	2.415	17.9	20.2

437747 2014 FH_{11} 4 11.4 96°.01 1°.3/ 9.9 17

3 12	13 39.43	− 6 33.3	2.244	3.118	10.3	21.6
3 22	13 34.21	− 5 46.7	2.185	3.128	7.1	21.4
4 1	13 27.62	− 4 54.0	2.152	3.138	3.6	21.2
4 11	13 20.34	− 4 0.0	2.148	3.149	1.4	21.0
4 21	13 13.12	− 3 9.7	2.173	3.159	4.3	21.3
5 1	13 6.68	− 2 27.5	2.226	3.169	7.7	21.5
5 11	13 1.63	− 1 57.0	2.304	3.178	10.7	21.7
5 21	12 58.31	− 1 39.8	2.403	3.188	13.3	21.9

135665 2002 NO_{13} 4 11.4 213°.32 1°.5/ 9.9 17

3 12	13 43.15	− 6 42.2	1.979	2.851	11.5	20.9
3 22	13 37.09	− 5 52.5	1.902	2.844	8.0	20.6
4 1	13 29.25	− 4 54.6	1.851	2.837	4.1	20.4
4 11	13 20.40	− 3 53.8	1.828	2.828	1.6	20.2
4 21	13 11.46	− 2 56.0	1.834	2.820	5.0	20.4
5 1	13 3.37	− 2 7.2	1.868	2.810	9.0	20.6
5 11	12 56.91	− 1 32.0	1.927	2.800	12.5	20.8
5 21	12 52.55	− 1 12.5	2.006	2.789	15.6	21.0

305947 2009 HH_{18} 4 11.4 183°.83 0°.7/10.5 17

3 12	13 38.08	− 8 59.0	2.385	3.254	9.9	21.3
3 22	13 33.28	− 8 3.3	2.314	3.254	6.9	21.1
4 1	13 27.15	− 6 59.2	2.269	3.254	3.5	20.9
4 11	13 20.32	− 5 51.2	2.252	3.254	0.8	20.7
4 21	13 13.49	− 4 44.7	2.265	3.253	3.9	20.9
5 1	13 7.34	− 3 44.8	2.307	3.253	7.3	21.1
5 11	13 2.46	− 2 55.8	2.374	3.252	10.3	21.3
5 21	12 59.22	− 2 20.1	2.463	3.252	12.9	21.5

85586 1998 FP_{8} 4 11.4 216°.56 0°.4/11.7 18

3 12	13 45.07	−10 14.9	2.268	3.124	10.9	19.9
3 22	13 38.31	−10 11.0	2.184	3.116	7.7	19.7
4 1	13 29.87	− 9 59.0	2.126	3.108	4.2	19.5
4 11	13 20.44	− 9 41.4	2.098	3.100	0.5	19.2
4 21	13 10.87	− 9 21.4	2.099	3.090	3.7	19.4
5 1	13 2.05	− 9 2.9	2.129	3.081	7.4	19.6
5 11	12 54.72	− 8 49.7	2.185	3.071	10.8	19.8
5 21	12 49.35	− 8 44.6	2.264	3.060	13.6	20.0

131565 2001 VX_{48} 4 11.4 130°.11 2°.7/ 9.1 18

3 12	13 45.37	− 3 57.0	1.647	2.528	13.0	19.9
3 22	13 38.69	− 3 1.8	1.595	2.540	8.9	19.6
4 1	13 30.05	− 2 1.2	1.567	2.553	4.8	19.4
4 11	13 20.45	− 1 2.1	1.567	2.564	2.8	19.3
4 21	13 10.98	− 0 11.5	1.595	2.576	6.2	19.5
5 1	13 2.70	+ 0 25.2	1.649	2.586	10.3	19.8
5 11	12 56.42	+ 0 44.4	1.726	2.596	13.9	20.1
5 21	12 52.54	+ 0 45.6	1.823	2.605	16.9	20.3

292765 2006 UR_{192} 4 11.4 152°.57 2°.8/14.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 41.29	−19 17.8	2.557	3.383	10.8	21.0
3 22	13 35.52	−19 17.1	2.480	3.387	8.2	20.8
4 1	13 28.34	−19 3.4	2.428	3.391	5.3	20.6
4 11	13 20.39	−18 38.0	2.405	3.395	3.0	20.5
4 21	13 12.40	−18 3.8	2.410	3.399	3.6	20.5
5 1	13 5.11	−17 24.8	2.444	3.402	6.2	20.7
5 11	12 59.13	−16 45.9	2.505	3.406	9.0	20.9
5 21	12 54.88	−16 11.0	2.589	3.408	11.5	21.0

196856 2003 SF_{268} 4 11.4 258°.78 1°.2/12.6 18

3 12	13 40.84	−14 6.1	2.019	2.876	12.0	20.3
3 22	13 35.51	−13 41.2	1.938	2.868	8.7	20.1
4 1	13 28.45	−13 2.9	1.881	2.860	4.9	19.9
4 11	13 20.40	−12 14.4	1.851	2.852	1.4	19.6
4 21	13 12.23	−11 20.7	1.850	2.844	3.8	19.8
5 1	13 4.85	−10 27.5	1.876	2.835	7.7	20.0
5 11	12 59.05	− 9 40.6	1.928	2.827	11.3	20.2
5 21	12 55.28	− 9 4.3	2.001	2.818	14.4	20.4

19841 2000 SO_{280} 4 11.4 125°.11 1°.5/12.8 18

3 12	13 42.87	−14 29.5	1.949	2.802	12.5	19.6
3 22	13 36.88	−14 13.5	1.882	2.810	9.1	19.4
4 1	13 29.12	−13 44.1	1.839	2.817	5.2	19.2
4 11	13 20.42	−13 4.6	1.824	2.824	1.7	19.0
4 21	13 11.73	−12 19.5	1.837	2.830	3.8	19.1
5 1	13 3.98	−11 34.6	1.877	2.837	7.7	19.4
5 11	12 57.93	−10 55.3	1.943	2.843	11.2	19.6
5 21	12 54.02	−10 25.6	2.031	2.849	14.2	19.8

126818 2002 EE_{52} 4 11.4 348°.86 2°.8/12.9 17

3 12	13 43.26	−13 53.5	1.360	2.232	15.7	19.1
3 22	13 37.92	−14 27.0	1.288	2.223	11.6	18.8
4 1	13 29.98	−14 46.5	1.237	2.216	7.0	18.5
4 11	13 20.46	−14 53.0	1.212	2.210	3.0	18.2
4 21	13 10.68	−14 49.3	1.211	2.205	5.2	18.4
5 1	13 2.06	−14 40.9	1.234	2.201	9.9	18.6
5 11	12 55.75	−14 33.9	1.280	2.198	14.4	18.9
5 21	12 52.40	−14 33.6	1.345	2.196	18.3	19.1

208960 2002 XC_{14} 4 11.4 6°.48 14°.4/28.8 18

3 12	13 40.31	−47 21.2	1.704	2.381	20.8	18.5
3 22	13 36.15	−48 26.4	1.633	2.383	19.1	18.3
4 1	13 29.14	−48 54.5	1.576	2.385	17.4	18.2
4 11	13 20.42	−48 40.4	1.536	2.389	15.8	18.1
4 21	13 11.50	−47 43.2	1.514	2.394	14.7	18.0
5 1	13 3.97	−46 7.5	1.512	2.400	14.4	18.0
5 11	12 59.08	−44 3.6	1.531	2.407	15.1	18.1
5 21	12 57.43	−41 44.4	1.571	2.415	16.5	18.2

649 Josefa 4 11.4 241°.44 3°.0/13.9 18

3 12	13 46.03	−18 5.1	2.234	3.063	12.0	17.6
3 22	13 39.19	−18 15.0	2.136	3.046	9.1	17.4
4 1	13 30.44	−18 11.2	2.062	3.028	5.9	17.1
4 11	13 20.49	−17 54.3	2.016	3.009	3.2	16.9
4 21	13 10.23	−17 26.8	2.000	2.989	4.1	17.0
5 1	13 0.66	−16 52.9	2.012	2.969	7.4	17.1
5 11	12 52.63	−16 18.1	2.051	2.948	10.9	17.3
5 21	12 46.72	−15 47.5	2.113	2.926	13.9	17.5

173273 1999 SZ_4 4 11.4 254°.02 3°.7/14.1 18

3 12	13 48.04	−18 48.7	1.910	2.741	13.7	20.2
3 22	13 40.96	−19 8.8	1.809	2.719	10.5	19.9
4 1	13 31.52	−19 13.1	1.732	2.697	6.9	19.7
4 11	13 20.53	−19 1.5	1.683	2.674	4.0	19.4
4 21	13 9.07	−18 36.1	1.661	2.650	4.9	19.4
5 1	12 58.36	−18 1.6	1.668	2.625	8.6	19.6
5 11	12 49.49	−17 24.7	1.700	2.599	12.5	19.8
5 21	12 43.16	−16 51.7	1.753	2.573	16.1	19.9

150784 2001 RG_6 4 11.4 139°.33 10°.3/23.4 17

3 12	13 46.14	−41 29.2	2.099	2.795	16.8	20.0
3 22	13 39.55	−41 59.9	2.021	2.803	14.9	19.9
4 1	13 30.67	−42 0.4	1.962	2.810	12.9	19.8
4 11	13 20.49	−41 28.0	1.925	2.818	11.2	19.7
4 21	13 10.24	−40 23.8	1.911	2.824	10.3	19.6
5 1	13 1.18	−38 53.0	1.921	2.831	10.7	19.7
5 11	12 54.29	−37 5.0	1.956	2.837	12.0	19.7
5 21	12 50.08	−35 10.2	2.013	2.843	13.9	19.9

392167 2009 JC_7 4 11.4 268°.37 1°.9/ 8.9 16

3 12	13 38.15	− 4 29.4	2.525	3.400	9.2	21.6
3 22	13 33.37	− 3 31.7	2.437	3.382	6.4	21.4
4 1	13 27.26	− 2 28.4	2.377	3.363	3.4	21.1
4 11	13 20.38	− 1 24.0	2.346	3.343	2.1	21.0
4 21	13 13.38	− 0 23.7	2.345	3.324	4.6	21.2
5 1	13 6.95	+ 0 27.8	2.372	3.304	7.8	21.3
5 11	13 1.69	+ 1 6.8	2.424	3.284	10.7	21.5
5 21	12 58.00	+ 1 31.5	2.497	3.264	13.3	21.6

467387 2004 VK_{37} 4 11.4 240°.49 3°.2/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 44.31	+ 0 42.1	2.349	3.222	9.9	22.1
3 22	13 37.75	+ 1 16.9	2.265	3.205	7.0	21.9
4 1	13 29.58	+ 1 52.6	2.207	3.187	4.2	21.7
4 11	13 20.47	+ 2 24.4	2.178	3.168	3.4	21.6
4 21	13 11.21	+ 2 48.1	2.179	3.149	5.8	21.7
5 1	13 2.63	+ 3 0.1	2.209	3.129	8.9	21.9
5 11	12 55.43	+ 2 58.3	2.263	3.108	12.0	22.1
5 21	12 50.09	+ 2 42.3	2.338	3.087	14.6	22.2

89495 2001 XX_{40} 4 11.4 275°.55 5°.2/ 7.4 18

3 12	13 46.08	+ 4 39.9	1.830	2.710	11.9	18.6
3 22	13 39.38	+ 5 14.2	1.749	2.689	8.7	18.4
4 1	13 30.58	+ 5 45.5	1.693	2.668	5.9	18.1
4 11	13 20.51	+ 6 7.6	1.664	2.646	5.4	18.1
4 21	13 10.22	+ 6 15.0	1.663	2.625	8.0	18.2
5 1	13 0.80	+ 6 4.4	1.688	2.602	11.6	18.3
5 11	12 53.17	+ 5 34.5	1.736	2.580	15.0	18.5
5 21	12 47.92	+ 4 46.6	1.803	2.558	18.1	18.7

247894 2003 UN_{236} 4 11.4 187°.01 1°.3/10.1 16

3 12	13 43.81	− 7 10.9	1.969	2.840	11.6	21.9
3 22	13 37.52	− 6 22.9	1.898	2.840	8.1	21.7
4 1	13 29.48	− 5 26.7	1.853	2.839	4.1	21.5
4 11	13 20.47	− 4 27.4	1.837	2.837	1.4	21.3
4 21	13 11.43	− 3 31.0	1.849	2.835	4.8	21.5
5 1	13 3.30	− 2 43.3	1.889	2.832	8.8	21.7
5 11	12 56.83	− 2 8.7	1.954	2.829	12.3	21.9
5 21	12 52.48	− 1 49.4	2.040	2.824	15.3	22.1

287566 2003 FG_{22} 4 11.4 43°.90 0°.9/12.1 17

3 12	13 44.88	−10 46.0	1.830	2.693	12.7	19.8
3 22	13 38.25	−11 1.7	1.778	2.712	9.0	19.6
4 1	13 29.81	−11 8.1	1.750	2.732	4.9	19.4
4 11	13 20.49	−11 7.5	1.751	2.752	1.0	19.2
4 21	13 11.28	−11 3.2	1.779	2.772	3.9	19.4
5 1	13 3.16	−10 59.1	1.835	2.793	7.9	19.7
5 11	12 56.88	−10 59.0	1.916	2.814	11.4	20.0
5 21	12 52.86	−11 5.5	2.018	2.835	14.3	20.2

159605 2001 YB_{97} 4 11.4 111°.11 0°.7/10.9 18

3 12	13 44.29	− 9 26.3	1.437	2.316	14.6	20.5
3 22	13 38.27	− 8 44.8	1.379	2.323	10.2	20.3
4 1	13 29.98	− 7 50.8	1.343	2.329	5.3	20.0
4 11	13 20.50	− 6 50.5	1.334	2.336	0.7	19.7
4 21	13 11.06	− 5 51.5	1.351	2.342	5.4	20.0
5 1	13 2.90	− 5 1.6	1.394	2.348	10.2	20.3
5 11	12 56.94	− 4 26.6	1.459	2.354	14.5	20.6
5 21	12 53.65	− 4 9.3	1.543	2.360	18.0	20.8

191356 2003 QW_{75} 4 11.4 192°.51 0°.9/12.4 18

3 12	13 40.73	−14 1.8	2.383	3.233	10.6	20.5
3 22	13 35.19	−13 26.0	2.303	3.231	7.7	20.3
4 1	13 28.21	−12 38.4	2.250	3.229	4.3	20.1
4 11	13 20.44	−11 42.4	2.226	3.226	1.1	19.8
4 21	13 12.62	−10 42.5	2.230	3.223	3.3	20.0
5 1	13 5.52	− 9 43.9	2.264	3.220	6.8	20.2
5 11	12 59.77	− 8 51.6	2.324	3.216	10.0	20.4
5 21	12 55.78	− 8 9.4	2.408	3.212	12.7	20.6

204214 2004 CW_{58} 4 11.4 318°.82 9°.2/ 1.2 18 R

3 12	13 38.86	+13 59.5	1.739	2.624	12.1	18.8
3 22	13 34.35	+15 37.8	1.678	2.604	10.1	18.7
4 1	13 27.94	+17 6.1	1.640	2.583	9.2	18.5
4 11	13 20.43	+18 14.9	1.628	2.563	10.1	18.6
4 21	13 12.79	+18 56.8	1.639	2.544	12.3	18.6
5 1	13 6.05	+19 7.9	1.672	2.525	15.0	18.8
5 11	13 1.02	+18 48.5	1.724	2.507	17.7	18.9
5 21	12 58.23	+18 1.6	1.791	2.489	20.0	19.0

166776 2002 VZ_{19} 4 11.4 175°.22 0°.7/10.6 18

3 12	13 40.60	− 7 49.9	2.554	3.418	9.5	21.2
3 22	13 34.97	− 7 17.3	2.482	3.420	6.6	21.0
4 1	13 28.05	− 6 38.5	2.437	3.422	3.4	20.8
4 11	13 20.43	− 5 56.8	2.421	3.423	0.7	20.6
4 21	13 12.81	− 5 16.4	2.436	3.424	3.6	20.9
5 1	13 5.85	− 4 41.2	2.479	3.424	6.9	21.1
5 11	13 0.14	− 4 14.5	2.548	3.424	9.8	21.2
5 21	12 56.05	− 3 58.3	2.640	3.424	12.2	21.4

109088 2001 QL_{29} 4 11.4 160°.31 0°.4/11.8 18

3 12	13 43.57	−11 35.2	2.389	3.241	10.5	20.6
3 22	13 37.10	−11 8.9	2.319	3.250	7.5	20.4
4 1	13 29.17	−10 33.3	2.276	3.257	4.0	20.2
4 11	13 20.48	− 9 51.6	2.262	3.263	0.5	19.9
4 21	13 11.80	− 9 7.9	2.277	3.269	3.4	20.2
5 1	13 3.91	− 8 26.7	2.322	3.274	6.9	20.4
5 11	12 57.45	− 7 52.2	2.394	3.279	10.0	20.6
5 21	12 52.80	− 7 27.3	2.489	3.282	12.6	20.8

39589 1993 FL_{75} 4 11.4 168°.85 0°.5/11.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 41.39	−12 7.5	1.935	2.798	12.1	19.7
3 22	13 35.89	−11 36.9	1.864	2.799	8.6	19.5
4 1	13 28.64	−10 54.3	1.818	2.800	4.7	19.2
4 11	13 20.46	−10 3.7	1.799	2.801	0.6	18.9
4 21	13 12.23	− 9 10.3	1.808	2.801	3.9	19.2
5 1	13 4.90	− 8 20.3	1.845	2.802	8.0	19.4
5 11	12 59.21	− 7 38.8	1.907	2.802	11.6	19.6
5 21	12 55.60	− 7 9.6	1.990	2.802	14.7	19.9

421771 2014 QB_2 4 11.4 152°.23 5°.0/ 6.0 18

3 12	13 44.43	+ 5 43.8	2.282	3.157	10.1	22.0
3 22	13 37.64	+ 6 50.8	2.233	3.169	7.4	21.9
4 1	13 29.41	+ 7 54.1	2.212	3.181	5.3	21.8
4 11	13 20.49	+ 8 47.6	2.220	3.191	5.3	21.8
4 21	13 11.67	+ 9 26.7	2.256	3.200	7.3	21.9
5 1	13 3.75	+ 9 48.1	2.319	3.209	9.9	22.1
5 11	12 57.32	+ 9 51.3	2.406	3.217	12.4	22.3
5 21	12 52.75	+ 9 37.1	2.513	3.223	14.6	22.5

435011 2006 VW_{30} 4 11.4 229°.60 2°.9/14.9 17

3 12	13 39.49	−20 45.4	2.584	3.405	10.8	21.3
3 22	13 34.33	−20 26.1	2.494	3.398	8.3	21.1
4 1	13 27.77	−19 52.0	2.429	3.390	5.5	20.9
4 11	13 20.43	−19 4.7	2.392	3.382	3.2	20.8
4 21	13 12.99	−18 7.7	2.384	3.373	3.6	20.8
5 1	13 6.19	−17 5.7	2.405	3.365	6.2	20.9
5 11	13 0.65	−16 4.3	2.453	3.356	9.0	21.1
5 21	12 56.79	−15 8.1	2.524	3.347	11.6	21.2

141068 2001 XR_{14} 4 11.4 73°.79 8°.3/ 3.4 18

3 12	13 44.83	+18 21.1	2.219	3.075	11.1	19.2
3 22	13 37.91	+19 2.6	2.183	3.086	9.3	19.1
4 1	13 29.53	+19 29.8	2.172	3.097	8.3	19.0
4 11	13 20.49	+19 37.3	2.187	3.108	8.7	19.1
4 21	13 11.66	+19 22.5	2.228	3.119	10.1	19.2
5 1	13 3.84	+18 45.3	2.293	3.130	12.0	19.3
5 11	12 57.64	+17 47.9	2.381	3.141	14.0	19.5
5 21	12 53.40	+16 33.8	2.486	3.152	15.7	19.6

362452 2010 RZ_{110} 4 11.4 251°.80 0°.2/11.2 17

3 12	13 44.29	− 9 55.5	1.763	2.632	12.9	21.4
3 22	13 38.23	− 9 24.7	1.676	2.615	9.1	21.1
4 1	13 30.03	− 8 42.0	1.614	2.598	4.8	20.8
4 11	13 20.52	− 7 51.8	1.579	2.581	0.2	20.4
4 21	13 10.76	− 6 59.8	1.572	2.563	4.7	20.7
5 1	13 1.87	− 6 12.6	1.592	2.544	9.3	21.0
5 11	12 54.80	− 5 36.3	1.636	2.525	13.5	21.2
5 21	12 50.16	− 5 14.4	1.700	2.506	17.1	21.4

471133 2010 EC_9 4 11.4 256°.86 11°.8/23.9 18

3 12	13 41.94	+32 7.7	2.352	3.157	12.3	21.0
3 22	13 36.14	+33 42.2	2.324	3.150	11.8	20.9
4 1	13 28.71	+34 54.4	2.318	3.142	12.0	20.9
4 11	13 20.47	+35 38.0	2.334	3.134	12.8	21.0
4 21	13 12.27	+35 50.1	2.371	3.126	14.0	21.0
5 1	13 5.01	+35 30.7	2.426	3.118	15.3	21.1
5 11	12 59.35	+34 42.6	2.496	3.109	16.6	21.2
5 21	12 55.70	+33 30.5	2.579	3.101	17.6	21.3

497558 2006 DE_{125} 4 11.4 90°.67 3°.5/14.5 17

3 12	13 43.06	−19 30.6	1.885	2.722	13.6	21.8
3 22	13 37.14	−19 31.7	1.816	2.729	10.3	21.6
4 1	13 29.33	−19 15.3	1.771	2.736	6.7	21.4
4 11	13 20.50	−18 43.3	1.752	2.743	3.8	21.3
4 21	13 11.63	−17 59.7	1.760	2.751	4.5	21.3
5 1	13 3.76	−17 10.4	1.796	2.758	7.7	21.5
5 11	12 57.68	−16 22.1	1.857	2.765	11.2	21.7
5 21	12 53.87	−15 40.3	1.940	2.772	14.3	22.0

429700 2011 HL_{63} 4 11.4 321°.39 1°.6/ 9.9 17

3 12	13 40.66	− 6 21.7	1.796	2.676	12.1	21.2
3 22	13 35.46	− 5 36.4	1.728	2.673	8.4	21.0
4 1	13 28.46	− 4 43.2	1.684	2.671	4.3	20.7
4 11	13 20.46	− 3 47.7	1.668	2.669	1.7	20.6
4 21	13 12.42	− 2 56.3	1.680	2.666	5.2	20.8
5 1	13 5.31	− 2 14.7	1.718	2.664	9.3	21.0
5 11	12 59.89	− 1 47.4	1.780	2.662	13.0	21.2
5 21	12 56.63	− 1 36.3	1.861	2.660	16.1	21.4

192504 1998 MC_{14} 4 11.4 256°.48 2°.6/ 8.5 17

3 12	13 39.96	− 3 45.0	2.095	2.975	10.6	20.7
3 22	13 34.86	− 2 34.7	2.014	2.960	7.4	20.5
4 1	13 28.12	− 1 17.8	1.959	2.944	4.0	20.3
4 11	13 20.46	− 0 0.5	1.932	2.927	2.8	20.2
4 21	13 12.66	+ 1 10.5	1.934	2.911	5.7	20.3
5 1	13 5.58	+ 2 9.4	1.964	2.894	9.3	20.5
5 11	12 59.94	+ 2 51.7	2.018	2.877	12.7	20.7
5 21	12 56.20	+ 3 15.7	2.091	2.859	15.5	20.8

146106 2000 QP_{81} 4 11.4 208°.86 0°.7/10.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 39.07	− 7 53.9	2.727	3.592	9.0	21.0
3 22	13 33.90	− 7 13.1	2.648	3.587	6.2	20.8
4 1	13 27.50	− 6 25.8	2.596	3.581	3.2	20.6
4 11	13 20.44	− 5 35.7	2.574	3.575	0.8	20.4
4 21	13 13.33	− 4 46.7	2.581	3.569	3.5	20.6
5 1	13 6.81	− 4 3.0	2.618	3.562	6.6	20.7
5 11	13 1.42	− 3 27.9	2.681	3.555	9.4	20.9
5 21	12 57.52	− 3 3.7	2.767	3.547	11.8	21.1

475018 2005 UU_8 4 11.4 220°.53 0°.6/12.1 18

3 12	13 43.55	−11 9.7	3.180	4.023	8.4	21.6
3 22	13 36.92	−11 12.2	3.087	4.012	6.0	21.4
4 1	13 29.07	−11 8.4	3.021	4.000	3.3	21.2
4 11	13 20.50	−11 0.1	2.987	3.988	0.7	21.0
4 21	13 11.82	−10 49.0	2.984	3.975	2.7	21.2
5 1	13 3.63	−10 37.9	3.011	3.962	5.5	21.3
5 11	12 56.48	−10 29.4	3.068	3.948	8.2	21.5
5 21	12 50.76	−10 25.6	3.148	3.934	10.4	21.6

485153 2010 PV_{80} 4 11.4 236°.69 10°.0/14.9 18

3 12	13 58.50	−24 19.1	1.206	2.029	20.5	21.0
3 22	13 49.72	−26 20.8	1.130	2.023	16.8	20.7
4 1	13 36.76	−28 1.3	1.074	2.017	12.9	20.4
4 11	13 20.82	−29 11.5	1.042	2.010	10.2	20.3
4 21	13 3.90	−29 46.1	1.035	2.004	10.6	20.3
5 1	12 48.43	−29 48.3	1.051	1.996	13.8	20.4
5 11	12 36.41	−29 28.9	1.089	1.989	17.9	20.6
5 21	12 28.89	−29 1.0	1.144	1.981	21.8	20.8

494550 2017 BF_6 4 11.4 166°.23 16°.2/26.1 18

3 12	13 46.47	+23 49.6	1.199	2.069	17.6	20.7
3 22	13 40.17	+26 53.7	1.180	2.072	16.3	20.6
4 1	13 31.08	+29 26.3	1.182	2.076	16.4	20.6
4 11	13 20.57	+31 11.9	1.205	2.078	17.9	20.7
4 21	13 10.28	+32 3.4	1.246	2.080	20.1	20.9
5 1	13 1.72	+32 1.6	1.304	2.082	22.4	21.0
5 11	12 55.93	+31 13.9	1.374	2.082	24.6	21.2
5 21	12 53.32	+29 50.0	1.453	2.082	26.3	21.4

87759 2000 SC_{88} 4 11.4 201°.07 2°.3/ 8.4 18

3 12	13 38.93	− 1 35.7	2.811	3.685	8.4	20.1
3 22	13 33.74	− 0 47.9	2.739	3.682	5.8	19.9
4 1	13 27.40	+ 0 2.2	2.695	3.678	3.3	19.7
4 11	13 20.44	+ 0 50.4	2.681	3.673	2.5	19.6
4 21	13 13.46	+ 1 32.7	2.696	3.669	4.6	19.8
5 1	13 7.06	+ 2 5.8	2.740	3.663	7.3	19.9
5 11	13 1.74	+ 2 27.1	2.809	3.658	9.8	20.1
5 21	12 57.86	+ 2 35.9	2.900	3.652	12.0	20.2

365844 2011 US_{83} 4 11.4 131°.13 1°.0/12.1 18

3 12	13 45.07	−12 49.5	1.556	2.422	14.4	21.9
3 22	13 38.76	−12 26.1	1.493	2.429	10.3	21.7
4 1	13 30.25	−11 47.8	1.453	2.435	5.7	21.4
4 11	13 20.56	−10 59.1	1.440	2.441	1.1	21.1
4 21	13 10.87	−10 6.2	1.453	2.447	4.6	21.4
5 1	13 2.39	− 9 16.4	1.494	2.453	9.2	21.6
5 11	12 56.03	− 8 36.1	1.557	2.458	13.4	21.9
5 21	12 52.27	− 8 9.6	1.641	2.463	16.9	22.1

129220 2005 NK_{102} 4 11.4 215°.31 6°.3/21.3 18

3 12	13 41.40	−37 34.9	3.344	4.043	11.0	20.9
3 22	13 35.58	−37 37.4	3.241	4.033	9.6	20.8
4 1	13 28.41	−37 20.8	3.160	4.023	8.1	20.7
4 11	13 20.49	−36 44.6	3.103	4.013	6.8	20.6
4 21	13 12.47	−35 50.0	3.074	4.002	6.3	20.5
5 1	13 5.06	−34 40.1	3.072	3.990	6.8	20.6
5 11	12 58.85	−33 20.1	3.098	3.978	8.1	20.6
5 21	12 54.25	−31 55.4	3.148	3.966	9.7	20.7

427294 2014 WZ_{252} 4 11.4 108°.56 3°.5/ 8.2 18

3 12	13 44.58	− 0 23.2	1.906	2.785	11.5	22.3
3 22	13 37.89	+ 0 33.1	1.863	2.807	8.0	22.2
4 1	13 29.59	+ 1 30.2	1.846	2.828	4.7	22.0
4 11	13 20.55	+ 2 21.7	1.858	2.848	3.7	22.0
4 21	13 11.71	+ 3 2.4	1.897	2.868	6.4	22.2
5 1	13 3.96	+ 3 28.0	1.964	2.887	9.7	22.4
5 11	12 57.94	+ 3 36.9	2.054	2.906	12.8	22.6
5 21	12 54.03	+ 3 29.2	2.165	2.924	15.3	22.9

106009 2000 SG_{290} 4 11.4 203°.22 1°.7/13.4 18

3 12	13 39.76	−16 21.2	2.625	3.464	10.1	20.5
3 22	13 34.47	−16 1.2	2.542	3.461	7.4	20.4
4 1	13 27.85	−15 29.5	2.485	3.458	4.5	20.2
4 11	13 20.50	−14 48.4	2.456	3.454	1.9	20.0
4 21	13 13.09	−14 1.4	2.457	3.450	3.1	20.1
5 1	13 6.31	−13 12.9	2.487	3.446	6.1	20.2
5 11	13 0.75	−12 27.4	2.544	3.442	9.0	20.4
5 21	12 56.80	−11 48.6	2.625	3.437	11.5	20.6

280355 2003 SM_{298} 4 11.4 161°.21 1°.7/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 41.82	− 4 23.5	2.410	3.281	9.8	21.1
3 22	13 35.87	− 3 45.6	2.345	3.286	6.7	20.9
4 1	13 28.55	− 3 3.6	2.307	3.291	3.5	20.7
4 11	13 20.53	− 2 21.8	2.298	3.296	1.8	20.6
4 21	13 12.53	− 1 44.4	2.318	3.300	4.4	20.8
5 1	13 5.27	− 1 15.2	2.367	3.304	7.6	21.0
5 11	12 59.35	− 0 57.0	2.442	3.307	10.5	21.2
5 21	12 55.14	− 0 51.2	2.538	3.310	13.0	21.4

159420 1999 SN_{14} 4 11.4 218°.85 0°.8/10.5 18

3 12	13 40.82	− 8 27.4	2.271	3.138	10.4	20.9
3 22	13 35.34	− 7 38.5	2.191	3.130	7.3	20.7
4 1	13 28.36	− 6 41.1	2.137	3.122	3.7	20.5
4 11	13 20.53	− 5 39.4	2.112	3.114	0.9	20.2
4 21	13 12.62	− 4 38.9	2.117	3.105	4.1	20.5
5 1	13 5.42	− 3 44.8	2.150	3.095	7.7	20.7
5 11	12 59.59	− 3 1.7	2.209	3.085	11.0	20.9
5 21	12 55.58	− 2 32.1	2.289	3.075	13.8	21.0

388356 2006 TY_{117} 4 11.4 123°.01 4°.1/ 6.3 17

3 12	13 38.72	+ 3 24.5	2.453	3.335	9.2	21.3
3 22	13 33.67	+ 4 32.9	2.401	3.343	6.6	21.1
4 1	13 27.39	+ 5 39.8	2.376	3.351	4.5	21.0
4 11	13 20.49	+ 6 39.7	2.381	3.359	4.4	21.0
4 21	13 13.64	+ 7 27.8	2.413	3.366	6.4	21.1
5 1	13 7.50	+ 8 0.8	2.472	3.373	9.0	21.3
5 11	13 2.61	+ 8 17.1	2.556	3.380	11.4	21.5
5 21	12 59.30	+ 8 16.9	2.659	3.387	13.4	21.7

512441 2016 QV_{11} 4 11.4 218°.50 4°.8/17.7 18

3 12	13 41.70	−28 48.4	3.121	3.886	10.5	22.4
3 22	13 35.82	−28 59.4	3.022	3.876	8.6	22.2
4 1	13 28.57	−28 54.7	2.947	3.866	6.7	22.1
4 11	13 20.54	−28 34.4	2.900	3.855	5.2	22.0
4 21	13 12.36	−27 59.8	2.880	3.844	4.9	21.9
5 1	13 4.73	−27 14.2	2.890	3.833	6.1	22.0
5 11	12 58.25	−26 22.0	2.927	3.821	8.1	22.1
5 21	12 53.33	−25 28.1	2.989	3.808	10.1	22.2

464226 2015 BZ_{264} 4 11.4 280°.86 4°.0/ 8.2 17

3 12	13 43.71	+ 0 2.2	1.710	2.596	12.3	21.3
3 22	13 37.87	+ 0 48.6	1.628	2.574	8.7	21.0
4 1	13 29.89	+ 1 37.8	1.570	2.553	5.2	20.7
4 11	13 20.60	+ 2 22.9	1.539	2.531	4.2	20.6
4 21	13 11.04	+ 2 57.4	1.535	2.509	7.3	20.8
5 1	13 2.36	+ 3 15.9	1.557	2.486	11.4	20.9
5 11	12 55.49	+ 3 15.3	1.601	2.464	15.2	21.1
5 21	12 51.04	+ 2 55.1	1.664	2.441	18.5	21.3

267718 2003 BE_{61} 4 11.4 62°.67 3°.8/ 8.3 18

3 12	13 42.60	− 1 22.5	1.514	2.405	13.2	20.4
3 22	13 36.87	− 0 22.0	1.471	2.420	9.2	20.2
4 1	13 29.18	+ 0 40.8	1.451	2.436	5.2	20.0
4 11	13 20.56	+ 1 38.2	1.458	2.451	4.1	19.9
4 21	13 12.12	+ 2 23.1	1.491	2.467	7.2	20.2
5 1	13 4.91	+ 2 50.3	1.549	2.482	11.1	20.4
5 11	12 59.71	+ 2 57.7	1.629	2.498	14.7	20.7
5 21	12 56.90	+ 2 45.6	1.727	2.514	17.6	20.9

56661 2000 KQ_{56} 4 11.4 232°.36 0°.6/10.6 18

3 12	13 39.96	− 8 12.1	2.691	3.554	9.1	19.9
3 22	13 34.59	− 7 35.3	2.604	3.542	6.4	19.7
4 1	13 27.92	− 6 51.5	2.544	3.528	3.3	19.5
4 11	13 20.52	− 6 4.4	2.513	3.515	0.6	19.2
4 21	13 13.02	− 5 17.7	2.513	3.501	3.5	19.5
5 1	13 6.08	− 4 35.7	2.541	3.486	6.7	19.6
5 11	13 0.29	− 4 1.9	2.596	3.471	9.6	19.8
5 21	12 56.04	− 3 38.7	2.673	3.456	12.1	20.0

160727 2000 QG_{184} 4 11.4 197°.22 1°.3/12.5 18

3 12	13 46.00	−13 47.5	1.842	2.695	13.1	20.8
3 22	13 39.30	−13 31.3	1.764	2.693	9.5	20.6
4 1	13 30.55	−13 1.2	1.711	2.690	5.4	20.4
4 11	13 20.62	−12 20.4	1.685	2.686	1.5	20.1
4 21	13 10.58	−11 33.5	1.688	2.681	4.1	20.3
5 1	13 1.50	−10 46.9	1.718	2.676	8.4	20.5
5 11	12 54.28	−10 6.6	1.774	2.670	12.3	20.7
5 21	12 49.44	− 9 37.0	1.851	2.663	15.6	20.9

374059 2004 PZ_{96} 4 11.4 176°.87 4°.6/16.2 17

3 12	13 44.83	−24 44.5	2.457	3.252	12.1	21.8
3 22	13 38.17	−24 57.2	2.374	3.255	9.6	21.7
4 1	13 29.86	−24 53.0	2.315	3.256	7.0	21.5
4 11	13 20.60	−24 32.1	2.283	3.258	4.9	21.4
4 21	13 11.23	−23 56.7	2.280	3.258	4.9	21.4
5 1	13 2.64	−23 11.0	2.306	3.258	6.9	21.5
5 11	12 55.54	−22 20.9	2.359	3.257	9.5	21.7
5 21	12 50.41	−21 31.9	2.435	3.256	12.1	21.8

132132 2002 CL_{247} 4 11.4 96°.82 1°.2/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 44.88	− 8 15.8	1.507	2.385	14.1	20.3
3 22	13 38.49	− 7 24.3	1.458	2.403	9.8	20.1
4 1	13 30.04	− 6 22.5	1.434	2.420	5.0	19.8
4 11	13 20.60	− 5 17.2	1.436	2.438	1.3	19.6
4 21	13 11.35	− 4 16.2	1.466	2.455	5.4	19.9
5 1	13 3.41	− 3 26.4	1.521	2.471	9.9	20.2
5 11	12 57.59	− 2 52.7	1.600	2.488	13.9	20.5
5 21	12 54.30	− 2 36.9	1.698	2.503	17.1	20.7

348980 2006 UQ_{119} 4 11.4 98°.49 0°.4/10.9 17

3 12	13 40.33	− 8 45.8	2.458	3.322	9.8	22.0
3 22	13 34.78	− 8 14.5	2.401	3.339	6.8	21.8
4 1	13 27.96	− 7 36.6	2.371	3.355	3.5	21.6
4 11	13 20.52	− 6 55.6	2.369	3.371	0.4	21.4
4 21	13 13.16	− 6 15.5	2.397	3.387	3.5	21.7
5 1	13 6.55	− 5 40.5	2.454	3.403	6.7	21.9
5 11	13 1.24	− 5 13.7	2.537	3.418	9.6	22.1
5 21	12 57.57	− 4 57.2	2.642	3.433	12.0	22.3

286681 2002 EX_{147} 4 11.4 59°.28 2°.0/ 9.9 18

3 12	13 43.38	− 6 41.1	1.278	2.169	15.2	20.4
3 22	13 37.71	− 5 47.1	1.232	2.182	10.5	20.1
4 1	13 29.72	− 4 43.2	1.209	2.197	5.4	19.9
4 11	13 20.59	− 3 37.9	1.211	2.211	2.1	19.7
4 21	13 11.64	− 2 39.7	1.238	2.226	6.4	20.0
5 1	13 4.12	− 1 56.1	1.290	2.241	11.2	20.3
5 11	12 58.95	− 1 31.9	1.363	2.256	15.5	20.6
5 21	12 56.52	− 1 28.0	1.454	2.271	18.9	20.9

9315 Weigel 4 11.4 201°.83 0°.7/11.9 18

3 12	13 44.70	−12 16.6	1.924	2.781	12.5	18.9
3 22	13 38.31	−11 51.4	1.845	2.778	8.9	18.7
4 1	13 30.00	−11 13.9	1.792	2.773	4.9	18.4
4 11	13 20.61	−10 27.6	1.767	2.768	0.8	18.1
4 21	13 11.11	− 9 37.7	1.770	2.763	4.0	18.3
5 1	13 2.51	− 8 49.9	1.801	2.757	8.2	18.6
5 11	12 55.65	− 8 10.1	1.858	2.750	12.0	18.8
5 21	12 51.03	− 7 42.0	1.936	2.742	15.2	19.0

177271 2003 WJ_{117} 4 11.4 209°.11 3°.7/14.7 18

3 12	13 44.49	−20 34.0	1.859	2.690	14.0	20.9
3 22	13 38.32	−20 26.7	1.777	2.686	10.7	20.7
4 1	13 30.07	−19 59.9	1.718	2.681	7.1	20.4
4 11	13 20.61	−19 15.2	1.685	2.675	4.1	20.2
4 21	13 11.00	−18 16.8	1.680	2.669	4.7	20.3
5 1	13 2.33	−17 11.4	1.702	2.663	8.1	20.5
5 11	12 55.52	−16 6.7	1.749	2.656	11.8	20.7
5 21	12 51.11	−15 9.5	1.818	2.648	15.2	20.9

434483 2005 RS_{6} 4 11.4 238°.89 0°.8/10.5 17

3 12	13 40.84	− 6 43.4	2.890	3.753	8.6	21.7
3 22	13 35.14	− 6 21.0	2.800	3.737	6.0	21.5
4 1	13 28.20	− 5 53.6	2.737	3.721	3.1	21.3
4 11	13 20.54	− 5 24.1	2.704	3.705	0.8	21.0
4 21	13 12.77	− 4 55.7	2.701	3.688	3.4	21.2
5 1	13 5.51	− 4 31.6	2.728	3.671	6.4	21.4
5 11	12 59.33	− 4 14.7	2.781	3.653	9.2	21.5
5 21	12 54.61	− 4 6.8	2.858	3.635	11.6	21.7

385749 2005 XR_{85} 4 11.4 332°.74 14°.6/23.4 18

3 12	13 39.26	−40 37.7	1.409	2.158	21.6	19.4
3 22	13 35.86	−41 54.4	1.320	2.136	19.6	19.1
4 1	13 29.32	−42 35.3	1.245	2.114	17.5	18.9
4 11	13 20.59	−42 32.7	1.188	2.094	15.6	18.7
4 21	13 11.19	−41 43.1	1.150	2.075	14.6	18.6
5 1	13 2.97	−40 10.0	1.132	2.057	15.0	18.6
5 11	12 57.54	−38 4.8	1.133	2.041	16.8	18.6
5 21	12 55.77	−35 42.7	1.153	2.026	19.3	18.7

283603 2001 YH_{153} 4 11.4 199°.39 5°.0/16.1 17 R

3 12	13 45.82	−24 50.6	2.287	3.085	12.8	21.1
3 22	13 39.04	−25 11.2	2.200	3.081	10.2	20.9
4 1	13 30.39	−25 13.9	2.136	3.077	7.5	20.7
4 11	13 20.63	−24 58.6	2.099	3.073	5.4	20.6
4 21	13 10.69	−24 27.1	2.091	3.068	5.3	20.6
5 1	13 1.54	−23 43.8	2.110	3.062	7.5	20.7
5 11	12 54.00	−22 54.8	2.157	3.056	10.3	20.9
5 21	12 48.60	−22 6.4	2.226	3.049	13.0	21.0

91340 1999 JZ_{20} 4 11.4 63°.25 1°.0/10.7 18

3 12	13 45.90	− 7 53.0	1.256	2.141	15.8	18.5
3 22	13 39.48	− 7 24.2	1.212	2.159	11.0	18.3
4 1	13 30.65	− 6 44.9	1.191	2.178	5.6	18.0
4 11	13 20.64	− 6 1.6	1.194	2.196	1.1	17.8
4 21	13 10.88	− 5 21.8	1.224	2.215	5.8	18.1
5 1	13 2.68	− 4 52.3	1.278	2.234	10.8	18.5
5 11	12 56.96	− 4 37.7	1.353	2.252	15.1	18.8
5 21	12 54.11	− 4 39.7	1.447	2.271	18.7	19.0

222673 2001 YL_{27} 4 11.4 185°.90 1°.6/10.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 43.16	− 5 45.9	1.938	2.813	11.6	21.1
3 22	13 37.12	− 5 10.7	1.870	2.813	8.0	20.9
4 1	13 29.34	− 4 29.2	1.827	2.813	4.2	20.6
4 11	13 20.60	− 3 46.1	1.812	2.812	1.6	20.4
4 21	13 11.83	− 3 6.8	1.825	2.811	4.9	20.7
5 1	13 3.96	− 2 36.3	1.866	2.810	8.8	20.9
5 11	12 57.75	− 2 18.1	1.931	2.808	12.3	21.1
5 21	12 53.65	− 2 14.1	2.017	2.806	15.3	21.3

135155 2001 QK_{225} 4 11.4 126°.98 2°.3/14.2 18

3 12	13 39.66	−18 53.6	2.318	3.153	11.5	19.9
3 22	13 34.50	−18 22.5	2.245	3.159	8.5	19.7
4 1	13 27.90	−17 36.1	2.196	3.165	5.4	19.5
4 11	13 20.54	−16 37.5	2.175	3.170	2.6	19.4
4 21	13 13.19	−15 31.0	2.184	3.176	3.5	19.4
5 1	13 6.61	−14 22.4	2.220	3.181	6.5	19.6
5 11	13 1.42	−13 17.5	2.284	3.187	9.6	19.8
5 21	12 58.02	−12 21.1	2.370	3.192	12.3	20.0

331503 1999 TF_{315} 4 11.4 263°.10 1°.0/10.4 17

3 12	13 39.65	− 9 6.3	1.908	2.783	11.8	20.8
3 22	13 34.75	− 8 4.2	1.833	2.775	8.2	20.6
4 1	13 28.13	− 6 50.8	1.782	2.768	4.2	20.3
4 11	13 20.56	− 5 32.0	1.759	2.761	1.0	20.1
4 21	13 12.90	− 4 14.5	1.765	2.753	4.7	20.3
5 1	13 6.08	− 3 5.6	1.798	2.746	8.8	20.6
5 11	13 0.84	− 2 10.8	1.855	2.738	12.5	20.8
5 21	12 57.64	− 1 33.2	1.933	2.731	15.6	21.0

62604 2000 SU_{320} 4 11.4 164°.43 0°.6/12.1 18

3 12	13 41.27	−11 35.5	2.594	3.447	9.8	19.1
3 22	13 35.50	−11 25.2	2.520	3.450	7.0	18.9
4 1	13 28.40	−11 6.9	2.472	3.452	3.8	18.7
4 11	13 20.58	−10 42.9	2.453	3.455	0.7	18.5
4 21	13 12.72	−10 16.4	2.464	3.457	3.1	18.7
5 1	13 5.53	− 9 50.9	2.504	3.458	6.3	18.9
5 11	12 59.59	− 9 30.0	2.570	3.460	9.2	19.1
5 21	12 55.28	− 9 16.2	2.660	3.461	11.7	19.2

283460 2001 PD_{1} 4 11.4 195°.94 2°.6/14.2 14 C

3 12	13 46.44	−19 26.4	2.435	3.254	11.5	23.5
3 22	13 39.27	−19 4.3	2.345	3.250	8.7	23.3
4 1	13 30.44	−18 26.7	2.281	3.245	5.5	23.1
4 11	13 20.66	−17 35.4	2.246	3.239	2.9	22.9
4 21	13 10.78	−16 34.4	2.241	3.231	3.7	22.9
5 1	13 1.66	−15 28.9	2.267	3.222	6.8	23.1
5 11	12 54.04	−14 25.1	2.320	3.212	9.9	23.3
5 21	12 48.37	−13 28.1	2.397	3.201	12.8	23.5

274508 2008 SA_{150} 4 11.4 202°.52 0°.6/10.7 18

3 12	13 41.05	− 8 53.9	2.433	3.296	10.0	21.5
3 22	13 35.43	− 8 10.7	2.354	3.292	7.0	21.3
4 1	13 28.39	− 7 19.4	2.302	3.287	3.6	21.0
4 11	13 20.58	− 6 24.1	2.280	3.281	0.6	20.8
4 21	13 12.71	− 5 29.3	2.287	3.275	3.8	21.0
5 1	13 5.52	− 4 39.8	2.322	3.269	7.2	21.2
5 11	12 59.63	− 3 59.8	2.384	3.261	10.3	21.4
5 21	12 55.45	− 3 31.8	2.469	3.254	12.9	21.6

359766 2011 UH_{122} 4 11.4 60°.21 2°.6/ 9.7 18

3 12	13 45.91	− 3 58.6	1.332	2.220	14.9	20.6
3 22	13 39.60	− 3 27.3	1.274	2.223	10.4	20.3
4 1	13 30.82	− 2 50.0	1.239	2.225	5.5	20.0
4 11	13 20.68	− 2 13.5	1.229	2.228	2.7	19.9
4 21	13 10.54	− 1 44.7	1.244	2.230	6.7	20.1
5 1	13 1.75	− 1 29.4	1.285	2.233	11.6	20.4
5 11	12 55.34	− 1 31.2	1.347	2.235	15.9	20.7
5 21	12 51.81	− 1 50.7	1.427	2.238	19.5	20.9

279448 2010 RK_{65} 4 11.4 221°.05 4°.6/15.1 17

3 12	13 46.50	−21 57.6	1.898	2.719	14.2	21.3
3 22	13 39.82	−22 13.8	1.811	2.711	11.1	21.0
4 1	13 30.93	−22 11.0	1.747	2.703	7.7	20.8
4 11	13 20.70	−21 49.4	1.709	2.694	5.0	20.6
4 21	13 10.20	−21 11.5	1.699	2.684	5.3	20.6
5 1	13 0.62	−20 22.9	1.716	2.674	8.4	20.8
5 11	12 52.92	−19 30.9	1.759	2.664	11.9	21.0
5 21	12 47.71	−18 42.5	1.823	2.653	15.2	21.2

501747 2014 UM_{134} 4 11.4 259°.76 1°.2/12.3 17

3 12	13 44.80	−13 17.8	1.649	2.511	14.0	22.4
3 22	13 38.80	−12 59.3	1.561	2.494	10.1	22.1
4 1	13 30.47	−12 25.4	1.496	2.476	5.7	21.8
4 11	13 20.69	−11 39.4	1.457	2.458	1.4	21.5
4 21	13 10.57	−10 46.7	1.446	2.440	4.6	21.6
5 1	13 1.37	− 9 54.4	1.461	2.421	9.4	21.9
5 11	12 54.14	− 9 9.7	1.501	2.401	13.8	22.1
5 21	12 49.52	− 8 37.9	1.560	2.382	17.6	22.3

485187 2010 TH_{39} 4 11.4 300°.78 3°.5/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	14 0.75	− 9 50.5	1.018	1.890	19.7	20.5
3 22	13 51.45	−11 38.4	0.945	1.882	14.6	20.2
4 1	13 37.75	−13 22.6	0.895	1.875	8.6	19.8
4 11	13 21.01	−14 58.0	0.868	1.867	3.6	19.5
4 21	13 3.43	−16 19.9	0.868	1.860	7.2	19.7
5 1	12 47.57	−17 27.9	0.893	1.853	13.5	20.0
5 11	12 35.46	−18 26.4	0.938	1.847	19.3	20.3
5 21	12 28.05	−19 21.4	1.001	1.841	24.0	20.6

194136 2001 SD_{315} 4 11.4 313°.26 6°.4/15.6 16

3 12	13 42.32	−22 49.0	1.222	2.072	18.6	19.7
3 22	13 37.77	−23 8.8	1.141	2.056	14.8	19.4
4 1	13 30.21	−23 0.5	1.079	2.041	10.5	19.1
4 11	13 20.68	−22 23.1	1.039	2.026	6.9	18.8
4 21	13 10.69	−21 20.2	1.023	2.012	7.1	18.8
5 1	13 1.90	−20 1.1	1.029	1.998	11.1	19.0
5 11	12 55.75	−18 38.5	1.057	1.985	15.8	19.2
5 21	12 52.99	−17 24.0	1.102	1.972	20.2	19.4

504122 2006 RC_{46} 4 11.4 169°.25 0°.3/11.8 18

3 12	13 41.35	−10 50.5	3.000	3.850	8.7	22.8
3 22	13 35.41	−10 36.4	2.924	3.854	6.1	22.6
4 1	13 28.31	−10 15.6	2.877	3.858	3.3	22.5
4 11	13 20.61	− 9 50.3	2.859	3.861	0.4	22.2
4 21	13 12.88	− 9 23.3	2.872	3.863	2.8	22.4
5 1	13 5.74	− 8 57.8	2.915	3.866	5.7	22.6
5 11	12 59.69	− 8 36.8	2.985	3.867	8.3	22.8
5 21	12 55.08	− 8 22.4	3.079	3.869	10.5	22.9

343688 2011 CX_{18} 4 11.4 341°.21 10°.5/17.7 17

3 12	13 42.76	−29 8.1	1.334	2.150	19.3	19.7
3 22	13 38.14	−30 33.5	1.254	2.135	16.4	19.4
4 1	13 30.46	−31 32.4	1.193	2.121	13.3	19.2
4 11	13 20.70	−31 59.3	1.152	2.109	11.0	19.0
4 21	13 10.33	−31 52.7	1.134	2.097	10.6	19.0
5 1	13 1.08	−31 16.8	1.137	2.087	12.5	19.0
5 11	12 54.45	−30 21.8	1.161	2.079	15.6	19.2
5 21	12 51.30	−29 19.3	1.204	2.072	19.0	19.4

321673 2010 CO_{182} 4 11.4 266°.63 2°.7/ 8.8 17

3 12	13 41.02	− 2 49.5	2.036	2.917	10.8	20.8
3 22	13 35.67	− 2 0.9	1.957	2.903	7.6	20.6
4 1	13 28.63	− 1 7.6	1.905	2.889	4.2	20.4
4 11	13 20.62	− 0 15.3	1.880	2.875	2.8	20.3
4 21	13 12.48	+ 0 30.5	1.883	2.861	5.7	20.4
5 1	13 5.10	+ 1 4.8	1.913	2.847	9.3	20.6
5 11	12 59.22	+ 1 24.0	1.967	2.833	12.7	20.8
5 21	12 55.31	+ 1 26.9	2.042	2.818	15.6	21.0

94879 2001 XR_{239} 4 11.4 102°.90 4°.6/14.9 18

3 12	13 45.40	−21 9.4	1.470	2.310	16.5	19.8
3 22	13 39.26	−21 12.1	1.404	2.318	12.7	19.6
4 1	13 30.66	−20 51.4	1.361	2.325	8.5	19.4
4 11	13 20.71	−20 8.8	1.342	2.332	5.1	19.2
4 21	13 10.71	−19 9.6	1.348	2.338	5.6	19.2
5 1	13 2.02	−18 2.0	1.381	2.345	9.3	19.5
5 11	12 55.65	−16 55.9	1.436	2.351	13.4	19.7
5 21	12 52.13	−15 58.8	1.513	2.358	17.0	20.0

375866 2009 VV_{38} 4 11.4 238°.56 1°.1/12.5 18

3 12	13 43.07	−13 43.8	2.096	2.948	11.8	21.5
3 22	13 37.15	−13 21.8	2.007	2.935	8.6	21.2
4 1	13 29.44	−12 47.1	1.943	2.922	4.8	21.0
4 11	13 20.67	−12 2.6	1.907	2.908	1.3	20.7
4 21	13 11.71	−11 12.7	1.900	2.893	3.7	20.9
5 1	13 3.50	−10 22.8	1.921	2.878	7.7	21.1
5 11	12 56.84	− 9 38.8	1.968	2.863	11.3	21.3
5 21	12 52.24	− 9 4.8	2.036	2.847	14.5	21.4

56918 2000 QQ_{230} 4 11.4 75°.70 4°.2/14.9 18

3 12	13 46.62	−20 45.5	2.254	3.070	12.4	19.2
3 22	13 39.56	−21 28.5	2.177	3.074	9.6	19.1
4 1	13 30.68	−21 57.5	2.124	3.078	6.7	18.9
4 11	13 20.72	−22 11.9	2.100	3.082	4.5	18.7
4 21	13 10.62	−22 13.0	2.104	3.086	4.8	18.8
5 1	13 1.32	−22 4.0	2.137	3.090	7.3	18.9
5 11	12 53.64	−21 49.8	2.196	3.094	10.2	19.1
5 21	12 48.08	−21 35.1	2.278	3.098	12.8	19.3

482388 2012 AW_{16} 4 11.4 343°.83 21°.2/24.5 18

3 12	13 54.82	−45 29.7	1.102	1.828	27.6	20.7
3 22	13 48.46	−48 18.6	1.041	1.827	25.7	20.5
4 1	13 36.76	−50 25.3	0.994	1.826	23.7	20.3
4 11	13 21.00	−51 34.7	0.961	1.825	22.1	20.2
4 21	13 3.83	−51 37.7	0.944	1.824	21.3	20.1
5 1	12 48.71	−50 36.9	0.942	1.824	21.4	20.1
5 11	12 38.43	−48 47.9	0.955	1.824	22.5	20.2
5 21	12 34.13	−46 31.3	0.983	1.823	24.3	20.3

25386 1999 UE_3 4 11.4 156°.14 3°.6/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 43.51	− 1 10.0	1.773	2.657	12.0	19.1
3 22	13 37.44	− 0 11.4	1.715	2.661	8.4	18.9
4 1	13 29.54	+ 0 50.0	1.682	2.665	4.8	18.7
4 11	13 20.67	+ 1 47.3	1.676	2.669	3.8	18.6
4 21	13 11.85	+ 2 34.1	1.698	2.672	6.7	18.8
5 1	13 4.04	+ 3 5.3	1.747	2.675	10.4	19.0
5 11	12 58.04	+ 3 18.2	1.818	2.678	13.8	19.2
5 21	12 54.26	+ 3 12.6	1.909	2.680	16.7	19.4

426710 2013 TH_{39} 4 11.4 72°.16 0°.6/10.9 17

3 12	13 44.60	− 7 26.2	1.793	2.665	12.5	20.8
3 22	13 38.21	− 7 17.5	1.732	2.673	8.7	20.6
4 1	13 29.95	− 7 1.7	1.696	2.681	4.5	20.4
4 11	13 20.69	− 6 42.6	1.687	2.689	0.6	20.1
4 21	13 11.47	− 6 24.5	1.707	2.697	4.5	20.4
5 1	13 3.28	− 6 11.8	1.753	2.705	8.7	20.7
5 11	12 56.92	− 6 8.0	1.824	2.714	12.3	20.9
5 21	12 52.85	− 6 15.2	1.915	2.722	15.4	21.1

371052 2005 UK_{214} 4 11.4 220°.53 2°.4/13.8 18

3 12	13 43.94	−17 46.2	2.326	3.158	11.5	21.9
3 22	13 37.65	−17 34.7	2.234	3.147	8.6	21.7
4 1	13 29.67	−17 9.1	2.167	3.136	5.4	21.5
4 11	13 20.69	−16 31.1	2.129	3.124	2.6	21.3
4 21	13 11.53	−15 44.2	2.119	3.111	3.7	21.3
5 1	13 3.09	−14 53.2	2.139	3.097	7.0	21.5
5 11	12 56.09	−14 3.9	2.186	3.083	10.2	21.7
5 21	12 51.05	−13 21.1	2.255	3.068	13.2	21.9

125570 2001 XE_{19} 4 11.4 74°.70 5°.6/ 7.2 18

3 12	13 45.61	+ 5 31.3	1.676	2.560	12.6	19.1
3 22	13 38.83	+ 6 12.5	1.634	2.575	9.1	18.9
4 1	13 30.20	+ 6 48.3	1.617	2.590	6.3	18.8
4 11	13 20.70	+ 7 12.1	1.626	2.605	5.9	18.8
4 21	13 11.41	+ 7 19.4	1.662	2.620	8.3	19.0
5 1	13 3.33	+ 7 7.6	1.723	2.635	11.5	19.2
5 11	12 57.22	+ 6 37.1	1.807	2.650	14.6	19.4
5 21	12 53.46	+ 5 50.0	1.909	2.665	17.2	19.6

364765 2007 XS_{21} 4 11.4 120°.31 0°.9/12.2 18

3 12	13 44.97	−13 22.8	1.756	2.614	13.4	21.6
3 22	13 38.46	−12 51.0	1.697	2.629	9.6	21.4
4 1	13 30.06	−12 5.2	1.663	2.644	5.3	21.2
4 11	13 20.70	−11 9.9	1.657	2.658	1.1	20.9
4 21	13 11.44	−10 11.1	1.678	2.671	4.1	21.1
5 1	13 3.31	− 9 15.6	1.727	2.684	8.4	21.4
5 11	12 57.09	− 8 29.4	1.801	2.697	12.1	21.7
5 21	12 53.20	− 7 56.3	1.895	2.709	15.3	21.9

2948 Amosov 4 11.4 95°.66 0°.7/12.3 18 R

3 12	13 39.65	−14 26.2	2.035	2.892	11.9	17.3
3 22	13 34.59	−13 27.2	1.972	2.903	8.5	17.1
4 1	13 27.99	−12 14.0	1.933	2.914	4.7	16.9
4 11	13 20.62	−10 51.8	1.923	2.924	0.9	16.6
4 21	13 13.31	− 9 27.0	1.941	2.935	3.6	16.8
5 1	13 6.88	− 8 6.7	1.988	2.945	7.5	17.1
5 11	13 1.99	− 6 56.8	2.060	2.955	10.9	17.3
5 21	12 59.00	− 6 1.4	2.155	2.965	13.8	17.5

368250 2001 XM_{19} 4 11.4 123°.05 13°.4/ 1.4 18

3 12	13 50.93	−54 4.3	2.266	2.839	18.4	20.3
3 22	13 43.39	−54 54.3	2.193	2.851	17.2	20.2
4 1	13 32.94	−55 10.8	2.133	2.862	15.9	20.1
4 11	13 20.83	−54 49.0	2.091	2.874	14.7	20.0
4 21	13 8.68	−53 48.0	2.067	2.885	13.7	20.0
5 1	12 58.13	−52 11.5	2.064	2.895	13.4	20.0
5 11	12 50.36	−50 8.5	2.083	2.905	13.7	20.0
5 21	12 45.92	−47 49.8	2.124	2.915	14.6	20.1

1652 Hergé 4 11.4 311°.93 2°.3/13.0 18 R

3 12	13 41.45	−15 34.2	1.231	2.106	16.8	15.3
3 22	13 36.98	−15 15.9	1.152	2.090	12.4	14.9
4 1	13 29.73	−14 35.1	1.093	2.074	7.4	14.6
4 11	13 20.72	−13 35.4	1.058	2.058	2.6	14.3
4 21	13 11.32	−12 23.8	1.047	2.043	5.3	14.4
5 1	13 3.09	−11 10.7	1.060	2.028	10.9	14.6
5 11	12 57.31	−10 6.8	1.094	2.014	16.1	14.9
5 21	12 54.68	− 9 19.7	1.145	2.001	20.6	15.1

59863 1999 RH_{98} 4 11.4 233°.51 0°.9/10.3 18

3 12	13 39.34	− 6 55.2	2.822	3.687	8.7	19.8
3 22	13 34.14	− 6 21.1	2.737	3.676	6.0	19.6
4 1	13 27.72	− 5 41.5	2.679	3.664	3.1	19.4
4 11	13 20.63	− 4 59.7	2.651	3.652	0.9	19.2
4 21	13 13.45	− 4 19.3	2.653	3.640	3.5	19.4
5 1	13 6.82	− 3 44.0	2.684	3.627	6.5	19.5
5 11	13 1.26	− 3 16.8	2.741	3.613	9.3	19.7
5 21	12 57.15	− 2 59.9	2.821	3.600	11.6	19.8

110944 2001 UJ_{155} 4 11.4 281°.17 5°.5/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 44.05	+ 4 27.5	1.711	2.597	12.2	18.5
3 22	13 38.02	+ 5 15.2	1.642	2.585	8.9	18.2
4 1	13 29.96	+ 6 0.4	1.598	2.574	6.1	18.0
4 11	13 20.73	+ 6 35.8	1.580	2.562	5.8	18.0
4 21	13 11.38	+ 6 55.5	1.589	2.550	8.4	18.1
5 1	13 3.01	+ 6 55.5	1.623	2.538	11.9	18.3
5 11	12 56.50	+ 6 34.6	1.679	2.526	15.4	18.5
5 21	12 52.36	+ 5 54.1	1.753	2.514	18.3	18.7

38966 2000 TW_{35} 4 11.4 54°.87 1°.7/12.9 18

3 12	13 42.68	−14 48.8	1.585	2.448	14.4	19.3
3 22	13 37.03	−14 30.7	1.531	2.463	10.4	19.0
4 1	13 29.36	−13 56.8	1.501	2.480	6.0	18.8
4 11	13 20.69	−13 11.0	1.496	2.496	2.0	18.6
4 21	13 12.13	−12 19.4	1.518	2.512	4.2	18.8
5 1	13 4.76	−11 28.9	1.566	2.529	8.5	19.1
5 11	12 59.40	−10 46.1	1.638	2.546	12.4	19.3
5 21	12 56.45	−10 15.3	1.731	2.563	15.7	19.6

116529 2004 BV_{52} 4 11.4 4°.45 0°.3/11.1 18

3 12	13 39.98	− 9 40.7	2.018	2.888	11.4	20.2
3 22	13 34.90	− 9 3.9	1.948	2.888	8.0	20.0
4 1	13 28.21	− 8 17.5	1.903	2.888	4.1	19.8
4 11	13 20.65	− 7 25.9	1.886	2.888	0.3	19.5
4 21	13 13.06	− 6 34.4	1.897	2.888	4.1	19.8
5 1	13 6.29	− 5 48.5	1.936	2.889	7.9	20.0
5 11	13 1.04	− 5 12.8	1.999	2.889	11.4	20.2
5 21	12 57.73	− 4 50.1	2.084	2.890	14.3	20.4

329593 2003 BG_{58} 4 11.4 47°.27 8°.4/ 3.8 18

3 12	13 40.79	+ 8 55.7	1.455	2.351	13.4	19.9
3 22	13 35.72	+10 42.3	1.421	2.362	10.3	19.8
4 1	13 28.67	+12 19.7	1.411	2.373	8.5	19.7
4 11	13 20.67	+13 37.0	1.425	2.385	9.0	19.8
4 21	13 12.85	+14 26.9	1.464	2.397	11.5	19.9
5 1	13 6.26	+14 45.9	1.525	2.409	14.5	20.1
5 11	13 1.69	+14 35.1	1.606	2.422	17.4	20.4
5 21	12 59.51	+13 58.2	1.702	2.434	19.8	20.6

349032 2006 VU_{37} 4 11.4 185°.79 7°.6/ 1.5 18

3 12	13 44.09	+21 27.4	2.922	3.760	9.2	21.2
3 22	13 37.30	+22 13.6	2.877	3.760	8.1	21.1
4 1	13 29.30	+22 47.0	2.858	3.759	7.6	21.1
4 11	13 20.71	+23 3.2	2.866	3.758	8.0	21.1
4 21	13 12.20	+22 59.8	2.900	3.756	9.1	21.2
5 1	13 4.43	+22 36.1	2.959	3.754	10.7	21.3
5 11	12 57.94	+21 53.5	3.040	3.752	12.2	21.4
5 21	12 53.05	+20 54.6	3.139	3.749	13.5	21.5

497057 2003 SY_{411} 4 11.4 226°.04 1°.3/12.7 17

3 12	13 42.47	−13 49.1	2.125	2.977	11.7	22.0
3 22	13 36.67	−13 35.5	2.044	2.972	8.4	21.8
4 1	13 29.18	−13 10.1	1.988	2.966	4.8	21.6
4 11	13 20.70	−12 35.5	1.960	2.960	1.5	21.3
4 21	13 12.12	−11 55.6	1.960	2.953	3.6	21.5
5 1	13 4.31	−11 15.5	1.989	2.947	7.4	21.7
5 11	12 58.03	−10 40.2	2.043	2.940	10.9	21.9
5 21	12 53.75	−10 13.7	2.119	2.933	13.9	22.1

338252 2002 TJ_{195} 4 11.4 142°.62 0°.9/10.5 18

3 12	13 43.46	− 5 59.0	2.499	3.363	9.7	21.2
3 22	13 37.02	− 5 44.7	2.434	3.372	6.7	21.0
4 1	13 29.21	− 5 25.9	2.396	3.380	3.5	20.8
4 11	13 20.71	− 5 5.9	2.388	3.389	1.0	20.6
4 21	13 12.23	− 4 47.8	2.409	3.396	3.8	20.8
5 1	13 4.50	− 4 34.8	2.460	3.404	7.0	21.0
5 11	12 58.10	− 4 29.5	2.537	3.411	9.9	21.2
5 21	12 53.42	− 4 33.3	2.636	3.417	12.3	21.4

502132 2015 BP_{21} 4 11.4 168°.37 0°.4/11.0 17

3 12	13 41.45	−10 4.0	2.166	3.030	11.0	22.0
3 22	13 35.82	− 9 15.0	2.096	3.034	7.7	21.8
4 1	13 28.66	− 8 16.2	2.053	3.037	4.0	21.5
4 11	13 20.68	− 7 12.3	2.037	3.039	0.4	21.2
4 21	13 12.71	− 6 8.6	2.051	3.042	4.0	21.5
5 1	13 5.55	− 5 11.0	2.094	3.043	7.7	21.8
5 11	12 59.85	− 4 24.0	2.162	3.044	11.0	22.0
5 21	12 56.04	− 3 50.6	2.252	3.045	13.8	22.2

365026 2008 RU_{121} 4 11.4 77°.99 1°.5/ 9.3 18

3 12	13 35.94	− 5 4.6	2.994	3.867	8.0	21.2
3 22	13 31.64	− 4 12.1	2.933	3.877	5.5	21.0
4 1	13 26.36	− 3 15.8	2.901	3.886	2.8	20.9
4 11	13 20.59	− 2 19.5	2.897	3.895	1.5	20.8
4 21	13 14.84	− 1 27.0	2.924	3.905	3.7	20.9
5 1	13 9.65	− 0 41.9	2.979	3.914	6.3	21.1
5 11	13 5.43	− 0 6.9	3.060	3.923	8.7	21.3
5 21	13 2.48	+ 0 16.7	3.163	3.932	10.7	21.4

435064 2006 YJ 4 11.4 66°.23 15°.5/25.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 45.89	−41 35.6	0.998	1.769	27.2	20.6
3 22	13 41.00	−42 24.0	0.943	1.779	24.2	20.4
4 1	13 32.09	−42 18.7	0.900	1.789	20.8	20.2
4 11	13 20.83	−41 12.3	0.873	1.799	17.6	20.0
4 21	13 9.56	−39 6.4	0.864	1.809	15.7	19.9
5 1	13 0.59	−36 14.6	0.874	1.819	15.9	20.0
5 11	12 55.47	−33 0.2	0.904	1.830	18.1	20.1
5 21	12 54.64	−29 46.5	0.953	1.840	21.2	20.4

21145 1993 FZ_{57} 4 11.4 183°.97 0°.3/11.7 18

3 12	13 41.60	−11 38.9	2.129	2.989	11.3	19.7
3 22	13 35.99	−11 3.2	2.055	2.989	8.0	19.5
4 1	13 28.78	−10 16.6	2.007	2.989	4.3	19.3
4 11	13 20.70	− 9 22.9	1.987	2.989	0.4	19.0
4 21	13 12.58	− 8 27.4	1.996	2.988	3.7	19.2
5 1	13 5.27	− 7 35.4	2.033	2.987	7.5	19.5
5 11	12 59.45	− 6 52.0	2.095	2.985	11.0	19.7
5 21	12 55.57	− 6 20.4	2.180	2.983	13.9	19.9

262584 2006 VP_{81} 4 11.4 159°.01 4°.4/ 6.5 18

3 12	13 40.25	+ 5 1.7	2.436	3.316	9.3	20.4
3 22	13 34.82	+ 5 50.0	2.378	3.317	6.8	20.2
4 1	13 28.08	+ 6 35.5	2.347	3.319	4.8	20.1
4 11	13 20.67	+ 7 13.1	2.344	3.320	4.6	20.1
4 21	13 13.28	+ 7 38.9	2.369	3.322	6.6	20.2
5 1	13 6.61	+ 7 50.1	2.422	3.323	9.1	20.3
5 11	13 1.22	+ 7 45.6	2.498	3.324	11.6	20.5
5 21	12 57.47	+ 7 25.9	2.594	3.325	13.7	20.7

248905 2006 VM_6 4 11.4 41°.23 2°.3/14.2 17

3 12	13 38.35	−19 0.4	2.168	3.007	12.0	20.0
3 22	13 33.71	−18 21.5	2.095	3.011	8.9	19.8
4 1	13 27.57	−17 26.0	2.046	3.016	5.6	19.6
4 11	13 20.65	−16 17.4	2.025	3.020	2.6	19.4
4 21	13 13.72	−15 0.7	2.032	3.025	3.5	19.5
5 1	13 7.59	−13 42.5	2.067	3.030	6.8	19.7
5 11	13 2.90	−12 29.2	2.128	3.035	10.0	19.9
5 21	13 0.04	−11 25.9	2.213	3.040	12.9	20.1

334839 2003 TX_{23} 4 11.4 198°.03 1°.8/13.5 17

3 12	13 40.90	−16 53.9	2.344	3.184	11.2	22.0
3 22	13 35.44	−16 22.4	2.262	3.181	8.2	21.8
4 1	13 28.48	−15 36.9	2.205	3.178	4.9	21.5
4 11	13 20.69	−14 40.2	2.177	3.175	2.0	21.3
4 21	13 12.84	−13 36.9	2.178	3.171	3.3	21.4
5 1	13 5.72	−12 32.4	2.208	3.167	6.7	21.6
5 11	12 59.98	−11 32.3	2.264	3.163	9.9	21.8
5 21	12 56.05	−10 41.2	2.343	3.158	12.7	22.0

215460 2002 QO_8 4 11.4 300°.85 3°.1/ 9.2 17

3 12	13 42.61	− 3 54.5	1.415	2.306	14.0	20.2
3 22	13 37.57	− 3 5.2	1.328	2.279	9.9	19.8
4 1	13 29.99	− 2 7.0	1.265	2.252	5.4	19.5
4 11	13 20.77	− 1 7.1	1.227	2.224	3.2	19.3
4 21	13 11.11	− 0 13.9	1.214	2.198	7.3	19.5
5 1	13 2.38	+ 0 24.4	1.226	2.171	12.3	19.7
5 11	12 55.76	+ 0 42.2	1.259	2.144	17.0	19.9
5 21	12 51.96	+ 0 37.4	1.309	2.118	21.0	20.0

254602 2005 GK_{119} 4 11.4 238°.40 0°.7/10.9 17

3 12	13 45.66	− 7 52.9	1.820	2.690	12.5	21.4
3 22	13 39.17	− 7 34.5	1.739	2.679	8.8	21.1
4 1	13 30.60	− 7 7.7	1.683	2.667	4.6	20.9
4 11	13 20.81	− 6 36.4	1.654	2.656	0.7	20.5
4 21	13 10.81	− 6 5.5	1.653	2.643	4.7	20.8
5 1	13 1.71	− 5 40.2	1.680	2.631	9.1	21.0
5 11	12 54.42	− 5 25.0	1.731	2.617	13.1	21.2
5 21	12 49.49	− 5 22.6	1.803	2.604	16.4	21.4

392538 2011 QA_{99} 4 11.5 210°.45 3°.5/ 7.7 18

3 12	13 44.51	+ 4 39.5	2.878	3.745	8.5	21.1
3 22	13 37.66	+ 4 56.9	2.804	3.739	6.1	21.0
4 1	13 29.55	+ 5 11.5	2.759	3.732	4.1	20.8
4 11	13 20.76	+ 5 19.8	2.744	3.725	3.6	20.8
4 21	13 11.95	+ 5 19.3	2.759	3.718	5.4	20.9
5 1	13 3.76	+ 5 8.0	2.804	3.710	7.8	21.0
5 11	12 56.75	+ 4 45.3	2.874	3.702	10.2	21.2
5 21	12 51.30	+ 4 11.5	2.967	3.694	12.2	21.3

202434 2005 XM_2 4 11.5 146°.08 3°.8/ 8.4 18

3 12	13 46.76	− 0 52.8	1.624	2.506	13.0	21.1
3 22	13 39.82	+ 0 2.1	1.571	2.516	9.1	20.9
4 1	13 30.84	+ 0 59.2	1.542	2.524	5.2	20.7
4 11	13 20.82	+ 1 51.4	1.540	2.533	4.0	20.6
4 21	13 10.90	+ 2 32.0	1.566	2.540	7.1	20.8
5 1	13 2.19	+ 2 56.0	1.618	2.547	11.0	21.1
5 11	12 55.52	+ 3 1.0	1.693	2.553	14.6	21.3
5 21	12 51.34	+ 2 47.4	1.786	2.558	17.6	21.5

61480 2000 QY_{39} 4 11.5 284°.21 4°.2/15.4 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 42.18	−21 58.8	2.200	3.019	12.5	19.2
3 22	13 36.57	−22 13.4	2.112	3.011	9.8	19.0
4 1	13 29.19	−22 11.7	2.047	3.002	6.9	18.8
4 11	13 20.75	−21 54.1	2.010	2.993	4.5	18.6
4 21	13 12.12	−21 23.0	1.999	2.984	4.7	18.6
5 1	13 4.22	−20 42.7	2.017	2.975	7.3	18.7
5 11	12 57.84	−19 59.3	2.060	2.966	10.3	18.9
5 21	12 53.51	−19 18.2	2.126	2.958	13.2	19.1

388704 2007 VO_{63} 4 11.5 69°.67 4°.6/ 7.1 18

3 12	13 42.45	+ 4 38.9	2.080	2.961	10.6	20.4
3 22	13 36.48	+ 5 17.3	2.028	2.969	7.7	20.2
4 1	13 28.98	+ 5 52.3	2.003	2.977	5.2	20.1
4 11	13 20.74	+ 6 18.5	2.005	2.986	4.9	20.1
4 21	13 12.58	+ 6 31.8	2.035	2.994	7.0	20.2
5 1	13 5.32	+ 6 29.6	2.092	3.002	9.9	20.4
5 11	12 59.61	+ 6 11.3	2.171	3.011	12.6	20.6
5 21	12 55.82	+ 5 37.9	2.271	3.019	15.0	20.8

213237 2000 XZ_{19} 4 11.5 225°.93 5°.8/ 4.6 18

3 12	13 43.95	+13 27.0	2.859	3.718	8.8	20.2
3 22	13 37.29	+14 1.8	2.793	3.708	7.0	20.1
4 1	13 29.36	+14 28.6	2.754	3.698	5.9	20.0
4 11	13 20.76	+14 43.1	2.744	3.687	6.1	20.0
4 21	13 12.15	+14 42.4	2.763	3.676	7.5	20.1
5 1	13 4.20	+14 25.1	2.808	3.664	9.5	20.2
5 11	12 57.45	+13 51.5	2.877	3.652	11.5	20.3
5 21	12 52.28	+13 3.2	2.967	3.640	13.2	20.4

245127 2004 RD_{65} 4 11.5 249°.70 1°.7/ 9.9 17

3 12	13 44.17	− 7 12.0	1.625	2.503	13.3	20.8
3 22	13 38.33	− 6 15.1	1.542	2.487	9.3	20.5
4 1	13 30.25	− 5 6.6	1.484	2.470	4.8	20.2
4 11	13 20.81	− 3 53.0	1.453	2.453	1.8	20.0
4 21	13 11.12	− 2 42.2	1.449	2.435	5.9	20.2
5 1	13 2.36	− 1 42.1	1.471	2.417	10.6	20.4
5 11	12 55.55	− 0 58.9	1.517	2.398	14.9	20.6
5 21	12 51.27	− 0 35.7	1.582	2.379	18.5	20.8

447680 2006 YW_{34} 4 11.5 36°.12 3°.1/ 9.7 18

3 12	13 45.53	− 3 46.9	1.008	1.910	17.3	20.6
3 22	13 39.74	− 3 17.2	0.965	1.920	12.0	20.4
4 1	13 31.04	− 2 41.2	0.942	1.930	6.4	20.1
4 11	13 20.84	− 2 7.2	0.942	1.941	3.2	19.9
4 21	13 10.82	− 1 43.5	0.965	1.953	7.7	20.2
5 1	13 2.57	− 1 36.2	1.010	1.965	13.1	20.6
5 11	12 57.18	− 1 48.7	1.074	1.978	17.8	20.9
5 21	12 55.08	− 2 20.4	1.155	1.991	21.7	21.2

241666 2000 OE_{38} 4 11.5 224°.30 1°.6/12.9 18

3 12	13 43.20	−16 16.7	1.718	2.571	13.9	20.5
3 22	13 37.54	−15 28.0	1.635	2.563	10.2	20.3
4 1	13 29.77	−14 19.8	1.577	2.555	5.9	20.0
4 11	13 20.79	−12 56.3	1.545	2.545	1.8	19.7
4 21	13 11.66	−11 24.8	1.542	2.536	4.3	19.8
5 1	13 3.51	− 9 54.0	1.565	2.525	8.8	20.1
5 11	12 57.24	− 8 32.8	1.614	2.515	13.0	20.3
5 21	12 53.40	− 7 27.3	1.683	2.503	16.6	20.5

428783 2008 SN_{258} 4 11.5 281°.18 2°.8/ 9.2 17

3 12	13 45.05	− 1 29.6	1.928	2.805	11.5	20.9
3 22	13 38.73	− 1 6.5	1.838	2.781	8.1	20.6
4 1	13 30.41	− 0 40.8	1.773	2.757	4.6	20.3
4 11	13 20.83	− 0 17.3	1.736	2.732	2.9	20.2
4 21	13 10.96	− 0 0.9	1.727	2.707	6.0	20.3
5 1	13 1.83	+ 0 4.2	1.746	2.681	9.9	20.5
5 11	12 54.35	− 0 4.7	1.788	2.656	13.6	20.7
5 21	12 49.11	− 0 28.6	1.851	2.630	16.8	20.8

205442 2001 OY_3 4 11.5 299°.54 0°.4/11.8 18

3 12	13 41.90	−10 39.8	1.986	2.851	11.8	20.1
3 22	13 36.38	−10 27.6	1.907	2.844	8.4	19.9
4 1	13 29.08	−10 5.7	1.854	2.837	4.5	19.6
4 11	13 20.77	− 9 37.2	1.828	2.829	0.5	19.3
4 21	13 12.33	− 9 6.4	1.829	2.822	3.9	19.5
5 1	13 4.70	− 8 37.9	1.859	2.815	7.9	19.8
5 11	12 58.65	− 8 16.5	1.913	2.809	11.6	20.0
5 21	12 54.68	− 8 5.2	1.988	2.802	14.7	20.2

480446 2015 KK_{144} 4 11.5 260°.58 7°.6/ 1.6 17

3 12	13 44.22	+20 3.8	2.781	3.625	9.5	21.5
3 22	13 37.60	+20 52.2	2.713	3.604	8.2	21.4
4 1	13 29.59	+21 28.8	2.672	3.582	7.6	21.4
4 11	13 20.81	+21 48.4	2.657	3.560	8.1	21.3
4 21	13 11.97	+21 47.8	2.669	3.537	9.5	21.4
5 1	13 3.80	+21 25.7	2.706	3.514	11.2	21.5
5 11	12 56.90	+20 43.0	2.764	3.491	13.0	21.6
5 21	12 51.68	+19 42.3	2.841	3.467	14.6	21.7

341159 2007 PG_{45} 4 11.5 218.°96 1.°0/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 40.73	− 7 27.9	2.220	3.091	10.5	21.6
3 22	13 35.36	− 6 45.7	2.145	3.086	7.3	21.4
4 1	13 28.48	− 5 56.0	2.095	3.081	3.7	21.2
4 11	13 20.76	− 5 3.2	2.074	3.075	1.1	21.0
4 21	13 12.98	− 4 12.3	2.082	3.070	4.2	21.2
5 1	13 5.92	− 3 28.4	2.118	3.064	7.8	21.4
5 11	13 0.27	− 2 55.4	2.179	3.058	11.1	21.6
5 21	12 56.43	− 2 35.6	2.262	3.051	13.9	21.8

153864 2001 XT_{72} 4 11.5 287.°70 9.°1/ 3.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.43	+14 30.5	1.690	2.566	13.0	19.4
3 22	13 39.00	+15 32.6	1.634	2.556	10.6	19.3
4 1	13 30.49	+16 21.8	1.602	2.547	9.2	19.2
4 11	13 20.85	+16 49.6	1.594	2.537	9.7	19.2
4 21	13 11.20	+16 50.8	1.612	2.528	11.7	19.3
5 1	13 2.66	+16 23.3	1.652	2.519	14.5	19.4
5 11	12 56.09	+15 29.0	1.713	2.510	17.2	19.6
5 21	12 51.98	+14 12.2	1.790	2.501	19.6	19.7

503021 2015 FE_{121} 4 11.5 234.°57 3.°4/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.73	− 0 21.0	1.983	2.866	11.0	20.6
3 22	13 36.15	+ 0 27.4	1.917	2.862	7.7	20.3
4 1	13 28.92	+ 1 17.7	1.877	2.859	4.5	20.1
4 11	13 20.78	+ 2 3.9	1.865	2.856	3.6	20.1
4 21	13 12.62	+ 2 40.7	1.880	2.853	6.3	20.2
5 1	13 5.30	+ 3 3.7	1.922	2.849	9.7	20.4
5 11	12 59.54	+ 3 10.5	1.988	2.846	12.9	20.6
5 21	12 55.79	+ 3 0.8	2.073	2.842	15.6	20.8

275901 2001 TY_{87} 4 11.5 143.°59 1.°3/12.9 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.14	−15 23.9	2.411	3.251	10.9	22.5
3 22	13 36.86	−14 47.6	2.344	3.265	7.9	22.3
4 1	13 29.19	−13 59.2	2.303	3.279	4.5	22.1
4 11	13 20.80	−13 1.8	2.291	3.291	1.4	21.9
4 21	13 12.48	−12 0.0	2.310	3.303	3.2	22.0
5 1	13 4.96	−10 59.2	2.358	3.314	6.5	22.3
5 11	12 58.87	−10 4.3	2.433	3.324	9.6	22.5
5 21	12 54.56	− 9 19.0	2.531	3.333	12.2	22.7

452783 2006 DE_{215} 4 11.5 40.°98 0.°6/11.8 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.88	−10 57.0	1.094	1.982	17.4	21.4
3 22	13 39.15	−10 45.6	1.050	1.996	12.3	21.1
4 1	13 30.69	−10 18.8	1.026	2.012	6.6	20.9
4 11	13 20.87	− 9 42.0	1.026	2.028	0.7	20.5
4 21	13 11.23	− 9 3.0	1.050	2.045	5.5	20.9
5 1	13 3.28	− 8 29.8	1.098	2.063	11.0	21.3
5 11	12 58.04	− 8 9.2	1.166	2.081	15.8	21.6
5 21	12 55.93	− 8 4.3	1.252	2.100	19.6	21.9

238856 2005 WQ_{77} 4 11.5 349.°19 4.°8/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.28	+ 0 34.9	1.241	2.136	15.2	20.2
3 22	13 40.07	+ 1 13.9	1.184	2.134	10.8	19.9
4 1	13 31.22	+ 1 53.6	1.149	2.133	6.4	19.6
4 11	13 20.90	+ 2 25.6	1.139	2.132	5.0	19.5
4 21	13 10.55	+ 2 42.7	1.154	2.131	8.6	19.7
5 1	13 1.61	+ 2 39.9	1.192	2.130	13.2	20.0
5 11	12 55.19	+ 2 15.5	1.250	2.130	17.5	20.2
5 21	12 51.79	+ 1 31.0	1.326	2.130	21.1	20.5

380081 2013 SQ_{40} 4 11.5 260.°34 2.°2/13.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.36	−21 50.9	1.085	1.948	19.5	20.2
3 22	13 37.09	−19 51.3	1.009	1.939	14.7	19.9
4 1	13 29.85	−17 6.0	0.953	1.931	8.8	19.5
4 11	13 20.84	−13 43.9	0.922	1.921	2.8	19.1
4 21	13 11.67	−10 3.2	0.916	1.912	5.7	19.3
5 1	13 3.99	− 6 28.3	0.936	1.903	12.2	19.6
5 11	12 59.05	− 3 20.8	0.979	1.893	18.1	19.9
5 21	12 57.44	− 0 53.0	1.040	1.884	23.0	20.2

204900 2007 UR_{90} 4 11.5 305.°77 0.°4/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.32	−11 39.3	1.996	2.861	11.7	20.7
3 22	13 35.25	−11 11.1	1.919	2.855	8.4	20.5
4 1	13 28.49	−10 31.5	1.868	2.850	4.5	20.2
4 11	13 20.78	− 9 44.3	1.843	2.845	0.5	19.9
4 21	13 12.97	− 8 54.7	1.847	2.840	3.8	20.2
5 1	13 5.97	− 8 8.1	1.878	2.835	7.8	20.4
5 11	13 0.52	− 7 29.8	1.934	2.830	11.4	20.6
5 21	12 57.06	− 7 3.3	2.011	2.826	14.5	20.8

115409 2003 SW_{294} 4 11.5 108.°06 1.°9/ 9.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.81	− 5 59.7	1.708	2.585	12.8	20.2
3 22	13 38.34	− 5 8.8	1.658	2.602	8.8	20.0
4 1	13 30.04	− 4 11.0	1.634	2.620	4.5	19.8
4 11	13 20.85	− 3 12.6	1.637	2.637	1.9	19.6
4 21	13 11.82	− 2 20.1	1.668	2.653	5.4	19.9
5 1	13 3.94	− 1 39.2	1.726	2.669	9.5	20.1
5 11	12 57.98	− 1 13.8	1.807	2.684	13.1	20.4
5 21	12 54.30	− 1 4.9	1.909	2.699	16.0	20.6

472005 2013 WE_{59} 4 11.5 177.°11 4.°0/ 7.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 43.30	+ 3 23.1	2.331	3.207	9.8	21.5
3 22	13 37.02	+ 4 7.8	2.269	3.209	7.1	21.3
4 1	13 29.30	+ 4 50.9	2.235	3.210	4.6	21.2
4 11	13 20.82	+ 5 27.1	2.229	3.211	4.3	21.2
4 21	13 12.36	+ 5 52.3	2.252	3.212	6.4	21.3
5 1	13 4.69	+ 6 3.5	2.303	3.212	9.2	21.5
5 11	12 58.42	+ 5 59.4	2.377	3.211	11.8	21.6
5 21	12 53.95	+ 5 40.3	2.473	3.210	14.1	21.8

298301 2003 BH_{94} 4 11.5 262.°31 1.°5/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.97	−13 54.0	2.330	3.178	10.9	20.6
3 22	13 37.00	−13 58.4	2.242	3.166	8.0	20.4
4 1	13 29.40	−13 52.6	2.179	3.155	4.7	20.2
4 11	13 20.83	−13 38.4	2.144	3.143	1.7	20.0
4 21	13 12.09	−13 18.5	2.139	3.131	3.4	20.1
5 1	13 4.00	−12 56.8	2.162	3.120	6.9	20.3
5 11	12 57.32	−12 37.3	2.211	3.108	10.2	20.4
5 21	12 52.50	−12 23.7	2.283	3.095	13.0	20.6

63186 2000 YB_{94} 4 11.5 194.°42 0.°3/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.33	− 9 14.1	2.953	3.811	8.6	20.7
3 22	13 34.10	− 8 43.8	2.874	3.809	6.0	20.6
4 1	13 27.73	− 8 7.2	2.823	3.806	3.1	20.4
4 11	13 20.76	− 7 27.1	2.801	3.803	0.3	20.1
4 21	13 13.74	− 6 46.9	2.810	3.800	3.0	20.3
5 1	13 7.28	− 6 10.2	2.848	3.796	5.9	20.5
5 11	13 1.86	− 5 39.9	2.913	3.792	8.6	20.7
5 21	12 57.83	− 5 18.4	3.001	3.787	10.9	20.9

412822 2014 PP_{40} 4 11.5 129.°80 1.°2/12.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.67	−14 0.2	1.815	2.669	13.3	22.6
3 22	13 38.98	−13 35.0	1.754	2.683	9.5	22.4
4 1	13 30.41	−12 55.8	1.717	2.696	5.4	22.2
4 11	13 20.88	−12 6.4	1.708	2.709	1.4	21.9
4 21	13 11.41	−11 12.4	1.728	2.721	4.0	22.1
5 1	13 3.04	−10 20.3	1.775	2.733	8.1	22.4
5 11	12 56.55	− 9 35.8	1.847	2.743	11.9	22.6
5 21	12 52.37	− 9 3.1	1.940	2.754	15.0	22.9

423612 2005 WU_{77} 4 11.5 132.°86 4.°7/16.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.29	−25 16.0	2.125	2.928	13.5	21.6
3 22	13 37.27	−25 4.1	2.053	2.939	10.6	21.5
4 1	13 29.51	−24 31.5	2.004	2.950	7.6	21.3
4 11	13 20.84	−23 39.7	1.982	2.960	5.1	21.2
4 21	13 12.19	−22 32.6	1.987	2.970	5.0	21.2
5 1	13 4.48	−21 16.8	2.021	2.979	7.3	21.3
5 11	12 58.45	−19 59.5	2.080	2.988	10.2	21.5
5 21	12 54.53	−18 47.6	2.163	2.996	13.0	21.7

37756 1997 EH_{11} 4 11.5 228.°13 7.°2/18.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.28	−31 12.6	2.142	2.910	14.5	19.1
3 22	13 38.25	−31 36.1	2.052	2.904	12.2	18.9
4 1	13 30.18	−31 36.5	1.984	2.897	9.7	18.7
4 11	13 20.88	−31 12.3	1.940	2.889	7.8	18.6
4 21	13 11.35	−30 25.3	1.922	2.882	7.3	18.5
5 1	13 2.67	−29 20.0	1.930	2.874	8.6	18.6
5 11	12 55.75	−28 4.4	1.964	2.865	11.0	18.7
5 21	12 51.16	−26 46.5	2.021	2.857	13.6	18.9

40304 1999 JX_{104} 4 11.5 195.°45 2.°0/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.41	− 3 32.1	2.381	3.256	9.7	19.0
3 22	13 35.03	− 2 51.9	2.312	3.255	6.7	18.8
4 1	13 28.28	− 2 7.9	2.269	3.254	3.6	18.6
4 11	13 20.80	− 1 24.7	2.255	3.252	2.1	18.5
4 21	13 13.29	− 0 46.5	2.270	3.250	4.7	18.6
5 1	13 6.47	− 0 17.4	2.313	3.249	7.8	18.8
5 11	13 0.95	+ 0 0.0	2.381	3.246	10.8	19.0
5 21	12 57.12	+ 0 4.3	2.471	3.244	13.3	19.2

1986 Plaut 4 11.5 186.°37 0.°7/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.59	− 7 57.1	2.858	3.720	8.7	17.7
3 22	13 34.30	− 7 20.0	2.783	3.720	6.0	17.5
4 1	13 27.85	− 6 37.0	2.735	3.719	3.1	17.3
4 11	13 20.78	− 5 51.4	2.716	3.718	0.7	17.1
4 21	13 13.69	− 5 6.8	2.728	3.716	3.3	17.4
5 1	13 7.17	− 4 27.1	2.769	3.714	6.3	17.5
5 11	13 1.74	− 3 55.3	2.837	3.711	8.9	17.7
5 21	12 57.75	− 3 33.4	2.928	3.708	11.2	17.9

7051 Sean 4 11.5 330.°73 1.°0/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.65	− 7 7.8	2.073	2.949	10.9	17.2
3 22	13 34.72	− 6 40.3	1.998	2.941	7.6	17.0
4 1	13 28.21	− 6 5.9	1.949	2.934	3.9	16.7
4 11	13 20.80	− 5 28.6	1.926	2.928	1.0	16.5
4 21	13 13.30	− 4 53.1	1.932	2.921	4.3	16.7
5 1	13 6.56	− 4 24.1	1.965	2.915	8.1	17.0
5 11	13 1.27	− 4 5.2	2.023	2.910	11.4	17.2
5 21	12 57.87	− 3 58.7	2.102	2.904	14.3	17.3

260548 2005 ED_{185} 4 11.5 309°.59 2°.6/13.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 44.69	−15 5.0	1.440	2.304	15.5	20.8
3 22	13 39.00	−15 15.9	1.362	2.294	11.5	20.5
4 1	13 30.75	−15 10.4	1.307	2.284	6.9	20.2
4 11	13 20.92	−14 50.2	1.276	2.275	2.9	19.9
4 21	13 10.79	−14 19.4	1.271	2.265	5.0	20.0
5 1	13 1.76	−13 44.8	1.291	2.256	9.7	20.3
5 11	12 54.97	−13 13.8	1.334	2.248	14.3	20.5
5 21	12 51.07	−12 52.3	1.397	2.240	18.2	20.7

457492 2008 UX_{359} 4 11.5 150°.04 4°.5/ 8.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.33	+ 0 38.4	1.551	2.436	13.3	21.8
3 22	13 39.66	+ 1 35.5	1.496	2.442	9.4	21.5
4 1	13 30.86	+ 2 33.4	1.466	2.448	5.7	21.3
4 11	13 20.94	+ 3 24.3	1.463	2.453	4.8	21.3
4 21	13 11.10	+ 4 1.4	1.487	2.457	7.8	21.5
5 1	13 2.48	+ 4 19.8	1.536	2.462	11.7	21.7
5 11	12 55.96	+ 4 17.6	1.607	2.465	15.3	21.9
5 21	12 52.00	+ 3 55.5	1.696	2.469	18.4	22.2

154080 2002 CS_{225} 4 11.5 137°.99 4°.5/ 6.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.39	+ 2 16.4	2.089	2.971	10.5	20.1
3 22	13 35.78	+ 3 43.3	2.039	2.982	7.5	20.0
4 1	13 28.68	+ 5 9.8	2.016	2.992	5.0	19.8
4 11	13 20.85	+ 6 28.5	2.022	3.002	4.9	19.8
4 21	13 13.09	+ 7 33.3	2.056	3.011	7.2	20.0
5 1	13 6.21	+ 8 19.6	2.116	3.019	10.1	20.2
5 11	13 0.83	+ 8 45.6	2.200	3.027	12.9	20.4
5 21	12 57.32	+ 8 51.7	2.303	3.035	15.2	20.6

433065 2012 TS_{24} 4 11.5 213°.81 2°.5/14.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.11	−18 39.9	2.281	3.114	11.6	21.6
3 22	13 35.71	−18 19.8	2.197	3.110	8.7	21.4
4 1	13 28.73	−17 44.6	2.138	3.106	5.5	21.2
4 11	13 20.86	−16 56.5	2.107	3.101	2.8	21.0
4 21	13 12.90	−15 59.5	2.104	3.096	3.6	21.0
5 1	13 5.67	−14 59.0	2.130	3.091	6.8	21.2
5 11	12 59.87	−14 0.9	2.182	3.085	10.0	21.4
5 21	12 55.95	−13 10.1	2.257	3.079	12.8	21.6

407659 2011 SU_{163} 4 11.5 248°.42 2°.5/13.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.39	−17 30.3	1.580	2.432	15.0	21.6
3 22	13 38.67	−17 1.8	1.493	2.418	11.2	21.3
4 1	13 30.55	−16 12.0	1.429	2.404	6.8	21.0
4 11	13 20.95	−15 3.9	1.391	2.389	2.8	20.7
4 21	13 11.07	−13 43.7	1.379	2.374	4.7	20.8
5 1	13 2.18	−12 20.5	1.395	2.358	9.4	21.0
5 11	12 55.36	−11 3.7	1.434	2.341	13.9	21.2
5 21	12 51.25	−10 0.8	1.493	2.325	17.8	21.4

259146 2002 XF_{84} 4 11.5 17°.85 21°.0/14.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	14 15.15	+37 27.9	0.827	1.644	28.0	18.4
3 22	13 59.72	+36 3.1	0.807	1.666	25.1	18.3
4 1	13 40.73	+33 33.6	0.803	1.692	22.6	18.2
4 11	13 21.37	+29 55.6	0.818	1.721	21.1	18.3
4 21	13 4.50	+25 23.4	0.855	1.752	21.3	18.4
5 1	12 51.93	+20 21.4	0.914	1.786	22.8	18.7
5 11	12 44.20	+15 14.8	0.995	1.823	24.8	18.9
5 21	12 40.96	+10 21.2	1.095	1.861	26.8	19.3

100305 1995 GN_{1} 4 11.5 207°.41 0°.6/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.96	− 7 1.0	2.230	3.090	10.9	20.3
3 22	13 39.78	− 6 55.0	2.149	3.085	7.6	20.1
4 1	13 30.88	− 6 43.4	2.095	3.078	4.0	19.8
4 11	13 20.98	− 6 29.0	2.070	3.072	0.6	19.5
4 21	13 10.96	− 6 15.2	2.075	3.064	4.0	19.8
5 1	13 1.71	− 6 5.5	2.109	3.056	7.8	20.0
5 11	12 54.00	− 6 3.1	2.170	3.047	11.2	20.2
5 21	12 48.32	− 6 10.0	2.252	3.038	14.0	20.4

270481 2002 EJ_{52} 4 11.5 62°.35 7°.0/ 4.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.19	+ 5 30.9	1.562	2.456	12.7	20.3
3 22	13 35.83	+ 7 35.1	1.538	2.482	9.4	20.1
4 1	13 28.72	+ 9 32.5	1.541	2.509	7.2	20.1
4 11	13 20.87	+11 12.4	1.570	2.536	7.6	20.1
4 21	13 13.30	+12 27.0	1.624	2.563	10.1	20.3
5 1	13 6.95	+13 12.4	1.703	2.590	13.0	20.6
5 11	13 2.49	+13 29.0	1.802	2.617	15.8	20.8
5 21	13 0.22	+13 19.9	1.918	2.644	18.0	21.1

370095 2001 SY_{338} 4 11.5 248°.42 0°.9/10.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.41	− 8 55.6	2.104	2.970	11.2	23.2
3 22	13 36.76	− 8 0.2	2.011	2.950	7.9	22.9
4 1	13 29.36	− 6 53.8	1.945	2.930	4.1	22.6
4 11	13 20.91	− 5 41.4	1.908	2.909	0.9	22.4
4 21	13 12.25	− 4 29.1	1.900	2.888	4.5	22.6
5 1	13 4.29	− 3 23.4	1.920	2.865	8.5	22.8
5 11	12 57.80	− 2 29.8	1.965	2.842	12.2	23.0
5 21	12 53.32	− 1 51.7	2.032	2.819	15.3	23.1

240365 2003 SR_{146} 4 11.5 227°.95 2°.7/13.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 45.09	−17 18.4	1.777	2.622	13.9	20.6
3 22	13 38.92	−17 9.0	1.694	2.614	10.4	20.4
4 1	13 30.59	−16 42.2	1.633	2.605	6.4	20.1
4 11	13 20.97	−16 0.1	1.600	2.596	3.0	19.9
4 21	13 11.13	−15 7.3	1.594	2.587	4.4	20.0
5 1	13 2.23	−14 10.4	1.615	2.576	8.5	20.2
5 11	12 55.22	−13 16.9	1.661	2.566	12.5	20.4
5 21	12 50.68	−12 32.7	1.728	2.555	16.0	20.6

81434 2000 GR_{109} 4 11.5 236°.34 3°.7/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.20	− 1 36.6	1.928	2.811	11.2	19.4
3 22	13 35.93	− 0 8.5	1.854	2.801	7.8	19.1
4 1	13 28.90	+ 1 25.1	1.807	2.789	4.7	18.9
4 11	13 20.89	+ 2 56.4	1.788	2.778	4.0	18.8
4 21	13 12.77	+ 4 17.6	1.797	2.765	6.9	19.0
5 1	13 5.46	+ 5 22.0	1.833	2.753	10.5	19.2
5 11	12 59.73	+ 6 5.7	1.892	2.740	13.9	19.4
5 21	12 56.05	+ 6 27.6	1.971	2.726	16.7	19.5

34975 1050 $T\text{-}_{3}$ 4 11.5 271°.17 3°.7/15.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.03	−22 29.3	2.361	3.178	11.9	19.0
3 22	13 34.96	−22 21.9	2.276	3.174	9.2	18.8
4 1	13 28.35	−21 57.7	2.216	3.170	6.4	18.6
4 11	13 20.86	−21 18.2	2.182	3.166	4.1	18.5
4 21	13 13.28	−20 26.6	2.176	3.162	4.2	18.5
5 1	13 6.41	−19 27.8	2.198	3.158	6.6	18.6
5 11	13 0.92	−18 27.9	2.246	3.154	9.5	18.8
5 21	12 57.27	−17 32.2	2.318	3.150	12.2	19.0

171290 2006 GA_{32} 4 11.5 348°.53 2°.8/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.67	− 4 49.5	1.041	1.947	16.5	19.6
3 22	13 36.56	− 4 16.1	0.981	1.938	11.6	19.3
4 1	13 29.59	− 3 33.4	0.941	1.930	6.1	19.0
4 11	13 20.92	− 2 49.6	0.924	1.924	2.9	18.7
4 21	13 12.08	− 2 13.9	0.929	1.919	7.5	19.0
5 1	13 4.65	− 1 54.2	0.956	1.915	13.1	19.3
5 11	12 59.86	− 1 55.6	1.003	1.913	18.2	19.6
5 21	12 58.30	− 2 19.1	1.065	1.912	22.3	19.8

505168 2012 SJ_{53} 4 11.5 308°.89 1°.6/12.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.15	−14 15.4	1.704	2.567	13.5	21.2
3 22	13 36.22	−13 59.9	1.618	2.551	9.9	20.9
4 1	13 29.21	−13 29.1	1.556	2.535	5.7	20.6
4 11	13 20.92	−12 46.0	1.520	2.520	1.8	20.3
4 21	13 12.37	−11 55.6	1.510	2.505	4.2	20.5
5 1	13 4.69	−11 4.7	1.527	2.490	8.7	20.7
5 11	12 58.82	−10 20.2	1.568	2.476	12.9	20.9
5 21	12 55.34	− 9 47.2	1.629	2.462	16.5	21.1

281955 2011 GM_{55} 4 11.5 212°.52 4°.2/ 7.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.69	+ 3 7.3	2.177	3.056	10.3	21.0
3 22	13 36.75	+ 3 54.9	2.111	3.052	7.4	20.8
4 1	13 29.26	+ 4 41.3	2.071	3.047	4.9	20.6
4 11	13 20.92	+ 5 20.9	2.060	3.042	4.5	20.6
4 21	13 12.55	+ 5 49.0	2.076	3.037	6.7	20.7
5 1	13 4.97	+ 6 2.1	2.120	3.032	9.7	20.9
5 11	12 58.85	+ 5 58.6	2.187	3.026	12.6	21.0
5 21	12 54.62	+ 5 39.0	2.274	3.020	15.0	21.2

23697 1997 MK_{9} 4 11.5 54°.16 2°.0/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.52	− 6 43.2	1.780	2.662	12.1	19.1
3 22	13 34.73	− 5 30.7	1.722	2.669	8.3	18.9
4 1	13 28.24	− 4 9.5	1.689	2.676	4.3	18.7
4 11	13 20.88	− 2 46.8	1.684	2.683	2.1	18.5
4 21	13 13.56	− 1 30.1	1.706	2.690	5.4	18.8
5 1	13 7.20	− 0 26.2	1.755	2.698	9.4	19.0
5 11	13 2.49	+ 0 20.3	1.827	2.705	12.9	19.2
5 21	12 59.86	+ 0 47.5	1.920	2.713	15.8	19.4

103477 2000 AA_{219} 4 11.5 192°.94 3°.4/15.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.62	−21 32.1	2.471	3.285	11.5	20.8
3 22	13 36.71	−21 26.6	2.386	3.284	8.8	20.6
4 1	13 29.26	−21 5.7	2.325	3.282	6.0	20.4
4 11	13 20.93	−20 30.5	2.293	3.279	3.7	20.2
4 21	13 12.52	−19 44.3	2.289	3.276	4.0	20.2
5 1	13 4.81	−18 51.5	2.314	3.272	6.5	20.4
5 11	12 58.48	−17 57.8	2.366	3.268	9.4	20.6
5 21	12 53.98	−17 8.1	2.441	3.263	12.0	20.7

227448 2005 WL_{53} 4 11.5 277°.69 2°.2/ 9.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.78	− 4 41.2	1.747	2.628	12.3	20.4
3 22	13 37.24	− 4 2.0	1.669	2.615	8.6	20.2
4 1	13 29.69	− 3 16.2	1.616	2.602	4.6	19.9
4 11	13 20.96	− 2 29.2	1.590	2.589	2.3	19.7
4 21	13 12.06	− 1 47.4	1.591	2.576	5.7	19.9
5 1	13 4.04	− 1 16.3	1.619	2.563	9.9	20.1
5 11	12 57.79	− 1 0.2	1.670	2.550	13.8	20.3
5 21	12 53.84	− 1 0.8	1.740	2.536	17.1	20.5

140067 2001 SA_{111} 4 11.5 66°.47 5°.0/17.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 41.42	−27 18.0	2.171	2.965	13.5	18.9
3 22	13 35.88	−27 2.5	2.113	2.990	10.8	18.8
4 1	13 28.77	−26 25.7	2.078	3.015	7.9	18.6
4 11	13 20.91	−25 29.5	2.069	3.041	5.6	18.5
4 21	13 13.19	−24 18.2	2.087	3.066	5.2	18.6
5 1	13 6.43	−22 58.3	2.134	3.091	7.0	18.7
5 11	13 1.30	−21 37.0	2.206	3.116	9.6	18.9
5 21	12 58.15	−20 20.9	2.302	3.141	12.1	19.1

258724 2002 GU_{92} 4 11.5 332°.61 1°.4/12.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.07	−15 11.1	1.359	2.230	15.7	19.9
3 22	13 36.42	−14 26.8	1.289	2.226	11.5	19.6
4 1	13 29.37	−13 21.1	1.241	2.222	6.5	19.3
4 11	13 20.95	−11 59.4	1.217	2.218	1.7	19.0
4 21	13 12.41	−10 30.5	1.220	2.215	4.8	19.2
5 1	13 5.05	− 9 4.8	1.247	2.212	10.0	19.5
5 11	12 59.90	− 7 52.0	1.297	2.209	14.7	19.7
5 21	12 57.51	− 6 58.1	1.365	2.207	18.7	20.0

386194 2007 VQ_{196} 4 11.5 117°.95 1°.2/12.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.87	−14 22.8	2.209	3.060	11.3	21.7
3 22	13 35.50	−13 57.9	2.139	3.066	8.2	21.6
4 1	13 28.60	−13 20.9	2.094	3.072	4.7	21.3
4 11	13 20.91	−12 35.2	2.077	3.077	1.4	21.1
4 21	13 13.21	−11 44.9	2.089	3.083	3.4	21.3
5 1	13 6.30	−10 55.4	2.129	3.088	6.9	21.5
5 11	13 0.83	−10 11.7	2.195	3.094	10.2	21.7
5 21	12 57.22	− 9 37.4	2.284	3.099	13.0	21.9

294587 2007 YL_{67} 4 11.5 203°.02 0°.3/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.01	−11 42.4	2.460	3.317	10.1	21.4
3 22	13 34.80	−11 10.6	2.382	3.315	7.2	21.2
4 1	13 28.22	−10 29.2	2.331	3.312	3.9	21.0
4 11	13 20.90	− 9 41.7	2.307	3.309	0.5	20.7
4 21	13 13.52	− 8 52.2	2.314	3.306	3.3	20.9
5 1	13 6.80	− 8 5.4	2.349	3.303	6.7	21.2
5 11	13 1.35	− 7 25.4	2.410	3.299	9.7	21.3
5 21	12 57.56	− 6 55.2	2.494	3.296	12.4	21.5

435406 2008 AU_{47} 4 11.5 333°.29 9°.1/31.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.00	+19 6.1	2.137	3.000	11.2	20.6
3 22	13 35.59	+20 24.2	2.095	2.997	9.7	20.5
4 1	13 28.65	+21 27.9	2.078	2.995	9.1	20.5
4 11	13 20.92	+22 10.4	2.086	2.993	9.8	20.5
4 21	13 13.24	+22 27.6	2.118	2.991	11.3	20.6
5 1	13 6.44	+22 18.1	2.173	2.990	13.3	20.7
5 11	13 1.17	+21 43.4	2.247	2.988	15.2	20.9
5 21	12 57.81	+20 47.0	2.337	2.987	16.9	21.0

413195 2002 WJ_{27} 4 11.5 215°.25 0°.9/13.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 33.00	−16 2.4	4.951	5.782	5.8	21.9
3 22	13 29.44	−15 34.7	4.863	5.778	4.3	21.8
4 1	13 25.26	−15 0.7	4.802	5.773	2.6	21.7
4 11	13 20.76	−14 22.0	4.772	5.769	1.1	21.6
4 21	13 16.24	−13 40.5	4.772	5.764	1.7	21.6
5 1	13 12.01	−12 58.4	4.802	5.760	3.4	21.7
5 11	13 8.36	−12 17.9	4.861	5.755	5.1	21.9
5 21	13 5.49	−11 40.9	4.945	5.750	6.6	22.0

384557 2010 FL_{18} 4 11.5 33°.90 2°.1/ 9.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.47	− 4 26.2	1.800	2.683	11.9	20.7
3 22	13 36.11	− 3 48.3	1.740	2.687	8.3	20.5
4 1	13 28.99	− 3 5.2	1.705	2.691	4.3	20.3
4 11	13 20.94	− 2 22.3	1.697	2.696	2.2	20.2
4 21	13 12.91	− 1 45.2	1.717	2.701	5.4	20.4
5 1	13 5.83	− 1 18.9	1.763	2.706	9.3	20.6
5 11	13 0.46	− 1 6.7	1.832	2.712	12.8	20.8
5 21	12 57.21	− 1 9.6	1.921	2.717	15.7	21.0

468103 2013 WN_{6} 4 11.5 224°.67 2°.3/ 9.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.12	− 2 39.8	2.200	3.072	10.5	21.6
3 22	13 37.82	− 2 7.1	2.121	3.063	7.3	21.4
4 1	13 29.87	− 1 31.1	2.069	3.052	4.0	21.2
4 11	13 20.99	− 0 56.2	2.045	3.042	2.4	21.0
4 21	13 11.99	− 0 26.9	2.051	3.031	5.2	21.2
5 1	13 3.73	− 0 7.3	2.085	3.019	8.6	21.4
5 11	12 56.95	− 0 0.2	2.144	3.007	11.9	21.6
5 21	12 52.10	− 0 6.7	2.224	2.994	14.6	21.7

422974 2003 HT_{49} 4 11.5 9°.54 5°.4/ 8.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 51.12	+ 6 7.3	1.638	2.514	13.3	20.3
3 22	13 43.01	+ 6 6.6	1.577	2.514	9.7	20.1
4 1	13 32.66	+ 5 58.6	1.540	2.515	6.4	19.9
4 11	13 21.12	+ 5 38.4	1.531	2.516	5.5	19.9
4 21	13 9.62	+ 5 2.7	1.550	2.517	8.0	20.0
5 1	12 59.37	+ 4 10.8	1.596	2.518	11.6	20.2
5 11	12 51.32	+ 3 3.9	1.665	2.519	15.1	20.5
5 21	12 45.93	+ 1 44.4	1.754	2.521	18.1	20.7

253298 2003 BT_{72} 4 11.5 54°.43 0°.5/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 46.54	−10 54.5	1.381	2.256	15.4	19.2
3 22	13 39.82	−10 43.7	1.343	2.283	10.8	19.0
4 1	13 30.92	−10 20.4	1.328	2.312	5.8	18.8
4 11	13 21.03	− 9 49.3	1.338	2.340	0.7	18.5
4 21	13 11.45	− 9 16.3	1.375	2.369	4.7	18.9
5 1	13 3.37	− 8 47.9	1.437	2.397	9.4	19.2
5 11	12 57.62	− 8 29.2	1.522	2.426	13.5	19.5
5 21	12 54.55	− 8 23.0	1.627	2.455	16.8	19.8

401600 2013 GZ_{24} 4 11.5 43°.94 4°.1/14.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.51	−18 59.9	1.260	2.119	17.6	20.4
3 22	13 38.95	−19 2.8	1.201	2.126	13.3	20.1
4 1	13 30.73	−18 42.0	1.163	2.134	8.5	19.9
4 11	13 21.03	−17 59.9	1.148	2.143	4.5	19.6
4 21	13 11.31	−17 2.5	1.158	2.151	5.5	19.7
5 1	13 3.03	−15 59.3	1.192	2.160	10.0	20.0
5 11	12 57.30	−15 0.2	1.248	2.170	14.5	20.3
5 21	12 54.61	−14 12.9	1.324	2.179	18.3	20.5

168789 2000 SF_{33} 4 11.5 245°.63 1°.7/10.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.47	− 6 44.6	1.701	2.577	12.9	21.4
3 22	13 38.52	− 5 54.2	1.619	2.562	9.0	21.1
4 1	13 30.42	− 4 53.8	1.561	2.547	4.7	20.8
4 11	13 21.02	− 3 49.2	1.531	2.531	1.8	20.6
4 21	13 11.40	− 2 47.7	1.529	2.515	5.6	20.8
5 1	13 2.68	− 1 56.3	1.553	2.498	10.2	21.0
5 11	12 55.83	− 1 20.5	1.600	2.480	14.3	21.2
5 21	12 51.42	− 1 3.1	1.667	2.462	17.8	21.4

196904 2003 TC_{16} 4 11.5 244°.12 2°.5/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.00	− 3 3.2	2.014	2.893	11.0	19.9
3 22	13 36.41	− 2 22.6	1.943	2.887	7.7	19.7
4 1	13 29.15	− 1 38.0	1.897	2.882	4.2	19.5
4 11	13 20.96	− 0 54.4	1.879	2.876	2.6	19.3
4 21	13 12.70	− 0 17.1	1.890	2.870	5.5	19.5
5 1	13 5.25	+ 0 9.3	1.928	2.864	9.1	19.7
5 11	12 59.34	+ 0 21.6	1.990	2.858	12.4	19.9
5 21	12 55.44	+ 0 18.9	2.072	2.852	15.2	20.1

16580 1992 HA 4 11.5 311°.37 2°.2/10.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.95	− 4 34.4	1.334	2.221	14.9	17.6
3 22	13 39.91	− 4 17.2	1.265	2.213	10.5	17.3
4 1	13 31.26	− 3 53.5	1.219	2.206	5.5	17.0
4 11	13 21.07	− 3 29.2	1.198	2.198	2.2	16.8
4 21	13 10.67	− 3 10.4	1.203	2.191	6.4	17.0
5 1	13 1.51	− 3 3.0	1.232	2.184	11.5	17.3
5 11	12 54.70	− 3 10.8	1.283	2.178	16.1	17.5
5 21	12 50.86	− 3 35.2	1.352	2.171	20.0	17.7

218006 2001 XU_{113} 4 11.5 192°.69 2°.6/ 8.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.63	− 1 26.9	2.600	3.471	9.1	21.7
3 22	13 36.53	− 0 32.7	2.528	3.468	6.4	21.5
4 1	13 29.10	+ 0 24.1	2.483	3.465	3.6	21.3
4 11	13 20.96	+ 1 18.7	2.469	3.461	2.8	21.3
4 21	13 12.79	+ 2 6.7	2.485	3.456	5.0	21.4
5 1	13 5.28	+ 2 43.9	2.529	3.450	7.9	21.6
5 11	12 59.00	+ 3 8.1	2.599	3.444	10.6	21.7
5 21	12 54.35	+ 3 18.1	2.691	3.436	12.9	21.9

434067 2001 WV_{52} 4 11.5 207°.31 2°.0/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.63	−18 5.6	2.576	3.409	10.5	21.7
3 22	13 34.54	−17 32.3	2.490	3.405	7.8	21.5
4 1	13 28.10	−16 45.3	2.431	3.401	4.8	21.3
4 11	13 20.92	−15 47.2	2.400	3.396	2.2	21.1
4 21	13 13.68	−14 42.1	2.398	3.391	3.1	21.2
5 1	13 7.08	−13 35.0	2.426	3.386	6.1	21.3
5 11	13 1.72	−12 31.2	2.480	3.380	9.1	21.5
5 21	12 57.98	−11 35.3	2.559	3.374	11.7	21.7

329301 2000 RM_{77} 4 11.5 249°.13 6°.9/ 4.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 49.72	+14 21.0	2.454	3.307	10.3	20.7
3 22	13 41.68	+15 1.7	2.372	3.283	8.3	20.5
4 1	13 31.90	+15 32.7	2.318	3.259	7.0	20.4
4 11	13 21.11	+15 48.5	2.293	3.233	7.3	20.4
4 21	13 10.17	+15 45.1	2.296	3.207	9.0	20.4
5 1	12 59.97	+15 20.6	2.327	3.180	11.3	20.5
5 11	12 51.27	+14 35.7	2.381	3.152	13.7	20.7
5 21	12 44.57	+13 33.0	2.456	3.124	15.8	20.8

502780 2015 DX_{92} 4 11.5 33°.76 2°.0/ 9.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.87	− 5 25.1	1.820	2.701	11.9	21.5
3 22	13 35.71	− 4 33.7	1.756	2.703	8.2	21.3
4 1	13 28.80	− 3 35.4	1.718	2.704	4.3	21.0
4 11	13 20.95	− 2 36.3	1.707	2.706	2.1	20.9
4 21	13 13.10	− 1 42.7	1.723	2.708	5.4	21.1
5 1	13 6.16	− 1 0.2	1.766	2.709	9.3	21.3
5 11	13 0.90	− 0 33.0	1.833	2.711	12.8	21.5
5 21	12 57.73	− 0 22.5	1.919	2.713	15.8	21.7

205764 2002 CZ_{37} 4 11.5 82°.23 1°.0/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 44.41	−13 32.3	1.400	2.270	15.5	20.6
3 22	13 38.54	−12 58.2	1.345	2.282	11.1	20.3
4 1	13 30.38	−12 7.0	1.312	2.294	6.1	20.1
4 11	13 21.03	−11 4.2	1.304	2.305	1.2	19.8
4 21	13 11.76	− 9 57.3	1.322	2.317	4.7	20.0
5 1	13 3.82	− 8 55.1	1.366	2.328	9.6	20.3
5 11	12 58.14	− 8 5.0	1.433	2.340	14.0	20.6
5 21	12 55.16	− 7 31.2	1.520	2.351	17.6	20.9

344404 2002 AG_{44} 4 11.5 112°.94 3°.7/ 6.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.91	+ 2 44.4	2.542	3.421	9.0	21.2
3 22	13 34.57	+ 3 41.6	2.494	3.435	6.4	21.1
4 1	13 28.03	+ 4 37.4	2.473	3.449	4.2	20.9
4 11	13 20.92	+ 5 26.8	2.481	3.462	3.9	20.9
4 21	13 13.88	+ 6 5.9	2.517	3.475	5.9	21.1
5 1	13 7.56	+ 6 31.5	2.581	3.488	8.4	21.3
5 11	13 2.47	+ 6 42.2	2.669	3.501	10.8	21.4
5 21	12 58.92	+ 6 38.1	2.778	3.513	12.8	21.6

499193 2009 SJ_{351} 4 11.5 186°.32 0°.7/12.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.78	−13 43.1	2.118	2.972	11.6	22.5
3 22	13 36.21	−12 55.2	2.042	2.972	8.3	22.3
4 1	13 29.03	−11 53.9	1.991	2.972	4.6	22.1
4 11	13 20.97	−10 43.4	1.969	2.971	0.8	21.8
4 21	13 12.87	− 9 29.5	1.976	2.969	3.6	22.0
5 1	13 5.58	− 8 18.6	2.011	2.967	7.5	22.2
5 11	12 59.81	− 7 16.6	2.072	2.964	11.0	22.4
5 21	12 55.98	− 6 27.5	2.156	2.961	13.9	22.6

508485 2016 PR_{67} 4 11.5 226°.34 4°.0/15.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.63	−23 18.7	2.430	3.240	11.8	21.5
3 22	13 35.38	−23 16.7	2.346	3.238	9.2	21.3
4 1	13 28.60	−22 58.2	2.286	3.236	6.5	21.1
4 11	13 20.95	−22 24.1	2.253	3.234	4.3	21.0
4 21	13 13.22	−21 37.5	2.248	3.231	4.3	21.0
5 1	13 6.18	−20 43.0	2.270	3.229	6.6	21.1
5 11	13 0.52	−19 46.3	2.320	3.227	9.3	21.3
5 21	12 56.67	−18 52.6	2.393	3.224	11.9	21.5

28108 Sydneybarnes 4 11.5 141°.01 1°.1/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 47.59	− 7 36.2	1.575	2.448	13.9	19.8
3 22	13 40.59	− 7 5.4	1.515	2.457	9.7	19.6
4 1	13 31.41	− 6 25.3	1.481	2.466	5.0	19.3
4 11	13 21.09	− 5 41.6	1.473	2.474	1.1	19.1
4 21	13 10.82	− 5 0.3	1.493	2.482	5.2	19.4
5 1	13 1.79	− 4 27.6	1.539	2.490	9.8	19.7
5 11	12 54.90	− 4 8.1	1.609	2.496	13.9	19.9
5 21	12 50.61	− 4 3.8	1.699	2.502	17.2	20.2

319497 2006 QC_{72} 4 11.5 133°.63 2°.0/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.11	−15 6.3	1.778	2.628	13.6	21.6
3 22	13 39.47	−15 1.1	1.711	2.637	10.0	21.4
4 1	13 30.82	−14 41.3	1.669	2.645	5.9	21.2
4 11	13 21.07	−14 9.6	1.654	2.653	2.2	21.0
4 21	13 11.30	−13 30.5	1.667	2.661	4.1	21.1
5 1	13 2.61	−12 50.0	1.707	2.668	8.2	21.4
5 11	12 55.85	−12 14.1	1.773	2.675	12.0	21.6
5 21	12 51.49	−11 47.3	1.859	2.681	15.2	21.8

457586 2009 AY_{20} 4 11.5 99°.06 3°.2/14.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 47.75	−18 51.9	1.589	2.431	15.5	22.2
3 22	13 40.64	−18 39.1	1.537	2.454	11.5	22.0
4 1	13 31.39	−18 6.3	1.508	2.477	7.2	21.8
4 11	13 21.09	−17 16.5	1.505	2.500	3.6	21.6
4 21	13 10.98	−16 15.9	1.529	2.522	4.6	21.7
5 1	13 2.24	−15 12.4	1.581	2.543	8.5	22.0
5 11	12 55.71	−14 13.8	1.657	2.564	12.4	22.3
5 21	12 51.80	−13 26.1	1.753	2.584	15.6	22.5

65820 1996 TR_{40} 4 11.5 199°.18 1°.7/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.56	− 6 7.5	2.031	2.901	11.4	20.9
3 22	13 38.21	− 5 15.3	1.956	2.897	7.9	20.6
4 1	13 30.11	− 4 15.6	1.907	2.892	4.1	20.4
4 11	13 21.04	− 3 13.6	1.887	2.887	1.8	20.2
4 21	13 11.89	− 2 15.5	1.896	2.880	5.0	20.4
5 1	13 3.59	− 1 26.9	1.934	2.873	8.9	20.6
5 11	12 56.89	− 0 52.1	1.996	2.865	12.3	20.8
5 21	12 52.28	− 0 33.1	2.079	2.857	15.3	21.0

63742 2001 QK_{256} 4 11.5 167°.16 3°.0/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.55	+ 0 5.6	2.707	3.584	8.6	19.9
3 22	13 34.32	+ 1 5.7	2.646	3.588	6.0	19.8
4 1	13 27.92	+ 2 7.0	2.611	3.591	3.7	19.6
4 11	13 20.93	+ 3 4.6	2.607	3.595	3.2	19.6
4 21	13 13.95	+ 3 54.2	2.632	3.597	5.2	19.7
5 1	13 7.59	+ 4 32.3	2.685	3.600	7.8	19.9
5 11	13 2.37	+ 4 56.7	2.763	3.602	10.2	20.0
5 21	12 58.62	+ 5 6.7	2.862	3.603	12.3	20.2

472060 2013 YX_{68} 4 11.5 65°.52 4°.7/16.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 42.60	−24 3.0	2.075	2.887	13.4	20.9
3 22	13 36.86	−24 12.2	2.010	2.902	10.6	20.7
4 1	13 29.39	−24 2.3	1.969	2.917	7.6	20.5
4 11	13 21.00	−23 34.3	1.953	2.931	5.2	20.4
4 21	13 12.63	−22 51.6	1.964	2.946	5.1	20.4
5 1	13 5.19	−21 59.6	2.003	2.961	7.3	20.6
5 11	12 59.43	−21 5.0	2.067	2.976	10.2	20.8
5 21	12 55.77	−20 13.6	2.154	2.991	12.9	21.0

464085 2014 WF_{319} 4 11.5 96°.01 3°.3/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.79	− 2 16.8	1.748	2.630	12.2	21.2
3 22	13 37.60	− 1 7.3	1.706	2.652	8.4	21.1
4 1	13 29.71	+ 0 5.2	1.689	2.673	4.7	20.9
4 11	13 21.02	+ 1 13.2	1.700	2.694	3.5	20.8
4 21	13 12.53	+ 2 10.2	1.739	2.714	6.5	21.1
5 1	13 5.16	+ 2 51.0	1.804	2.734	10.1	21.3
5 11	12 59.62	+ 3 13.0	1.893	2.753	13.3	21.6
5 21	12 56.25	+ 3 16.2	2.001	2.772	16.0	21.8

462325 2008 HJ_{57} 4 11.5 336°.80 0°.9/12.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 38.60	−19 42.2	1.494	2.349	15.5	20.9
3 22	13 34.50	−17 20.8	1.414	2.343	11.3	20.6
4 1	13 28.30	−14 26.2	1.359	2.338	6.4	20.3
4 11	13 20.95	−11 8.4	1.332	2.333	1.2	19.9
4 21	13 13.59	− 7 42.8	1.335	2.329	4.8	20.2
5 1	13 7.33	− 4 27.1	1.367	2.325	10.0	20.5
5 11	13 3.05	− 1 35.9	1.425	2.321	14.7	20.7
5 21	13 1.22	+ 0 42.5	1.504	2.318	18.5	21.0

431980 2008 UM_{180} 4 11.5 189°.16 1°.5/10.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.28	− 4 47.7	2.257	3.127	10.4	21.4
3 22	13 37.16	− 4 22.2	2.186	3.127	7.2	21.2
4 1	13 29.51	− 3 52.3	2.141	3.126	3.8	21.0
4 11	13 21.02	− 3 21.9	2.125	3.124	1.6	20.8
4 21	13 12.49	− 2 55.1	2.138	3.123	4.4	21.0
5 1	13 4.72	− 2 35.7	2.179	3.120	7.9	21.2
5 11	12 58.39	− 2 26.5	2.246	3.118	11.0	21.4
5 21	12 53.91	− 2 29.0	2.334	3.115	13.7	21.6

276134 2002 GF_{153} 4 11.5 345°.99 6°.6/ 5.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.52	+ 6 11.4	1.593	2.486	12.6	19.8
3 22	13 36.36	+ 7 17.8	1.538	2.482	9.4	19.6
4 1	13 29.22	+ 8 19.6	1.506	2.478	6.9	19.5
4 11	13 21.00	+ 9 8.4	1.500	2.475	7.0	19.5
4 21	13 12.78	+ 9 37.6	1.520	2.472	9.5	19.6
5 1	13 5.61	+ 9 43.2	1.563	2.470	12.8	19.8
5 11	13 0.32	+ 9 24.6	1.627	2.468	16.0	20.0
5 21	12 57.38	+ 8 44.1	1.708	2.466	18.8	20.2

156730 2002 VM_{140} 4 11.5 274°.17 0°.6/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 33.70	− 6 38.8	4.411	5.275	5.8	20.3
3 22	13 29.99	− 6 12.4	4.329	5.268	4.0	20.2
4 1	13 25.59	− 5 42.8	4.276	5.261	2.1	20.0
4 11	13 20.83	− 5 12.2	4.253	5.254	0.6	19.9
4 21	13 16.03	− 4 42.5	4.260	5.247	2.3	20.0
5 1	13 11.56	− 4 16.0	4.297	5.240	4.3	20.1
5 11	13 7.71	− 3 54.4	4.361	5.233	6.1	20.3
5 21	13 4.72	− 3 39.0	4.450	5.226	7.7	20.4

105342 2000 QE_{94} 4 11.5 168°.71 4°.3/16.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.91	−24 4.8	2.454	3.258	11.9	19.9
3 22	13 36.27	−24 11.9	2.373	3.259	9.4	19.8
4 1	13 29.07	−24 2.5	2.315	3.260	6.8	19.6
4 11	13 21.01	−23 37.3	2.284	3.262	4.7	19.5
4 21	13 12.85	−22 58.8	2.282	3.262	4.6	19.5
5 1	13 5.41	−22 11.2	2.307	3.263	6.7	19.6
5 11	12 59.37	−21 20.3	2.359	3.264	9.3	19.8
5 21	12 55.18	−20 31.2	2.434	3.264	11.8	19.9

209117 2003 SY_{172} 4 11.5 268°.02 1°.4/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.07	− 6 56.7	1.602	2.479	13.4	20.9
3 22	13 39.12	− 6 23.0	1.516	2.460	9.5	20.6
4 1	13 30.84	− 5 39.4	1.455	2.441	5.0	20.3
4 11	13 21.10	− 4 51.3	1.421	2.422	1.4	20.0
4 21	13 11.04	− 4 5.2	1.413	2.402	5.6	20.2
5 1	13 1.89	− 3 27.8	1.432	2.382	10.4	20.4
5 11	12 54.71	− 3 4.7	1.473	2.361	14.8	20.6
5 21	12 50.15	− 2 58.7	1.534	2.340	18.6	20.8

44157 1998 HO_{123} 4 11.5 250°.69 4°.0/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.11	− 0 48.7	1.915	2.796	11.4	19.5
3 22	13 37.40	+ 0 31.4	1.831	2.776	8.0	19.3
4 1	13 29.80	+ 1 56.9	1.774	2.755	4.9	19.1
4 11	13 21.05	+ 3 20.2	1.745	2.734	4.2	19.0
4 21	13 12.08	+ 4 33.6	1.744	2.711	7.2	19.1
5 1	13 3.88	+ 5 30.4	1.770	2.688	10.9	19.3
5 11	12 57.30	+ 6 6.5	1.819	2.665	14.4	19.4
5 21	12 52.87	+ 6 20.8	1.887	2.640	17.4	19.6

303259 2004 RU_{73} 4 11.5 170°.92 1°.8/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 46.22	− 5 43.6	1.768	2.642	12.6	21.5
3 22	13 39.51	− 5 0.5	1.703	2.646	8.8	21.3
4 1	13 30.83	− 4 10.2	1.664	2.649	4.6	21.0
4 11	13 21.10	− 3 18.5	1.652	2.652	1.9	20.8
4 21	13 11.36	− 2 31.5	1.668	2.653	5.4	21.1
5 1	13 2.66	− 1 55.0	1.712	2.655	9.6	21.3
5 11	12 55.85	− 1 32.8	1.780	2.655	13.3	21.5
5 21	12 51.38	− 1 26.8	1.867	2.655	16.4	21.8

181655 2007 VZ_{189} 4 11.5 166°.57 2°.0/ 9.6 17

3 12	13 45.34	− 4 46.1	1.978	2.850	11.5	21.5
3 22	13 38.71	− 3 59.4	1.914	2.856	8.0	21.3
4 1	13 30.35	− 3 6.9	1.876	2.861	4.2	21.0
4 11	13 21.07	− 2 14.3	1.867	2.865	2.1	20.9
4 21	13 11.82	− 1 27.1	1.886	2.868	5.2	21.1
5 1	13 3.50	− 0 50.4	1.933	2.871	9.0	21.3
5 11	12 56.87	− 0 27.6	2.005	2.873	12.4	21.5
5 21	12 52.35	− 0 20.2	2.098	2.874	15.2	21.7

458759 2011 SP_6 4 11.5 129°.15 2°.4/13.2 18

3 12	13 47.21	−15 42.8	1.526	2.381	15.3	22.1
3 22	13 40.51	−15 37.2	1.462	2.389	11.2	21.9
4 1	13 31.46	−15 14.2	1.421	2.397	6.7	21.7
4 11	13 21.13	−14 36.7	1.407	2.405	2.6	21.4
4 21	13 10.79	−13 50.2	1.419	2.413	4.6	21.6
5 1	13 1.71	−13 1.9	1.457	2.420	9.1	21.8
5 11	12 54.86	−12 19.2	1.520	2.426	13.3	22.1
5 21	12 50.76	−11 47.5	1.602	2.433	16.9	22.4

122840 2000 SH_{121} 4 11.5 176°.63 1°.7/ 9.9 18

3 12	13 45.22	− 3 47.0	2.487	3.352	9.7	20.1
3 22	13 38.38	− 3 25.0	2.416	3.354	6.8	20.0
4 1	13 30.11	− 2 59.9	2.373	3.356	3.6	19.7
4 11	13 21.07	− 2 35.1	2.359	3.358	1.7	19.6
4 21	13 12.01	− 2 14.2	2.376	3.358	4.3	19.8
5 1	13 3.69	− 2 0.4	2.422	3.358	7.5	20.0
5 11	12 56.74	− 1 56.1	2.494	3.358	10.4	20.2
5 21	12 51.55	− 2 2.4	2.589	3.356	12.9	20.4

33761 Honoranavid 4 11.5 131°.72 3°.1/ 8.8 18

3 12	13 44.40	− 2 52.6	1.761	2.641	12.3	18.8
3 22	13 38.14	− 1 51.0	1.708	2.653	8.5	18.6
4 1	13 30.05	− 0 45.1	1.680	2.664	4.7	18.4
4 11	13 21.06	+ 0 18.1	1.679	2.674	3.2	18.3
4 21	13 12.16	+ 1 11.9	1.707	2.684	6.3	18.5
5 1	13 4.34	+ 1 50.9	1.761	2.694	10.0	18.7
5 11	12 58.35	+ 2 12.1	1.839	2.703	13.5	19.0
5 21	12 54.59	+ 2 15.0	1.936	2.711	16.3	19.2

255648 2006 QD_{19} 4 11.5 181°.49 0°.3/11.2 16

3 12	13 44.93	− 9 33.9	2.071	2.932	11.5	21.9
3 22	13 38.44	− 9 2.7	1.998	2.933	8.1	21.7
4 1	13 30.23	− 8 22.2	1.951	2.934	4.2	21.5
4 11	13 21.07	− 7 36.5	1.932	2.934	0.3	21.1
4 21	13 11.87	− 6 50.4	1.943	2.933	4.1	21.4
5 1	13 3.53	− 6 9.2	1.982	2.932	8.0	21.7
5 11	12 56.81	− 5 37.4	2.046	2.930	11.5	21.9
5 21	12 52.14	− 5 17.8	2.132	2.927	14.4	22.1

52736 1998 HA_{61} 4 11.5 148°.37 0°.4/11.1 18

3 12	13 44.03	− 7 22.9	2.399	3.260	10.1	18.6
3 22	13 37.62	− 7 22.0	2.327	3.263	7.1	18.4
4 1	13 29.74	− 7 16.0	2.282	3.266	3.7	18.2
4 11	13 21.05	− 7 7.3	2.267	3.268	0.4	17.9
4 21	13 12.33	− 6 58.8	2.281	3.271	3.6	18.2
5 1	13 4.34	− 6 53.6	2.324	3.273	7.0	18.4
5 11	12 57.74	− 6 54.5	2.393	3.275	10.1	18.6
5 21	12 52.93	− 7 3.1	2.485	3.277	12.7	18.8

73541 2003 OE_{22} 4 11.5 197°.02 0°.3/11.8 18

3 12	13 45.83	−11 12.6	2.140	2.994	11.5	20.4
3 22	13 39.09	−10 48.2	2.059	2.991	8.2	20.2
4 1	13 30.59	−10 13.5	2.005	2.986	4.4	20.0
4 11	13 21.10	− 9 31.8	1.979	2.981	0.5	19.6
4 21	13 11.50	− 8 47.6	1.984	2.976	3.8	19.9
5 1	13 2.71	− 8 6.0	2.016	2.969	7.7	20.1
5 11	12 55.51	− 7 31.8	2.075	2.961	11.2	20.3
5 21	12 50.38	− 7 8.4	2.156	2.953	14.2	20.5

434476 2005 QP_{136} 4 11.5 267°.44 3°.9/ 6.3 16

3 12	13 38.73	+ 1 34.4	2.507	3.388	9.0	21.4
3 22	13 33.98	+ 2 58.1	2.424	3.367	6.5	21.2
4 1	13 27.86	+ 4 24.2	2.367	3.344	4.3	21.0
4 11	13 20.96	+ 5 46.6	2.341	3.322	4.2	20.9
4 21	13 13.92	+ 6 59.5	2.343	3.299	6.4	21.0
5 1	13 7.43	+ 7 57.7	2.373	3.275	9.2	21.2
5 11	13 2.11	+ 8 38.3	2.427	3.252	11.9	21.3
5 21	12 58.36	+ 9 0.3	2.501	3.228	14.2	21.4

172067 2001 YH_{94} 4 11.5 223°.56 4°.2/16.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 40.88	−24 36.3	2.444	3.247	11.9	20.3
3 22	13 35.58	−24 30.4	2.356	3.242	9.5	20.1
4 1	13 28.73	−24 6.8	2.292	3.237	6.8	20.0
4 11	13 21.01	−23 26.7	2.254	3.232	4.6	19.8
4 21	13 13.17	−22 32.8	2.245	3.227	4.5	19.8
5 1	13 6.04	−21 30.1	2.264	3.222	6.6	19.9
5 11	13 0.29	−20 24.6	2.309	3.216	9.4	20.1
5 21	12 56.36	−19 22.1	2.379	3.210	12.0	20.2

142490 2002 TU_{28} 4 11.5 279°.52 1°.2/10.6 17

3 12	13 44.09	− 7 18.8	1.618	2.496	13.3	20.0
3 22	13 38.42	− 6 48.4	1.533	2.477	9.4	19.7
4 1	13 30.47	− 6 8.1	1.473	2.459	4.9	19.4
4 11	13 21.11	− 5 23.0	1.438	2.440	1.2	19.1
4 21	13 11.44	− 4 39.3	1.431	2.421	5.4	19.3
5 1	13 2.67	− 4 3.6	1.450	2.401	10.2	19.6
5 11	12 55.83	− 3 41.4	1.492	2.382	14.5	19.8
5 21	12 51.55	− 3 35.5	1.553	2.363	18.2	20.0

93948 2000 WK_{177} 4 11.5 121°.37 3°.6/ 8.1 18

3 12	13 42.75	− 0 0.9	1.908	2.790	11.4	19.6
3 22	13 36.93	+ 0 50.3	1.851	2.796	8.0	19.4
4 1	13 29.42	+ 1 42.5	1.821	2.802	4.7	19.2
4 11	13 21.05	+ 2 29.8	1.817	2.808	3.8	19.2
4 21	13 12.73	+ 3 6.6	1.842	2.814	6.5	19.4
5 1	13 5.35	+ 3 28.7	1.893	2.819	9.9	19.6
5 11	12 59.62	+ 3 34.0	1.968	2.824	13.0	19.8
5 21	12 55.95	+ 3 22.4	2.062	2.830	15.7	20.0

331762 2002 XR_{49} 4 11.5 141°.89 11°.3/22.2 18

3 12	13 48.33	−38 23.3	1.350	2.107	22.0	21.3
3 22	13 41.99	−38 27.1	1.280	2.115	19.0	21.1
4 1	13 32.48	−37 47.2	1.227	2.123	15.7	20.9
4 11	13 21.22	−36 20.3	1.193	2.130	12.8	20.8
4 21	13 9.96	−34 10.0	1.182	2.137	11.3	20.7
5 1	13 0.50	−31 28.7	1.195	2.143	12.3	20.8
5 11	12 54.06	−28 34.7	1.232	2.149	15.0	20.9
5 21	12 51.15	−25 45.5	1.290	2.153	18.2	21.2

296176 2009 BT_{143} 4 11.5 265°.55 6°.0/ 5.9 16

3 12	13 43.47	+ 3 3.5	1.598	2.487	12.7	21.0
3 22	13 37.95	+ 4 36.7	1.521	2.467	9.3	20.8
4 1	13 30.21	+ 6 12.3	1.470	2.446	6.5	20.6
4 11	13 21.11	+ 7 40.3	1.445	2.424	6.5	20.5
4 21	13 11.75	+ 8 51.3	1.447	2.402	9.6	20.6
5 1	13 3.32	+ 9 37.9	1.472	2.380	13.4	20.8
5 11	12 56.79	+ 9 57.0	1.519	2.357	17.2	21.0
5 21	12 52.79	+ 9 49.1	1.583	2.334	20.3	21.1

495845 2002 PP_{123} 4 11.5 225°.87 0°.3/11.2 17

3 12	13 43.43	−10 32.4	2.138	2.998	11.3	22.3
3 22	13 37.47	− 9 43.4	2.050	2.985	8.0	22.1
4 1	13 29.79	− 8 42.9	1.988	2.971	4.2	21.8
4 11	13 21.09	− 7 35.4	1.955	2.957	0.3	21.5
4 21	13 12.24	− 6 26.6	1.952	2.942	4.1	21.8
5 1	13 4.12	− 5 22.6	1.977	2.926	8.1	22.0
5 11	12 57.51	− 4 29.1	2.028	2.910	11.6	22.2
5 21	12 52.89	− 3 49.6	2.101	2.892	14.7	22.3

306739 2000 XU_{16} 4 11.5 221°.42 4°.8/18.2 18

3 12	13 41.20	−29 37.0	3.119	3.880	10.6	21.1
3 22	13 35.62	−29 37.7	3.019	3.869	8.7	20.9
4 1	13 28.71	−29 21.9	2.942	3.858	6.8	20.8
4 11	13 21.04	−28 49.8	2.892	3.847	5.2	20.7
4 21	13 13.24	−28 3.1	2.871	3.835	4.9	20.6
5 1	13 5.99	−27 5.3	2.878	3.822	6.1	20.7
5 11	12 59.88	−26 1.2	2.913	3.810	8.0	20.8
5 21	12 55.31	−24 56.0	2.972	3.796	10.0	20.9

297803 2002 AH_7 4 11.5 166°.52 0°.6/12.2 18

3 12	13 38.99	−13 12.0	2.610	3.462	9.8	21.0
3 22	13 34.04	−12 30.7	2.535	3.464	7.0	20.8
4 1	13 27.85	−11 39.3	2.486	3.466	3.8	20.6
4 11	13 20.99	−10 41.1	2.467	3.468	0.7	20.4
4 21	13 14.12	− 9 40.4	2.477	3.470	3.0	20.6
5 1	13 7.89	− 8 42.1	2.516	3.471	6.2	20.8
5 11	13 2.84	− 7 50.4	2.582	3.473	9.1	21.0
5 21	12 59.34	− 7 8.5	2.671	3.474	11.6	21.1

259597 2003 UQ_{268} 4 11.5 159°.17 0°.6/12.1 18

3 12	13 44.73	−12 46.1	1.978	2.833	12.3	22.1
3 22	13 38.34	−12 10.0	1.909	2.840	8.8	21.9
4 1	13 30.19	−11 21.4	1.866	2.847	4.8	21.6
4 11	13 21.12	−10 24.3	1.851	2.853	0.8	21.3
4 21	13 12.04	− 9 24.4	1.865	2.858	3.9	21.6
5 1	13 3.92	− 8 27.6	1.907	2.863	7.9	21.8
5 11	12 57.48	− 7 39.7	1.975	2.866	11.5	22.1
5 21	12 53.18	− 7 4.3	2.065	2.869	14.5	22.3

80119 1999 RY_{138} 4 11.5 293°.77 6°.8/25.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 39.99	−46 33.5	4.422	5.024	9.6	18.9
3 22	13 34.73	−47 8.2	4.319	5.013	8.8	18.8
4 1	13 28.24	−47 27.2	4.235	5.002	8.0	18.7
4 11	13 21.02	−47 29.2	4.174	4.991	7.3	18.6
4 21	13 13.62	−47 14.2	4.136	4.980	6.9	18.6
5 1	13 6.66	−46 43.5	4.122	4.969	6.9	18.6
5 11	13 0.68	−46 0.1	4.133	4.957	7.4	18.6
5 21	12 56.08	−45 7.7	4.166	4.946	8.1	18.6

211477 2003 ET_{52} 4 11.5 36°.20 0°.1/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.37	− 7 33.0	1.952	2.818	11.9	19.4
3 22	13 39.50	− 7 52.2	1.889	2.826	8.4	19.2
4 1	13 30.81	− 8 5.6	1.851	2.834	4.4	19.0
4 11	13 21.15	− 8 15.7	1.841	2.843	0.2	18.7
4 21	13 11.48	− 8 24.8	1.860	2.852	4.0	19.0
5 1	13 2.78	− 8 35.9	1.907	2.861	7.9	19.2
5 11	12 55.82	− 8 51.8	1.979	2.871	11.4	19.5
5 21	12 51.04	− 9 14.3	2.073	2.880	14.4	19.7

106971 2000 YB_{90} 4 11.5 184°.68 7°.5/21.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.43	−38 12.7	2.833	3.536	12.7	19.9
3 22	13 36.69	−38 32.9	2.743	3.535	11.1	19.7
4 1	13 29.34	−38 31.6	2.675	3.535	9.5	19.6
4 11	13 21.07	−38 7.8	2.630	3.535	8.1	19.5
4 21	13 12.70	−37 22.3	2.611	3.534	7.5	19.5
5 1	13 5.05	−36 18.7	2.618	3.533	7.9	19.5
5 11	12 58.83	−35 2.8	2.650	3.532	9.2	19.6
5 21	12 54.51	−33 41.2	2.707	3.530	10.9	19.7

190379 1999 RQ_{123} 4 11.5 194°.82 1°.1/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.52	−15 10.9	2.764	3.602	9.7	21.2
3 22	13 35.79	−14 33.9	2.679	3.599	7.0	21.0
4 1	13 28.77	−13 45.6	2.620	3.595	4.1	20.8
4 11	13 21.05	−12 48.9	2.591	3.591	1.3	20.6
4 21	13 13.27	−11 47.8	2.592	3.585	2.9	20.7
5 1	13 6.11	−10 46.8	2.624	3.579	6.0	20.9
5 11	13 0.12	− 9 50.7	2.683	3.572	8.9	21.1
5 21	12 55.70	− 9 2.9	2.766	3.565	11.4	21.3

289211 2004 XH_{22} 4 11.5 204°.55 6°.2/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.00	+12 42.2	2.658	3.523	9.2	21.5
3 22	13 36.81	+13 47.5	2.599	3.517	7.3	21.3
4 1	13 29.30	+14 45.5	2.566	3.510	6.3	21.3
4 11	13 21.08	+15 30.7	2.562	3.503	6.6	21.3
4 21	13 12.84	+15 59.1	2.586	3.494	8.2	21.4
5 1	13 5.28	+16 8.3	2.636	3.485	10.3	21.5
5 11	12 58.97	+15 58.4	2.708	3.475	12.3	21.6
5 21	12 54.30	+15 30.8	2.800	3.465	14.1	21.7

287706 2003 QQ_{53} 4 11.5 234°.11 2°.7/14.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.26	−18 27.6	2.430	3.256	11.3	21.3
3 22	13 38.00	−18 29.4	2.334	3.242	8.5	21.1
4 1	13 30.07	−18 17.8	2.263	3.228	5.5	20.9
4 11	13 21.14	−17 54.1	2.221	3.213	3.0	20.7
4 21	13 11.98	−17 20.7	2.208	3.198	3.7	20.7
5 1	13 3.46	−16 41.9	2.224	3.182	6.7	20.9
5 11	12 56.33	−16 2.8	2.267	3.165	9.9	21.0
5 21	12 51.08	−15 28.0	2.333	3.148	12.7	21.2

499100 2009 FV_{70} 4 11.5 350°.59 2°.5/12.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.88	−13 34.4	1.041	1.931	17.9	20.5
3 22	13 36.93	−13 52.9	0.976	1.922	13.2	20.1
4 1	13 29.96	−13 53.1	0.931	1.914	7.8	19.8
4 11	13 21.13	−13 37.4	0.907	1.907	2.8	19.5
4 21	13 12.00	−13 11.1	0.906	1.902	5.7	19.6
5 1	13 4.26	−12 42.4	0.926	1.899	11.4	19.9
5 11	12 59.25	−12 20.1	0.966	1.897	16.6	20.2
5 21	12 57.63	−12 10.3	1.023	1.897	21.1	20.5

46337 2001 RE_{76} 4 11.5 278°.06 1°.2/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.37	− 9 17.2	1.704	2.581	12.8	18.6
3 22	13 35.58	− 8 7.8	1.629	2.573	8.9	18.3
4 1	13 28.87	− 6 45.3	1.579	2.565	4.6	18.0
4 11	13 21.08	− 5 16.3	1.556	2.557	1.2	17.8
4 21	13 13.17	− 3 49.1	1.561	2.549	5.2	18.0
5 1	13 6.18	− 2 32.0	1.592	2.542	9.6	18.3
5 11	13 0.95	− 1 31.4	1.647	2.534	13.6	18.5
5 21	12 57.96	− 0 50.7	1.722	2.526	16.9	18.7

216029 2005 XW_{64} 4 11.5 215°.29 2°.3/ 9.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.34	− 3 44.4	2.236	3.109	10.3	20.7
3 22	13 36.58	− 2 48.1	2.159	3.102	7.2	20.5
4 1	13 29.28	− 1 46.6	2.109	3.093	3.9	20.2
4 11	13 21.10	− 0 45.2	2.088	3.084	2.5	20.1
4 21	13 12.83	+ 0 10.5	2.096	3.074	5.2	20.3
5 1	13 5.29	+ 0 55.6	2.132	3.064	8.6	20.5
5 11	12 59.15	+ 1 26.5	2.193	3.053	11.8	20.6
5 21	12 54.85	+ 1 41.8	2.275	3.041	14.4	20.8

106669 2000 WF_{147} 4 11.5 196°.90 7°.5/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 43.94	+21 47.2	3.004	3.840	9.1	20.1
3 22	13 37.33	+22 36.1	2.957	3.837	8.0	20.0
4 1	13 29.52	+23 12.5	2.935	3.833	7.5	20.0
4 11	13 21.12	+23 32.0	2.941	3.829	7.9	20.0
4 21	13 12.77	+23 32.0	2.973	3.824	9.1	20.1
5 1	13 5.12	+23 11.9	3.029	3.819	10.6	20.2
5 11	12 58.68	+22 32.7	3.107	3.814	12.0	20.3
5 21	12 53.80	+21 37.1	3.203	3.808	13.4	20.4

60199 1999 VF_{56} 4 11.5 253°.59 0°.9/10.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.74	− 8 21.5	1.783	2.654	12.6	20.1
3 22	13 38.73	− 7 46.0	1.696	2.637	8.9	19.9
4 1	13 30.61	− 7 0.0	1.634	2.619	4.7	19.6
4 11	13 21.19	− 6 8.2	1.599	2.600	0.9	19.2
4 21	13 11.51	− 5 16.6	1.592	2.581	4.9	19.5
5 1	13 2.66	− 4 31.8	1.612	2.562	9.5	19.7
5 11	12 55.59	− 3 59.1	1.656	2.542	13.6	19.9
5 21	12 50.90	− 3 41.8	1.720	2.522	17.1	20.1

372572 2009 UK_{57} 4 11.5 160°.08 0°.4/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.15	−11 56.2	2.264	3.118	11.0	22.6
3 22	13 37.09	−11 24.7	2.193	3.124	7.8	22.4
4 1	13 29.51	−10 43.0	2.149	3.130	4.2	22.2
4 11	13 21.13	− 9 54.6	2.134	3.135	0.5	21.9
4 21	13 12.75	− 9 4.1	2.148	3.140	3.5	22.2
5 1	13 5.16	− 8 16.5	2.190	3.144	7.1	22.4
5 11	12 59.04	− 7 36.4	2.259	3.148	10.3	22.6
5 21	12 54.77	− 7 6.9	2.351	3.151	13.1	22.8

64838 2001 YJ_{2} 4 11.5 7°.19 9°.2/19.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.89	−33 50.8	1.983	2.739	15.9	18.1
3 22	13 38.99	−34 56.6	1.906	2.740	13.7	18.0
4 1	13 30.81	−35 38.2	1.849	2.741	11.5	17.8
4 11	13 21.21	−35 52.5	1.815	2.743	9.7	17.7
4 21	13 11.31	−35 39.6	1.806	2.746	9.2	17.7
5 1	13 2.36	−35 3.2	1.821	2.749	10.1	17.7
5 11	12 55.37	−34 10.8	1.860	2.752	12.0	17.9
5 21	12 50.97	−33 10.8	1.920	2.756	14.2	18.0

146240 2000 WS_{180} 4 11.5 216°.19 4°.6/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.08	+ 9 21.4	3.162	4.031	7.7	21.0
3 22	13 34.66	+10 18.1	3.094	4.021	5.9	20.8
4 1	13 28.15	+11 10.7	3.054	4.010	4.8	20.7
4 11	13 21.07	+11 54.7	3.044	3.999	5.0	20.7
4 21	13 13.94	+12 26.7	3.062	3.987	6.4	20.8
5 1	13 7.32	+12 44.5	3.108	3.975	8.4	20.9
5 11	13 1.69	+12 47.1	3.178	3.962	10.3	21.1
5 21	12 57.38	+12 35.0	3.268	3.949	12.0	21.2

85383 1996 MS 4 11.5 236°.75 2°.8/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.92	− 1 23.6	2.470	3.342	9.5	21.1
3 22	13 36.95	− 0 25.8	2.383	3.324	6.7	20.9
4 1	13 29.48	+ 0 35.6	2.323	3.304	3.9	20.7
4 11	13 21.14	+ 1 35.4	2.292	3.284	3.0	20.6
4 21	13 12.64	+ 2 28.6	2.291	3.262	5.4	20.7
5 1	13 4.74	+ 3 10.6	2.319	3.240	8.6	20.9
5 11	12 58.11	+ 3 38.3	2.372	3.217	11.5	21.0
5 21	12 53.19	+ 3 50.5	2.447	3.193	14.0	21.2

59829 1999 RZ_{32} 4 11.5 243°.06 0°.1/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.36	−10 26.1	2.710	3.566	9.3	19.9
3 22	13 35.06	−10 3.1	2.621	3.554	6.6	19.7
4 1	13 28.45	− 9 32.3	2.559	3.541	3.5	19.5
4 11	13 21.09	− 8 56.7	2.526	3.528	0.2	19.2
4 21	13 13.61	− 8 19.4	2.523	3.514	3.1	19.5
5 1	13 6.68	− 7 44.5	2.549	3.501	6.3	19.6
5 11	13 0.89	− 7 15.4	2.601	3.487	9.2	19.8
5 21	12 56.64	− 6 54.9	2.677	3.472	11.8	20.0

149991 2005 UA_{71} 4 11.5 31°.85 4°.5/14.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.26	−18 48.2	1.369	2.223	16.7	19.0
3 22	13 39.38	−19 21.0	1.314	2.235	12.7	18.8
4 1	13 30.98	−19 33.4	1.279	2.247	8.4	18.6
4 11	13 21.21	−19 26.2	1.269	2.261	4.9	18.4
4 21	13 11.44	−19 3.2	1.284	2.275	5.7	18.5
5 1	13 3.04	−18 31.1	1.323	2.289	9.5	18.7
5 11	12 57.03	−17 58.1	1.386	2.304	13.5	19.0
5 21	12 53.93	−17 30.8	1.468	2.320	17.0	19.3

83495 2001 ST_{114} 4 11.5 34°.48 0°.8/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 37.78	−11 7.4	1.901	2.774	11.9	18.9
3 22	13 33.52	− 9 40.4	1.839	2.780	8.3	18.7
4 1	13 27.68	− 8 0.3	1.801	2.787	4.2	18.5
4 11	13 21.04	− 6 14.2	1.792	2.794	0.8	18.2
4 21	13 14.45	− 4 30.3	1.812	2.801	4.5	18.5
5 1	13 8.71	− 2 56.5	1.859	2.809	8.4	18.8
5 11	13 4.51	− 1 39.1	1.932	2.817	12.0	19.0
5 21	13 2.22	− 0 41.3	2.025	2.825	14.9	19.2

425292 2009 WP_{213} 4 11.5 141°.82 3°.0/14.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 46.45	−18 18.3	2.172	3.001	12.3	21.5
3 22	13 39.53	−18 28.7	2.101	3.011	9.3	21.3
4 1	13 30.85	−18 24.9	2.055	3.020	6.0	21.1
4 11	13 21.22	−18 8.2	2.037	3.029	3.2	21.0
4 21	13 11.54	−17 41.6	2.048	3.037	4.0	21.0
5 1	13 2.76	−17 9.4	2.087	3.045	7.1	21.2
5 11	12 55.62	−16 37.1	2.153	3.053	10.3	21.4
5 21	12 50.59	−16 9.2	2.241	3.059	13.1	21.6

275181 2009 WH_{52} 4 11.5 158°.41 2°.3/ 8.9 17

3 12	13 41.98	− 3 43.9	2.241	3.115	10.3	21.5
3 22	13 36.24	− 2 45.3	2.178	3.121	7.1	21.3
4 1	13 29.06	− 1 42.3	2.143	3.127	3.8	21.1
4 11	13 21.13	− 0 40.3	2.136	3.132	2.4	21.0
4 21	13 13.22	+ 0 15.2	2.159	3.137	5.1	21.2
5 1	13 6.11	+ 0 59.8	2.210	3.142	8.4	21.4
5 11	13 0.41	+ 1 30.1	2.286	3.145	11.3	21.6
5 21	12 56.50	+ 1 45.0	2.382	3.149	13.9	21.8

390610 2001 UL_{37} 4 11.5 140°.48 0°.4/11.2 17

3 12	13 44.19	− 7 40.6	2.563	3.422	9.7	21.4
3 22	13 37.66	− 7 35.5	2.496	3.430	6.8	21.3
4 1	13 29.77	− 7 25.2	2.455	3.438	3.5	21.1
4 11	13 21.17	− 7 12.2	2.444	3.446	0.4	20.8
4 21	13 12.58	− 6 59.4	2.463	3.453	3.4	21.1
5 1	13 4.70	− 6 49.7	2.512	3.460	6.6	21.3
5 11	12 58.13	− 6 45.9	2.587	3.467	9.5	21.5
5 21	12 53.25	− 6 49.7	2.686	3.474	11.9	21.7

232524 2003 SY_{11} 4 11.5 207°.48 0°.3/11.3 18

3 12	13 41.89	− 9 45.3	2.132	2.997	11.1	21.1
3 22	13 36.35	− 9 11.5	2.057	2.994	7.8	20.9
4 1	13 29.20	− 8 28.4	2.007	2.991	4.1	20.7
4 11	13 21.16	− 7 40.1	1.985	2.987	0.3	20.3
4 21	13 13.05	− 6 51.3	1.993	2.984	3.9	20.6
5 1	13 5.71	− 6 7.3	2.028	2.980	7.7	20.9
5 11	12 59.85	− 5 32.6	2.088	2.976	11.1	21.1
5 21	12 55.90	− 5 10.0	2.170	2.971	14.0	21.2

329362 2001 TF_{156} 4 11.5 144°.78 0°.9/10.6 16

3 12	13 41.83	− 9 43.0	2.059	2.925	11.4	21.8
3 22	13 36.24	− 8 32.2	1.995	2.934	7.9	21.6
4 1	13 29.09	− 7 11.0	1.958	2.943	4.0	21.4
4 11	13 21.15	− 5 45.3	1.950	2.951	0.9	21.1
4 21	13 13.26	− 4 21.8	1.971	2.959	4.4	21.4
5 1	13 6.24	− 3 7.3	2.020	2.966	8.1	21.7
5 11	13 0.76	− 2 6.8	2.095	2.972	11.5	21.9
5 21	12 57.21	− 1 22.9	2.191	2.979	14.3	22.1

151884 2003 WO_{40} 4 11.5 242°.74 2°.3/ 7.3 18

3 12	13 35.12	+ 3 18.2	4.406	5.279	5.6	19.9
3 22	13 30.99	+ 3 42.7	4.338	5.277	4.0	19.8
4 1	13 26.17	+ 4 6.0	4.299	5.274	2.6	19.7
4 11	13 21.00	+ 4 26.0	4.290	5.272	2.4	19.6
4 21	13 15.82	+ 4 40.7	4.311	5.270	3.6	19.7
5 1	13 10.98	+ 4 48.5	4.360	5.267	5.2	19.8
5 11	13 6.79	+ 4 48.5	4.435	5.265	6.8	20.0
5 21	13 3.48	+ 4 40.2	4.534	5.263	8.2	20.1

435338 2007 VU_{68} 4 11.5 33°.09 2°.9/ 9.0 17

3 12	13 43.24	− 0 41.7	2.006	2.886	11.0	21.1
3 22	13 37.28	− 0 17.5	1.944	2.888	7.7	20.9
4 1	13 29.67	+ 0 7.7	1.907	2.890	4.4	20.7
4 11	13 21.19	+ 0 29.2	1.898	2.892	3.0	20.6
4 21	13 12.70	+ 0 42.9	1.917	2.895	5.7	20.8
5 1	13 5.09	+ 0 45.5	1.963	2.898	9.1	21.0
5 11	12 59.07	+ 0 35.0	2.034	2.900	12.3	21.2
5 21	12 55.06	+ 0 11.3	2.125	2.903	15.0	21.4

429370 2010 JM_{16} 4 11.5 116°.82 1°.5/10.0 17

3 12	13 40.99	− 6 44.2	1.981	2.857	11.3	21.2
3 22	13 35.73	− 5 52.4	1.918	2.861	7.8	21.0
4 1	13 28.86	− 4 53.0	1.880	2.866	4.0	20.7
4 11	13 21.14	− 3 51.8	1.870	2.870	1.6	20.6
4 21	13 13.44	− 2 54.4	1.889	2.875	4.8	20.8
5 1	13 6.59	− 2 6.5	1.934	2.879	8.5	21.0
5 11	13 1.29	− 1 32.2	2.004	2.883	11.9	21.2
5 21	12 57.95	− 1 13.4	2.095	2.887	14.7	21.4

174429 2002 XZ_{7} 4 11.5 190°.13 4°.1/ 7.2 18

3 12	13 42.42	+ 3 57.4	2.415	3.291	9.5	20.5
3 22	13 36.50	+ 4 39.2	2.351	3.290	6.9	20.4
4 1	13 29.20	+ 5 18.8	2.315	3.289	4.6	20.2
4 11	13 21.16	+ 5 51.6	2.307	3.288	4.3	20.2
4 21	13 13.12	+ 6 13.5	2.328	3.286	6.3	20.3
5 1	13 5.81	+ 6 21.7	2.376	3.284	9.0	20.5
5 11	12 59.82	+ 6 14.9	2.448	3.281	11.6	20.6
5 21	12 55.54	+ 5 53.6	2.541	3.279	13.8	20.8

225946 2002 BT_{23} 4 11.5 99°.28 6°.1/16.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 47.27	−24 54.8	1.856	2.663	15.0	20.2
3 22	13 40.51	−25 35.2	1.784	2.670	12.0	20.0
4 1	13 31.55	−25 55.1	1.735	2.676	8.9	19.8
4 11	13 21.29	−25 53.5	1.711	2.683	6.5	19.7
4 21	13 10.89	−25 32.3	1.713	2.689	6.4	19.7
5 1	13 1.52	−24 56.3	1.743	2.696	8.6	19.9
5 11	12 54.15	−24 13.1	1.797	2.702	11.7	20.0
5 21	12 49.33	−23 29.8	1.873	2.708	14.6	20.2

303957 2005 YD_{83} 4 11.6 336°.62 4°.2/ 8.5 16

3 12	13 42.31	− 2 37.3	1.209	2.108	15.2	20.6
3 22	13 37.48	− 1 27.9	1.149	2.103	10.7	20.3
4 1	13 30.08	− 0 11.3	1.112	2.098	6.0	20.0
4 11	13 21.22	+ 1 2.5	1.099	2.094	4.5	19.9
4 21	13 12.28	+ 2 3.3	1.110	2.090	8.4	20.1
5 1	13 4.63	+ 2 42.8	1.145	2.087	13.2	20.4
5 11	12 59.37	+ 2 56.8	1.199	2.084	17.7	20.6
5 21	12 57.02	+ 2 45.4	1.269	2.082	21.4	20.9

338474 2003 FR_{127} 4 11.6 62°.03 1°.0/12.4 18

3 12	13 46.50	−11 42.8	2.029	2.883	12.1	20.2
3 22	13 39.41	−11 51.8	1.983	2.913	8.6	20.0
4 1	13 30.70	−11 51.2	1.963	2.942	4.7	19.8
4 11	13 21.25	−11 43.5	1.971	2.972	1.2	19.6
4 21	13 11.98	−11 32.0	2.008	3.001	3.6	19.8
5 1	13 3.76	−11 20.5	2.073	3.031	7.2	20.1
5 11	12 57.28	−11 12.7	2.165	3.060	10.4	20.4
5 21	12 52.88	−11 11.4	2.278	3.089	13.1	20.6

124784 2001 ST_{254} 4 11.6 226°.39 2°.0/10.0 18

3 12	13 48.00	− 4 41.0	1.728	2.602	12.8	20.1
3 22	13 41.03	− 4 12.0	1.649	2.591	9.0	19.9
4 1	13 31.84	− 3 36.8	1.595	2.580	4.8	19.6
4 11	13 21.33	− 3 0.6	1.568	2.568	2.1	19.4
4 21	13 10.60	− 2 28.9	1.570	2.555	5.7	19.6
5 1	13 0.84	− 2 7.1	1.599	2.542	10.1	19.8
5 11	12 53.02	− 1 59.2	1.651	2.527	14.1	20.0
5 21	12 47.70	− 2 6.8	1.724	2.512	17.5	20.2

465421 2008 PF 4 11.6 307°.32 2°.4/14.0 17

3 12	13 39.50	−21 14.3	1.581	2.426	15.4	20.2
3 22	13 35.49	−19 44.2	1.467	2.387	11.7	19.8
4 1	13 29.12	−17 39.2	1.376	2.349	7.3	19.5
4 11	13 21.19	−15 2.6	1.312	2.310	2.9	19.1
4 21	13 12.79	−12 4.0	1.276	2.271	4.6	19.1
5 1	13 5.18	− 8 58.2	1.268	2.233	9.9	19.3
5 11	12 59.49	− 6 1.8	1.286	2.194	15.1	19.5
5 21	12 56.43	− 3 27.8	1.325	2.156	19.7	19.7

144767 2004 HR_{19} 4 11.6 305°.62 0°.5/11.1 17

3 12	13 40.83	− 8 42.4	2.012	2.883	11.4	20.3
3 22	13 35.78	− 8 18.8	1.928	2.868	8.0	20.1
4 1	13 28.99	− 7 46.6	1.869	2.854	4.2	19.8
4 11	13 21.18	− 7 9.5	1.837	2.839	0.5	19.5
4 21	13 13.19	− 6 32.1	1.834	2.825	4.2	19.7
5 1	13 5.93	− 5 59.6	1.857	2.811	8.2	20.0
5 11	13 0.17	− 5 36.4	1.905	2.797	11.8	20.2
5 21	12 56.42	− 5 25.3	1.975	2.783	14.9	20.3

505157 2012 QZ_{25} 4 11.6 250°.57 4°.2/ 6.2 17

3 12	13 39.43	+ 0 9.3	2.123	3.007	10.3	20.8
3 22	13 34.66	+ 1 56.5	2.050	2.995	7.3	20.6
4 1	13 28.33	+ 3 47.9	2.004	2.983	4.7	20.4
4 11	13 21.14	+ 5 35.4	1.988	2.970	4.7	20.4
4 21	13 13.85	+ 7 11.2	2.000	2.958	7.2	20.5
5 1	13 7.26	+ 8 28.8	2.040	2.944	10.4	20.7
5 11	13 2.07	+ 9 24.6	2.103	2.931	13.4	20.8
5 21	12 58.70	+ 9 57.5	2.185	2.917	15.9	21.0

317040 2001 RV_{74} 4 11.6 104°.29 0°.4/11.0 18

3 12	13 38.99	−11 37.0	2.342	3.203	10.4	19.9
3 22	13 34.11	−10 15.8	2.280	3.215	7.2	19.8
4 1	13 27.93	− 8 43.7	2.244	3.228	3.7	19.5
4 11	13 21.12	− 7 6.5	2.238	3.240	0.4	19.3
4 21	13 14.36	− 5 30.6	2.262	3.252	3.7	19.6
5 1	13 8.37	− 4 2.4	2.316	3.263	7.1	19.8
5 11	13 3.68	− 2 46.9	2.395	3.275	10.2	20.0
5 21	13 0.64	− 1 47.2	2.498	3.286	12.7	20.2

244703 2003 QS_{23} 4 11.6 187°.07 1°.1/10.5 18

3 12	13 43.60	− 8 42.9	1.846	2.716	12.3	20.7
3 22	13 37.71	− 7 42.9	1.775	2.716	8.6	20.5
4 1	13 29.98	− 6 32.0	1.730	2.715	4.4	20.2
4 11	13 21.23	− 5 16.2	1.713	2.714	1.1	20.0
4 21	13 12.44	− 4 2.7	1.724	2.712	4.9	20.3
5 1	13 4.59	− 2 58.3	1.763	2.710	9.1	20.5
5 11	12 58.47	− 2 8.5	1.826	2.707	12.8	20.7
5 21	12 54.53	− 1 36.0	1.910	2.703	15.9	20.9

162525 2000 QK_{127} 4 11.6 174°.03 0°.8/12.3 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 46.22	−12 49.0	2.088	2.938	11.9	20.9
3 22	13 39.40	−12 21.8	2.015	2.943	8.5	20.7
4 1	13 30.82	−11 42.8	1.966	2.946	4.7	20.4
4 11	13 21.28	−10 55.4	1.947	2.948	0.9	20.1
4 21	13 11.70	−10 4.3	1.957	2.950	3.7	20.4
5 1	13 3.02	− 9 15.1	1.996	2.950	7.6	20.6
5 11	12 55.98	− 8 33.2	2.061	2.950	11.1	20.8
5 21	12 51.05	− 8 2.0	2.148	2.949	14.1	21.0

299971 2006 TS_{95} 4 11.6 230°.59 0°.1/11.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.49	− 9 44.9	2.716	3.572	9.3	21.9
3 22	13 35.86	− 9 23.2	2.628	3.561	6.6	21.7
4 1	13 28.90	− 8 54.2	2.566	3.549	3.5	21.4
4 11	13 21.18	− 8 20.8	2.534	3.536	0.2	21.1
4 21	13 13.35	− 7 46.3	2.532	3.523	3.2	21.4
5 1	13 6.07	− 7 14.5	2.559	3.509	6.4	21.6
5 11	12 59.94	− 6 48.7	2.613	3.495	9.3	21.7
5 21	12 55.37	− 6 31.5	2.690	3.481	11.8	21.9

516860 2011 ET_{88} 4 11.6 271°.18 0°.4/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.55	− 9 41.3	1.986	2.846	12.0	21.1
3 22	13 39.92	− 9 47.7	1.894	2.827	8.6	20.8
4 1	13 31.26	− 9 46.2	1.827	2.809	4.7	20.6
4 11	13 21.32	− 9 39.0	1.787	2.789	0.5	20.2
4 21	13 11.06	− 9 29.1	1.777	2.770	4.1	20.4
5 1	13 1.53	− 9 20.5	1.795	2.750	8.3	20.6
5 11	12 53.66	− 9 17.3	1.839	2.730	12.1	20.8
5 21	12 48.04	− 9 22.5	1.904	2.710	15.5	21.0

477688 2010 RT_{67} 4 11.6 297°.74 2°.9/13.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.62	−16 55.6	2.223	3.059	11.8	21.5
3 22	13 38.50	−17 22.1	2.123	3.037	9.0	21.3
4 1	13 30.49	−17 37.0	2.048	3.016	5.8	21.0
4 11	13 21.28	−17 40.7	2.001	2.994	3.1	20.8
4 21	13 11.72	−17 34.8	1.982	2.973	4.1	20.8
5 1	13 2.76	−17 22.6	1.992	2.951	7.3	21.0
5 11	12 55.27	−17 8.7	2.028	2.930	10.7	21.1
5 21	12 49.82	−16 57.3	2.087	2.909	13.8	21.3

408304 2013 GP_{28} 4 11.6 321°.59 0°.5/11.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.94	−11 30.9	1.317	2.200	15.4	21.1
3 22	13 36.44	−10 24.8	1.248	2.194	10.9	20.8
4 1	13 29.53	− 8 59.7	1.202	2.188	5.7	20.5
4 11	13 21.23	− 7 23.5	1.181	2.183	0.5	20.1
4 21	13 12.80	− 5 46.5	1.185	2.178	5.6	20.4
5 1	13 5.56	− 4 19.8	1.215	2.173	10.9	20.7
5 11	13 0.53	− 3 12.1	1.266	2.169	15.7	20.9
5 21	12 58.26	− 2 27.9	1.335	2.165	19.6	21.2

32985 1996 XN_{3} 4 11.6 12°.88 6°.7/16.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.63	−24 25.6	1.291	2.134	18.3	17.7
3 22	13 36.38	−24 50.5	1.230	2.138	14.6	17.5
4 1	13 29.54	−24 47.4	1.188	2.143	10.6	17.3
4 11	13 21.23	−24 16.4	1.169	2.150	7.4	17.1
4 21	13 12.82	−23 22.0	1.172	2.158	7.1	17.1
5 1	13 5.73	−22 12.8	1.200	2.167	10.0	17.3
5 11	13 1.07	−21 0.2	1.249	2.177	13.8	17.6
5 21	12 59.35	−19 53.7	1.317	2.189	17.4	17.8

144817 2004 JB_{5} 4 11.6 3°.18 3°.8/14.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.42	−20 8.3	2.088	2.916	12.8	19.9
3 22	13 37.59	−20 29.6	2.010	2.916	9.8	19.7
4 1	13 29.95	−20 35.5	1.956	2.916	6.7	19.5
4 11	13 21.25	−20 26.8	1.929	2.916	4.2	19.3
4 21	13 12.42	−20 5.6	1.929	2.917	4.5	19.3
5 1	13 4.39	−19 36.5	1.957	2.917	7.3	19.5
5 11	12 57.99	−19 4.9	2.011	2.918	10.5	19.7
5 21	12 53.69	−18 36.0	2.086	2.919	13.4	19.9

70183 1999 RA_{3} 4 11.6 117°.63 0°.3/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.62	−10 33.2	1.730	2.597	13.1	19.2
3 22	13 38.40	− 9 47.9	1.673	2.611	9.2	19.0
4 1	13 30.31	− 8 50.9	1.641	2.625	4.8	18.8
4 11	13 21.27	− 7 47.7	1.636	2.638	0.3	18.4
4 21	13 12.32	− 6 45.0	1.659	2.651	4.5	18.8
5 1	13 4.48	− 5 49.5	1.710	2.663	8.8	19.1
5 11	12 58.52	− 5 6.5	1.785	2.675	12.5	19.3
5 21	12 54.86	− 4 39.1	1.881	2.687	15.6	19.6

33762 Sanjayseshan 4 11.6 128°.86 2°.1/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.36	− 4 30.0	1.987	2.864	11.2	19.4
3 22	13 36.68	− 3 44.7	1.926	2.870	7.8	19.2
4 1	13 29.37	− 2 54.2	1.891	2.876	4.1	18.9
4 11	13 21.22	− 2 4.0	1.884	2.882	2.2	18.8
4 21	13 13.09	− 1 19.5	1.905	2.887	5.1	19.0
5 1	13 5.85	− 0 45.4	1.953	2.893	8.8	19.3
5 11	13 0.18	− 0 25.2	2.026	2.898	12.1	19.5
5 21	12 56.51	− 0 20.0	2.119	2.903	14.8	19.7

434785 2006 OJ_{21} 4 11.6 196°.23 1°.4/ 9.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 39.92	− 5 50.1	2.626	3.495	9.1	22.0
3 22	13 34.73	− 5 3.4	2.552	3.493	6.3	21.8
4 1	13 28.28	− 4 11.4	2.505	3.490	3.3	21.6
4 11	13 21.16	− 3 18.2	2.488	3.487	1.4	21.5
4 21	13 14.01	− 2 28.1	2.500	3.484	4.0	21.7
5 1	13 7.46	− 1 45.2	2.541	3.480	7.0	21.9
5 11	13 2.09	− 1 12.7	2.608	3.476	9.8	22.0
5 21	12 58.24	− 0 52.5	2.697	3.471	12.2	22.2

438403 2006 UC_{210} 4 11.6 139°.64 2°.9/15.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.38	−20 52.4	2.563	3.383	10.9	21.3
3 22	13 35.13	−20 34.7	2.487	3.389	8.3	21.1
4 1	13 28.52	−20 2.4	2.435	3.395	5.6	20.9
4 11	13 21.19	−19 17.3	2.411	3.400	3.2	20.8
4 21	13 13.83	−18 23.0	2.416	3.406	3.5	20.8
5 1	13 7.17	−17 24.2	2.450	3.411	6.0	21.0
5 11	13 1.80	−16 26.3	2.511	3.416	8.8	21.2
5 21	12 58.09	−15 33.7	2.596	3.421	11.3	21.3

400242 2007 NZ_{4} 4 11.6 209°.71 2°.9/ 8.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.63	− 2 39.3	2.015	2.888	11.3	21.7
3 22	13 39.07	− 1 42.4	1.939	2.881	7.9	21.5
4 1	13 30.71	− 0 40.5	1.889	2.872	4.4	21.3
4 11	13 21.31	+ 0 20.1	1.868	2.863	3.0	21.1
4 21	13 11.80	+ 1 13.4	1.876	2.852	5.9	21.3
5 1	13 3.13	+ 1 54.1	1.912	2.841	9.6	21.5
5 11	12 56.08	+ 2 18.5	1.972	2.829	13.0	21.7
5 21	12 51.15	+ 2 25.7	2.053	2.815	15.9	21.9

15767 1993 FN_{7} 4 11.6 206°.86 2°.1/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.84	− 3 2.0	2.644	3.518	8.9	18.8
3 22	13 34.68	− 2 11.7	2.571	3.513	6.2	18.7
4 1	13 28.27	− 1 18.0	2.525	3.508	3.4	18.5
4 11	13 21.18	− 0 25.2	2.508	3.503	2.3	18.4
4 21	13 14.05	+ 0 22.5	2.520	3.497	4.5	18.5
5 1	13 7.52	+ 1 1.0	2.561	3.491	7.4	18.7
5 11	13 2.13	+ 1 27.6	2.628	3.485	10.1	18.9
5 21	12 58.27	+ 1 41.0	2.717	3.478	12.4	19.0

203081 2000 QG_{86} 4 11.6 304°.93 7°.9/16.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.98	−25 17.5	1.331	2.162	18.5	19.4
3 22	13 39.85	−26 3.6	1.244	2.143	15.1	19.2
4 1	13 31.66	−26 23.7	1.176	2.125	11.4	18.9
4 11	13 21.38	−26 14.3	1.131	2.107	8.4	18.7
4 21	13 10.45	−25 36.4	1.109	2.089	8.3	18.6
5 1	13 0.60	−24 36.3	1.110	2.072	11.3	18.7
5 11	12 53.29	−23 25.4	1.132	2.055	15.5	18.9
5 21	12 49.41	−22 15.3	1.174	2.039	19.6	19.1

389523 2010 HW_{96} 4 11.6 322°.22 4°.9/ 6.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.17	+ 2 33.3	1.821	2.713	11.3	20.2
3 22	13 34.71	+ 3 39.1	1.749	2.696	8.2	19.9
4 1	13 28.47	+ 4 45.5	1.701	2.679	5.5	19.7
4 11	13 21.19	+ 5 45.1	1.680	2.663	5.2	19.7
4 21	13 13.78	+ 6 31.2	1.685	2.648	7.9	19.8
5 1	13 7.15	+ 6 58.6	1.715	2.632	11.3	20.0
5 11	13 2.12	+ 7 4.9	1.768	2.618	14.6	20.1
5 21	12 59.16	+ 6 50.1	1.838	2.604	17.4	20.3

358003 2006 DX_{72} 4 11.6 315°.57 0°.5/11.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.69	− 9 4.8	1.176	2.067	16.2	20.5
3 22	13 38.17	− 8 45.6	1.095	2.044	11.6	20.2
4 1	13 30.72	− 8 11.9	1.035	2.022	6.2	19.8
4 11	13 21.33	− 7 29.0	0.999	2.001	0.5	19.3
4 21	13 11.41	− 6 44.3	0.986	1.980	6.1	19.6
5 1	13 2.61	− 6 6.7	0.996	1.959	12.1	19.9
5 11	12 56.28	− 5 44.1	1.026	1.940	17.5	20.1
5 21	12 53.23	− 5 40.9	1.073	1.922	22.1	20.3

155376 1992 RL_{5} 4 11.6 248°.68 0°.8/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.82	−12 28.8	2.163	3.015	11.5	20.2
3 22	13 38.59	−12 13.8	2.067	2.996	8.3	19.9
4 1	13 30.52	−11 47.7	1.997	2.976	4.7	19.7
4 11	13 21.31	−11 13.0	1.955	2.956	1.0	19.4
4 21	13 11.84	−10 33.6	1.942	2.935	3.7	19.5
5 1	13 3.05	− 9 54.6	1.958	2.913	7.7	19.7
5 11	12 55.75	− 9 20.9	1.999	2.891	11.3	19.9
5 21	12 50.50	− 8 56.6	2.063	2.868	14.5	20.1

250416 2003 UK_{333} 4 11.6 298°.74 1°.4/12.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.95	−13 14.4	1.374	2.246	15.6	21.0
3 22	13 38.85	−13 3.6	1.283	2.221	11.4	20.7
4 1	13 31.01	−12 35.6	1.215	2.197	6.6	20.3
4 11	13 21.35	−11 53.2	1.171	2.172	1.7	19.9
4 21	13 11.14	−11 2.1	1.152	2.147	5.1	20.1
5 1	13 1.87	−10 10.7	1.158	2.123	10.6	20.3
5 11	12 54.84	− 9 27.4	1.186	2.099	15.8	20.5
5 21	12 50.83	− 8 58.8	1.232	2.075	20.2	20.7

93663 2000 UX_{105} 4 11.6 143°.98 1°.9/ 9.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 40.51	− 7 15.0	1.980	2.855	11.4	20.1
3 22	13 35.40	− 5 51.0	1.916	2.860	7.8	19.8
4 1	13 28.72	− 4 17.7	1.879	2.865	4.0	19.6
4 11	13 21.21	− 2 42.3	1.871	2.870	2.0	19.5
4 21	13 13.73	− 1 12.3	1.892	2.874	5.2	19.7
5 1	13 7.10	+ 0 5.3	1.940	2.879	8.9	19.9
5 11	13 2.02	+ 1 5.9	2.013	2.883	12.2	20.2
5 21	12 58.86	+ 1 47.1	2.106	2.886	15.0	20.4

46148 2001 FC_{67} 4 11.6 253°.60 1°.6/10.3 18

3 12	13 45.64	− 5 40.8	1.720	2.595	12.8	19.2
3 22	13 39.40	− 5 14.5	1.640	2.583	9.0	18.9
4 1	13 31.02	− 4 41.2	1.585	2.570	4.7	18.7
4 11	13 21.34	− 4 5.6	1.557	2.557	1.7	18.4
4 21	13 11.45	− 3 33.4	1.556	2.544	5.4	18.6
5 1	13 2.48	− 3 10.0	1.583	2.530	9.8	18.9
5 11	12 55.38	− 2 59.6	1.633	2.516	13.9	19.1
5 21	12 50.71	− 3 4.2	1.703	2.502	17.3	19.3

457538 2008 WY_{126} 4 11.6 134°.61 3°.1/ 9.2 18

3 12	13 46.19	− 3 16.2	1.506	2.390	13.8	21.9
3 22	13 39.74	− 2 25.4	1.451	2.397	9.6	21.6
4 1	13 31.11	− 1 29.3	1.419	2.404	5.2	21.4
4 11	13 21.35	− 0 35.2	1.414	2.411	3.2	21.3
4 21	13 11.63	+ 0 9.6	1.436	2.417	6.7	21.5
5 1	13 3.16	+ 0 39.2	1.483	2.423	11.0	21.8
5 11	12 56.81	+ 0 50.3	1.553	2.428	14.9	22.0
5 21	12 53.05	+ 0 42.5	1.642	2.434	18.1	22.2

428294 2007 EL_{145} 4 11.6 177°.09 1°.3/12.7 17

3 12	13 45.63	−13 8.3	2.087	2.937	11.9	22.0
3 22	13 39.05	−13 4.8	2.012	2.939	8.6	21.7
4 1	13 30.68	−12 50.3	1.962	2.940	4.9	21.5
4 11	13 21.33	−12 27.1	1.940	2.940	1.4	21.3
4 21	13 11.88	−11 59.0	1.947	2.941	3.6	21.4
5 1	13 3.29	−11 30.4	1.983	2.941	7.5	21.7
5 11	12 56.33	−11 6.0	2.045	2.940	10.9	21.9
5 21	12 51.46	−10 49.6	2.129	2.939	13.9	22.1

271879 2004 UL_{7} 4 11.6 238°.24 0°.6/11.1 17

3 12	13 46.70	− 6 55.8	2.111	2.974	11.3	20.6
3 22	13 39.85	− 6 52.9	2.026	2.963	8.0	20.4
4 1	13 31.15	− 6 44.4	1.968	2.952	4.2	20.1
4 11	13 21.36	− 6 33.0	1.938	2.940	0.6	19.8
4 21	13 11.37	− 6 22.3	1.938	2.928	4.2	20.0
5 1	13 2.15	− 6 15.7	1.966	2.915	8.1	20.3
5 11	12 54.52	− 6 16.7	2.020	2.902	11.7	20.5
5 21	12 48.98	− 6 27.2	2.096	2.889	14.7	20.6

106490 2000 WB_{26} 4 11.6 190°.64 0°.4/12.0 18

3 12	13 39.89	−11 48.2	2.527	3.383	9.9	20.0
3 22	13 34.78	−11 21.0	2.450	3.382	7.0	19.8
4 1	13 28.35	−10 44.7	2.400	3.381	3.8	19.6
4 11	13 21.20	−10 2.5	2.379	3.381	0.5	19.3
4 21	13 14.00	− 9 18.2	2.387	3.380	3.1	19.5
5 1	13 7.45	− 8 36.0	2.423	3.379	6.4	19.8
5 11	13 2.12	− 8 0.1	2.486	3.377	9.4	19.9
5 21	12 58.39	− 7 33.3	2.572	3.376	12.0	20.1

209582 2004 XT_{104} 4 11.6 59°.11 2°.8/ 9.7 18

3 12	13 45.88	− 3 36.8	1.366	2.254	14.6	19.7
3 22	13 39.70	− 3 3.6	1.312	2.260	10.2	19.4
4 1	13 31.16	− 2 25.1	1.280	2.267	5.4	19.2
4 11	13 21.35	− 1 48.1	1.274	2.273	2.9	19.0
4 21	13 11.59	− 1 19.3	1.294	2.279	6.6	19.3
5 1	13 3.16	− 1 4.3	1.339	2.286	11.3	19.5
5 11	12 57.02	− 1 6.3	1.405	2.293	15.4	19.8
5 21	12 53.64	− 1 25.8	1.490	2.299	18.9	20.0

216316 2007 TD_{231} 4 11.6 348°.44 1°.0/10.7 17

3 12	13 40.89	−10 9.6	1.336	2.221	15.0	20.1
3 22	13 36.34	− 9 4.0	1.271	2.218	10.6	19.8
4 1	13 29.46	− 7 42.1	1.229	2.216	5.5	19.5
4 11	13 21.27	− 6 11.9	1.213	2.214	1.0	19.2
4 21	13 13.00	− 4 43.3	1.222	2.213	5.8	19.5
5 1	13 5.93	− 3 26.5	1.255	2.212	10.9	19.8
5 11	13 1.02	− 2 29.1	1.311	2.211	15.4	20.1
5 21	12 58.80	− 1 54.5	1.385	2.211	19.2	20.3

240277 2002 YY_{10} 4 11.6 127°.43 5°.7/ 5.0 18

3 12	13 41.54	+ 9 18.9	2.404	3.279	9.6	20.4
3 22	13 35.85	+10 18.5	2.357	3.288	7.3	20.3
4 1	13 28.86	+11 11.8	2.338	3.297	5.8	20.2
4 11	13 21.23	+11 53.4	2.347	3.305	6.0	20.2
4 21	13 13.68	+12 19.4	2.383	3.313	7.7	20.3
5 1	13 6.89	+12 27.3	2.445	3.321	10.0	20.5
5 11	13 1.45	+12 17.1	2.530	3.329	12.2	20.7
5 21	12 57.68	+11 50.1	2.634	3.337	14.1	20.8

344325 2001 VU_{8} 4 11.6 127°.50 4°.3/17.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 40.45	−26 25.2	2.520	3.312	11.9	20.7
3 22	13 35.23	−26 3.7	2.442	3.320	9.5	20.6
4 1	13 28.60	−25 23.4	2.388	3.328	6.9	20.4
4 11	13 21.22	−24 26.1	2.361	3.335	4.8	20.3
4 21	13 13.85	−23 15.2	2.362	3.342	4.5	20.3
5 1	13 7.22	−21 56.1	2.392	3.350	6.3	20.4
5 11	13 1.97	−20 35.5	2.449	3.357	8.9	20.6
5 21	12 58.46	−19 18.9	2.530	3.363	11.3	20.7

508752 2017 UO_{36} 4 11.6 236°.59 0°.6/12.2 17

3 12	13 41.26	−13 58.7	2.197	3.050	11.3	22.3
3 22	13 35.99	−13 3.5	2.108	3.037	8.1	22.1
4 1	13 29.09	−11 54.1	2.044	3.024	4.5	21.8
4 11	13 21.26	−10 34.5	2.008	3.010	0.8	21.5
4 21	13 13.29	− 9 10.6	2.003	2.996	3.6	21.7
5 1	13 6.03	− 7 49.1	2.026	2.981	7.5	21.9
5 11	13 0.20	− 6 36.4	2.075	2.966	11.0	22.1
5 21	12 56.25	− 5 37.0	2.146	2.950	14.0	22.3

460786 2014 WS_{26} 4 11.6 280°.60 1°.8/14.9 18

3 12	13 34.16	−19 43.0	4.312	5.128	6.9	21.1
3 22	13 30.43	−19 22.4	4.220	5.122	5.2	21.0
4 1	13 25.96	−18 53.4	4.155	5.115	3.4	20.9
4 11	13 21.08	−18 17.3	4.119	5.109	2.0	20.7
4 21	13 16.17	−17 36.2	4.113	5.102	2.2	20.8
5 1	13 11.60	−16 52.4	4.136	5.096	3.8	20.9
5 11	13 7.71	−16 8.9	4.188	5.089	5.7	21.0
5 21	13 4.74	−15 28.0	4.265	5.083	7.3	21.1

351610 2005 VS_{130} 4 11.6 277°.31 3°.7/ 8.7 17

3 12	13 43.49	− 3 55.3	1.300	2.193	14.8	21.0
3 22	13 38.33	− 2 41.3	1.229	2.181	10.4	20.7
4 1	13 30.61	− 1 17.1	1.182	2.168	5.7	20.4
4 11	13 21.35	+ 0 7.6	1.160	2.156	3.9	20.3
4 21	13 11.85	+ 1 22.4	1.162	2.143	7.9	20.4
5 1	13 3.52	+ 2 17.9	1.189	2.131	12.9	20.7
5 11	12 57.49	+ 2 48.5	1.236	2.118	17.5	20.9
5 21	12 54.35	+ 2 53.0	1.300	2.106	21.4	21.1

463692 2014 OQ_{296} 4 11.6 183°.16 0°.4/11.2 16

3 12	13 45.95	− 9 17.1	1.936	2.799	12.1	22.3
3 22	13 39.33	− 8 45.8	1.864	2.800	8.5	22.1
4 1	13 30.86	− 8 4.8	1.817	2.800	4.5	21.8
4 11	13 21.36	− 7 18.5	1.798	2.800	0.4	21.5
4 21	13 11.80	− 6 32.1	1.808	2.799	4.3	21.8
5 1	13 3.16	− 5 51.2	1.846	2.797	8.4	22.0
5 11	12 56.25	− 5 20.5	1.909	2.794	12.1	22.3
5 21	12 51.54	− 5 2.8	1.994	2.791	15.2	22.5

128096 2003 PZ_{7} 4 11.6 345°.02 4°.1/14.2 18

3 12	13 37.31	−17 54.7	0.983	1.868	19.1	18.2
3 22	13 34.62	−17 57.2	0.914	1.854	14.6	17.9
4 1	13 28.91	−17 31.9	0.864	1.842	9.3	17.5
4 11	13 21.27	−16 41.1	0.834	1.831	4.6	17.2
4 21	13 13.26	−15 31.8	0.825	1.822	6.0	17.3
5 1	13 6.62	−14 15.9	0.838	1.815	11.5	17.5
5 11	13 2.73	−13 6.5	0.870	1.809	17.0	17.8
5 21	13 2.30	−12 13.3	0.918	1.806	21.7	18.1

148791 2001 UW_{53} 4 11.6 114°.08 0°.6/11.0 17

3 12	13 42.68	− 9 23.5	1.784	2.656	12.6	20.0
3 22	13 37.10	− 8 40.3	1.721	2.662	8.8	19.8
4 1	13 29.68	− 7 46.7	1.683	2.668	4.6	19.6
4 11	13 21.31	− 6 47.9	1.672	2.674	0.6	19.3
4 21	13 12.94	− 5 50.2	1.689	2.680	4.5	19.6
5 1	13 5.56	− 4 59.9	1.733	2.685	8.7	19.8
5 11	12 59.94	− 4 22.1	1.801	2.691	12.4	20.1
5 21	12 56.50	− 3 59.5	1.889	2.696	15.6	20.3

477691 2010 RV_{92} 4 11.6 279°.88 6°.1/17.7 16

3 12	13 43.34	−28 46.4	2.443	3.219	12.7	20.6
3 22	13 37.55	−29 19.2	2.350	3.209	10.5	20.5
4 1	13 29.99	−29 33.8	2.280	3.200	8.3	20.3
4 11	13 21.34	−29 29.1	2.236	3.191	6.5	20.2
4 21	13 12.44	−29 6.1	2.218	3.181	6.2	20.1
5 1	13 4.20	−28 28.4	2.228	3.172	7.6	20.2
5 11	12 57.43	−27 41.5	2.263	3.162	9.9	20.3
5 21	12 52.65	−26 51.5	2.322	3.153	12.3	20.5

46380 2001 XF_{54} 4 11.6 308°.40 9°.9/ 3.4 18

3 12	13 45.19	+14 56.2	1.566	2.444	13.6	18.3
3 22	13 39.19	+16 3.8	1.506	2.429	11.3	18.1
4 1	13 30.93	+16 57.8	1.469	2.414	9.9	18.0
4 11	13 21.39	+17 28.7	1.457	2.399	10.5	18.0
4 21	13 11.74	+17 30.4	1.468	2.385	12.6	18.1
5 1	13 3.21	+17 0.3	1.502	2.371	15.5	18.2
5 11	12 56.76	+16 0.7	1.554	2.357	18.4	18.4
5 21	12 52.90	+14 36.2	1.623	2.343	21.0	18.5

240548 2004 QQ_{24} 4 11.6 228.°88 4.°1/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 44.64	− 1 15.3	1.538	2.425	13.3	20.2
3 22	13 38.78	− 0 7.8	1.472	2.419	9.4	20.0
4 1	13 30.71	+ 1 4.3	1.430	2.413	5.5	19.7
4 11	13 21.38	+ 2 12.7	1.414	2.406	4.4	19.6
4 21	13 11.94	+ 3 9.2	1.425	2.399	7.7	19.8
5 1	13 3.58	+ 3 47.1	1.461	2.392	11.9	20.0
5 11	12 57.25	+ 4 3.0	1.519	2.384	15.7	20.3
5 21	12 53.48	+ 3 56.7	1.595	2.376	19.0	20.5

428064 2006 EU_{64} 4 11.6 357.°71 0.°6/12.1 17

3 12	13 39.76	−12 33.8	1.551	2.425	14.0	21.0
3 22	13 35.35	−11 58.1	1.483	2.423	10.0	20.7
4 1	13 28.88	−11 7.0	1.438	2.421	5.5	20.5
4 11	13 21.27	−10 5.8	1.418	2.420	0.8	20.1
4 21	13 13.59	− 9 1.2	1.425	2.420	4.4	20.4
5 1	13 6.92	− 8 1.1	1.458	2.420	9.1	20.6
5 11	13 2.14	− 7 12.4	1.513	2.421	13.3	20.9
5 21	12 59.76	− 6 39.3	1.589	2.422	16.8	21.1

370704 2004 PD_{21} 4 11.6 165.°32 2.°7/ 8.2 17

3 12	13 41.86	− 1 38.5	2.509	3.383	9.3	21.8
3 22	13 36.08	− 0 34.6	2.447	3.389	6.5	21.6
4 1	13 29.02	+ 0 31.8	2.413	3.394	3.7	21.4
4 11	13 21.28	+ 1 35.6	2.408	3.399	2.9	21.4
4 21	13 13.57	+ 2 31.9	2.433	3.403	5.2	21.5
5 1	13 6.56	+ 3 16.5	2.486	3.407	8.1	21.7
5 11	13 0.82	+ 3 46.8	2.565	3.410	10.7	21.9
5 21	12 56.71	+ 4 2.0	2.665	3.412	13.0	22.1

304694 2006 WC_{167} 4 11.6 238.°81 3.°7/ 7.5 17

3 12	13 41.43	+ 2 52.4	2.482	3.359	9.3	20.9
3 22	13 35.88	+ 3 33.2	2.411	3.351	6.6	20.7
4 1	13 28.96	+ 4 13.0	2.367	3.343	4.3	20.6
4 11	13 21.29	+ 4 47.2	2.351	3.335	3.9	20.5
4 21	13 13.56	+ 5 11.7	2.364	3.326	5.9	20.6
5 1	13 6.48	+ 5 23.5	2.404	3.317	8.7	20.8
5 11	13 0.66	+ 5 21.0	2.469	3.308	11.3	21.0
5 21	12 56.48	+ 5 4.2	2.555	3.298	13.6	21.1

500291 2012 PB_{38} 4 11.6 295.°22 1.°1/12.6 17

3 12	13 40.97	−14 9.5	1.775	2.636	13.1	21.3
3 22	13 36.10	−13 35.5	1.693	2.626	9.5	21.1
4 1	13 29.27	−12 45.9	1.635	2.615	5.4	20.8
4 11	13 21.31	−11 44.4	1.604	2.605	1.3	20.5
4 21	13 13.17	−10 37.2	1.600	2.595	4.1	20.7
5 1	13 5.91	− 9 31.4	1.623	2.585	8.4	20.9
5 11	13 0.36	− 8 34.1	1.671	2.575	12.5	21.1
5 21	12 57.07	− 7 50.3	1.739	2.565	15.9	21.3

300017 2006 UU_{78} 4 11.6 264.°04 2.°1/13.9 17

3 12	13 39.73	−17 46.8	2.276	3.115	11.5	20.5
3 22	13 34.88	−17 16.6	2.191	3.109	8.5	20.3
4 1	13 28.51	−16 31.4	2.131	3.102	5.3	20.0
4 11	13 21.27	−15 34.0	2.098	3.095	2.4	19.8
4 21	13 13.93	−14 28.8	2.094	3.088	3.4	19.9
5 1	13 7.30	−13 21.4	2.119	3.081	6.7	20.1
5 11	13 2.03	−12 18.0	2.169	3.074	10.0	20.3
5 21	12 58.58	−11 23.2	2.243	3.066	12.9	20.4

152632 1997 GG_{16} 4 11.6 282.°74 1.°3/10.7 18

3 12	13 44.10	− 8 21.1	1.332	2.217	15.1	19.5
3 22	13 38.79	− 7 37.7	1.258	2.205	10.7	19.2
4 1	13 30.89	− 6 40.8	1.206	2.192	5.6	18.9
4 11	13 21.41	− 5 36.8	1.179	2.180	1.3	18.5
4 21	13 11.66	− 4 34.3	1.177	2.168	6.0	18.8
5 1	13 3.06	− 3 42.0	1.201	2.156	11.4	19.1
5 11	12 56.74	− 3 7.0	1.245	2.144	16.2	19.3
5 21	12 53.33	− 2 52.7	1.308	2.132	20.2	19.5

271894 2004 VL_{37} 4 11.6 97.°33 0.°9/12.5 17

3 12	13 42.05	−13 33.1	1.906	2.765	12.5	20.8
3 22	13 36.60	−13 1.5	1.840	2.772	9.0	20.5
4 1	13 29.42	−12 16.7	1.799	2.779	5.0	20.3
4 11	13 21.32	−11 22.7	1.785	2.786	1.1	20.0
4 21	13 13.23	−10 24.9	1.799	2.794	3.8	20.3
5 1	13 6.06	− 9 29.7	1.841	2.801	7.8	20.5
5 11	13 0.55	− 8 42.6	1.908	2.808	11.4	20.7
5 21	12 57.14	− 8 7.7	1.996	2.814	14.4	21.0

185576 Covichi 4 11.6 81.°19 1.°5/10.4 18

3 12	13 44.46	− 7 19.0	1.521	2.401	13.9	20.8
3 22	13 38.47	− 6 31.9	1.471	2.416	9.6	20.6
4 1	13 30.43	− 5 35.6	1.445	2.432	4.9	20.3
4 11	13 21.38	− 4 36.9	1.446	2.447	1.5	20.1
4 21	13 12.48	− 3 42.9	1.474	2.462	5.4	20.4
5 1	13 4.81	− 3 0.3	1.527	2.478	9.9	20.7
5 11	12 59.19	− 2 33.4	1.604	2.493	13.8	21.0
5 21	12 56.04	− 2 23.9	1.700	2.507	17.0	21.3

247766 2003 QJ_{52} 4 11.6 268.°58 0.°1/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 46.19	−10 39.9	1.689	2.555	13.5	21.1
3 22	13 40.06	−10 16.7	1.593	2.530	9.7	20.8
4 1	13 31.54	− 9 40.6	1.521	2.504	5.3	20.4
4 11	13 21.47	− 8 55.1	1.476	2.478	0.4	20.0
4 21	13 10.95	− 8 5.9	1.458	2.451	4.8	20.3
5 1	13 1.21	− 7 19.7	1.467	2.423	9.7	20.5
5 11	12 53.37	− 6 43.2	1.500	2.395	14.2	20.7
5 21	12 48.12	− 6 20.9	1.553	2.366	18.1	20.9

53670 2000 DJ_{71} 4 11.6 92.°14 0.°5/11.2 18

3 12	13 45.46	−10 31.5	1.338	2.216	15.5	19.8
3 22	13 39.41	− 9 41.8	1.287	2.230	10.9	19.6
4 1	13 31.02	− 8 37.5	1.258	2.243	5.7	19.3
4 11	13 21.43	− 7 25.8	1.254	2.256	0.5	19.0
4 21	13 11.97	− 6 15.6	1.277	2.269	5.4	19.3
5 1	13 3.91	− 5 15.4	1.325	2.282	10.4	19.7
5 11	12 58.18	− 4 31.7	1.396	2.295	14.8	20.0
5 21	12 55.21	− 4 7.4	1.485	2.307	18.3	20.2

24950 Nikhilas 4 11.6 285.°09 6.°3/ 4.5 18

3 12	13 39.91	+ 7 7.0	1.968	2.855	10.9	18.0
3 22	13 35.09	+ 8 37.1	1.910	2.849	8.2	17.9
4 1	13 28.64	+10 3.5	1.877	2.842	6.4	17.7
4 11	13 21.31	+11 18.1	1.872	2.836	6.8	17.7
4 21	13 13.94	+12 14.5	1.892	2.829	9.0	17.9
5 1	13 7.38	+12 48.1	1.938	2.823	11.8	18.0
5 11	13 2.33	+12 57.9	2.005	2.816	14.6	18.2
5 21	12 59.22	+12 45.0	2.090	2.810	16.9	18.3

506242 2016 NU_{31} 4 11.6 204.°86 3.°6/15.8 18

3 12	13 41.39	−22 57.2	2.599	3.406	11.2	21.6
3 22	13 35.94	−22 48.5	2.511	3.403	8.7	21.5
4 1	13 29.05	−22 24.0	2.448	3.399	6.1	21.3
4 11	13 21.34	−21 45.1	2.412	3.394	3.9	21.1
4 21	13 13.53	−20 54.5	2.405	3.390	4.0	21.1
5 1	13 6.37	−19 56.9	2.426	3.385	6.2	21.3
5 11	13 0.51	−18 57.6	2.475	3.379	8.9	21.4
5 21	12 56.35	−18 1.8	2.547	3.374	11.4	21.6

502527 2015 BA_{438} 4 11.6 103.°57 0.°2/11.4 17

3 12	13 43.05	− 9 43.0	1.895	2.762	12.2	21.7
3 22	13 37.31	− 9 16.4	1.830	2.768	8.5	21.5
4 1	13 29.81	− 8 40.1	1.790	2.774	4.5	21.3
4 11	13 21.38	− 7 58.5	1.778	2.780	0.3	20.9
4 21	13 12.94	− 7 16.5	1.793	2.785	4.1	21.3
5 1	13 5.43	− 6 39.7	1.836	2.791	8.2	21.5
5 11	12 59.60	− 6 12.4	1.904	2.796	11.8	21.7
5 21	12 55.87	− 5 57.5	1.993	2.802	14.8	22.0

383878 2008 RW_{100} 4 11.6 154.°68 1.°3/12.9 17

3 12	13 42.18	−14 44.7	2.087	2.937	11.9	21.7
3 22	13 36.63	−14 17.3	2.014	2.941	8.6	21.5
4 1	13 29.44	−13 36.7	1.967	2.944	5.0	21.2
4 11	13 21.36	−12 46.2	1.947	2.947	1.5	21.0
4 21	13 13.24	−11 50.6	1.956	2.950	3.5	21.1
5 1	13 5.96	−10 55.6	1.993	2.953	7.3	21.4
5 11	13 0.21	−10 6.9	2.056	2.955	10.7	21.6
5 21	12 56.44	− 9 28.4	2.140	2.957	13.6	21.8

227886 2007 EN_{45} 4 11.6 79.°15 0.°2/11.8 17

3 12	13 44.12	−10 34.7	1.730	2.598	13.1	20.8
3 22	13 38.16	−10 15.1	1.669	2.607	9.3	20.6
4 1	13 30.29	− 9 44.6	1.633	2.616	4.9	20.4
4 11	13 21.41	− 9 7.4	1.624	2.626	0.4	20.0
4 21	13 12.56	− 8 28.8	1.642	2.635	4.2	20.4
5 1	13 4.75	− 7 54.3	1.687	2.645	8.5	20.6
5 11	12 58.80	− 7 29.0	1.756	2.654	12.3	20.9
5 21	12 55.15	− 7 15.8	1.846	2.663	15.5	21.1

498795 2008 UX_{210} 4 11.6 145.°86 0.°2/11.4 17

3 12	13 42.63	− 9 50.4	2.220	3.082	10.9	22.4
3 22	13 36.82	− 9 21.9	2.153	3.088	7.6	22.2
4 1	13 29.49	− 8 44.8	2.111	3.094	4.0	21.9
4 11	13 21.37	− 8 2.9	2.098	3.100	0.2	21.6
4 21	13 13.24	− 7 20.6	2.114	3.106	3.7	21.9
5 1	13 5.91	− 6 42.7	2.159	3.111	7.3	22.2
5 11	13 0.02	− 6 13.1	2.229	3.116	10.5	22.4
5 21	12 55.99	− 5 54.3	2.321	3.120	13.3	22.6

87914 2000 SY_{313} 4 11.6 229.°00 5.°5/16.8 18

3 12	13 45.29	−26 16.7	2.222	3.014	13.3	20.2
3 22	13 39.03	−26 33.9	2.128	3.004	10.8	20.0
4 1	13 30.84	−26 31.8	2.058	2.994	8.1	19.8
4 11	13 21.46	−26 9.8	2.013	2.983	5.9	19.7
4 21	13 11.82	−25 29.8	1.996	2.971	5.7	19.6
5 1	13 2.93	−24 36.5	2.007	2.959	7.7	19.7
5 11	12 55.66	−23 36.5	2.044	2.947	10.6	19.9
5 21	12 50.57	−22 36.8	2.103	2.934	13.4	20.0

470940 2009 HE_{71} 4 11.6 257°.30 2°.7/ 8.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 43.31	− 0 7.3	2.382	3.256	9.7	21.2
3 22	13 37.26	+ 0 11.7	2.308	3.249	6.9	21.0
4 1	13 29.74	+ 0 31.2	2.260	3.242	4.0	20.8
4 11	13 21.40	+ 0 47.3	2.241	3.234	2.8	20.7
4 21	13 12.98	+ 0 56.5	2.251	3.227	5.1	20.8
5 1	13 5.26	+ 0 56.1	2.289	3.219	8.2	21.0
5 11	12 58.87	+ 0 44.3	2.353	3.212	11.1	21.2
5 21	12 54.25	+ 0 20.7	2.438	3.204	13.6	21.3

89766 2002 AO_{62} 4 11.6 166°.83 2°.3/ 9.3 18

3 12	13 45.50	− 4 35.2	2.045	2.916	11.3	20.4
3 22	13 38.89	− 3 33.5	1.981	2.923	7.8	20.2
4 1	13 30.60	− 2 26.0	1.944	2.928	4.2	20.0
4 11	13 21.45	− 1 18.7	1.936	2.933	2.4	19.8
4 21	13 12.31	− 0 17.6	1.958	2.937	5.3	20.0
5 1	13 4.09	+ 0 31.6	2.007	2.941	9.0	20.3
5 11	12 57.50	+ 1 5.5	2.082	2.943	12.2	20.5
5 21	12 52.95	+ 1 22.7	2.177	2.944	15.0	20.7

45433 2000 AA_{173} 4 11.6 166°.54 0°.8/10.8 18

3 12	13 43.28	− 9 24.5	1.841	2.710	12.4	19.7
3 22	13 37.52	− 8 27.2	1.774	2.714	8.6	19.5
4 1	13 29.96	− 7 18.6	1.732	2.717	4.5	19.3
4 11	13 21.42	− 6 4.9	1.718	2.720	0.9	19.0
4 21	13 12.87	− 4 52.7	1.733	2.722	4.7	19.3
5 1	13 5.27	− 3 49.0	1.774	2.724	8.8	19.5
5 11	12 59.39	− 2 59.3	1.841	2.725	12.5	19.7
5 21	12 55.68	− 2 26.3	1.928	2.726	15.6	20.0

209878 2005 JM_{140} 4 11.6 254°.27 1°.2/10.3 17

3 12	13 41.41	− 6 27.4	2.194	3.065	10.6	21.3
3 22	13 36.06	− 5 53.6	2.116	3.057	7.4	21.1
4 1	13 29.16	− 5 13.4	2.064	3.050	3.8	20.9
4 11	13 21.38	− 4 30.9	2.041	3.042	1.3	20.6
4 21	13 13.50	− 3 50.9	2.046	3.034	4.3	20.8
5 1	13 6.34	− 3 17.9	2.080	3.025	7.9	21.1
5 11	13 0.57	− 2 55.5	2.138	3.017	11.2	21.2
5 21	12 56.64	− 2 45.9	2.217	3.009	14.0	21.4

165298 2000 TA_{40} 4 11.6 249°.63 4°.3/ 8.1 16

3 12	13 45.05	− 0 27.4	1.597	2.483	13.0	20.3
3 22	13 39.11	+ 0 34.5	1.524	2.471	9.2	20.0
4 1	13 30.95	+ 1 40.3	1.476	2.458	5.5	19.7
4 11	13 21.49	+ 2 42.0	1.453	2.445	4.5	19.6
4 21	13 11.84	+ 3 31.9	1.458	2.431	7.7	19.8
5 1	13 3.17	+ 4 3.7	1.488	2.417	11.8	20.0
5 11	12 56.47	+ 4 14.2	1.540	2.403	15.7	20.2
5 21	12 52.29	+ 4 2.9	1.611	2.388	19.0	20.4

277759 2006 DM_{141} 4 11.6 266°.24 2°.3/ 9.4 17

3 12	13 41.63	− 4 24.5	1.906	2.785	11.5	21.3
3 22	13 36.38	− 3 35.6	1.835	2.780	8.0	21.1
4 1	13 29.38	− 2 40.7	1.789	2.774	4.3	20.9
4 11	13 21.40	− 1 45.5	1.771	2.769	2.4	20.7
4 21	13 13.34	− 0 56.0	1.780	2.763	5.5	20.9
5 1	13 6.13	− 0 17.7	1.817	2.757	9.3	21.1
5 11	13 0.51	+ 0 5.6	1.877	2.752	12.8	21.3
5 21	12 56.94	+ 0 12.5	1.958	2.746	15.7	21.5

503474 2016 EY_{152} 4 11.6 337°.18 0°.4/11.9 17

3 12	13 42.38	−10 43.6	1.258	2.143	15.8	20.6
3 22	13 37.70	−10 33.1	1.187	2.133	11.4	20.3
4 1	13 30.39	−10 8.2	1.138	2.123	6.2	20.0
4 11	13 21.47	− 9 33.3	1.112	2.114	0.7	19.6
4 21	13 12.28	− 8 54.9	1.111	2.106	5.3	19.9
5 1	13 4.28	− 8 20.6	1.133	2.099	10.7	20.2
5 11	12 58.62	− 7 57.5	1.177	2.092	15.6	20.4
5 21	12 55.95	− 7 50.0	1.239	2.087	19.8	20.7

433906 2015 BT_{460} 4 11.6 349°.09 3°.3/ 8.8 17

3 12	13 39.94	− 2 56.6	1.521	2.414	13.1	20.3
3 22	13 35.49	− 1 59.5	1.458	2.409	9.1	20.0
4 1	13 29.00	− 0 56.6	1.418	2.404	5.1	19.8
4 11	13 21.38	+ 0 4.4	1.405	2.400	3.5	19.7
4 21	13 13.69	+ 0 55.9	1.416	2.397	6.8	19.9
5 1	13 7.01	+ 1 31.5	1.453	2.394	11.0	20.1
5 11	13 2.21	+ 1 47.4	1.511	2.392	14.9	20.3
5 21	12 59.78	+ 1 42.8	1.588	2.391	18.2	20.5

119927 2002 EK_{135} 4 11.6 196°.76 1°.8/ 9.3 18

3 12	13 38.48	− 5 24.0	2.463	3.337	9.4	20.0
3 22	13 33.84	− 4 20.4	2.393	3.336	6.5	19.8
4 1	13 27.92	− 3 11.0	2.350	3.336	3.4	19.6
4 11	13 21.32	− 2 0.9	2.337	3.335	1.9	19.5
4 21	13 14.70	− 0 55.3	2.352	3.333	4.5	19.7
5 1	13 8.72	+ 0 1.0	2.396	3.332	7.6	19.9
5 11	13 3.93	+ 0 44.5	2.465	3.331	10.4	20.0
5 21	13 0.72	+ 1 13.2	2.556	3.330	12.9	20.2

387577 2001 TU_{142} 4 11.6 129°.27 2°.5/ 8.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 39.27	− 3 7.3	2.467	3.344	9.4	21.2
3 22	13 34.32	− 1 50.9	2.409	3.353	6.4	21.0
4 1	13 28.13	− 0 30.7	2.379	3.363	3.6	20.9
4 11	13 21.33	+ 0 47.5	2.379	3.372	2.7	20.8
4 21	13 14.57	+ 1 58.4	2.408	3.381	5.0	21.0
5 1	13 8.49	+ 2 57.2	2.465	3.389	7.9	21.2
5 11	13 3.64	+ 3 41.0	2.547	3.398	10.6	21.4
5 21	13 0.36	+ 4 8.7	2.651	3.406	12.9	21.5

261172 2005 TT_{113} 4 11.6 13°.43 1°.8/12.7 17

3 12	13 46.03	−12 36.6	1.457	2.325	15.1	19.7
3 22	13 39.95	−12 55.8	1.391	2.326	11.0	19.4
4 1	13 31.44	−13 2.0	1.349	2.329	6.3	19.2
4 11	13 21.53	−12 57.3	1.331	2.331	2.0	18.9
4 21	13 11.51	−12 45.4	1.340	2.335	4.6	19.1
5 1	13 2.67	−12 31.9	1.374	2.339	9.4	19.4
5 11	12 56.07	−12 22.4	1.432	2.343	13.7	19.6
5 21	12 52.24	−12 21.2	1.509	2.348	17.3	19.9

292828 2006 UG_{273} 4 11.6 195°.44 2°.8/15.0 18

3 12	13 40.26	−20 34.5	2.547	3.369	10.9	20.9
3 22	13 35.15	−20 14.3	2.463	3.367	8.3	20.7
4 1	13 28.65	−19 39.4	2.405	3.366	5.5	20.5
4 11	13 21.37	−18 51.5	2.374	3.364	3.1	20.3
4 21	13 14.04	−17 54.4	2.372	3.362	3.5	20.3
5 1	13 7.36	−16 52.7	2.399	3.360	6.1	20.5
5 11	13 1.96	−15 52.0	2.453	3.358	9.0	20.7
5 21	12 58.22	−14 56.9	2.530	3.355	11.6	20.9

455268 2001 VO_{83} 4 11.6 224°.42 4°.2/15.3 17

3 12	13 46.01	−22 16.7	1.815	2.637	14.6	21.6
3 22	13 39.79	−22 0.8	1.724	2.627	11.4	21.4
4 1	13 31.35	−21 22.6	1.657	2.615	7.7	21.1
4 11	13 21.54	−20 23.2	1.615	2.603	4.6	20.9
4 21	13 11.49	−19 7.2	1.601	2.590	5.0	20.9
5 1	13 2.36	−17 42.2	1.615	2.577	8.4	21.1
5 11	12 55.15	−16 17.3	1.654	2.562	12.3	21.3
5 21	12 50.45	−15 0.8	1.715	2.547	15.8	21.5

430645 2003 SU_{135} 4 11.6 240°.73 4°.4/15.8 17

3 12	13 43.62	−22 50.6	2.105	2.920	13.2	21.4
3 22	13 37.86	−22 57.8	2.017	2.913	10.3	21.2
4 1	13 30.23	−22 46.8	1.953	2.905	7.3	21.0
4 11	13 21.48	−22 18.1	1.915	2.897	4.8	20.8
4 21	13 12.52	−21 34.6	1.904	2.889	4.9	20.8
5 1	13 4.36	−20 41.3	1.921	2.881	7.5	21.0
5 11	12 57.81	−19 45.1	1.964	2.872	10.7	21.1
5 21	12 53.40	−18 52.2	2.030	2.864	13.7	21.3

32602 2001 QE_{185} 4 11.6 78°.02 3°.5/15.5 18

3 12	13 40.70	−22 1.3	2.130	2.953	12.7	17.5
3 22	13 35.64	−21 40.9	2.057	2.959	9.8	17.4
4 1	13 28.96	−21 2.1	2.006	2.965	6.6	17.2
4 11	13 21.40	−20 7.1	1.983	2.971	4.0	17.0
4 21	13 13.81	−19 0.4	1.987	2.977	4.2	17.0
5 1	13 7.07	−17 48.0	2.020	2.983	6.9	17.2
5 11	13 1.85	−16 37.0	2.078	2.988	10.1	17.4
5 21	12 58.59	−15 33.1	2.159	2.994	12.9	17.6

300904 2008 BL_{39} 4 11.6 336°.99 3°.0/14.4 18

3 12	13 42.65	−18 29.0	2.217	3.050	11.9	20.4
3 22	13 37.02	−18 38.2	2.137	3.049	9.0	20.2
4 1	13 29.71	−18 33.5	2.082	3.048	5.9	20.0
4 11	13 21.45	−18 16.2	2.055	3.047	3.3	19.8
4 21	13 13.06	−17 49.2	2.055	3.046	3.9	19.8
5 1	13 5.43	−17 16.6	2.084	3.045	6.9	20.0
5 11	12 59.28	−16 43.7	2.138	3.044	10.0	20.2
5 21	12 55.08	−16 15.1	2.215	3.043	12.9	20.4

506038 2015 KW_{62} 4 11.6 259°.86 5°.1/ 5.9 17

3 12	13 41.11	+ 6 20.7	2.301	3.181	9.8	20.9
3 22	13 35.78	+ 7 16.6	2.234	3.171	7.3	20.7
4 1	13 28.99	+ 8 9.2	2.194	3.162	5.4	20.5
4 11	13 21.41	+ 8 52.7	2.182	3.153	5.4	20.5
4 21	13 13.76	+ 9 22.6	2.197	3.144	7.4	20.6
5 1	13 6.82	+ 9 35.5	2.238	3.134	10.0	20.8
5 11	13 1.22	+ 9 30.3	2.303	3.124	12.6	20.9
5 21	12 57.36	+ 9 7.7	2.387	3.115	14.8	21.1

172798 2004 FU_{108} 4 11.6 73°.06 0°.7/10.9 17

3 12	13 41.71	− 8 18.8	2.072	2.941	11.2	20.5
3 22	13 36.21	− 7 47.3	2.015	2.955	7.8	20.3
4 1	13 29.20	− 7 8.3	1.984	2.969	4.0	20.1
4 11	13 21.42	− 6 26.1	1.981	2.983	0.7	19.9
4 21	13 13.71	− 5 45.5	2.007	2.997	4.0	20.2
5 1	13 6.87	− 5 11.1	2.060	3.011	7.7	20.4
5 11	13 1.54	− 4 46.7	2.138	3.025	10.9	20.6
5 21	12 58.09	− 4 34.3	2.238	3.039	13.6	20.8

231170 2005 UA_{122} 4 11.6 117°.13 0°.3/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 44.79	− 9 14.9	1.943	2.808	12.0	21.2
3 22	13 38.47	− 8 49.3	1.884	2.821	8.4	21.0
4 1	13 30.43	− 8 15.0	1.850	2.833	4.4	20.8
4 11	13 21.51	− 7 36.0	1.843	2.845	0.3	20.5
4 21	13 12.64	− 6 57.3	1.866	2.857	4.1	20.8
5 1	13 4.74	− 6 23.9	1.916	2.869	8.0	21.1
5 11	12 58.55	− 5 59.9	1.991	2.880	11.5	21.3
5 21	12 54.45	− 5 47.7	2.088	2.890	14.4	21.5

210898 2001 SA_{167} 4 11.6 158°.76 0°.3/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.74	− 9 21.4	2.697	3.555	9.3	21.4
3 22	13 35.32	− 8 46.0	2.627	3.561	6.5	21.2
4 1	13 28.68	− 8 3.6	2.584	3.567	3.4	21.1
4 11	13 21.41	− 7 17.6	2.570	3.572	0.3	20.8
4 21	13 14.13	− 6 31.9	2.586	3.576	3.2	21.1
5 1	13 7.48	− 5 50.3	2.632	3.581	6.3	21.3
5 11	13 2.00	− 5 16.5	2.704	3.584	9.1	21.4
5 21	12 58.04	− 4 52.5	2.799	3.588	11.5	21.6

498022 2007 FS_{24} 4 11.6 323°.90 1°.4/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.23	− 8 1.6	1.484	2.370	13.8	20.8
3 22	13 35.86	− 7 11.5	1.409	2.356	9.7	20.5
4 1	13 29.31	− 6 9.0	1.357	2.344	5.0	20.2
4 11	13 21.45	− 5 0.8	1.330	2.331	1.4	20.0
4 21	13 13.39	− 3 54.7	1.330	2.320	5.7	20.2
5 1	13 6.31	− 2 59.0	1.354	2.309	10.5	20.4
5 11	13 1.18	− 2 20.1	1.401	2.298	14.9	20.7
5 21	12 58.56	− 2 0.9	1.466	2.288	18.6	20.9

159088 2004 TD_{282} 4 11.6 167°.83 5°.9/ 4.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.49	+ 9 57.2	2.416	3.287	9.7	20.7
3 22	13 37.30	+10 59.6	2.365	3.292	7.5	20.6
4 1	13 29.73	+11 55.5	2.340	3.296	6.0	20.5
4 11	13 21.47	+12 39.3	2.344	3.300	6.2	20.5
4 21	13 13.25	+13 6.8	2.376	3.303	8.0	20.6
5 1	13 5.81	+13 15.5	2.434	3.305	10.2	20.8
5 11	12 59.74	+13 5.5	2.515	3.307	12.5	20.9
5 21	12 55.41	+12 38.0	2.614	3.308	14.4	21.1

461223 2015 VV_{143} 4 11.6 87°.44 17°.2/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 54.70	−56 13.7	1.724	2.307	23.3	20.6
3 22	13 47.35	−57 36.9	1.664	2.323	21.9	20.5
4 1	13 35.86	−58 18.7	1.615	2.339	20.4	20.4
4 11	13 21.84	−58 11.3	1.580	2.354	19.0	20.3
4 21	13 7.66	−57 12.1	1.561	2.370	17.9	20.3
5 1	12 55.73	−55 25.4	1.559	2.385	17.2	20.3
5 11	12 47.71	−53 3.1	1.577	2.400	17.3	20.3
5 21	12 44.14	−50 19.7	1.613	2.414	18.0	20.4

494064 2016 BQ_{60} 4 11.6 84°.50 5°.3/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.94	+ 1 8.4	1.438	2.331	13.7	20.7
3 22	13 38.26	+ 2 26.0	1.390	2.339	9.7	20.5
4 1	13 30.44	+ 3 44.2	1.366	2.346	6.2	20.3
4 11	13 21.52	+ 4 53.6	1.367	2.354	5.6	20.3
4 21	13 12.70	+ 5 45.9	1.394	2.362	8.6	20.5
5 1	13 5.11	+ 6 15.6	1.446	2.369	12.5	20.7
5 11	12 59.64	+ 6 20.9	1.518	2.377	16.1	21.0
5 21	12 56.69	+ 6 3.3	1.608	2.384	19.1	21.2

1107 Lictoria 4 11.6 82°.73 3°.2/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.58	+ 0 2.6	2.265	3.145	9.9	14.4
3 22	13 35.31	+ 0 53.3	2.214	3.158	6.9	14.2
4 1	13 28.70	+ 1 44.7	2.188	3.170	4.1	14.1
4 11	13 21.43	+ 2 31.6	2.192	3.181	3.4	14.0
4 21	13 14.21	+ 3 9.4	2.223	3.193	5.6	14.2
5 1	13 7.78	+ 3 34.5	2.282	3.205	8.6	14.4
5 11	13 2.71	+ 3 45.0	2.365	3.217	11.3	14.6
5 21	12 59.34	+ 3 40.7	2.469	3.229	13.6	14.8

239483 2007 UF_{80} 4 11.6 252°.56 0°.2/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.24	−11 19.2	2.162	3.023	11.1	21.6
3 22	13 36.02	−10 49.1	2.081	3.015	7.9	21.3
4 1	13 29.19	−10 8.6	2.026	3.008	4.3	21.1
4 11	13 21.46	− 9 21.3	1.999	3.001	0.4	20.8
4 21	13 13.62	− 8 31.8	2.000	2.993	3.6	21.0
5 1	13 6.50	− 7 45.4	2.030	2.986	7.4	21.3
5 11	13 0.81	− 7 6.8	2.085	2.978	10.9	21.4
5 21	12 57.00	− 6 39.5	2.162	2.970	13.8	21.6

198440 2004 WV_{6} 4 11.6 47°.67 3°.0/14.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.54	−18 26.9	1.589	2.439	15.0	19.6
3 22	13 37.20	−18 11.3	1.536	2.458	11.2	19.4
4 1	13 29.85	−17 36.3	1.505	2.476	7.0	19.2
4 11	13 21.49	−16 45.4	1.500	2.495	3.4	19.0
4 21	13 13.24	−15 44.7	1.521	2.515	4.4	19.1
5 1	13 6.18	−14 41.8	1.569	2.535	8.2	19.4
5 11	13 1.10	−13 44.4	1.640	2.555	12.0	19.6
5 21	12 58.43	−12 57.9	1.733	2.575	15.3	19.9

283545 2001 UL_{97} 4 11.6 215°.29 0°.6/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 41.06	− 8 7.0	2.676	3.537	9.2	21.8
3 22	13 35.63	− 7 34.8	2.594	3.530	6.5	21.6
4 1	13 28.90	− 6 56.2	2.539	3.523	3.3	21.4
4 11	13 21.45	− 6 14.3	2.513	3.515	0.6	21.1
4 21	13 13.92	− 5 33.1	2.517	3.506	3.4	21.4
5 1	13 6.98	− 4 56.5	2.551	3.498	6.6	21.6
5 11	13 1.18	− 4 27.7	2.610	3.488	9.5	21.7
5 21	12 56.94	− 4 9.1	2.693	3.479	12.0	21.9

412968 2014 QG_{309} 4 11.6 261°.19 3°.5/13.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 47.28	−17 39.8	1.553	2.401	15.4	21.3
3 22	13 41.05	−17 50.5	1.465	2.385	11.7	21.0
4 1	13 32.20	−17 42.7	1.399	2.370	7.5	20.7
4 11	13 21.67	−17 17.3	1.358	2.353	3.8	20.5
4 21	13 10.69	−16 37.8	1.344	2.337	5.1	20.5
5 1	13 0.68	−15 50.9	1.356	2.320	9.5	20.7
5 11	12 52.83	−15 4.8	1.392	2.303	14.0	20.9
5 21	12 47.87	−14 26.8	1.448	2.286	18.0	21.1

135130 2001 QA_{171} 4 11.6 121°.41 2°.6/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.03	− 2 8.0	2.539	3.414	9.2	20.0
3 22	13 34.82	− 1 1.6	2.486	3.429	6.3	19.8
4 1	13 28.41	+ 0 7.2	2.460	3.443	3.6	19.7
4 11	13 21.43	+ 1 13.3	2.464	3.456	2.8	19.6
4 21	13 14.50	+ 2 11.8	2.498	3.470	5.0	19.8
5 1	13 8.27	+ 2 58.8	2.559	3.483	7.7	20.0
5 11	13 3.25	+ 3 31.7	2.646	3.495	10.3	20.2
5 21	12 59.77	+ 3 49.8	2.754	3.507	12.5	20.4

429034 2009 CG_{23} 4 11.6 250°.04 3°.6/ 7.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.79	− 0 17.5	2.161	3.044	10.2	21.1
3 22	13 34.93	+ 0 52.0	2.094	3.039	7.2	20.9
4 1	13 28.59	+ 2 3.9	2.053	3.034	4.4	20.8
4 11	13 21.44	+ 3 12.0	2.041	3.030	3.8	20.7
4 21	13 14.25	+ 4 10.4	2.057	3.025	6.2	20.9
5 1	13 7.78	+ 4 54.3	2.100	3.020	9.4	21.0
5 11	13 2.69	+ 5 20.8	2.167	3.015	12.3	21.2
5 21	12 59.38	+ 5 29.3	2.253	3.010	14.8	21.4

151507 2002 MK_{1} 4 11.6 321°.34 17°.2/23.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.36	+19 3.7	0.919	1.822	18.5	18.5
3 22	13 36.06	+23 28.4	0.894	1.815	17.2	18.4
4 1	13 29.66	+27 24.6	0.891	1.809	18.0	18.4
4 11	13 21.51	+30 27.0	0.909	1.803	20.4	18.5
4 21	13 13.31	+32 22.3	0.943	1.797	23.4	18.7
5 1	13 6.75	+33 8.7	0.991	1.792	26.5	18.8
5 11	13 3.07	+32 54.1	1.048	1.788	29.1	19.0
5 21	13 2.73	+31 50.2	1.113	1.784	31.2	19.2

337407 2001 QG_{234} 4 11.6 163°.08 1°.0/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.26	− 6 59.4	2.961	3.823	8.4	22.2
3 22	13 34.91	− 6 16.2	2.892	3.829	5.8	22.0
4 1	13 28.46	− 5 27.8	2.851	3.835	3.0	21.8
4 11	13 21.44	− 4 37.8	2.839	3.840	1.0	21.6
4 21	13 14.43	− 3 49.9	2.859	3.845	3.4	21.8
5 1	13 7.99	− 3 7.6	2.908	3.849	6.2	22.0
5 11	13 2.61	− 2 34.0	2.983	3.852	8.7	22.2
5 21	12 58.60	− 2 10.7	3.082	3.855	10.9	22.4

242986 2006 SW_{322} 4 11.6 183°.97 1°.5/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.54	− 5 37.9	2.699	3.568	8.9	21.5
3 22	13 34.51	− 4 43.0	2.627	3.568	6.1	21.3
4 1	13 28.29	− 3 42.9	2.583	3.568	3.2	21.1
4 11	13 21.43	− 2 41.8	2.569	3.567	1.6	21.0
4 21	13 14.55	− 1 44.4	2.584	3.566	4.0	21.2
5 1	13 8.27	− 0 54.7	2.628	3.565	7.0	21.4
5 11	13 3.10	− 0 16.0	2.699	3.563	9.7	21.5
5 21	12 59.42	+ 0 9.9	2.791	3.561	12.0	21.7

498831 2008 WY_{3} 4 11.6 207°.36 2°.1/ 9.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.47	− 3 51.5	2.016	2.891	11.2	21.6
3 22	13 37.60	− 3 21.5	1.947	2.890	7.8	21.4
4 1	13 30.03	− 2 47.2	1.904	2.888	4.2	21.2
4 11	13 21.54	− 2 13.3	1.888	2.887	2.1	21.0
4 21	13 12.99	− 1 44.6	1.901	2.885	5.1	21.2
5 1	13 5.28	− 1 25.2	1.942	2.883	8.7	21.4
5 11	12 59.13	− 1 18.1	2.006	2.881	12.1	21.6
5 21	12 55.01	− 1 24.6	2.092	2.878	14.9	21.8

179682 2002 QB_{87} 4 11.6 180°.74 0°.2/11.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.42	− 9 13.4	1.840	2.705	12.6	21.0
3 22	13 39.83	− 8 56.4	1.769	2.706	8.9	20.8
4 1	13 31.27	− 8 30.0	1.723	2.706	4.7	20.5
4 11	13 21.61	− 7 58.3	1.704	2.706	0.3	20.2
4 21	13 11.88	− 7 25.8	1.714	2.706	4.3	20.5
5 1	13 3.11	− 6 57.7	1.752	2.705	8.6	20.8
5 11	12 56.15	− 6 38.6	1.814	2.704	12.4	21.0
5 21	12 51.49	− 6 31.3	1.897	2.702	15.6	21.2

268991 2007 EE_{98} 4 11.6 244°.51 3°.4/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 40.83	− 2 49.4	1.787	2.673	11.8	20.6
3 22	13 35.90	− 1 27.4	1.722	2.670	8.2	20.4
4 1	13 29.18	+ 0 0.5	1.683	2.667	4.7	20.2
4 11	13 21.49	+ 1 26.5	1.671	2.664	3.7	20.1
4 21	13 13.75	+ 2 42.6	1.687	2.661	6.7	20.3
5 1	13 6.92	+ 3 42.3	1.729	2.658	10.4	20.5
5 11	13 1.74	+ 4 21.4	1.793	2.655	13.9	20.7
5 21	12 58.67	+ 4 39.1	1.877	2.652	16.8	20.9

114312 2002 XB_{53} 4 11.6 91°.05 2°.7/14.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.63	−18 38.0	1.753	2.594	14.2	19.7
3 22	13 38.51	−18 11.4	1.697	2.615	10.6	19.5
4 1	13 30.51	−17 26.3	1.665	2.635	6.6	19.3
4 11	13 21.57	−16 26.2	1.659	2.654	3.1	19.1
4 21	13 12.75	−15 17.3	1.680	2.674	4.1	19.2
5 1	13 5.08	−14 7.0	1.730	2.693	7.9	19.5
5 11	12 59.32	−13 2.6	1.804	2.712	11.5	19.8
5 21	12 55.87	−12 9.6	1.900	2.730	14.6	20.0

399382 2001 RK_{33} 4 11.6 256°.03 3°.6/14.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.29	−19 33.3	1.623	2.463	15.3	22.2
3 22	13 40.31	−19 23.5	1.528	2.443	11.7	21.9
4 1	13 31.81	−18 52.1	1.456	2.424	7.6	21.6
4 11	13 21.67	−18 0.2	1.409	2.403	4.0	21.3
4 21	13 11.09	−16 52.3	1.390	2.382	5.0	21.3
5 1	13 1.42	−15 36.4	1.396	2.360	9.3	21.5
5 11	12 53.81	−14 22.0	1.427	2.338	13.8	21.7
5 21	12 48.97	−13 17.5	1.479	2.315	17.7	21.9

7258 Pettarin 4 11.6 43°.77 8°.3/18.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.20	−29 57.5	1.611	2.405	17.5	17.7
3 22	13 39.46	−30 36.0	1.543	2.412	14.5	17.5
4 1	13 31.26	−30 46.7	1.496	2.420	11.4	17.3
4 11	13 21.63	−30 28.1	1.471	2.429	9.0	17.2
4 21	13 11.87	−29 42.3	1.471	2.437	8.3	17.1
5 1	13 3.32	−28 36.2	1.495	2.446	10.0	17.3
5 11	12 57.04	−27 19.8	1.543	2.455	12.8	17.4
5 21	12 53.59	−26 3.1	1.612	2.465	15.7	17.7

500469 2012 TS_{226} 4 11.6 136°.90 1°.8/ 9.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.80	− 4 55.7	2.413	3.285	9.7	22.2
3 22	13 35.46	− 4 6.0	2.352	3.293	6.7	22.0
4 1	13 28.81	− 3 11.7	2.317	3.302	3.5	21.9
4 11	13 21.49	− 2 17.3	2.311	3.309	1.8	21.7
4 21	13 14.19	− 1 27.5	2.335	3.317	4.4	21.9
5 1	13 7.61	− 0 46.7	2.387	3.324	7.5	22.1
5 11	13 2.31	− 0 17.8	2.464	3.331	10.4	22.3
5 21	12 58.65	− 0 2.2	2.563	3.337	12.8	22.5

182191 2000 UC_{14} 4 11.6 71°.74 2°.8/14.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.19	−18 34.3	2.293	3.125	11.6	20.4
3 22	13 36.64	−18 37.3	2.217	3.128	8.8	20.2
4 1	13 29.53	−18 26.5	2.166	3.131	5.7	20.0
4 11	13 21.53	−18 3.6	2.141	3.134	3.1	19.8
4 21	13 13.46	−17 31.5	2.146	3.136	3.7	19.9
5 1	13 6.13	−16 54.5	2.178	3.139	6.6	20.1
5 11	13 0.23	−16 17.9	2.237	3.142	9.7	20.3
5 21	12 56.20	−15 45.9	2.318	3.145	12.4	20.5

386556 2009 DG_{55} 4 11.6 79°.47 1°.2/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.45	− 6 48.9	2.149	3.019	10.8	21.6
3 22	13 36.63	− 6 8.8	2.103	3.043	7.5	21.5
4 1	13 29.40	− 5 23.0	2.083	3.068	3.8	21.3
4 11	13 21.52	− 4 36.0	2.091	3.092	1.2	21.1
4 21	13 13.78	− 3 52.6	2.128	3.116	4.2	21.4
5 1	13 6.94	− 3 17.1	2.194	3.139	7.6	21.6
5 11	13 1.59	− 2 52.8	2.284	3.163	10.6	21.9
5 21	12 58.06	− 2 41.2	2.396	3.186	13.2	22.1

299849 2006 SD_{240} 4 11.6 192°.46 0°.5/12.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.15	−10 56.7	2.609	3.460	9.8	21.4
3 22	13 37.13	−10 49.2	2.530	3.459	7.0	21.2
4 1	13 29.73	−10 34.3	2.477	3.457	3.8	21.0
4 11	13 21.56	−10 14.0	2.453	3.455	0.6	20.8
4 21	13 13.31	− 9 51.5	2.460	3.453	3.1	21.0
5 1	13 5.70	− 9 30.2	2.496	3.450	6.3	21.2
5 11	12 59.32	− 9 13.3	2.558	3.447	9.3	21.3
5 21	12 54.60	− 9 3.4	2.644	3.443	11.8	21.5

502260 2015 BT_{119} 4 11.6 152°.67 5°.2/ 6.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.32	+ 5 4.8	2.090	2.972	10.6	21.7
3 22	13 36.68	+ 6 17.5	2.038	2.977	7.7	21.6
4 1	13 29.50	+ 7 27.4	2.011	2.982	5.6	21.4
4 11	13 21.55	+ 8 27.7	2.013	2.987	5.6	21.4
4 21	13 13.63	+ 9 12.8	2.042	2.991	7.7	21.6
5 1	13 6.56	+ 9 39.0	2.098	2.995	10.5	21.8
5 11	13 0.99	+ 9 45.2	2.176	2.998	13.2	21.9
5 21	12 57.31	+ 9 32.3	2.273	3.001	15.5	22.1

368776 2005 WT_{82} 4 11.6 178°.20 0°.6/12.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 43.08	−12 47.0	2.084	2.939	11.7	22.6
3 22	13 37.32	−12 11.0	2.010	2.941	8.4	22.3
4 1	13 29.91	−11 22.8	1.961	2.942	4.6	22.1
4 11	13 21.58	−10 26.3	1.941	2.942	0.8	21.8
4 21	13 13.20	− 9 26.8	1.949	2.943	3.6	22.0
5 1	13 5.65	− 8 30.2	1.986	2.942	7.5	22.3
5 11	12 59.65	− 7 41.7	2.048	2.941	11.0	22.5
5 21	12 55.63	− 7 5.1	2.132	2.940	14.0	22.7

160515 1993 RP_{13} 4 11.6 169°.90 0°.4/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.67	−10 4.7	2.005	2.865	11.9	21.4
3 22	13 39.14	− 9 19.6	1.936	2.871	8.4	21.2
4 1	13 30.86	− 8 24.1	1.892	2.875	4.4	21.0
4 11	13 21.64	− 7 22.8	1.877	2.879	0.4	20.7
4 21	13 12.40	− 6 21.5	1.891	2.881	4.2	21.0
5 1	13 4.08	− 5 26.4	1.933	2.883	8.2	21.2
5 11	12 57.43	− 4 42.3	2.001	2.884	11.7	21.4
5 21	12 52.88	− 4 12.3	2.091	2.884	14.7	21.6

178729 2000 SP_{311} 4 11.6 133°.45 4°.9/18.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.90	−30 39.6	2.731	3.493	11.9	19.9
3 22	13 35.55	−30 4.7	2.650	3.502	9.7	19.8
4 1	13 28.88	−29 9.2	2.592	3.511	7.4	19.6
4 11	13 21.52	−27 54.7	2.560	3.520	5.5	19.5
4 21	13 14.22	−26 24.8	2.558	3.529	4.9	19.5
5 1	13 7.67	−24 45.2	2.585	3.537	6.2	19.6
5 11	13 2.44	−23 2.6	2.640	3.545	8.4	19.7
5 21	12 58.90	−21 23.6	2.720	3.553	10.6	19.9

163661 2002 VQ_{120} 4 11.6 132°.33 0°.1/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.84	− 9 41.7	2.319	3.177	10.6	19.4
3 22	13 37.69	− 9 32.6	2.250	3.184	7.5	19.2
4 1	13 30.05	− 9 16.1	2.208	3.190	4.0	19.0
4 11	13 21.60	− 8 55.1	2.195	3.197	0.3	18.7
4 21	13 13.14	− 8 32.8	2.211	3.203	3.4	19.0
5 1	13 5.45	− 8 13.1	2.256	3.209	6.9	19.2
5 11	12 59.17	− 7 59.3	2.326	3.215	10.1	19.4
5 21	12 54.72	− 7 53.9	2.420	3.221	12.7	19.6

349052 2006 WA_{11} 4 11.6 162°.18 0°.8/12.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.92	−13 19.0	2.843	3.688	9.3	22.0
3 22	13 35.46	−12 57.8	2.768	3.693	6.7	21.8
4 1	13 28.82	−12 27.8	2.720	3.697	3.7	21.7
4 11	13 21.53	−11 51.4	2.701	3.701	1.0	21.5
4 21	13 14.22	−11 12.0	2.712	3.705	2.8	21.6
5 1	13 7.51	−10 33.2	2.752	3.708	5.7	21.8
5 11	13 1.92	− 9 58.7	2.820	3.711	8.4	22.0
5 21	12 57.80	− 9 31.2	2.911	3.714	10.8	22.1

499603 2010 TD_{157} 4 11.6 295°.33 0°.9/11.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.66	− 8 29.2	1.423	2.304	14.6	21.4
3 22	13 39.37	− 8 1.7	1.332	2.276	10.5	21.1
4 1	13 31.43	− 7 21.5	1.263	2.249	5.6	20.7
4 11	13 21.71	− 6 33.4	1.219	2.221	0.9	20.3
4 21	13 11.45	− 5 44.4	1.202	2.193	5.7	20.6
5 1	13 2.06	− 5 2.4	1.209	2.166	11.2	20.8
5 11	12 54.81	− 4 34.5	1.238	2.138	16.2	21.0
5 21	12 50.46	− 4 24.8	1.285	2.111	20.5	21.2

251756 1999 CU_{90} 4 11.6 55°.83 5°.1/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.41	+ 1 3.0	1.418	2.312	13.8	19.3
3 22	13 37.80	+ 2 16.4	1.382	2.331	9.7	19.1
4 1	13 30.17	+ 3 29.2	1.370	2.351	6.1	18.9
4 11	13 21.61	+ 4 32.3	1.383	2.370	5.4	18.9
4 21	13 13.27	+ 5 18.1	1.422	2.390	8.3	19.1
5 1	13 6.24	+ 5 42.1	1.485	2.410	12.1	19.4
5 11	13 1.30	+ 5 43.0	1.569	2.431	15.5	19.7
5 21	12 58.80	+ 5 22.6	1.671	2.451	18.3	19.9

278871 2008 TC_{58} 4 11.6 250°.71 0°.6/11.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.07	− 7 55.2	1.952	2.821	11.8	20.8
3 22	13 38.15	− 7 38.2	1.876	2.816	8.3	20.6
4 1	13 30.42	− 7 13.5	1.826	2.810	4.3	20.3
4 11	13 21.63	− 6 45.0	1.803	2.804	0.6	20.0
4 21	13 12.73	− 6 17.0	1.808	2.799	4.3	20.3
5 1	13 4.66	− 5 54.1	1.841	2.793	8.3	20.5
5 11	12 58.22	− 5 40.5	1.898	2.787	12.0	20.7
5 21	12 53.90	− 5 38.4	1.977	2.781	15.1	20.9

224418 2005 UC_{360} 4 11.6 86°.31 0°.1/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.50	−10 49.7	1.748	2.616	13.0	21.3
3 22	13 37.81	−10 22.0	1.685	2.622	9.2	21.0
4 1	13 30.22	− 9 43.0	1.646	2.629	4.9	20.8
4 11	13 21.62	− 8 56.9	1.634	2.636	0.4	20.5
4 21	13 13.01	− 8 9.5	1.649	2.642	4.2	20.8
5 1	13 5.41	− 7 26.9	1.692	2.649	8.5	21.0
5 11	12 59.62	− 6 54.2	1.758	2.655	12.3	21.3
5 21	12 56.09	− 6 34.6	1.845	2.662	15.5	21.5

400513 2008 SP_3 4 11.6 279.°44 3.°1/ 9.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 44.87	− 5 16.3	1.383	2.269	14.5	21.0
3 22	13 39.54	− 4 6.6	1.294	2.242	10.3	20.7
4 1	13 31.52	− 2 43.7	1.228	2.214	5.6	20.3
4 11	13 21.72	− 1 15.7	1.188	2.186	3.2	20.1
4 21	13 11.40	+ 0 7.0	1.174	2.157	7.5	20.3
5 1	13 1.99	+ 1 14.2	1.184	2.128	12.8	20.5
5 11	12 54.77	+ 1 58.3	1.216	2.098	17.7	20.7
5 21	12 50.48	+ 2 16.4	1.264	2.068	22.0	20.8

498762 2008 UG_{34} 4 11.6 208.°64 0.°6/10.9 17

3 12	13 41.26	− 9 23.7	2.167	3.033	10.9	22.1
3 22	13 36.02	− 8 34.8	2.092	3.030	7.6	21.9
4 1	13 29.22	− 7 36.3	2.042	3.026	4.0	21.6
4 11	13 21.57	− 6 32.9	2.021	3.022	0.6	21.3
4 21	13 13.84	− 5 30.1	2.028	3.018	4.0	21.6
5 1	13 6.86	− 4 33.5	2.064	3.013	7.7	21.8
5 11	13 1.31	− 3 47.8	2.125	3.009	11.1	22.0
5 21	12 57.60	− 3 15.9	2.208	3.004	13.9	22.2

19648 1999 RK_{104} 4 11.6 272.°66 6.°6/17.8 18 R

3 12	13 43.67	−28 45.1	2.001	2.788	14.7	17.3
3 22	13 38.21	−28 59.4	1.902	2.771	12.2	17.0
4 1	13 30.61	−28 50.4	1.825	2.754	9.4	16.8
4 11	13 21.66	−28 17.0	1.773	2.736	7.2	16.7
4 21	13 12.37	−27 20.9	1.746	2.718	6.8	16.6
5 1	13 3.87	−26 7.6	1.747	2.700	8.6	16.7
5 11	12 57.13	−24 45.5	1.772	2.682	11.6	16.8
5 21	12 52.78	−23 23.0	1.820	2.663	14.6	16.9

38378 1999 RK_{175} 4 11.6 229.°35 0.°1/11.5 18

3 12	13 39.98	−10 14.8	2.777	3.634	9.1	20.0
3 22	13 34.89	− 9 42.5	2.691	3.624	6.4	19.8
4 1	13 28.56	− 9 2.4	2.632	3.614	3.4	19.6
4 11	13 21.53	− 8 17.6	2.602	3.604	0.2	19.3
4 21	13 14.40	− 7 31.8	2.602	3.594	3.1	19.6
5 1	13 7.82	− 6 49.0	2.631	3.583	6.2	19.8
5 11	13 2.34	− 6 12.9	2.687	3.572	9.0	19.9
5 21	12 58.32	− 5 46.0	2.767	3.560	11.5	20.1

159436 1999 VS_{178} 4 11.6 178.°82 1.°8/ 9.4 18

3 12	13 41.45	− 5 2.5	2.481	3.350	9.6	20.7
3 22	13 35.94	− 4 4.4	2.411	3.352	6.6	20.5
4 1	13 29.10	− 3 0.9	2.369	3.353	3.5	20.3
4 11	13 21.56	− 1 57.0	2.356	3.354	1.9	20.2
4 21	13 14.00	− 0 57.6	2.373	3.354	4.5	20.4
5 1	13 7.11	− 0 7.3	2.419	3.353	7.6	20.6
5 11	13 1.48	+ 0 30.5	2.490	3.352	10.5	20.8
5 21	12 57.49	+ 0 54.2	2.584	3.351	12.9	20.9

465159 2007 DO_{33} 4 11.6 22.°40 3.°1/ 9.1 17

3 12	13 40.98	− 4 8.1	1.425	2.318	13.8	21.0
3 22	13 36.28	− 3 6.2	1.372	2.323	9.6	20.7
4 1	13 29.48	− 1 57.5	1.342	2.328	5.2	20.5
4 11	13 21.58	− 0 50.2	1.337	2.335	3.2	20.4
4 21	13 13.71	+ 0 7.5	1.359	2.341	6.7	20.6
5 1	13 7.00	+ 0 48.9	1.404	2.349	11.1	20.9
5 11	13 2.30	+ 1 9.9	1.472	2.357	15.0	21.1
5 21	13 0.05	+ 1 9.9	1.557	2.365	18.3	21.4

317208 2002 CE_{16} 4 11.6 354.°03 7.°8/ 3.3 17

3 12	13 30.28	+ 3 8.6	1.180	2.099	13.8	18.3
3 22	13 29.12	+ 5 30.5	1.125	2.084	10.2	18.0
4 1	13 25.84	+ 7 55.2	1.094	2.071	7.9	17.8
4 11	13 21.36	+10 7.1	1.086	2.061	8.8	17.8
4 21	13 16.78	+11 52.4	1.101	2.054	12.2	18.0
5 1	13 13.23	+13 1.7	1.136	2.048	16.1	18.2
5 11	13 11.63	+13 31.7	1.190	2.046	19.8	18.4
5 21	13 12.44	+13 24.8	1.257	2.046	22.8	18.6

234850 2002 RG_{209} 4 11.6 256.°05 1.°6/13.1 17

3 12	13 44.26	−14 3.3	2.125	2.973	11.8	21.1
3 22	13 38.26	−14 6.7	2.041	2.966	8.6	20.9
4 1	13 30.48	−13 59.0	1.982	2.958	5.1	20.7
4 11	13 21.65	−13 41.9	1.951	2.950	1.8	20.4
4 21	13 12.64	−13 18.6	1.948	2.942	3.6	20.5
5 1	13 4.38	−12 53.4	1.974	2.934	7.3	20.7
5 11	12 57.65	−12 31.0	2.025	2.925	10.8	20.9
5 21	12 52.96	−12 15.2	2.099	2.917	13.8	21.1

389753 2011 SM_{164} 4 11.6 202.°76 0.°7/10.9 17

3 12	13 42.61	− 6 48.3	2.439	3.304	9.9	21.1
3 22	13 36.81	− 6 35.1	2.365	3.303	6.9	20.9
4 1	13 29.60	− 6 16.8	2.317	3.301	3.6	20.7
4 11	13 21.60	− 5 56.4	2.298	3.300	0.7	20.4
4 21	13 13.54	− 5 37.2	2.309	3.298	3.7	20.7
5 1	13 6.15	− 5 22.6	2.348	3.297	7.0	20.9
5 11	13 0.07	− 5 15.4	2.414	3.295	10.0	21.1
5 21	12 55.69	− 5 17.5	2.501	3.293	12.6	21.2

409786 2006 FU_{11} 4 11.6 301.°27 0.°6/11.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 47.07	− 7 45.9	1.344	2.225	15.3	21.4
3 22	13 41.01	− 7 43.9	1.269	2.214	10.9	21.1
4 1	13 32.24	− 7 32.4	1.217	2.202	5.8	20.8
4 11	13 21.77	− 7 15.7	1.189	2.191	0.6	20.4
4 21	13 10.98	− 6 58.9	1.187	2.180	5.5	20.7
5 1	13 1.33	− 6 48.1	1.210	2.169	10.9	21.0
5 11	12 54.04	− 6 48.3	1.255	2.159	15.7	21.2
5 21	12 49.79	− 7 2.5	1.318	2.149	19.8	21.5

439128 2011 SK_{222} 4 11.6 233.°41 2.°6/14.9 17

3 12	13 39.55	−20 37.1	2.550	3.373	10.9	21.3
3 22	13 34.73	−20 1.1	2.461	3.366	8.3	21.1
4 1	13 28.51	−19 9.3	2.396	3.359	5.4	20.9
4 11	13 21.53	−18 4.0	2.360	3.352	2.9	20.7
4 21	13 14.47	−16 49.6	2.353	3.344	3.3	20.7
5 1	13 8.05	−15 31.3	2.375	3.337	6.1	20.9
5 11	13 2.86	−14 15.2	2.424	3.329	9.1	21.0
5 21	12 59.33	−13 6.3	2.497	3.321	11.7	21.2

508707 2017 UN_{22} 4 11.6 124.°38 1.°3/10.5 17

3 12	13 43.16	− 6 4.6	2.037	2.909	11.2	20.5
3 22	13 37.38	− 5 39.9	1.970	2.911	7.8	20.2
4 1	13 29.95	− 5 9.4	1.929	2.914	4.1	20.0
4 11	13 21.62	− 4 37.3	1.915	2.916	1.3	19.8
4 21	13 13.26	− 4 8.0	1.930	2.918	4.5	20.0
5 1	13 5.74	− 3 45.9	1.972	2.920	8.2	20.3
5 11	12 59.77	− 3 34.2	2.039	2.922	11.6	20.5
5 21	12 55.79	− 3 34.8	2.128	2.923	14.4	20.7

82375 2001 MN_{15} 4 11.6 222.°49 3.°2/15.3 17

3 12	13 42.11	−21 10.6	2.509	3.326	11.2	19.6
3 22	13 36.58	−21 4.4	2.419	3.319	8.7	19.4
4 1	13 29.53	−20 43.1	2.354	3.311	5.9	19.2
4 11	13 21.60	−20 8.2	2.316	3.304	3.6	19.1
4 21	13 13.53	−19 22.5	2.308	3.296	3.8	19.1
5 1	13 6.11	−18 30.4	2.327	3.287	6.4	19.2
5 11	13 0.01	−17 37.4	2.374	3.278	9.2	19.4
5 21	12 55.67	−16 48.4	2.444	3.269	11.9	19.5

480351 2015 KJ_{14} 4 11.6 275.°66 7.°7/ 2.3 18

3 12	13 41.28	+15 37.7	2.302	3.170	10.3	20.7
3 22	13 35.93	+16 47.1	2.251	3.164	8.6	20.6
4 1	13 29.13	+17 45.9	2.226	3.159	7.7	20.5
4 11	13 21.57	+18 27.9	2.226	3.154	8.2	20.5
4 21	13 14.01	+18 48.7	2.253	3.148	9.8	20.6
5 1	13 7.22	+18 46.5	2.303	3.143	11.9	20.7
5 11	13 1.81	+18 21.8	2.374	3.137	13.9	20.9
5 21	12 58.18	+17 37.2	2.463	3.132	15.7	21.0

357045 2000 SG_{58} 4 11.6 285.°88 1.°0/10.8 17

3 12	13 42.77	− 9 39.3	1.419	2.300	14.6	20.8
3 22	13 37.89	− 8 43.6	1.336	2.281	10.4	20.5
4 1	13 30.55	− 7 31.8	1.277	2.263	5.4	20.1
4 11	13 21.67	− 6 10.4	1.242	2.244	1.0	19.8
4 21	13 12.46	− 4 48.3	1.234	2.225	5.7	20.1
5 1	13 4.23	− 3 35.3	1.251	2.206	11.0	20.3
5 11	12 58.11	− 2 39.7	1.290	2.188	15.8	20.5
5 21	12 54.75	− 2 5.8	1.347	2.169	19.9	20.7

473146 2015 KW_{10} 4 11.6 204.°63 6.°3/ 2.8 18

3 12	13 40.14	+13 38.6	2.761	3.628	8.8	21.8
3 22	13 34.95	+14 47.5	2.707	3.624	7.1	21.7
4 1	13 28.56	+15 48.7	2.681	3.620	6.3	21.6
4 11	13 21.54	+16 37.0	2.683	3.616	6.7	21.6
4 21	13 14.52	+17 8.6	2.711	3.612	8.2	21.7
5 1	13 8.12	+17 21.3	2.765	3.607	10.1	21.8
5 11	13 2.85	+17 15.0	2.841	3.602	11.9	22.0
5 21	12 59.07	+16 51.1	2.935	3.597	13.5	22.1

197040 2003 UO_{135} 4 11.7 205.°49 1.°0/10.7 18

3 12	13 42.88	− 7 8.4	2.215	3.082	10.6	21.1
3 22	13 37.13	− 6 38.0	2.140	3.079	7.4	20.9
4 1	13 29.82	− 6 0.9	2.091	3.075	3.9	20.7
4 11	13 21.64	− 5 21.1	2.071	3.072	1.0	20.5
4 21	13 13.38	− 4 43.0	2.079	3.068	4.1	20.7
5 1	13 5.86	− 4 11.2	2.116	3.063	7.7	20.9
5 11	12 59.76	− 3 49.2	2.178	3.059	11.0	21.1
5 21	12 55.53	− 3 39.2	2.262	3.054	13.8	21.3

412572 2014 OD_2 4 11.7 205.°61 1.°0/10.7 17

3 12	13 45.33	− 8 36.1	1.946	2.812	12.0	22.0
3 22	13 39.05	− 7 45.2	1.868	2.806	8.4	21.8
4 1	13 30.92	− 6 44.1	1.815	2.799	4.4	21.5
4 11	13 21.72	− 5 37.8	1.791	2.792	1.0	21.2
4 21	13 12.39	− 4 32.7	1.796	2.784	4.6	21.5
5 1	13 3.93	− 3 35.3	1.828	2.775	8.8	21.7
5 11	12 57.14	− 2 50.7	1.886	2.765	12.5	21.9
5 21	12 52.51	− 2 21.9	1.965	2.755	15.6	22.1

112866 2002 QM_{33} 4 11.7 188°.59 4°.9/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 40.73	+ 5 30.0	2.408	3.287	9.4	19.8
3 22	13 35.48	+ 6 46.7	2.349	3.286	7.0	19.7
4 1	13 28.89	+ 8 0.9	2.317	3.285	5.1	19.5
4 11	13 21.59	+ 9 6.7	2.314	3.284	5.2	19.5
4 21	13 14.27	+ 9 58.8	2.339	3.282	7.2	19.7
5 1	13 7.64	+10 33.6	2.391	3.280	9.7	19.8
5 11	13 2.29	+10 49.6	2.466	3.277	12.1	20.0
5 21	12 58.59	+10 47.4	2.560	3.274	14.2	20.1

433907 2015 BB_{462} 4 11.7 179°.08 3°.2/ 8.6 18

3 12	13 43.14	− 0 54.2	2.068	2.947	10.8	21.0
3 22	13 37.34	− 0 6.3	2.004	2.948	7.6	20.8
4 1	13 29.93	+ 0 43.6	1.966	2.948	4.4	20.6
4 11	13 21.66	+ 1 30.0	1.956	2.948	3.3	20.5
4 21	13 13.37	+ 2 7.8	1.974	2.948	5.9	20.7
5 1	13 5.90	+ 2 32.8	2.020	2.948	9.2	20.9
5 11	12 59.96	+ 2 42.5	2.089	2.947	12.3	21.1
5 21	12 55.97	+ 2 36.4	2.179	2.947	15.0	21.3

46405 2002 EJ_{28} 4 11.7 273°.58 0°.4/11.9 18

3 12	13 43.04	−11 19.3	1.839	2.704	12.6	19.6
3 22	13 37.57	−10 57.2	1.761	2.697	9.0	19.4
4 1	13 30.18	−10 23.5	1.708	2.691	4.9	19.1
4 11	13 21.68	− 9 41.8	1.682	2.684	0.6	18.8
4 21	13 13.03	− 8 57.4	1.684	2.677	4.1	19.0
5 1	13 5.25	− 8 15.9	1.712	2.671	8.4	19.3
5 11	12 59.17	− 7 42.9	1.766	2.664	12.2	19.5
5 21	12 55.30	− 7 22.0	1.840	2.657	15.5	19.7

406861 2009 BP_{114} 4 11.7 97°.36 5°.3/ 7.5 18

3 12	13 45.07	+ 1 34.0	1.431	2.322	13.8	21.1
3 22	13 39.14	+ 2 43.6	1.380	2.328	9.9	20.9
4 1	13 31.01	+ 3 53.2	1.354	2.334	6.3	20.7
4 11	13 21.72	+ 4 53.8	1.353	2.340	5.6	20.7
4 21	13 12.50	+ 5 37.5	1.378	2.345	8.6	20.8
5 1	13 4.55	+ 5 59.1	1.427	2.351	12.6	21.1
5 11	12 58.74	+ 5 57.0	1.497	2.357	16.2	21.3
5 21	12 55.52	+ 5 32.6	1.585	2.362	19.3	21.5

188458 2004 JU_{16} 4 11.7 300°.35 0°.9/12.4 17

3 12	13 41.98	−13 18.0	1.565	2.434	14.2	20.8
3 22	13 37.24	−12 48.3	1.476	2.412	10.3	20.5
4 1	13 30.20	−12 1.6	1.409	2.391	5.8	20.2
4 11	13 21.69	−11 1.9	1.368	2.370	1.2	19.8
4 21	13 12.83	− 9 55.4	1.354	2.348	4.6	20.0
5 1	13 4.83	− 8 50.3	1.365	2.327	9.6	20.2
5 11	12 58.77	− 7 54.9	1.399	2.307	14.1	20.4
5 21	12 55.28	− 7 14.7	1.453	2.286	18.1	20.6

62384 2000 SX_{156} 4 11.7 181°.13 8°.7/22.1 18

3 12	13 44.25	−38 41.4	2.453	3.160	14.4	19.8
3 22	13 38.40	−39 15.3	2.367	3.160	12.7	19.6
4 1	13 30.62	−39 25.1	2.301	3.160	10.9	19.5
4 11	13 21.71	−39 8.7	2.257	3.160	9.4	19.4
4 21	13 12.62	−38 27.0	2.239	3.160	8.7	19.3
5 1	13 4.36	−37 23.5	2.245	3.160	9.1	19.4
5 11	12 57.79	−36 5.2	2.277	3.159	10.5	19.5
5 21	12 53.42	−34 39.7	2.331	3.159	12.3	19.6

277342 2005 TL_{73} 4 11.7 212°.31 3°.4/ 8.1 18

3 12	13 43.76	+ 0 3.2	2.261	3.136	10.2	21.6
3 22	13 37.73	+ 0 59.2	2.187	3.128	7.2	21.4
4 1	13 30.15	+ 1 57.0	2.140	3.120	4.3	21.2
4 11	13 21.69	+ 2 51.3	2.122	3.111	3.6	21.1
4 21	13 13.14	+ 3 36.7	2.132	3.101	6.0	21.3
5 1	13 5.31	+ 4 8.9	2.171	3.091	9.1	21.4
5 11	12 58.89	+ 4 25.4	2.234	3.079	12.1	21.6
5 21	12 54.31	+ 4 25.6	2.318	3.068	14.6	21.8

231340 2006 DS_{207} 4 11.7 90°.75 2°.8/13.9 17

3 12	13 46.82	−16 56.0	1.961	2.800	13.1	20.7
3 22	13 40.02	−17 9.8	1.900	2.816	9.7	20.5
4 1	13 31.38	−17 9.5	1.863	2.832	6.1	20.3
4 11	13 21.76	−16 56.5	1.853	2.848	3.0	20.1
4 21	13 12.16	−16 34.2	1.872	2.864	4.0	20.2
5 1	13 3.58	−16 7.2	1.919	2.879	7.4	20.4
5 11	12 56.78	−15 41.1	1.991	2.895	10.8	20.7
5 21	12 52.21	−15 20.1	2.086	2.910	13.7	20.9

106443 2000 VN_{54} 4 11.7 158°.71 1°.3/13.4 18

3 12	13 40.54	−15 27.9	2.817	3.655	9.5	20.8
3 22	13 35.24	−15 5.9	2.741	3.660	7.0	20.6
4 1	13 28.74	−14 33.6	2.691	3.665	4.1	20.4
4 11	13 21.60	−13 53.5	2.670	3.669	1.5	20.3
4 21	13 14.43	−13 8.8	2.680	3.673	2.8	20.4
5 1	13 7.86	−12 23.5	2.718	3.677	5.6	20.6
5 11	13 2.42	−11 41.6	2.784	3.680	8.3	20.7
5 21	12 58.47	−11 6.3	2.874	3.683	10.7	20.9

305568 2008 WR_{72} 4 11.7 235°.83 4°.4/15.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 46.37	−22 6.4	1.708	2.534	15.2	21.6
3 22	13 40.27	−21 55.7	1.617	2.521	11.9	21.4
4 1	13 31.78	−21 21.9	1.548	2.508	8.1	21.1
4 11	13 21.80	−20 26.0	1.505	2.493	4.9	20.9
4 21	13 11.49	−19 12.2	1.489	2.478	5.2	20.9
5 1	13 2.13	−17 48.5	1.500	2.463	8.8	21.0
5 11	12 54.79	−16 24.6	1.535	2.446	12.9	21.2
5 21	12 50.11	−15 9.1	1.592	2.429	16.7	21.4

431929 2008 TZ_{130} 4 11.7 128°.40 1°.4/13.2 17

3 12	13 42.46	−15 17.1	2.168	3.015	11.7	21.7
3 22	13 36.84	−14 49.9	2.100	3.024	8.5	21.5
4 1	13 29.66	−14 9.6	2.056	3.032	4.9	21.3
4 11	13 21.65	−13 19.6	2.041	3.041	1.7	21.1
4 21	13 13.65	−12 24.5	2.055	3.049	3.4	21.2
5 1	13 6.48	−11 29.6	2.096	3.056	6.9	21.4
5 11	13 0.80	−10 40.5	2.164	3.064	10.2	21.7
5 21	12 57.02	−10 1.0	2.255	3.071	13.1	21.9

39583 1993 FN_{23} 4 11.7 277°.14 0°.8/12.4 18 R

3 12	13 41.88	−13 16.1	1.926	2.785	12.4	19.6
3 22	13 36.77	−12 44.5	1.836	2.769	9.0	19.3
4 1	13 29.79	−11 58.9	1.772	2.752	5.0	19.1
4 11	13 21.67	−11 2.9	1.734	2.736	1.0	18.7
4 21	13 13.33	−10 1.8	1.725	2.719	3.9	18.9
5 1	13 5.74	− 9 2.1	1.742	2.702	8.1	19.1
5 11	12 59.75	− 8 10.2	1.785	2.685	12.0	19.3
5 21	12 55.90	− 7 30.8	1.849	2.668	15.4	19.5

474872 2005 SO_{144} 4 11.7 212°.93 1°.6/ 9.5 17

3 12	13 39.04	− 5 25.6	2.681	3.551	8.9	22.4
3 22	13 34.24	− 4 29.3	2.605	3.546	6.2	22.2
4 1	13 28.23	− 3 27.7	2.557	3.541	3.2	22.0
4 11	13 21.57	− 2 25.1	2.538	3.536	1.7	21.9
4 21	13 14.86	− 1 26.1	2.549	3.530	4.1	22.0
5 1	13 8.72	− 0 35.1	2.588	3.525	7.1	22.2
5 11	13 3.69	+ 0 4.7	2.654	3.519	9.8	22.4
5 21	13 0.13	+ 0 31.4	2.741	3.512	12.1	22.5

91422 Giraudon 4 11.7 293°.97 7°.0/17.2 18

3 12	13 44.44	−27 12.0	1.795	2.597	15.6	18.3
3 22	13 38.99	−27 44.3	1.700	2.580	12.8	18.1
4 1	13 31.16	−27 53.9	1.626	2.562	9.9	17.8
4 11	13 21.77	−27 38.7	1.577	2.544	7.5	17.7
4 21	13 11.94	−27 0.1	1.552	2.526	7.2	17.6
5 1	13 2.93	−26 3.0	1.554	2.509	9.3	17.7
5 11	12 55.87	−24 56.0	1.579	2.491	12.6	17.8
5 21	12 51.45	−23 48.0	1.626	2.474	15.8	18.0

462316 2008 HQ_{8} 4 11.7 276°.79 5°.2/ 6.6 17

3 12	13 41.55	+ 1 37.9	1.662	2.553	12.3	20.9
3 22	13 36.57	+ 3 5.7	1.600	2.547	8.8	20.6
4 1	13 29.66	+ 4 35.3	1.562	2.540	5.8	20.5
4 11	13 21.66	+ 5 57.6	1.551	2.534	5.6	20.4
4 21	13 13.59	+ 7 4.5	1.566	2.528	8.4	20.6
5 1	13 6.48	+ 7 49.7	1.607	2.522	12.0	20.8
5 11	13 1.14	+ 8 10.4	1.668	2.515	15.4	21.0
5 21	12 58.07	+ 8 7.2	1.748	2.509	18.3	21.2

315397 2007 VS_{135} 4 11.7 148°.52 4°.9/ 7.3 18

3 12	13 45.73	+ 2 38.9	1.808	2.689	12.0	20.9
3 22	13 39.25	+ 3 44.6	1.756	2.698	8.6	20.7
4 1	13 30.96	+ 4 49.3	1.729	2.706	5.6	20.5
4 11	13 21.74	+ 5 45.4	1.730	2.713	5.2	20.5
4 21	13 12.60	+ 6 26.9	1.758	2.720	7.7	20.6
5 1	13 4.50	+ 6 49.5	1.813	2.726	11.0	20.9
5 11	12 58.20	+ 6 51.8	1.890	2.731	14.1	21.1
5 21	12 54.12	+ 6 34.8	1.986	2.736	16.8	21.3

351454 2005 KW_{13} 4 11.7 241°.60 7°.1/ 1.7 17

3 12	13 40.90	+15 45.0	2.662	3.525	9.2	20.9
3 22	13 35.59	+17 1.7	2.602	3.511	7.7	20.8
4 1	13 28.97	+18 9.6	2.569	3.497	7.1	20.7
4 11	13 21.62	+19 2.9	2.562	3.483	7.6	20.7
4 21	13 14.21	+19 37.3	2.583	3.468	9.1	20.8
5 1	13 7.42	+19 50.5	2.627	3.453	11.0	20.9
5 11	13 1.81	+19 42.5	2.694	3.438	12.9	21.0
5 21	12 57.78	+19 14.9	2.777	3.422	14.5	21.1

388690 2007 UO_{126} 4 11.7 133°.08 2°.5/ 8.8 17

3 12	13 41.34	− 1 34.8	2.557	3.430	9.2	21.2
3 22	13 35.80	− 0 52.0	2.499	3.440	6.4	21.1
4 1	13 29.02	− 0 7.5	2.468	3.450	3.6	20.9
4 11	13 21.63	+ 0 34.5	2.466	3.460	2.6	20.8
4 21	13 14.26	+ 1 9.9	2.494	3.469	4.7	21.0
5 1	13 7.59	+ 1 35.5	2.549	3.477	7.6	21.2
5 11	13 2.14	+ 1 49.1	2.631	3.486	10.2	21.4
5 21	12 58.26	+ 1 50.0	2.733	3.494	12.4	21.5

134656 1999 VV_{68} 4 11.7 237°.14 1°.3/12.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 43.89	−15 5.5	1.826	2.679	13.2	20.3
3 22	13 38.26	−14 28.5	1.740	2.668	9.7	20.1
4 1	13 30.60	−13 34.7	1.678	2.656	5.6	19.8
4 11	13 21.74	−12 27.9	1.643	2.644	1.6	19.5
4 21	13 12.67	−11 14.0	1.637	2.631	4.0	19.6
5 1	13 4.46	−10 0.6	1.658	2.618	8.4	19.9
5 11	12 58.01	− 8 55.2	1.703	2.604	12.5	20.1
5 21	12 53.86	− 8 3.0	1.771	2.590	15.9	20.3

53462 1999 XR_{178} 4 11.7 308°.32 3°.3/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.74	− 3 21.7	1.235	2.128	15.4	18.4
3 22	13 40.11	− 2 41.3	1.170	2.121	10.9	18.2
4 1	13 31.76	− 1 54.2	1.128	2.114	5.9	17.9
4 11	13 21.81	− 1 8.2	1.110	2.108	3.4	17.7
4 21	13 11.68	− 0 31.7	1.117	2.102	7.5	17.9
5 1	13 2.85	− 0 11.5	1.147	2.096	12.6	18.2
5 11	12 56.47	− 0 11.9	1.198	2.090	17.2	18.4
5 21	12 53.14	− 0 33.3	1.266	2.085	21.1	18.6

198445 2004 XD_{3} 4 11.7 237°.71 6°.0/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.84	+ 8 13.6	2.205	3.082	10.3	20.4
3 22	13 37.15	+ 9 27.3	2.136	3.069	7.9	20.2
4 1	13 29.87	+10 36.9	2.095	3.056	6.2	20.1
4 11	13 21.69	+11 35.4	2.080	3.042	6.4	20.1
4 21	13 13.41	+12 17.2	2.094	3.028	8.5	20.2
5 1	13 5.86	+12 38.8	2.133	3.013	11.1	20.3
5 11	12 59.73	+12 39.0	2.194	2.997	13.7	20.5
5 21	12 55.47	+12 19.0	2.274	2.982	16.0	20.6

86389 2000 AM_{67} 4 11.7 154°.20 3°.2/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 47.22	− 3 0.9	1.595	2.475	13.3	19.5
3 22	13 40.52	− 2 2.5	1.538	2.482	9.3	19.2
4 1	13 31.73	− 0 59.1	1.505	2.489	5.1	19.0
4 11	13 21.82	+ 0 2.0	1.500	2.496	3.4	18.9
4 21	13 11.96	+ 0 53.5	1.522	2.501	6.7	19.1
5 1	13 3.27	+ 1 29.5	1.570	2.506	10.8	19.4
5 11	12 56.64	+ 1 46.5	1.641	2.510	14.6	19.6
5 21	12 52.51	+ 1 44.2	1.731	2.513	17.7	19.8

324039 2005 UE_{480} 4 11.7 223°.73 6°.6/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.47	− 4 25.3	1.160	2.058	15.8	20.6
3 22	13 38.56	− 0 40.6	1.098	2.052	11.0	20.3
4 1	13 30.94	+ 3 24.6	1.064	2.046	7.0	20.0
4 11	13 21.78	+ 7 27.4	1.057	2.040	7.7	20.0
4 21	13 12.50	+11 3.8	1.078	2.033	12.2	20.2
5 1	13 4.56	+13 56.0	1.124	2.025	17.2	20.5
5 11	12 59.11	+15 57.0	1.189	2.017	21.5	20.7
5 21	12 56.68	+17 8.7	1.269	2.009	25.0	21.0

480350 2015 KU_{13} 4 11.7 283°.71 4°.0/ 6.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.28	+ 1 21.4	2.258	3.141	9.8	21.4
3 22	13 34.67	+ 2 36.0	2.179	3.123	7.0	21.2
4 1	13 28.58	+ 3 52.8	2.126	3.104	4.6	21.0
4 11	13 21.63	+ 5 5.3	2.102	3.085	4.3	20.9
4 21	13 14.54	+ 6 7.6	2.106	3.067	6.6	21.1
5 1	13 8.07	+ 6 54.6	2.137	3.048	9.7	21.2
5 11	13 2.89	+ 7 23.4	2.191	3.029	12.6	21.4
5 21	12 59.43	+ 7 33.2	2.265	3.010	15.1	21.5

186873 2004 HS_{47} 4 11.7 277°.34 4°.8/ 6.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.12	+ 0 16.8	1.701	2.590	12.1	20.0
3 22	13 36.31	+ 1 48.7	1.630	2.577	8.6	19.8
4 1	13 29.56	+ 3 24.9	1.584	2.564	5.5	19.6
4 11	13 21.69	+ 4 56.4	1.566	2.551	5.2	19.5
4 21	13 13.68	+ 6 14.3	1.574	2.538	8.1	19.7
5 1	13 6.54	+ 7 11.8	1.607	2.525	11.9	19.9
5 11	13 1.12	+ 7 45.0	1.663	2.512	15.4	20.1
5 21	12 57.95	+ 7 53.5	1.736	2.499	18.4	20.2

224454 2005 VJ_{25} 4 11.7 311°.95 1°.5/12.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.38	−13 12.1	1.589	2.454	14.2	19.9
3 22	13 38.84	−13 12.0	1.511	2.444	10.4	19.6
4 1	13 31.01	−12 58.0	1.456	2.435	6.0	19.3
4 11	13 21.79	−12 32.9	1.426	2.427	1.8	19.0
4 21	13 12.33	−12 1.0	1.423	2.418	4.4	19.2
5 1	13 3.84	−11 28.5	1.446	2.410	9.1	19.4
5 11	12 57.35	−11 1.7	1.493	2.402	13.3	19.6
5 21	12 53.44	−10 45.2	1.560	2.394	17.0	19.9

428691 2008 MD_{5} 4 11.7 277°.53 6°.8/16.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 47.12	−27 7.6	1.990	2.782	14.7	21.4
3 22	13 40.85	−27 46.6	1.883	2.756	12.1	21.2
4 1	13 32.18	−28 5.5	1.798	2.729	9.4	21.0
4 11	13 21.88	−28 1.9	1.738	2.703	7.2	20.8
4 21	13 10.99	−27 36.0	1.705	2.675	7.0	20.7
5 1	13 0.76	−26 51.6	1.698	2.647	9.1	20.8
5 11	12 52.30	−25 56.0	1.716	2.619	12.2	20.9
5 21	12 46.39	−24 57.4	1.756	2.591	15.4	21.0

303841 2005 SS_{170} 4 11.7 229°.61 0°.2/11.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 38.82	−11 27.3	2.451	3.311	10.0	20.4
3 22	13 34.21	−10 27.9	2.372	3.307	7.1	20.2
4 1	13 28.28	− 9 17.9	2.320	3.302	3.7	20.0
4 11	13 21.62	− 8 1.8	2.296	3.298	0.2	19.7
4 21	13 14.91	− 6 44.9	2.302	3.294	3.4	19.9
5 1	13 8.84	− 5 32.9	2.338	3.289	6.8	20.1
5 11	13 3.98	− 4 30.5	2.399	3.285	9.9	20.3
5 21	13 0.73	− 3 41.1	2.483	3.280	12.6	20.5

126768 2002 DC_{13} 4 11.7 82°.02 0°.1/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.37	−10 33.5	1.809	2.678	12.6	19.8
3 22	13 37.04	− 9 56.7	1.742	2.681	8.9	19.5
4 1	13 29.88	− 9 8.5	1.700	2.683	4.7	19.3
4 11	13 21.73	− 8 13.7	1.684	2.686	0.3	18.9
4 21	13 13.54	− 7 18.2	1.696	2.689	4.2	19.3
5 1	13 6.28	− 6 28.3	1.736	2.692	8.4	19.5
5 11	13 0.73	− 5 49.3	1.799	2.694	12.2	19.8
5 21	12 57.35	− 5 24.3	1.883	2.697	15.3	20.0

291068 2005 YS_{98} 4 11.7 127°.04 4°.2/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 47.99	− 0 13.5	1.546	2.429	13.5	21.1
3 22	13 41.04	+ 0 40.3	1.497	2.441	9.5	20.8
4 1	13 31.98	+ 1 35.4	1.471	2.453	5.6	20.6
4 11	13 21.86	+ 2 24.3	1.473	2.465	4.3	20.6
4 21	13 11.86	+ 3 0.3	1.502	2.476	7.4	20.8
5 1	13 3.14	+ 3 18.8	1.556	2.486	11.3	21.0
5 11	12 56.54	+ 3 17.7	1.633	2.496	14.9	21.3
5 21	12 52.49	+ 2 57.8	1.728	2.505	17.9	21.5

204089 2003 WV_{59} 4 11.7 186°.06 1°.6/10.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.00	− 5 47.5	2.181	3.052	10.6	20.5
3 22	13 36.53	− 5 6.0	2.111	3.052	7.4	20.3
4 1	13 29.54	− 4 18.6	2.067	3.052	3.8	20.1
4 11	13 21.71	− 3 29.8	2.052	3.051	1.6	19.9
4 21	13 13.85	− 2 44.6	2.065	3.051	4.5	20.1
5 1	13 6.74	− 2 7.8	2.107	3.050	8.0	20.3
5 11	13 1.05	− 1 42.7	2.173	3.048	11.2	20.5
5 21	12 57.20	− 1 31.3	2.261	3.047	13.9	20.7

113116 2002 RC_{80} 4 11.7 258°.78 1°.5/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.91	− 7 20.8	1.764	2.638	12.6	19.8
3 22	13 38.33	− 6 31.5	1.679	2.621	8.8	19.5
4 1	13 30.69	− 5 31.7	1.618	2.604	4.6	19.2
4 11	13 21.80	− 4 27.2	1.585	2.586	1.5	19.0
4 21	13 12.65	− 3 24.6	1.580	2.568	5.3	19.2
5 1	13 4.33	− 2 31.1	1.602	2.549	9.7	19.4
5 11	12 57.76	− 1 52.2	1.647	2.530	13.8	19.6
5 21	12 53.52	− 1 31.0	1.712	2.511	17.2	19.8

133930 2004 ST_{40} 4 11.7 162°.88 0°.7/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 47.27	− 8 29.0	1.958	2.820	12.1	20.5
3 22	13 40.33	− 7 55.8	1.892	2.828	8.5	20.3
4 1	13 31.58	− 7 13.9	1.851	2.834	4.4	20.1
4 11	13 21.85	− 6 27.8	1.838	2.840	0.7	19.8
4 21	13 12.12	− 5 42.8	1.855	2.845	4.4	20.1
5 1	13 3.35	− 5 4.1	1.900	2.849	8.4	20.3
5 11	12 56.32	− 4 36.2	1.971	2.852	11.9	20.6
5 21	12 51.49	− 4 21.4	2.062	2.854	14.9	20.8

168559 1999 XE_{26} 4 11.7 110°.89 2°.1/13.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.21	−17 40.0	1.819	2.661	13.8	20.1
3 22	13 38.93	−16 58.9	1.761	2.681	10.1	19.9
4 1	13 30.81	−16 0.1	1.727	2.700	6.1	19.7
4 11	13 21.80	−14 47.8	1.721	2.719	2.4	19.5
4 21	13 12.91	−13 28.7	1.743	2.737	3.9	19.7
5 1	13 5.13	−12 10.4	1.793	2.755	7.8	19.9
5 11	12 59.21	−11 0.1	1.868	2.772	11.4	20.2
5 21	12 55.53	−10 2.9	1.966	2.788	14.5	20.4

453328 2008 XN_{20} 4 11.7 97°.75 4°.1/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 47.11	− 0 57.3	1.468	2.354	13.9	21.4
3 22	13 40.42	+ 0 4.6	1.426	2.372	9.7	21.2
4 1	13 31.64	+ 1 8.4	1.408	2.391	5.6	21.0
4 11	13 21.85	+ 2 5.8	1.416	2.408	4.3	20.9
4 21	13 12.28	+ 2 49.8	1.451	2.426	7.4	21.2
5 1	13 4.05	+ 3 15.1	1.511	2.443	11.4	21.4
5 11	12 58.01	+ 3 19.9	1.593	2.460	15.1	21.7
5 21	12 54.52	+ 3 4.8	1.694	2.476	18.1	22.0

462176 2007 TC_{334} 4 11.7 96°.54 1°.9/13.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.80	−16 16.5	1.627	2.479	14.6	22.2
3 22	13 39.48	−15 42.0	1.573	2.499	10.7	22.0
4 1	13 31.15	−14 49.8	1.543	2.519	6.2	21.8
4 11	13 21.82	−13 44.6	1.539	2.539	2.2	21.6
4 21	13 12.64	−12 33.2	1.563	2.558	4.1	21.8
5 1	13 4.70	−11 23.5	1.614	2.577	8.4	22.1
5 11	12 58.79	−10 23.0	1.690	2.595	12.3	22.3
5 21	12 55.32	− 9 36.2	1.787	2.613	15.5	22.6

506860 2007 VP_{139} 4 11.7 264°.62 2°.2/ 9.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 41.83	− 3 43.1	2.193	3.068	10.4	21.7
3 22	13 36.52	− 2 59.2	2.109	3.052	7.3	21.5
4 1	13 29.60	− 2 10.3	2.052	3.036	4.0	21.2
4 11	13 21.74	− 1 21.2	2.022	3.020	2.3	21.1
4 21	13 13.72	− 0 37.1	2.022	3.003	5.1	21.2
5 1	13 6.37	− 0 2.8	2.049	2.986	8.6	21.4
5 11	13 0.40	+ 0 18.4	2.101	2.969	11.9	21.6
5 21	12 56.27	+ 0 24.7	2.174	2.952	14.7	21.8

213631 2002 QQ_{78} 4 11.7 301°.37 1°.8/12.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.45	−13 13.4	1.424	2.293	15.4	20.7
3 22	13 40.06	−13 18.6	1.331	2.266	11.4	20.4
4 1	13 31.92	−13 8.8	1.260	2.240	6.6	20.1
4 11	13 21.91	−12 45.9	1.213	2.214	2.0	19.7
4 21	13 11.28	−12 14.1	1.192	2.187	5.0	19.8
5 1	13 1.52	−11 40.2	1.196	2.161	10.3	20.0
5 11	12 53.94	−11 11.7	1.223	2.136	15.4	20.2
5 21	12 49.35	−10 54.8	1.268	2.111	19.7	20.4

503779 2016 QR_{67} 4 11.7 229°.83 1°.5/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.17	− 6 47.4	2.328	3.200	10.0	20.9
3 22	13 34.50	− 5 45.1	2.255	3.198	6.9	20.7
4 1	13 28.45	− 4 35.7	2.210	3.195	3.6	20.5
4 11	13 21.67	− 3 24.0	2.192	3.192	1.6	20.3
4 21	13 14.84	− 2 15.8	2.205	3.189	4.4	20.5
5 1	13 8.67	− 1 16.3	2.245	3.186	7.7	20.7
5 11	13 3.78	− 0 29.6	2.310	3.183	10.8	20.9
5 21	13 0.55	+ 0 2.1	2.397	3.180	13.4	21.1

106297 2000 UQ_{83} 4 11.7 49°.56 1°.3/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.72	− 5 51.7	2.094	2.968	10.9	18.7
3 22	13 36.33	− 5 25.5	2.035	2.977	7.6	18.5
4 1	13 29.42	− 4 54.1	2.000	2.986	3.9	18.2
4 11	13 21.73	− 4 21.5	1.994	2.995	1.3	18.1
4 21	13 14.05	− 3 52.2	2.016	3.004	4.3	18.3
5 1	13 7.20	− 3 30.2	2.066	3.013	7.9	18.5
5 11	13 1.83	− 3 18.6	2.140	3.023	11.1	18.7
5 21	12 58.32	− 3 18.9	2.236	3.032	13.8	18.9

45543 2000 CQ_{36} 4 11.7 233°.12 3°.8/ 6.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.40	+ 1 2.8	2.392	3.271	9.5	18.6
3 22	13 35.36	+ 2 22.4	2.318	3.260	6.7	18.4
4 1	13 28.93	+ 3 44.0	2.271	3.249	4.4	18.2
4 11	13 21.70	+ 5 1.4	2.254	3.237	4.1	18.2
4 21	13 14.39	+ 6 8.8	2.265	3.225	6.3	18.3
5 1	13 7.71	+ 7 1.4	2.304	3.212	9.2	18.5
5 11	13 2.28	+ 7 36.4	2.367	3.199	11.9	18.6
5 21	12 58.50	+ 7 53.0	2.450	3.185	14.3	18.8

375996 2009 YM_{2} 4 11.7 114°.33 6°.5/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.08	+ 9 6.0	2.048	2.926	10.9	20.7
3 22	13 37.23	+10 21.1	2.007	2.939	8.3	20.5
4 1	13 29.87	+11 29.1	1.991	2.951	6.6	20.4
4 11	13 21.76	+12 23.1	2.004	2.962	6.9	20.5
4 21	13 13.76	+12 58.2	2.043	2.974	8.8	20.6
5 1	13 6.69	+13 11.7	2.107	2.985	11.3	20.8
5 11	13 1.18	+13 3.6	2.193	2.996	13.7	21.0
5 21	12 57.59	+12 35.9	2.297	3.006	15.8	21.2

508730 2017 UO_{28} 4 11.7 284°.12 1°.1/10.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.05	− 7 43.3	1.733	2.608	12.7	20.7
3 22	13 37.69	− 7 8.8	1.656	2.599	8.9	20.5
4 1	13 30.34	− 6 24.9	1.604	2.590	4.7	20.2
4 11	13 21.81	− 5 36.6	1.579	2.580	1.1	19.9
4 21	13 13.12	− 4 49.8	1.581	2.571	4.9	20.2
5 1	13 5.33	− 4 10.9	1.610	2.562	9.3	20.4
5 11	12 59.30	− 3 44.6	1.662	2.553	13.3	20.6
5 21	12 55.57	− 3 33.7	1.734	2.544	16.6	20.8

7419 1991 PN_{13} 4 11.7 184°.95 4°.5/16.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.25	−23 53.5	2.356	3.156	12.4	18.0
3 22	13 39.64	−24 8.7	2.272	3.156	9.8	17.8
4 1	13 31.28	−24 7.0	2.211	3.156	7.1	17.6
4 11	13 21.88	−23 48.6	2.178	3.155	4.9	17.5
4 21	13 12.34	−23 15.7	2.173	3.154	4.9	17.5
5 1	13 3.55	−22 32.6	2.197	3.152	7.0	17.6
5 11	12 56.29	−21 45.1	2.248	3.149	9.8	17.8
5 21	12 51.06	−20 58.9	2.321	3.146	12.5	18.0

136066 2002 XU_{84} 4 11.7 121°.85 6°.7/20.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.66	−34 14.2	2.674	3.407	12.8	20.3
3 22	13 38.40	−34 33.5	2.599	3.421	10.8	20.1
4 1	13 30.55	−34 32.1	2.547	3.435	8.9	20.0
4 11	13 21.84	−34 9.3	2.519	3.449	7.3	19.9
4 21	13 13.09	−33 26.9	2.518	3.462	6.7	19.9
5 1	13 5.14	−32 29.0	2.544	3.475	7.5	20.0
5 11	12 58.68	−31 21.5	2.597	3.487	9.1	20.1
5 21	12 54.14	−30 10.9	2.673	3.499	11.0	20.2

336993 2011 QQ_{3} 4 11.7 298°.91 0°.7/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 34.37	−14 13.2	4.216	5.057	6.6	20.6
3 22	13 30.73	−13 47.7	4.129	5.050	4.8	20.5
4 1	13 26.35	−13 15.7	4.069	5.044	2.7	20.4
4 11	13 21.57	−12 39.0	4.038	5.038	0.9	20.2
4 21	13 16.75	−11 59.9	4.038	5.031	1.9	20.3
5 1	13 12.26	−11 20.7	4.067	5.025	4.0	20.4
5 11	13 8.44	−10 44.0	4.124	5.019	5.9	20.5
5 21	13 5.54	−10 11.8	4.207	5.013	7.6	20.7

186070 2001 SO_{192} 4 11.7 184°.30 2°.4/ 9.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.00	− 5 34.9	1.819	2.699	12.0	20.2
3 22	13 36.77	− 4 20.5	1.754	2.699	8.3	20.0
4 1	13 29.76	− 2 57.9	1.713	2.699	4.4	19.7
4 11	13 21.79	− 1 34.2	1.701	2.698	2.5	19.6
4 21	13 13.79	− 0 17.0	1.716	2.698	5.7	19.8
5 1	13 6.69	+ 0 46.7	1.759	2.697	9.7	20.0
5 11	13 1.26	+ 1 32.5	1.825	2.696	13.2	20.2
5 21	12 57.94	+ 1 58.5	1.911	2.695	16.2	20.4

256807 2008 CS_{92} 4 11.7 150°.29 0°.2/11.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.15	−10 38.5	1.888	2.749	12.5	22.0
3 22	13 39.64	−10 16.2	1.822	2.756	8.9	21.8
4 1	13 31.27	− 9 43.4	1.781	2.763	4.8	21.6
4 11	13 21.90	− 9 4.0	1.767	2.769	0.4	21.2
4 21	13 12.51	− 8 23.1	1.782	2.775	4.0	21.5
5 1	13 4.10	− 7 45.9	1.825	2.780	8.2	21.8
5 11	12 57.45	− 7 17.4	1.893	2.785	11.8	22.0
5 21	12 53.02	− 7 0.6	1.982	2.789	14.9	22.2

436338 2010 HM_{40} 4 11.7 225°.30 3°.9/ 7.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.81	+ 4 45.6	2.745	3.619	8.6	21.6
3 22	13 36.19	+ 5 25.1	2.674	3.610	6.3	21.4
4 1	13 29.32	+ 6 2.4	2.630	3.602	4.3	21.3
4 11	13 21.77	+ 6 33.3	2.615	3.593	4.1	21.2
4 21	13 14.17	+ 6 54.1	2.630	3.584	5.9	21.3
5 1	13 7.15	+ 7 2.4	2.672	3.575	8.3	21.5
5 11	13 1.27	+ 6 56.8	2.738	3.565	10.7	21.6
5 21	12 56.90	+ 6 37.6	2.826	3.555	12.7	21.8

294299 2007 VQ_{8} 4 11.7 162°.00 0°.7/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.97	− 8 5.2	2.809	3.669	8.9	22.1
3 22	13 35.54	− 7 23.5	2.739	3.675	6.2	21.9
4 1	13 28.95	− 6 35.7	2.697	3.681	3.2	21.7
4 11	13 21.75	− 5 45.3	2.685	3.686	0.7	21.5
4 21	13 14.55	− 4 56.3	2.703	3.691	3.3	21.7
5 1	13 7.95	− 4 12.6	2.750	3.695	6.3	21.9
5 11	13 2.48	− 3 37.3	2.824	3.698	9.0	22.1
5 21	12 58.45	− 3 12.5	2.921	3.702	11.2	22.3

56850 2000 QT_{61} 4 11.7 199°.50 3°.3/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.30	− 0 2.9	2.445	3.325	9.3	19.6
3 22	13 34.54	+ 1 9.9	2.380	3.323	6.5	19.4
4 1	13 28.48	+ 2 24.6	2.342	3.321	4.0	19.2
4 11	13 21.73	+ 3 35.6	2.333	3.320	3.6	19.2
4 21	13 14.95	+ 4 37.6	2.352	3.317	5.8	19.3
5 1	13 8.82	+ 5 26.0	2.400	3.315	8.6	19.5
5 11	13 3.89	+ 5 58.4	2.471	3.313	11.2	19.7
5 21	13 0.55	+ 6 14.0	2.564	3.310	13.5	19.8

415912 2001 UH_{62} 4 11.7 163°.58 0°.2/11.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.00	− 9 17.9	2.118	2.977	11.4	21.8
3 22	13 39.40	− 9 0.8	2.048	2.982	8.1	21.6
4 1	13 31.11	− 8 35.6	2.004	2.986	4.3	21.4
4 11	13 21.90	− 8 5.6	1.988	2.990	0.3	21.0
4 21	13 12.66	− 7 34.9	2.002	2.994	3.8	21.3
5 1	13 4.27	− 7 8.0	2.044	2.997	7.6	21.6
5 11	12 57.47	− 6 48.8	2.113	2.999	11.0	21.8
5 21	12 52.68	− 6 39.8	2.203	3.001	13.9	22.0

211440 2003 AH_{25} 4 11.7 48°.68 7°.6/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.27	+12 16.0	1.923	2.801	11.5	19.5
3 22	13 36.77	+13 23.5	1.885	2.812	9.1	19.3
4 1	13 29.67	+14 20.6	1.873	2.823	7.7	19.3
4 11	13 21.81	+15 0.4	1.887	2.835	8.0	19.3
4 21	13 14.07	+15 18.3	1.926	2.847	9.9	19.4
5 1	13 7.32	+15 12.6	1.989	2.858	12.3	19.6
5 11	13 2.19	+14 44.2	2.073	2.871	14.6	19.8
5 21	12 59.06	+13 56.2	2.174	2.883	16.6	20.0

64016 2001 SX_{144} 4 11.7 147°.90 1°.0/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.74	−13 44.8	2.444	3.292	10.5	20.1
3 22	13 36.27	−13 22.5	2.372	3.297	7.6	19.9
4 1	13 29.40	−12 49.8	2.325	3.302	4.3	19.7
4 11	13 21.80	−12 9.4	2.307	3.307	1.2	19.5
4 21	13 14.16	−11 25.3	2.318	3.312	3.1	19.6
5 1	13 7.22	−10 41.8	2.358	3.316	6.4	19.9
5 11	13 1.59	−10 3.4	2.424	3.320	9.4	20.1
5 21	12 57.65	− 9 33.3	2.514	3.324	12.0	20.2

311281 2005 EK_{306} 4 11.7 77°.28 0°.6/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 45.18	− 9 41.5	1.449	2.325	14.7	21.3
3 22	13 39.22	− 8 58.7	1.399	2.342	10.3	21.0
4 1	13 31.10	− 8 3.8	1.373	2.358	5.3	20.8
4 11	13 21.91	− 7 3.2	1.372	2.374	0.6	20.5
4 21	13 12.85	− 6 4.4	1.398	2.390	5.0	20.8
5 1	13 5.08	− 5 14.9	1.450	2.406	9.7	21.1
5 11	12 59.47	− 4 40.0	1.525	2.422	13.8	21.4
5 21	12 56.42	− 4 22.4	1.619	2.438	17.2	21.7

387127 2012 TQ_{186} 4 11.7 187°.91 0°.1/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.85	−10 26.6	2.441	3.299	10.1	21.6
3 22	13 36.37	−10 1.3	2.365	3.298	7.2	21.4
4 1	13 29.47	− 9 27.6	2.316	3.298	3.8	21.2
4 11	13 21.81	− 8 48.9	2.295	3.297	0.3	20.9
4 21	13 14.09	− 8 8.9	2.303	3.295	3.3	21.1
5 1	13 7.03	− 7 32.0	2.340	3.294	6.7	21.3
5 11	13 1.26	− 7 2.0	2.404	3.292	9.8	21.5
5 21	12 57.18	− 6 41.5	2.490	3.290	12.4	21.7

434894 2006 SV_{404} 4 11.7 201°.16 0°.7/12.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.31	−14 24.4	2.420	3.270	10.5	21.4
3 22	13 34.61	−13 31.0	2.341	3.269	7.5	21.2
4 1	13 28.55	−12 25.1	2.289	3.267	4.2	20.9
4 11	13 21.75	−11 10.6	2.265	3.266	0.9	20.7
4 21	13 14.91	− 9 52.8	2.270	3.264	3.1	20.9
5 1	13 8.74	− 8 37.4	2.305	3.262	6.6	21.1
5 11	13 3.83	− 7 29.8	2.366	3.260	9.7	21.3
5 21	13 0.55	− 6 33.8	2.450	3.258	12.4	21.5

508716 2017 UU_{25} 4 11.7 288°.72 2°.9/ 9.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.83	− 3 21.8	1.772	2.655	12.0	21.1
3 22	13 36.77	− 2 24.5	1.701	2.647	8.4	20.8
4 1	13 29.84	− 1 21.4	1.654	2.639	4.6	20.6
4 11	13 21.84	− 0 19.1	1.635	2.631	3.0	20.5
4 21	13 13.73	+ 0 35.7	1.644	2.624	6.1	20.7
5 1	13 6.49	+ 1 16.9	1.678	2.616	10.1	20.9
5 11	13 0.95	+ 1 40.6	1.735	2.608	13.7	21.1
5 21	12 57.57	+ 1 45.5	1.812	2.600	16.8	21.3

132042 2002 CM_{130} 4 11.7 108°.21 1°.3/12.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.57	−13 56.7	1.545	2.406	14.8	20.4
3 22	13 40.20	−13 30.6	1.487	2.419	10.7	20.2
4 1	13 31.65	−12 48.5	1.453	2.432	6.0	19.9
4 11	13 21.96	−11 55.0	1.444	2.445	1.5	19.6
4 21	13 12.33	−10 56.6	1.463	2.458	4.3	19.9
5 1	13 3.95	−10 0.8	1.508	2.470	9.0	20.2
5 11	12 57.69	− 9 14.5	1.577	2.482	13.1	20.4
5 21	12 54.01	− 8 42.0	1.667	2.493	16.5	20.7

91868 1999 UF_{36} 4 11.7 148°.27 1°.2/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.59	− 9 6.3	1.953	2.825	11.7	19.3
3 22	13 35.70	− 7 49.0	1.886	2.827	8.1	19.1
4 1	13 29.18	− 6 20.6	1.844	2.830	4.2	18.9
4 11	13 21.80	− 4 47.8	1.831	2.832	1.3	18.7
4 21	13 14.40	− 3 18.0	1.847	2.834	4.7	18.9
5 1	13 7.85	− 1 58.3	1.890	2.836	8.6	19.1
5 11	13 2.84	− 0 54.4	1.958	2.838	12.1	19.4
5 21	12 59.78	− 0 8.9	2.047	2.840	15.0	19.6

498402 2007 YS_{42} 4 11.7 55°.32 7°.2/19.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.50	−31 19.3	2.062	2.832	14.9	20.5
3 22	13 38.56	−31 46.9	2.002	2.853	12.4	20.3
4 1	13 30.73	−31 50.7	1.963	2.875	9.9	20.2
4 11	13 21.90	−31 30.3	1.949	2.897	7.8	20.1
4 21	13 13.09	−30 48.0	1.960	2.919	7.2	20.1
5 1	13 5.32	−29 49.5	1.997	2.941	8.4	20.2
5 11	12 59.37	−28 42.4	2.059	2.963	10.5	20.4
5 21	12 55.68	−27 34.2	2.144	2.985	12.8	20.6

193800 2001 PM_{12} 4 11.7 130°.00 5°.3/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 49.02	+ 3 6.3	1.575	2.457	13.4	20.2
3 22	13 41.77	+ 3 58.2	1.527	2.469	9.6	20.0
4 1	13 32.42	+ 4 47.5	1.503	2.480	6.2	19.8
4 11	13 22.01	+ 5 26.8	1.506	2.491	5.5	19.8
4 21	13 11.75	+ 5 50.1	1.537	2.502	8.2	20.0
5 1	13 2.76	+ 5 53.7	1.592	2.512	11.8	20.2
5 11	12 55.91	+ 5 37.0	1.670	2.521	15.2	20.5
5 21	12 51.61	+ 5 1.6	1.766	2.529	18.1	20.7

173875 2001 UQ_{14} 4 11.7 196°.82 1°.1/10.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.69	− 6 12.6	2.908	3.772	8.5	21.8
3 22	13 35.37	− 5 32.6	2.831	3.768	5.9	21.6
4 1	13 28.90	− 4 47.6	2.781	3.765	3.1	21.4
4 11	13 21.79	− 4 1.2	2.760	3.760	1.2	21.2
4 21	13 14.64	− 3 17.0	2.770	3.756	3.5	21.4
5 1	13 8.03	− 2 38.7	2.810	3.750	6.4	21.6
5 11	13 2.47	− 2 9.1	2.876	3.744	9.0	21.8
5 21	12 58.32	− 1 50.1	2.965	3.738	11.3	21.9

216129 2006 SX_{93} 4 11.7 284°.91 0°.8/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 44.56	− 8 33.9	1.564	2.440	13.8	20.9
3 22	13 39.11	− 8 3.4	1.477	2.420	9.8	20.6
4 1	13 31.29	− 7 21.1	1.413	2.399	5.2	20.3
4 11	13 21.97	− 6 32.0	1.376	2.377	0.8	19.9
4 21	13 12.26	− 5 42.6	1.365	2.356	5.2	20.2
5 1	13 3.43	− 4 59.9	1.379	2.335	10.2	20.4
5 11	12 56.57	− 4 30.4	1.417	2.313	14.8	20.6
5 21	12 52.33	− 4 17.6	1.474	2.292	18.7	20.8

435888 2008 YJ_{165} 4 11.7 39°.77 8°.3/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.37	+11 44.9	1.533	2.417	13.6	19.7
3 22	13 39.02	+12 38.2	1.513	2.445	10.5	19.6
4 1	13 30.83	+13 18.2	1.516	2.473	8.5	19.6
4 11	13 21.91	+13 37.7	1.544	2.502	8.6	19.6
4 21	13 13.36	+13 33.1	1.596	2.531	10.6	19.8
5 1	13 6.17	+13 4.0	1.672	2.561	13.2	20.0
5 11	13 1.04	+12 12.9	1.769	2.591	15.8	20.3
5 21	12 58.24	+11 4.2	1.883	2.621	17.9	20.5

438863 2009 FY_{48} 4 11.7 331°.50 3°.9/ 6.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 37.59	− 3 18.3	1.914	2.802	11.1	20.6
3 22	13 33.67	− 1 2.3	1.845	2.794	7.7	20.4
4 1	13 28.15	+ 1 22.5	1.803	2.786	4.6	20.2
4 11	13 21.75	+ 3 46.0	1.791	2.779	4.3	20.2
4 21	13 15.27	+ 5 57.8	1.808	2.772	7.3	20.3
5 1	13 9.56	+ 7 49.3	1.853	2.766	10.8	20.5
5 11	13 5.31	+ 9 15.2	1.920	2.760	14.0	20.7
5 21	13 2.95	+10 14.0	2.007	2.754	16.7	20.9

276062 2002 CH_{113} 4 11.7 176°.23 9°.9/ 1.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.35	+17 15.9	1.814	2.684	12.5	20.2
3 22	13 37.73	+18 50.6	1.774	2.685	10.6	20.1
4 1	13 30.28	+20 10.5	1.758	2.685	9.9	20.0
4 11	13 21.89	+21 7.0	1.766	2.685	10.6	20.0
4 21	13 13.55	+21 34.6	1.799	2.685	12.4	20.2
5 1	13 6.24	+21 31.5	1.853	2.685	14.7	20.3
5 11	13 0.72	+20 59.7	1.926	2.685	16.9	20.5
5 21	12 57.38	+20 3.3	2.015	2.685	18.8	20.6

310488 2000 TV_{30} 4 11.7 139°.95 1°.6/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.87	− 6 13.5	1.846	2.716	12.3	21.5
3 22	13 40.10	− 5 29.7	1.788	2.729	8.6	21.3
4 1	13 31.50	− 4 39.0	1.756	2.741	4.5	21.1
4 11	13 21.97	− 3 46.9	1.752	2.752	1.7	20.9
4 21	13 12.52	− 2 59.2	1.777	2.763	5.0	21.2
5 1	13 4.11	− 2 21.3	1.829	2.773	9.0	21.4
5 11	12 57.51	− 1 57.0	1.906	2.782	12.5	21.7
5 21	12 53.14	− 1 47.9	2.003	2.790	15.5	21.9

360355 2001 XH_{229} 4 11.7 109°.06 0°.8/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 48.15	− 8 32.2	1.568	2.439	14.1	22.0
3 22	13 41.18	− 7 57.6	1.517	2.457	9.8	21.8
4 1	13 32.12	− 7 13.1	1.491	2.475	5.1	21.6
4 11	13 22.02	− 6 24.4	1.491	2.493	0.8	21.3
4 21	13 12.07	− 5 37.8	1.519	2.510	5.0	21.6
5 1	13 3.40	− 4 59.7	1.574	2.526	9.5	21.9
5 11	12 56.86	− 4 34.7	1.653	2.542	13.4	22.2
5 21	12 52.87	− 4 24.9	1.751	2.558	16.6	22.4

87390 2000 QN_{67} 4 11.7 167°.03 2°.5/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.36	− 0 11.6	2.754	3.625	8.7	20.4
3 22	13 36.54	+ 0 18.6	2.689	3.628	6.1	20.2
4 1	13 29.52	+ 0 49.4	2.651	3.631	3.5	20.1
4 11	13 21.86	+ 1 17.1	2.642	3.634	2.6	20.0
4 21	13 14.19	+ 1 38.5	2.664	3.637	4.6	20.1
5 1	13 7.15	+ 1 50.8	2.714	3.639	7.3	20.3
5 11	13 1.27	+ 1 52.3	2.790	3.641	9.8	20.5
5 21	12 56.89	+ 1 42.5	2.887	3.642	11.9	20.6

342505 2008 UW_{183} 4 11.7 261°.33 2°.8/ 9.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.75	− 1 45.9	1.994	2.870	11.2	21.0
3 22	13 38.72	− 1 16.7	1.915	2.858	7.9	20.8
4 1	13 30.88	− 0 44.7	1.862	2.845	4.4	20.5
4 11	13 21.96	− 0 14.9	1.836	2.832	2.9	20.4
4 21	13 12.88	+ 0 8.0	1.839	2.818	5.6	20.5
5 1	13 4.58	+ 0 19.8	1.869	2.805	9.3	20.7
5 11	12 57.86	+ 0 17.9	1.923	2.791	12.8	20.9
5 21	12 53.23	+ 0 1.5	1.998	2.778	15.7	21.1

357496 2004 PK_{30} 4 11.7 296°.80 5°.5/14.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.75	−20 25.1	1.323	2.171	17.6	21.0
3 22	13 41.23	−20 59.2	1.238	2.154	13.8	20.7
4 1	13 32.69	−21 11.3	1.173	2.137	9.5	20.4
4 11	13 22.10	−21 0.2	1.131	2.120	6.0	20.2
4 21	13 10.91	−20 28.0	1.114	2.104	6.5	20.1
5 1	13 0.78	−19 41.4	1.121	2.087	10.7	20.3
5 11	12 53.14	−18 50.6	1.149	2.071	15.4	20.5
5 21	12 48.84	−18 5.0	1.197	2.055	19.7	20.7

374492 2005 YN_{97} 4 11.7 277°.85 3°.0/ 9.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 43.63	− 2 19.4	1.792	2.673	12.0	20.6
3 22	13 38.06	− 1 38.0	1.718	2.663	8.4	20.4
4 1	13 30.57	− 0 52.6	1.669	2.654	4.7	20.1
4 11	13 21.96	− 0 9.0	1.648	2.644	3.1	20.0
4 21	13 13.20	+ 0 27.0	1.654	2.634	6.1	20.2
5 1	13 5.31	+ 0 50.1	1.686	2.624	10.0	20.4
5 11	12 59.14	+ 0 57.2	1.741	2.614	13.7	20.6
5 21	12 55.19	+ 0 47.2	1.816	2.604	16.8	20.8

176890 2002 VJ_{21} 4 11.7 312°.54 5°.0/14.8 17

3 12	13 44.55	−19 36.0	1.377	2.228	16.8	19.2
3 22	13 39.61	−20 6.5	1.286	2.205	13.1	18.9
4 1	13 31.82	−20 16.7	1.216	2.182	8.9	18.6
4 11	13 22.06	−20 5.6	1.169	2.159	5.5	18.4
4 21	13 11.66	−19 35.5	1.146	2.137	6.1	18.3
5 1	13 2.19	−18 52.5	1.148	2.116	10.3	18.5
5 11	12 55.02	−18 6.0	1.172	2.095	15.0	18.7
5 21	12 51.01	−17 24.7	1.214	2.075	19.3	18.9

58570 1997 RD_{4} 4 11.7 254°.21 0°.5/12.0 17

3 12	13 48.10	−10 32.6	1.571	2.437	14.3	19.3
3 22	13 41.61	−10 27.5	1.488	2.424	10.3	19.0
4 1	13 32.64	−10 10.7	1.428	2.411	5.6	18.7
4 11	13 22.11	− 9 45.4	1.395	2.397	0.7	18.3
4 21	13 11.23	− 9 16.4	1.389	2.383	4.7	18.6
5 1	13 1.34	− 8 49.6	1.410	2.369	9.7	18.9
5 11	12 53.53	− 8 31.1	1.454	2.354	14.2	19.1
5 21	12 48.48	− 8 24.6	1.518	2.339	18.1	19.3

105396 2000 QN_{142} 4 11.7 218°.70 2°.3/14.1 18

3 12	13 45.06	−17 2.6	2.804	3.628	10.0	20.3
3 22	13 38.61	−17 16.3	2.712	3.620	7.5	20.1
4 1	13 30.72	−17 19.8	2.646	3.612	4.8	19.9
4 11	13 21.97	−17 13.9	2.610	3.603	2.5	19.7
4 21	13 13.05	−17 0.6	2.604	3.594	3.2	19.8
5 1	13 4.69	−16 42.8	2.628	3.585	5.9	19.9
5 11	12 57.52	−16 24.2	2.679	3.575	8.7	20.1
5 21	12 51.98	−16 8.2	2.755	3.565	11.1	20.3

63365 2001 HH_{3} 4 11.7 307°.35 1°.0/10.9 17

3 12	13 42.01	− 9 4.4	1.402	2.286	14.6	19.1
3 22	13 37.50	− 8 21.4	1.318	2.264	10.4	18.8
4 1	13 30.52	− 7 23.8	1.256	2.242	5.5	18.5
4 11	13 21.97	− 6 17.5	1.219	2.221	1.0	18.1
4 21	13 13.02	− 5 10.6	1.208	2.199	5.7	18.4
5 1	13 5.01	− 4 12.0	1.221	2.179	11.0	18.6
5 11	12 59.09	− 3 29.5	1.256	2.158	15.8	18.8
5 21	12 55.93	− 3 7.2	1.309	2.139	19.9	19.0

198309 2004 TW_{333} 4 11.7 153°.66 0°.6/11.1 18

3 12	13 43.50	− 8 26.7	1.945	2.814	11.8	20.3
3 22	13 37.80	− 7 57.9	1.877	2.816	8.3	20.1
4 1	13 30.35	− 7 20.7	1.833	2.818	4.3	19.9
4 11	13 21.94	− 6 39.3	1.817	2.819	0.7	19.6
4 21	13 13.49	− 5 58.8	1.830	2.821	4.2	19.8
5 1	13 5.91	− 5 24.3	1.870	2.822	8.2	20.1
5 11	12 59.95	− 5 0.1	1.935	2.823	11.8	20.3
5 21	12 56.05	− 4 48.5	2.020	2.825	14.8	20.5

102054 1999 RC_{125} 4 11.7 200°.76 5°.1/17.5 17

3 12	13 44.32	−27 40.5	2.831	3.603	11.2	20.0
3 22	13 38.18	−28 5.9	2.741	3.601	9.2	19.9
4 1	13 30.52	−28 15.6	2.675	3.597	7.1	19.7
4 11	13 21.96	−28 9.0	2.635	3.594	5.4	19.6
4 21	13 13.23	−27 47.5	2.624	3.590	5.2	19.6
5 1	13 5.09	−27 14.2	2.642	3.586	6.5	19.7
5 11	12 58.23	−26 33.7	2.686	3.582	8.6	19.8
5 21	12 53.08	−25 51.0	2.754	3.577	10.8	19.9

160411 2004 VC_{63} 4 11.7 251°.12 2°.2/10.0 16

3 12	13 46.58	− 5 16.9	1.657	2.534	13.1	20.4
3 22	13 40.40	− 4 35.0	1.574	2.517	9.3	20.1
4 1	13 31.93	− 3 44.9	1.515	2.500	4.9	19.8
4 11	13 22.06	− 2 52.4	1.483	2.482	2.2	19.6
4 21	13 11.89	− 2 4.2	1.478	2.464	5.9	19.8
5 1	13 2.62	− 1 27.0	1.501	2.445	10.5	20.0
5 11	12 55.27	− 1 5.6	1.546	2.426	14.7	20.2
5 21	12 50.45	− 1 2.3	1.610	2.406	18.3	20.4

362822 2011 YV_{77} 4 11.7 128°.24 1°.9/10.0 18

3 12	13 43.97	− 7 22.9	1.543	2.423	13.7	21.1
3 22	13 38.38	− 6 12.8	1.484	2.430	9.5	20.8
4 1	13 30.73	− 4 52.0	1.450	2.436	4.9	20.6
4 11	13 21.97	− 3 28.3	1.442	2.442	2.0	20.4
4 21	13 13.24	− 2 10.3	1.461	2.448	5.8	20.6
5 1	13 5.64	− 1 5.9	1.507	2.453	10.3	20.9
5 11	13 0.03	− 0 20.5	1.575	2.458	14.3	21.1
5 21	12 56.86	+ 0 3.8	1.662	2.463	17.6	21.4

71754 2000 RO_{45} 4 11.7 264°.42 4°.1/14.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 47.39	−18 55.7	1.567	2.409	15.6	18.1
3 22	13 41.25	−19 13.3	1.480	2.396	12.0	17.9
4 1	13 32.52	−19 11.9	1.416	2.383	7.9	17.6
4 11	13 22.12	−18 51.9	1.377	2.369	4.5	17.4
4 21	13 11.30	−18 16.2	1.364	2.356	5.3	17.4
5 1	13 1.45	−17 31.3	1.378	2.342	9.4	17.6
5 11	12 53.76	−16 45.3	1.415	2.328	13.7	17.8
5 21	12 48.92	−16 5.7	1.472	2.313	17.5	18.0

399716 2004 VY_{50} 4 11.7 131°.65 2°.9/ 9.3 18

3 12	13 46.67	− 3 19.2	1.676	2.554	12.9	21.6
3 22	13 40.09	− 2 24.5	1.622	2.566	9.0	21.4
4 1	13 31.56	− 1 25.1	1.594	2.578	4.9	21.2
4 11	13 22.04	− 0 27.9	1.593	2.589	3.0	21.1
4 21	13 12.60	+ 0 20.5	1.620	2.600	6.2	21.3
5 1	13 4.31	+ 0 54.7	1.673	2.610	10.2	21.6
5 11	12 57.95	+ 1 11.4	1.749	2.619	13.8	21.8
5 21	12 53.96	+ 1 10.2	1.845	2.628	16.8	22.0

225073 2007 HK_{90} 4 11.7 239°.01 3°.4/ 9.2 18

3 12	13 46.75	− 0 4.1	1.801	2.679	12.1	19.9
3 22	13 40.18	+ 0 16.3	1.735	2.678	8.6	19.7
4 1	13 31.66	+ 0 37.2	1.694	2.677	5.0	19.5
4 11	13 22.05	+ 0 53.6	1.681	2.675	3.4	19.4
4 21	13 12.39	+ 1 0.8	1.696	2.674	6.2	19.6
5 1	13 3.71	+ 0 55.6	1.737	2.672	10.0	19.8
5 11	12 56.84	+ 0 36.1	1.802	2.671	13.5	20.0
5 21	12 52.27	+ 0 2.6	1.887	2.669	16.5	20.2

283103 2008 UB_{188} 4 11.7 298°.06 0°.8/10.9 17

3 12	13 40.82	− 9 13.5	1.833	2.706	12.2	20.8
3 22	13 36.11	− 8 25.4	1.752	2.693	8.6	20.6
4 1	13 29.56	− 7 25.9	1.696	2.681	4.5	20.3
4 11	13 21.91	− 6 20.2	1.666	2.668	0.8	20.0
4 21	13 14.10	− 5 14.8	1.665	2.655	4.6	20.2
5 1	13 7.08	− 4 16.5	1.690	2.643	8.9	20.5
5 11	13 1.68	− 3 31.0	1.739	2.631	12.7	20.7
5 21	12 58.40	− 3 1.7	1.809	2.619	16.0	20.8

81361 2000 GN_{59} 4 11.7 123°.35 0°.4/11.2 18

3 12	13 40.00	−10 52.9	2.113	2.978	11.2	18.9
3 22	13 35.23	− 9 49.5	2.043	2.980	7.8	18.7
4 1	13 28.95	− 8 34.8	1.999	2.983	4.1	18.4
4 11	13 21.87	− 7 14.2	1.984	2.986	0.4	18.2
4 21	13 14.77	− 5 53.9	1.997	2.988	3.9	18.4
5 1	13 8.44	− 4 40.5	2.039	2.991	7.7	18.7
5 11	13 3.54	− 3 39.3	2.106	2.993	11.0	18.9
5 21	13 0.46	− 2 53.4	2.195	2.996	13.9	19.1

168771 2000 RM_{19} 4 11.7 272°.79 4°.6/15.2 17

3 12	13 44.92	−21 29.4	1.526	2.364	16.2	20.2
3 22	13 39.56	−21 26.8	1.438	2.349	12.6	19.9
4 1	13 31.63	−21 0.3	1.370	2.333	8.6	19.6
4 11	13 22.07	−20 10.5	1.327	2.317	5.1	19.4
4 21	13 12.10	−19 1.8	1.310	2.301	5.5	19.3
5 1	13 3.11	−17 42.3	1.318	2.284	9.4	19.5
5 11	12 56.28	−16 22.6	1.350	2.268	13.8	19.7
5 21	12 52.30	−15 11.7	1.402	2.251	17.8	19.9

58540 1997 ET_{17} 4 11.7 136°.21 0°.7/12.2 18 R

3 12	13 47.57	−12 51.4	1.557	2.419	14.6	18.7
3 22	13 40.93	−12 15.8	1.497	2.430	10.5	18.5
4 1	13 32.10	−11 24.9	1.460	2.441	5.7	18.2
4 11	13 22.09	−10 23.8	1.450	2.451	0.9	17.9
4 21	13 12.12	− 9 19.4	1.467	2.461	4.5	18.2
5 1	13 3.38	− 8 19.6	1.511	2.470	9.2	18.5
5 11	12 56.78	− 7 31.1	1.579	2.478	13.4	18.7
5 21	12 52.79	− 6 58.0	1.667	2.485	16.8	19.0

419681 2010 TR_{185} 4 11.7 199°.19 2°.3/13.6 17

3 12	13 46.68	−16 18.1	1.942	2.783	13.1	22.2
3 22	13 40.19	−16 12.9	1.861	2.781	9.7	22.0
4 1	13 31.71	−15 53.0	1.805	2.777	5.9	21.8
4 11	13 22.07	−15 20.3	1.776	2.773	2.6	21.5
4 21	13 12.26	−14 38.9	1.776	2.769	4.0	21.6
5 1	13 3.33	−13 54.2	1.803	2.764	7.8	21.8
5 11	12 56.15	−13 12.6	1.856	2.758	11.5	22.1
5 21	12 51.25	−12 38.9	1.931	2.752	14.8	22.3

162652 2000 SW_{229} 4 11.7 124°.08 0°.9/10.9 18

3 12	13 47.34	− 8 20.8	1.761	2.628	13.0	20.5
3 22	13 40.50	− 7 43.9	1.706	2.644	9.0	20.3
4 1	13 31.76	− 6 58.1	1.676	2.660	4.7	20.0
4 11	13 22.06	− 6 8.5	1.673	2.675	0.9	19.8
4 21	13 12.47	− 5 21.1	1.700	2.690	4.6	20.1
5 1	13 4.00	− 4 41.5	1.753	2.703	8.8	20.4
5 11	12 57.44	− 4 14.2	1.831	2.716	12.5	20.6
5 21	12 53.20	− 4 1.2	1.930	2.729	15.6	20.9

12214 Miroshnikov 4 11.7 296°.22 5°.2/17.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 40.24	−27 24.9	2.301	3.093	12.9	16.8
3 22	13 35.58	−27 16.0	2.203	3.078	10.5	16.6
4 1	13 29.25	−26 46.3	2.128	3.063	7.9	16.4
4 11	13 21.90	−25 56.1	2.077	3.048	5.7	16.3
4 21	13 14.36	−24 48.3	2.055	3.032	5.3	16.2
5 1	13 7.50	−23 28.3	2.059	3.017	7.2	16.3
5 11	13 2.08	−22 3.3	2.090	3.002	9.9	16.4
5 21	12 58.60	−20 40.5	2.144	2.988	12.7	16.6

214418 2005 PH_{15} 4 11.7 343°.85 9°.8/18.8 18

3 12	13 47.45	−32 45.2	1.844	2.609	16.6	19.3
3 22	13 41.35	−34 12.1	1.760	2.601	14.4	19.1
4 1	13 32.63	−35 15.9	1.697	2.594	12.1	18.9
4 11	13 22.14	−35 52.1	1.657	2.587	10.3	18.8
4 21	13 11.12	−35 59.1	1.641	2.581	9.9	18.8
5 1	13 0.96	−35 39.6	1.649	2.576	11.0	18.8
5 11	12 52.91	−35 1.1	1.680	2.571	13.1	18.9
5 21	12 47.72	−34 12.2	1.731	2.567	15.6	19.1

458854 2011 UK_{83} 4 11.7 125°.06 2°.4/13.8 18

3 12	13 45.65	−17 32.8	1.611	2.459	14.9	22.2
3 22	13 39.60	−17 3.2	1.547	2.469	11.0	22.0
4 1	13 31.40	−16 14.0	1.506	2.479	6.7	21.8
4 11	13 22.04	−15 9.1	1.491	2.488	2.8	21.5
4 21	13 12.71	−13 55.2	1.503	2.497	4.3	21.7
5 1	13 4.53	−12 40.5	1.542	2.506	8.6	21.9
5 11	12 58.42	−11 33.4	1.606	2.514	12.6	22.2
5 21	12 54.82	−10 39.6	1.690	2.522	16.1	22.4

41781 2000 VL_{55} 4 11.7 191°.95 1°.9/13.3 18

3 12	13 46.62	−15 22.2	1.804	2.652	13.6	19.8
3 22	13 40.23	−15 6.8	1.727	2.651	10.0	19.5
4 1	13 31.76	−14 36.0	1.674	2.650	5.9	19.3
4 11	13 22.08	−13 52.5	1.648	2.647	2.1	19.0
4 21	13 12.27	−13 1.3	1.650	2.645	4.0	19.2
5 1	13 3.43	−12 8.9	1.680	2.641	8.2	19.4
5 11	12 56.44	−11 21.9	1.735	2.637	12.2	19.6
5 21	12 51.85	−10 45.3	1.811	2.633	15.6	19.8

8408 Strom 4 11.7 340°.97 0°.0/11.7 18

3 12	13 40.78	−10 31.4	1.934	2.802	11.9	18.4
3 22	13 35.96	−10 2.8	1.860	2.798	8.4	18.2
4 1	13 29.43	− 9 23.6	1.811	2.794	4.5	17.9
4 11	13 21.92	− 8 38.1	1.788	2.790	0.3	17.6
4 21	13 14.32	− 7 51.2	1.794	2.787	3.9	17.9
5 1	13 7.52	− 7 8.5	1.827	2.784	8.0	18.1
5 11	13 2.27	− 6 35.1	1.884	2.781	11.6	18.3
5 21	12 59.04	− 6 14.0	1.962	2.779	14.7	18.5

195441 2002 GN_{73} 4 11.7 295°.69 3°.3/ 8.9 18

3 12	13 42.92	− 1 37.7	1.793	2.676	11.9	19.7
3 22	13 37.55	− 0 52.3	1.723	2.669	8.4	19.5
4 1	13 30.30	− 0 3.6	1.678	2.662	4.8	19.3
4 11	13 21.98	+ 0 42.4	1.660	2.655	3.4	19.2
4 21	13 13.56	+ 1 19.7	1.670	2.648	6.3	19.3
5 1	13 6.02	+ 1 43.2	1.705	2.641	10.1	19.5
5 11	13 0.18	+ 1 49.9	1.764	2.634	13.7	19.7
5 21	12 56.52	+ 1 39.3	1.842	2.627	16.7	19.9

292782 2006 US_{218} 4 11.7 107°.94 1°.6/13.7 17

3 12	13 40.22	−16 49.7	2.366	3.207	11.0	20.8
3 22	13 35.28	−16 12.2	2.295	3.215	8.1	20.6
4 1	13 28.95	−15 21.2	2.250	3.223	4.8	20.4
4 11	13 21.89	−14 19.9	2.232	3.230	1.9	20.2
4 21	13 14.83	−13 13.1	2.243	3.237	3.1	20.3
5 1	13 8.50	−12 6.3	2.283	3.245	6.4	20.5
5 11	13 3.49	−11 4.8	2.350	3.252	9.4	20.7
5 21	13 0.18	−10 12.7	2.440	3.259	12.1	20.9

330092 2005 WV_{92} 4 11.7 270°.36 5°.9/ 6.7 17

3 12	13 45.30	+ 5 50.2	1.800	2.682	12.0	20.5
3 22	13 39.25	+ 6 41.4	1.730	2.669	8.9	20.3
4 1	13 31.22	+ 7 28.9	1.685	2.656	6.4	20.1
4 11	13 22.05	+ 8 5.7	1.667	2.643	6.2	20.1
4 21	13 12.74	+ 8 25.9	1.675	2.630	8.6	20.2
5 1	13 4.34	+ 8 25.7	1.709	2.617	11.9	20.4
5 11	12 57.69	+ 8 4.3	1.765	2.603	15.1	20.5
5 21	12 53.33	+ 7 23.0	1.839	2.590	17.9	20.7

359924 2011 WY_{137} 4 11.7 343°.59 0°.3/11.9 17

3 12	13 45.00	− 9 44.5	1.156	2.043	16.7	20.3
3 22	13 39.88	− 9 45.8	1.089	2.036	12.0	20.0
4 1	13 31.88	− 9 34.0	1.044	2.030	6.5	19.6
4 11	13 22.11	− 9 13.3	1.022	2.024	0.6	19.2
4 21	13 12.06	− 8 49.8	1.024	2.019	5.5	19.5
5 1	13 3.35	− 8 30.6	1.049	2.015	11.3	19.8
5 11	12 57.21	− 8 22.2	1.095	2.013	16.4	20.1
5 21	12 54.31	− 8 28.4	1.159	2.010	20.6	20.4

302318 2002 AE_{48} 4 11.7 42°.34 4°.1/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 43.36	− 3 3.0	1.174	2.072	15.6	20.4
3 22	13 38.30	− 1 51.3	1.130	2.083	10.9	20.1
4 1	13 30.78	− 0 33.7	1.109	2.095	6.1	19.9
4 11	13 22.02	+ 0 39.4	1.111	2.107	4.3	19.8
4 21	13 13.39	+ 1 38.4	1.138	2.120	8.0	20.1
5 1	13 6.22	+ 2 15.8	1.189	2.133	12.7	20.4
5 11	13 1.45	+ 2 28.5	1.259	2.146	16.9	20.7
5 21	12 59.50	+ 2 17.3	1.346	2.160	20.3	20.9

381534 2008 SY_{287} 4 11.7 187°.26 2°.2/ 9.5 17

3 12	13 43.13	− 3 34.0	2.137	3.011	10.7	21.0
3 22	13 37.42	− 2 52.7	2.068	3.010	7.4	20.8
4 1	13 30.13	− 2 7.1	2.026	3.010	4.0	20.6
4 11	13 21.98	− 1 22.3	2.012	3.009	2.3	20.5
4 21	13 13.79	− 0 43.2	2.027	3.008	5.0	20.6
5 1	13 6.38	− 0 14.1	2.069	3.007	8.5	20.9
5 11	13 0.43	+ 0 1.9	2.136	3.005	11.7	21.0
5 21	12 56.38	+ 0 3.7	2.224	3.003	14.4	21.2

113218 2002 RT_{119} 4 11.7 156°.48 4°.1/15.8 18

3 12	13 45.00	−22 39.5	2.403	3.210	12.0	19.2
3 22	13 38.76	−22 55.6	2.324	3.214	9.4	19.0
4 1	13 30.87	−22 56.1	2.269	3.218	6.6	18.8
4 11	13 22.05	−22 41.5	2.241	3.222	4.4	18.7
4 21	13 13.12	−22 14.0	2.242	3.225	4.5	18.7
5 1	13 4.92	−21 37.7	2.272	3.228	6.7	18.8
5 11	12 58.19	−20 57.9	2.328	3.231	9.5	19.0
5 21	12 53.38	−20 19.6	2.407	3.233	12.0	19.2

154884 2004 RN_{148} 4 11.7 308°.50 1°.1/12.4 17

3 12	13 48.29	−10 29.2	1.615	2.480	14.0	19.2
3 22	13 41.76	−10 56.5	1.531	2.466	10.2	18.9
4 1	13 32.77	−11 15.1	1.471	2.452	5.7	18.6
4 11	13 22.19	−11 26.4	1.437	2.438	1.3	18.3
4 21	13 11.23	−11 32.8	1.430	2.425	4.5	18.5
5 1	13 1.19	−11 38.3	1.450	2.411	9.3	18.7
5 11	12 53.18	−11 47.2	1.494	2.398	13.7	19.0
5 21	12 47.89	−12 3.2	1.559	2.386	17.4	19.2

343755 2011 FJ_{56} 4 11.7 319°.47 1°.4/10.3 17

3 12	13 37.93	−10 22.5	1.516	2.400	13.7	20.3
3 22	13 34.43	− 8 51.9	1.431	2.378	9.6	20.0
4 1	13 28.82	− 7 2.2	1.370	2.357	5.0	19.7
4 11	13 21.92	− 5 1.5	1.335	2.337	1.4	19.4
4 21	13 14.77	− 3 0.6	1.327	2.317	5.8	19.6
5 1	13 8.49	− 1 11.0	1.345	2.297	10.8	19.8
5 11	13 4.03	+ 0 18.1	1.385	2.279	15.2	20.0
5 21	13 1.98	+ 1 21.6	1.444	2.261	19.1	20.2

506255 2016 PQ_{36} 4 11.7 233°.55 0°.5/11.3 17

3 12	13 43.82	− 7 31.0	2.363	3.225	10.3	21.5
3 22	13 37.84	− 7 25.3	2.287	3.223	7.2	21.3
4 1	13 30.35	− 7 14.0	2.237	3.221	3.8	21.0
4 11	13 22.02	− 7 0.0	2.217	3.218	0.5	20.8
4 21	13 13.61	− 6 46.3	2.225	3.216	3.6	21.0
5 1	13 5.89	− 6 36.2	2.262	3.214	7.1	21.2
5 11	12 59.52	− 6 32.7	2.326	3.211	10.2	21.4
5 21	12 54.93	− 6 37.8	2.411	3.208	12.9	21.6

305569 2008 WG_{89} 4 11.7 104°.52 1°.8/13.2 18

3 12	13 46.78	−15 24.3	1.515	2.373	15.2	21.7
3 22	13 40.45	−15 1.5	1.458	2.386	11.1	21.5
4 1	13 31.88	−14 21.1	1.423	2.400	6.5	21.3
4 11	13 22.13	−13 27.2	1.413	2.413	2.2	21.0
4 21	13 12.44	−12 26.3	1.431	2.426	4.4	21.2
5 1	13 4.02	−11 26.3	1.475	2.439	8.9	21.5
5 11	12 57.77	−10 34.8	1.543	2.451	13.1	21.8
5 21	12 54.16	− 9 56.8	1.632	2.463	16.6	22.0

5432 Imakiire 4 11.7 155°.02 1°.6/10.2 18

3 12	13 44.02	− 5 57.2	2.014	2.885	11.4	17.8
3 22	13 38.09	− 5 14.7	1.949	2.890	7.9	17.6
4 1	13 30.51	− 4 25.8	1.910	2.895	4.1	17.4
4 11	13 22.04	− 3 35.6	1.900	2.900	1.7	17.2
4 21	13 13.56	− 2 49.4	1.918	2.904	4.7	17.4
5 1	13 5.95	− 2 12.2	1.964	2.907	8.5	17.7
5 11	12 59.92	− 1 47.7	2.034	2.911	11.8	17.9
5 21	12 55.90	− 1 37.6	2.126	2.914	14.7	18.1

285614 2000 QB_{231} 4 11.7 169°.63 1°.2/10.2 18

3 12	13 39.58	− 7 15.6	2.705	3.571	9.0	21.2
3 22	13 34.68	− 6 17.2	2.635	3.574	6.2	21.1
4 1	13 28.61	− 5 12.5	2.592	3.576	3.2	20.9
4 11	13 21.91	− 4 5.8	2.578	3.578	1.2	20.7
4 21	13 15.20	− 3 1.8	2.595	3.580	3.7	20.9
5 1	13 9.08	− 2 4.8	2.641	3.582	6.7	21.1
5 11	13 4.08	− 1 18.4	2.713	3.583	9.4	21.3
5 21	13 0.53	− 0 44.8	2.807	3.584	11.8	21.4

140514 2001 TF_{167} 4 11.7 109°.43 2°.2/14.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 43.75	−16 52.0	2.430	3.264	11.0	20.5
3 22	13 37.74	−16 52.6	2.362	3.276	8.2	20.3
4 1	13 30.27	−16 41.3	2.319	3.288	5.1	20.1
4 11	13 22.03	−16 20.0	2.305	3.300	2.4	20.0
4 21	13 13.77	−15 51.4	2.319	3.311	3.3	20.1
5 1	13 6.26	−15 19.8	2.363	3.323	6.3	20.3
5 11	13 0.13	−14 49.5	2.433	3.334	9.2	20.5
5 21	12 55.79	−14 24.2	2.526	3.345	11.7	20.6

240033 2001 UL_{100} 4 11.7 121°.59 2°.9/ 9.6 18

3 12	13 48.47	− 3 5.4	1.533	2.412	13.8	20.9
3 22	13 41.53	− 2 26.5	1.480	2.424	9.6	20.7
4 1	13 32.41	− 1 43.3	1.451	2.436	5.2	20.5
4 11	13 22.17	− 1 2.3	1.450	2.447	3.0	20.4
4 21	13 12.04	− 0 29.9	1.475	2.458	6.4	20.6
5 1	13 3.17	− 0 11.1	1.527	2.468	10.6	20.9
5 11	12 56.44	− 0 8.8	1.601	2.478	14.5	21.1
5 21	12 52.32	− 0 23.3	1.694	2.487	17.6	21.3

285897 2001 QK_{49} 4 11.7 206°.18 1°.6/10.3 18

3 12	13 46.70	− 6 56.1	1.844	2.713	12.4	21.9
3 22	13 40.22	− 6 5.2	1.767	2.707	8.7	21.7
4 1	13 31.75	− 5 5.1	1.716	2.700	4.5	21.4
4 11	13 22.14	− 4 1.5	1.693	2.693	1.6	21.2
4 21	13 12.38	− 3 1.0	1.698	2.685	5.2	21.4
5 1	13 3.53	− 2 10.0	1.731	2.675	9.4	21.7
5 11	12 56.46	− 1 33.5	1.789	2.665	13.2	21.9
5 21	12 51.67	− 1 13.8	1.867	2.654	16.4	22.1

419868 2011 AG_{24} 4 11.7 109°.30 3°.0/ 8.8 18

3 12	13 44.94	− 2 12.9	1.991	2.866	11.3	21.7
3 22	13 38.60	− 1 14.0	1.945	2.888	7.8	21.5
4 1	13 30.69	− 0 12.6	1.926	2.909	4.4	21.3
4 11	13 22.06	+ 0 45.3	1.935	2.929	3.1	21.3
4 21	13 13.57	+ 1 34.1	1.973	2.949	5.7	21.5
5 1	13 6.07	+ 2 9.3	2.038	2.968	9.1	21.7
5 11	13 0.20	+ 2 28.6	2.128	2.986	12.1	21.9
5 21	12 56.32	+ 2 31.5	2.238	3.004	14.6	22.2

371651 2007 BW_{74} 4 11.7 80°.77 1°.0/12.6 17

3 12	13 43.82	−13 9.3	1.701	2.563	13.6	21.2
3 22	13 38.28	−12 45.8	1.633	2.566	9.8	20.9
4 1	13 30.73	−12 8.2	1.588	2.568	5.5	20.7
4 11	13 22.07	−11 20.5	1.570	2.571	1.2	20.4
4 21	13 13.34	−10 28.4	1.579	2.574	4.1	20.6
5 1	13 5.61	− 9 38.5	1.615	2.576	8.5	20.9
5 11	12 59.73	− 8 56.9	1.675	2.579	12.4	21.1
5 21	12 56.20	− 8 28.0	1.756	2.582	15.8	21.3

161271 2003 FK_{73} 4 11.7 358°.20 6°.8/ 5.1 18

3 12	13 39.62	+ 3 50.9	1.449	2.348	13.2	19.3
3 22	13 35.47	+ 5 42.8	1.398	2.346	9.7	19.1
4 1	13 29.27	+ 7 33.8	1.371	2.345	7.1	19.0
4 11	13 21.97	+ 9 12.5	1.369	2.344	7.4	19.0
4 21	13 14.64	+10 29.0	1.393	2.344	10.3	19.1
5 1	13 8.39	+11 17.0	1.439	2.344	13.8	19.3
5 11	13 4.05	+11 34.7	1.505	2.345	17.1	19.5
5 21	13 2.09	+11 24.1	1.588	2.347	20.0	19.8

39432 1079 $T\text{-}_3$ 4 11.7 281°.12 4°.3/15.9 18

3 12	13 41.86	−23 29.4	1.911	2.731	14.1	18.7
3 22	13 37.00	−23 8.6	1.815	2.714	11.1	18.5
4 1	13 30.14	−22 25.1	1.741	2.697	7.7	18.2
4 11	13 22.04	−21 20.2	1.694	2.679	4.8	18.0
4 21	13 13.68	−19 58.2	1.673	2.662	4.9	18.0
5 1	13 6.11	−18 26.4	1.679	2.644	7.9	18.1
5 11	13 0.24	−16 53.9	1.711	2.626	11.6	18.3
5 21	12 56.64	−15 28.6	1.766	2.609	15.0	18.5

311279 2005 ED_{259} 4 11.7 99°.22 0°.5/11.4 18

3 12	13 45.51	−10 10.7	1.592	2.463	13.9	21.4
3 22	13 39.39	− 9 25.7	1.539	2.478	9.8	21.1
4 1	13 31.26	− 8 28.7	1.510	2.494	5.1	20.9
4 11	13 22.11	− 7 25.7	1.507	2.509	0.5	20.6
4 21	13 13.07	− 6 23.8	1.532	2.524	4.7	20.9
5 1	13 5.22	− 5 30.1	1.583	2.539	9.2	21.2
5 11	12 59.37	− 4 50.1	1.659	2.553	13.1	21.5
5 21	12 55.94	− 4 26.5	1.754	2.567	16.4	21.7

436368 2010 LS_{55} 4 11.7 289°.36 4°.7/ 5.8 16

3 12	13 39.46	+ 3 17.6	2.264	3.147	9.8	21.4
3 22	13 34.93	+ 4 42.6	2.181	3.123	7.1	21.2
4 1	13 28.89	+ 6 9.0	2.125	3.098	5.0	21.0
4 11	13 21.95	+ 7 29.9	2.097	3.073	5.1	21.0
4 21	13 14.83	+ 8 38.8	2.097	3.048	7.4	21.1
5 1	13 8.30	+ 9 30.5	2.124	3.023	10.3	21.2
5 11	13 3.03	+10 2.1	2.173	2.998	13.1	21.3
5 21	12 59.49	+10 13.0	2.242	2.973	15.6	21.5

385290 2001 TC_{137} 4 11.7 216°.12 3°.5/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 46.21	+ 1 23.7	2.354	3.224	10.0	22.4
3 22	13 39.54	+ 2 3.9	2.276	3.214	7.1	22.2
4 1	13 31.28	+ 2 44.3	2.225	3.203	4.4	22.1
4 11	13 22.12	+ 3 20.2	2.204	3.192	3.6	22.0
4 21	13 12.85	+ 3 47.1	2.212	3.180	5.9	22.1
5 1	13 4.27	+ 4 1.5	2.249	3.167	8.9	22.3
5 11	12 57.10	+ 4 1.5	2.310	3.153	11.8	22.4
5 21	12 51.77	+ 3 46.8	2.393	3.138	14.4	22.6

208239 2000 SN_{344} 4 11.7 94°.56 0°.4/12.0 18

3 12	13 47.62	−11 33.3	1.525	2.391	14.7	20.7
3 22	13 40.93	−11 7.2	1.474	2.410	10.4	20.5
4 1	13 32.08	−10 28.0	1.446	2.429	5.6	20.3
4 11	13 22.17	− 9 40.5	1.445	2.447	0.7	20.0
4 21	13 12.40	− 8 51.3	1.471	2.465	4.5	20.3
5 1	13 3.93	− 8 7.1	1.524	2.483	9.1	20.6
5 11	12 57.62	− 7 33.7	1.600	2.500	13.2	20.9
5 21	12 53.90	− 7 14.4	1.697	2.517	16.5	21.1

424059 2007 CU_{13} 4 11.7 144°.78 1°.1/10.7 16

3 12	13 44.69	− 7 31.5	2.114	2.979	11.2	22.2
3 22	13 38.48	− 6 49.9	2.051	2.989	7.8	22.0
4 1	13 30.69	− 6 1.0	2.015	2.999	4.0	21.8
4 11	13 22.08	− 5 9.5	2.008	3.009	1.1	21.6
4 21	13 13.50	− 4 20.4	2.029	3.017	4.3	21.8
5 1	13 5.79	− 3 38.9	2.079	3.026	7.9	22.1
5 11	12 59.62	− 3 8.7	2.155	3.033	11.2	22.3
5 21	12 55.39	− 2 51.8	2.252	3.040	13.9	22.5

33475 1999 FK_{53} 4 11.7 129°.74 3°.0/ 9.6 18

3 12	13 48.02	− 2 27.9	1.498	2.380	13.9	17.9
3 22	13 41.34	− 1 57.5	1.440	2.385	9.8	17.6
4 1	13 32.39	− 1 23.4	1.405	2.389	5.4	17.4
4 11	13 22.20	− 0 52.0	1.396	2.393	3.1	17.2
4 21	13 12.01	− 0 29.1	1.414	2.397	6.5	17.4
5 1	13 3.04	− 0 19.8	1.458	2.401	10.9	17.7
5 11	12 56.23	− 0 26.6	1.525	2.404	14.9	18.0
5 21	12 52.09	− 0 49.9	1.610	2.408	18.2	18.2

42516 Oistrach 4 11.7 219°.12 1°.7/ 9.9 18

3 12	13 42.09	− 5 6.5	2.501	3.369	9.6	19.8
3 22	13 36.59	− 4 21.8	2.421	3.360	6.7	19.6
4 1	13 29.70	− 3 31.9	2.367	3.351	3.5	19.3
4 11	13 22.02	− 2 40.9	2.343	3.342	1.7	19.2
4 21	13 14.25	− 1 53.4	2.348	3.331	4.3	19.3
5 1	13 7.10	− 1 13.6	2.383	3.321	7.5	19.5
5 11	13 1.17	− 0 45.0	2.442	3.310	10.4	19.7
5 21	12 56.88	− 0 29.2	2.524	3.298	13.0	19.9

34555 2000 SE_{262} 4 11.7 221°.23 1°.3/10.2 17

3 12	13 40.76	− 6 11.4	2.414	3.284	9.8	19.8
3 22	13 35.67	− 5 31.0	2.339	3.280	6.8	19.6
4 1	13 29.21	− 4 44.9	2.291	3.276	3.6	19.4
4 11	13 21.99	− 3 57.1	2.272	3.272	1.4	19.2
4 21	13 14.71	− 3 12.1	2.282	3.268	4.1	19.4
5 1	13 8.07	− 2 34.2	2.320	3.264	7.4	19.6
5 11	13 2.69	− 2 6.8	2.384	3.259	10.4	19.8
5 21	12 58.95	− 1 51.7	2.469	3.255	12.9	20.0

420641 2012 JF_7 4 11.7 83°.43 2°.6/ 9.7 18

3 12	13 45.51	− 3 10.8	1.662	2.543	12.8	20.7
3 22	13 39.38	− 2 37.3	1.606	2.551	9.0	20.5
4 1	13 31.28	− 1 59.9	1.574	2.559	4.9	20.2
4 11	13 22.14	− 1 24.2	1.569	2.567	2.7	20.1
4 21	13 13.03	− 0 55.9	1.591	2.574	5.9	20.3
5 1	13 5.02	− 0 39.6	1.639	2.582	9.9	20.6
5 11	12 58.91	− 0 38.2	1.711	2.590	13.6	20.8
5 21	12 55.15	− 0 52.3	1.802	2.598	16.6	21.0

361756 2007 YZ_{55} 4 11.7 54°.38 7°.7/20.3 17

3 12	13 43.80	−33 30.0	2.150	2.904	14.9	20.2
3 22	13 38.19	−33 58.6	2.080	2.916	12.6	20.1
4 1	13 30.68	−34 3.0	2.030	2.928	10.3	19.9
4 11	13 22.10	−33 42.2	2.004	2.941	8.4	19.8
4 21	13 13.44	−32 58.2	2.003	2.953	7.7	19.8
5 1	13 5.73	−31 55.8	2.028	2.966	8.6	19.9
5 11	12 59.78	−30 42.7	2.078	2.978	10.5	20.0
5 21	12 56.06	−29 26.6	2.150	2.991	12.7	20.2

102070 1999 RH_{139} 4 11.7 261°.30 0°.9/10.9 18

3 12	13 44.95	− 9 0.1	1.739	2.609	12.9	20.5
3 22	13 39.26	− 8 14.5	1.648	2.588	9.2	20.3
4 1	13 31.40	− 7 16.6	1.582	2.567	4.9	20.0
4 11	13 22.16	− 6 11.4	1.543	2.545	0.9	19.6
4 21	13 12.60	− 5 5.7	1.532	2.523	5.0	19.9
5 1	13 3.84	− 4 6.9	1.548	2.500	9.7	20.1
5 11	12 56.86	− 3 21.5	1.588	2.476	13.9	20.3
5 21	12 52.29	− 2 53.2	1.648	2.452	17.6	20.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
366099 2012 DA_5			4 11.7 313°.80		2°.0/10.3 17	
	h m	° ′			°	m
3 12	13 41.98	− 6 53.1	1.368	2.257	14.5	20.6
3 22	13 37.49	− 6 4.7	1.291	2.240	10.2	20.3
4 1	13 30.56	− 5 4.1	1.236	2.223	5.4	19.9
4 11	13 22.11	− 3 58.5	1.206	2.206	2.0	19.7
4 21	13 13.35	− 2 56.4	1.201	2.190	6.3	19.9
5 1	13 5.60	− 2 6.3	1.221	2.175	11.4	20.1
5 11	12 59.96	− 1 34.8	1.262	2.160	16.1	20.3
5 21	12 57.07	− 1 24.7	1.320	2.146	20.0	20.6
255696 2006 QM_{66}			4 11.7 301°.21		1°.5/10.6 17	
3 12	13 42.87	− 8 1.0	1.403	2.288	14.5	20.3
3 22	13 38.09	− 7 13.9	1.325	2.272	10.3	20.0
4 1	13 30.87	− 6 13.7	1.269	2.256	5.4	19.7
4 11	13 22.14	− 5 6.8	1.238	2.240	1.5	19.4
4 21	13 13.10	− 4 1.7	1.233	2.224	5.9	19.7
5 1	13 5.06	− 3 6.9	1.253	2.208	11.1	19.9
5 11	12 59.13	− 2 29.4	1.295	2.193	15.7	20.1
5 21	12 55.94	− 2 12.5	1.354	2.178	19.7	20.3
519862 2013 NF_{29}			4 11.8 262°.64		2°.3/13.6 17	
3 12	13 45.98	−15 45.1	1.950	2.794	12.9	21.2
3 22	13 39.88	−15 47.6	1.855	2.776	9.6	21.0
4 1	13 31.70	−15 36.2	1.785	2.758	5.9	20.7
4 11	13 22.20	−15 12.4	1.742	2.739	2.5	20.5
4 21	13 12.36	−14 39.6	1.727	2.720	4.0	20.5
5 1	13 3.25	−14 2.8	1.739	2.701	8.0	20.7
5 11	12 55.81	−13 27.9	1.777	2.681	11.9	20.9
5 21	12 50.66	−13 0.2	1.837	2.661	15.3	21.1
508623 2017 SR_{40}			4 11.8 180°.64		2°.8/ 8.4 17	
3 12	13 39.93	− 2 10.1	2.379	3.256	9.6	21.3
3 22	13 35.08	− 1 4.5	2.313	3.257	6.7	21.1
4 1	13 28.89	+ 0 4.5	2.274	3.257	3.8	20.9
4 11	13 21.99	+ 1 11.5	2.264	3.257	2.9	20.8
4 21	13 15.07	+ 2 11.0	2.284	3.257	5.3	21.0
5 1	13 8.81	+ 2 58.7	2.330	3.256	8.3	21.2
5 11	13 3.81	+ 3 31.5	2.402	3.256	11.1	21.4
5 21	13 0.43	+ 3 48.3	2.494	3.255	13.4	21.5
246790 2009 DS_{90}			4 11.8 10°.55		0°.0/11.7 17	
3 12	13 40.94	−10 47.1	2.099	2.963	11.3	21.0
3 22	13 35.97	−10 11.1	2.027	2.964	8.0	20.8
4 1	13 29.43	− 9 25.0	1.981	2.964	4.3	20.5
4 11	13 22.03	− 8 32.8	1.962	2.964	0.3	20.2
4 21	13 14.57	− 7 39.6	1.972	2.964	3.7	20.5
5 1	13 7.88	− 6 50.8	2.009	2.965	7.5	20.7
5 11	13 2.64	− 6 11.1	2.072	2.965	10.9	20.9
5 21	12 59.26	− 5 43.7	2.156	2.966	13.8	21.1
278376 2007 LZ_{16}			4 11.8 189°.24		3°.0/15.1 17	
3 12	13 42.48	−20 59.7	2.237	3.059	12.2	21.3
3 22	13 37.06	−20 28.7	2.154	3.058	9.3	21.1
4 1	13 30.02	−19 39.9	2.096	3.057	6.1	20.9
4 11	13 22.08	−18 35.9	2.065	3.056	3.4	20.7
4 21	13 14.07	−17 21.1	2.063	3.054	3.8	20.7
5 1	13 6.83	−16 1.8	2.089	3.052	6.8	20.9
5 11	13 1.06	−14 44.9	2.142	3.049	10.0	21.1
5 21	12 57.21	−13 36.1	2.219	3.046	12.9	21.3
254764 2005 QF_{24}			4 11.8 277°.19		0°.3/12.1 16	
3 12	13 42.22	−10 53.2	2.336	3.193	10.5	21.1
3 22	13 36.89	−10 36.3	2.243	3.175	7.6	20.9
4 1	13 29.97	−10 10.4	2.175	3.156	4.1	20.7
4 11	13 22.09	− 9 38.3	2.136	3.138	0.5	20.3
4 21	13 14.00	− 9 3.7	2.126	3.119	3.4	20.5
5 1	13 6.50	− 8 30.8	2.144	3.100	7.1	20.7
5 11	13 0.31	− 8 4.0	2.188	3.081	10.4	20.9
5 21	12 55.91	− 7 46.3	2.254	3.061	13.3	21.1
209546 2004 VJ_{22}			4 11.8 94°.88		0°.6/12.2 18	
3 12	13 47.60	−12 1.4	1.510	2.376	14.8	20.9
3 22	13 40.97	−11 36.5	1.458	2.394	10.5	20.7
4 1	13 32.16	−10 57.8	1.430	2.411	5.7	20.4
4 11	13 22.25	−10 10.2	1.427	2.429	0.9	20.1
4 21	13 12.47	− 9 20.0	1.452	2.446	4.5	20.4
5 1	13 3.98	− 8 34.4	1.503	2.463	9.1	20.8
5 11	12 57.68	− 7 59.3	1.578	2.479	13.2	21.0
5 21	12 53.98	− 7 38.2	1.673	2.495	16.6	21.3
116898 2004 FF_{140}			4 11.8 273°.70		6°.4/ 4.7 18	
3 12	13 43.83	+11 39.3	2.384	3.253	9.9	19.7
3 22	13 37.92	+12 29.3	2.310	3.233	7.9	19.5
4 1	13 30.48	+13 12.2	2.262	3.213	6.5	19.4
4 11	13 22.14	+13 42.2	2.241	3.193	6.8	19.4
4 21	13 13.68	+13 55.1	2.248	3.172	8.5	19.5
5 1	13 5.88	+13 48.4	2.281	3.151	10.9	19.6
5 11	12 59.42	+13 21.9	2.336	3.130	13.2	19.7
5 21	12 54.75	+12 37.1	2.410	3.109	15.4	19.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
160026 1997 EH_{25}			4 11.8 79°.42		3°.0/ 9.9 18	
	h m	° ′			°	m
3 12	13 48.61	− 3 29.2	1.255	2.143	15.6	20.5
3 22	13 41.99	− 2 55.2	1.206	2.154	10.9	20.3
4 1	13 32.81	− 2 16.0	1.180	2.166	5.9	20.0
4 11	13 22.31	− 1 38.8	1.179	2.177	3.1	19.9
4 21	13 11.92	− 1 10.9	1.203	2.188	6.9	20.1
5 1	13 3.03	− 0 57.8	1.251	2.200	11.8	20.4
5 11	12 56.65	− 1 2.7	1.321	2.211	16.1	20.7
5 21	12 53.22	− 1 25.7	1.409	2.222	19.6	21.0
488352 2016 WO_{11}			4 11.8 208°.01		2°.8/15.9 17	
3 12	13 38.68	−22 44.2	3.119	3.924	9.6	21.2
3 22	13 34.06	−22 15.3	3.029	3.921	7.4	21.0
4 1	13 28.33	−21 32.7	2.965	3.917	5.1	20.9
4 11	13 21.99	−20 38.1	2.928	3.913	3.1	20.7
4 21	13 15.60	−19 34.6	2.922	3.909	3.2	20.7
5 1	13 9.73	−18 26.2	2.945	3.905	5.1	20.8
5 11	13 4.87	−17 17.8	2.996	3.901	7.5	21.0
5 21	13 1.38	−16 13.5	3.072	3.896	9.7	21.1
433109 2012 TP_{123}			4 11.8 257°.63		0°.6/11.2 17	
3 12	13 43.34	− 8 24.2	2.040	2.907	11.4	21.3
3 22	13 37.77	− 8 0.0	1.961	2.899	8.1	21.0
4 1	13 30.47	− 7 27.6	1.907	2.891	4.2	20.8
4 11	13 22.15	− 6 50.9	1.881	2.882	0.6	20.5
4 21	13 13.69	− 6 14.4	1.883	2.874	4.1	20.7
5 1	13 5.99	− 5 43.0	1.913	2.865	8.0	21.0
5 11	12 59.81	− 5 21.0	1.968	2.857	11.6	21.2
5 21	12 55.65	− 5 10.9	2.044	2.848	14.6	21.3
114678 2003 FU_{53}			4 11.8 255°.47		3°.1/ 9.6 18	
3 12	13 48.31	− 2 24.3	1.600	2.479	13.4	19.7
3 22	13 41.74	− 1 52.6	1.520	2.463	9.5	19.4
4 1	13 32.78	− 1 16.5	1.463	2.447	5.3	19.1
4 11	13 22.33	− 0 41.9	1.434	2.431	3.1	18.9
4 21	13 11.57	− 0 15.1	1.431	2.413	6.6	19.1
5 1	13 1.77	− 0 1.6	1.455	2.396	11.1	19.3
5 11	12 53.99	− 0 4.7	1.502	2.378	15.3	19.5
5 21	12 48.86	− 0 25.4	1.567	2.359	18.9	19.7
92312 2000 FJ_{46}			4 11.8 314°.65		6°.0/ 7.2 18	
3 12	13 42.02	+ 0 12.8	1.176	2.079	15.2	18.9
3 22	13 37.74	+ 1 41.6	1.110	2.064	10.9	18.6
4 1	13 30.78	+ 3 16.2	1.066	2.049	7.0	18.3
4 11	13 22.19	+ 4 44.8	1.046	2.035	6.4	18.2
4 21	13 13.33	+ 5 55.3	1.050	2.021	10.1	18.4
5 1	13 5.66	+ 6 38.5	1.075	2.008	14.9	18.6
5 11	13 0.37	+ 6 50.5	1.120	1.996	19.3	18.8
5 21	12 58.08	+ 6 32.0	1.179	1.984	23.1	19.0
354277 2002 RU_{223}			4 11.8 244°.61		1°.9/ 9.9 18	
3 12	13 43.58	− 3 59.1	2.269	3.140	10.3	20.6
3 22	13 37.80	− 3 29.3	2.188	3.128	7.2	20.4
4 1	13 30.44	− 2 55.3	2.133	3.117	3.9	20.2
4 11	13 22.17	− 2 21.2	2.106	3.105	1.9	20.0
4 21	13 13.75	− 1 51.2	2.109	3.092	4.6	20.2
5 1	13 6.01	− 1 29.5	2.139	3.079	8.1	20.4
5 11	12 59.63	− 1 19.0	2.195	3.066	11.3	20.5
5 21	12 55.09	− 1 21.2	2.273	3.053	14.0	20.7
417115 2005 UH_{477}			4 11.8 107°.55		3°.7/16.0 18	
3 12	13 44.25	−23 49.5	2.132	2.941	13.2	21.7
3 22	13 38.22	−23 10.4	2.069	2.962	10.2	21.5
4 1	13 30.59	−22 11.2	2.030	2.984	7.0	21.3
4 11	13 22.17	−20 54.7	2.019	3.005	4.2	21.2
4 21	13 13.88	−19 26.5	2.036	3.025	4.2	21.2
5 1	13 6.56	−17 53.9	2.083	3.045	6.8	21.4
5 11	13 0.89	−16 24.4	2.156	3.064	9.9	21.6
5 21	12 57.23	−15 4.1	2.253	3.082	12.6	21.9
488946 2005 UB_{165}			4 11.8 128°.60		0°.2/11.6 16	
3 12	13 44.90	−10 4.9	2.115	2.974	11.4	23.0
3 22	13 38.66	− 9 31.8	2.055	2.989	8.0	22.8
4 1	13 30.83	− 8 49.7	2.020	3.002	4.2	22.6
4 11	13 22.20	− 8 2.5	2.014	3.016	0.3	22.3
4 21	13 13.62	− 7 15.3	2.037	3.028	3.7	22.6
5 1	13 5.93	− 6 33.0	2.088	3.041	7.5	22.9
5 11	12 59.79	− 5 59.9	2.165	3.052	10.8	23.1
5 21	12 55.61	− 5 38.5	2.264	3.063	13.5	23.3
115171 2003 SS_{81}			4 11.8 225°.90		1°.1/12.6 18	
3 12	13 46.35	−13 6.5	1.699	2.558	13.8	19.9
3 22	13 40.23	−12 50.4	1.620	2.551	10.0	19.6
4 1	13 31.92	−12 20.1	1.565	2.545	5.7	19.4
4 11	13 22.29	−11 39.0	1.537	2.538	1.4	19.0
4 21	13 12.46	−10 52.3	1.536	2.530	4.2	19.2
5 1	13 3.59	−10 6.4	1.562	2.522	8.8	19.5
5 11	12 56.63	− 9 27.9	1.612	2.514	13.0	19.7
5 21	12 52.16	− 9 1.3	1.683	2.506	16.5	19.9

468232 2015 BU_{203} 4 11.8 140°.02 1°.6/10.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 42.90	− 6 42.8	1.926	2.799	11.7	21.8
3 22	13 37.41	− 5 49.5	1.862	2.805	8.1	21.6
4 1	13 30.24	− 4 48.4	1.824	2.810	4.2	21.3
4 11	13 22.17	− 3 45.3	1.814	2.814	1.6	21.2
4 21	13 14.09	− 2 46.3	1.833	2.819	4.9	21.4
5 1	13 6.89	− 1 57.2	1.878	2.823	8.7	21.6
5 11	13 1.31	− 1 22.2	1.948	2.827	12.2	21.8
5 21	12 57.75	− 1 3.3	2.039	2.831	15.1	22.0

105566 2000 RQ_{63} 4 11.8 182°.58 2°.9/15.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.74	−20 32.8	2.564	3.383	11.0	20.3
3 22	13 36.41	−20 22.0	2.481	3.383	8.4	20.1
4 1	13 29.66	−19 56.9	2.424	3.383	5.6	19.9
4 11	13 22.13	−19 19.1	2.394	3.383	3.3	19.8
4 21	13 14.51	−18 31.8	2.393	3.382	3.5	19.8
5 1	13 7.54	−17 39.5	2.421	3.382	6.1	19.9
5 11	13 1.85	−16 47.2	2.475	3.381	8.9	20.1
5 21	12 57.84	−15 59.5	2.554	3.379	11.4	20.3

244935 2003 YA_{9} 4 11.8 148°.58 19°.0/24.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 52.70	+32 9.1	1.215	2.048	19.8	20.1
3 22	13 45.12	+34 41.5	1.205	2.055	19.0	20.0
4 1	13 34.51	+36 32.2	1.214	2.062	19.2	20.1
4 11	13 22.46	+37 29.1	1.240	2.068	20.3	20.2
4 21	13 10.82	+37 28.8	1.283	2.073	21.9	20.3
5 1	13 1.21	+36 35.3	1.340	2.078	23.7	20.4
5 11	12 54.70	+34 58.2	1.409	2.082	25.4	20.6
5 21	12 51.59	+32 48.4	1.487	2.086	26.8	20.8

63504 2001 OO_{78} 4 11.8 149°.73 1°.8/13.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.24	−15 36.4	2.421	3.259	10.9	19.4
3 22	13 38.17	−15 35.8	2.347	3.264	8.0	19.2
4 1	13 30.60	−15 24.1	2.298	3.269	4.9	19.0
4 11	13 22.20	−15 3.1	2.277	3.274	2.1	18.8
4 21	13 13.74	−14 35.8	2.286	3.279	3.2	18.9
5 1	13 6.00	−14 6.1	2.323	3.283	6.4	19.1
5 11	12 59.63	−13 38.3	2.387	3.287	9.4	19.3
5 21	12 55.05	−13 16.1	2.475	3.291	12.1	19.5

92960 2000 RE_{47} 4 11.8 268°.52 2°.8/13.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 48.23	−16 30.4	2.039	2.874	12.7	20.0
3 22	13 41.54	−16 48.9	1.935	2.850	9.6	19.7
4 1	13 32.68	−16 54.7	1.856	2.825	6.1	19.5
4 11	13 22.37	−16 48.0	1.805	2.800	3.0	19.2
4 21	13 11.59	−16 31.0	1.782	2.774	4.2	19.2
5 1	13 1.44	−16 7.7	1.788	2.747	8.0	19.4
5 11	12 52.91	−15 43.6	1.819	2.720	11.8	19.6
5 21	12 46.68	−15 23.8	1.873	2.693	15.2	19.8

329159 2012 BA_{59} 4 11.8 41°.29 0°.2/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.04	− 9 44.4	1.336	2.216	15.4	20.4
3 22	13 39.48	− 9 21.5	1.281	2.224	10.9	20.2
4 1	13 31.52	− 8 46.0	1.248	2.233	5.8	19.9
4 11	13 22.27	− 8 3.4	1.240	2.242	0.4	19.5
4 21	13 13.04	− 7 20.6	1.257	2.251	5.1	19.9
5 1	13 5.11	− 6 44.9	1.299	2.260	10.1	20.2
5 11	12 59.46	− 6 21.9	1.364	2.270	14.5	20.5
5 21	12 56.56	− 6 14.6	1.447	2.280	18.2	20.7

303771 2005 QB_{173} 4 11.8 236°.53 2°.3/14.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.62	−17 23.3	2.523	3.355	10.7	20.8
3 22	13 37.08	−17 23.4	2.437	3.349	8.0	20.6
4 1	13 30.06	−17 11.6	2.375	3.343	5.1	20.4
4 11	13 22.17	−16 49.3	2.342	3.336	2.6	20.2
4 21	13 14.15	−16 19.2	2.338	3.330	3.3	20.3
5 1	13 6.74	−15 45.3	2.363	3.323	6.2	20.5
5 11	13 0.61	−15 12.0	2.414	3.316	9.2	20.6
5 21	12 56.18	−14 43.2	2.488	3.310	11.8	20.8

372703 2009 WE_{248} 4 11.8 111°.45 1°.9/10.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.97	− 4 35.3	1.988	2.861	11.4	21.3
3 22	13 38.77	− 4 1.1	1.932	2.874	7.9	21.1
4 1	13 30.92	− 3 22.3	1.902	2.887	4.2	20.9
4 11	13 22.24	− 2 43.8	1.900	2.899	1.9	20.7
4 21	13 13.62	− 2 10.4	1.927	2.911	4.9	21.0
5 1	13 5.94	− 1 46.4	1.981	2.923	8.5	21.2
5 11	12 59.88	− 1 34.7	2.060	2.935	11.8	21.4
5 21	12 55.84	− 1 36.4	2.159	2.946	14.5	21.6

304706 2006 WU_{194} 4 11.8 127°.15 4°.2/ 7.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.01	+ 4 25.8	2.455	3.331	9.4	20.7
3 22	13 36.48	+ 5 10.4	2.399	3.337	6.8	20.5
4 1	13 29.65	+ 5 52.4	2.370	3.343	4.7	20.4
4 11	13 22.15	+ 6 27.1	2.369	3.348	4.4	20.4
4 21	13 14.67	+ 6 50.7	2.397	3.353	6.3	20.5
5 1	13 7.91	+ 7 0.3	2.452	3.358	8.8	20.7
5 11	13 2.41	+ 6 55.0	2.531	3.363	11.2	20.8
5 21	12 58.55	+ 6 35.1	2.630	3.368	13.4	21.0

366425 2001 VG_{20} 4 11.8 144°.27 1°.6/13.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 44.10	−16 23.7	2.207	3.046	11.8	22.4
3 22	13 38.12	−15 48.7	2.138	3.057	8.6	22.2
4 1	13 30.58	−14 59.5	2.094	3.067	5.1	22.0
4 11	13 22.22	−13 59.7	2.078	3.077	1.9	21.8
4 21	13 13.87	−12 54.1	2.092	3.086	3.3	21.9
5 1	13 6.36	−11 48.6	2.135	3.095	6.8	22.1
5 11	13 0.37	−10 49.0	2.204	3.103	10.1	22.3
5 21	12 56.28	− 9 59.6	2.296	3.110	12.9	22.5

434191 2003 BT_{46} 4 11.8 46°.65 9°.0/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.43	+15 2.7	1.815	2.693	12.1	20.3
3 22	13 36.31	+16 37.3	1.793	2.712	10.0	20.2
4 1	13 29.59	+17 57.5	1.795	2.732	9.0	20.2
4 11	13 22.14	+18 55.4	1.823	2.752	9.6	20.2
4 21	13 14.88	+19 26.4	1.875	2.773	11.3	20.4
5 1	13 8.66	+19 29.2	1.949	2.794	13.5	20.6
5 11	13 4.13	+19 5.8	2.042	2.815	15.6	20.8
5 21	13 1.61	+18 20.0	2.152	2.836	17.4	20.9

227581 2005 YH_{275} 4 11.8 137°.82 2°.4/14.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.00	−17 36.4	2.189	3.022	12.1	21.4
3 22	13 38.80	−17 25.0	2.119	3.033	9.0	21.2
4 1	13 30.97	−16 59.3	2.074	3.043	5.6	21.1
4 11	13 22.26	−16 21.7	2.057	3.052	2.7	20.9
4 21	13 13.52	−15 36.0	2.069	3.061	3.6	20.9
5 1	13 5.64	−14 47.4	2.109	3.070	6.8	21.2
5 11	12 59.31	−14 1.5	2.176	3.078	10.1	21.4
5 21	12 54.95	−13 22.7	2.265	3.086	12.9	21.6

258046 2001 NL_{1} 4 11.8 172°.28 6°.9/ 4.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.69	+10 53.4	2.106	2.978	10.9	20.8
3 22	13 39.24	+12 3.2	2.056	2.981	8.6	20.6
4 1	13 31.17	+13 5.1	2.031	2.984	7.0	20.5
4 11	13 22.27	+13 52.2	2.034	2.986	7.3	20.5
4 21	13 13.40	+14 19.8	2.064	2.988	9.1	20.7
5 1	13 5.44	+14 25.1	2.119	2.989	11.6	20.8
5 11	12 59.05	+14 8.6	2.196	2.989	14.0	21.0
5 21	12 54.66	+13 32.4	2.292	2.989	16.1	21.2

423973 2006 UC_{279} 4 11.8 263°.81 3°.2/ 8.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.50	+ 1 8.7	2.365	3.238	9.9	20.7
3 22	13 38.43	+ 1 34.2	2.283	3.222	7.0	20.5
4 1	13 30.80	+ 1 59.5	2.226	3.206	4.3	20.2
4 11	13 22.25	+ 2 20.6	2.199	3.189	3.3	20.2
4 21	13 13.55	+ 2 33.6	2.201	3.172	5.6	20.3
5 1	13 5.50	+ 2 35.3	2.230	3.156	8.6	20.4
5 11	12 58.77	+ 2 24.1	2.285	3.138	11.6	20.6
5 21	12 53.83	+ 1 59.6	2.361	3.121	14.2	20.7

227701 2006 DJ_{74} 4 11.8 140°.94 1°.5/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.44	− 6 10.6	2.039	2.910	11.3	20.4
3 22	13 37.75	− 5 32.1	1.974	2.915	7.8	20.2
4 1	13 30.42	− 4 47.2	1.935	2.920	4.1	19.9
4 11	13 22.23	− 4 0.8	1.924	2.925	1.5	19.8
4 21	13 14.02	− 3 17.9	1.942	2.929	4.6	20.0
5 1	13 6.66	− 2 43.4	1.988	2.933	8.3	20.2
5 11	13 0.84	− 2 20.9	2.058	2.937	11.6	20.4
5 21	12 56.97	− 2 12.1	2.149	2.941	14.4	20.6

411173 2010 EY_{103} 4 11.8 321°.01 0°.3/11.6 14 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.37	− 9 17.4	1.153	2.042	16.6	21.0
3 22	13 39.63	− 9 2.6	1.079	2.027	11.9	20.7
4 1	13 31.93	− 8 33.7	1.027	2.013	6.4	20.4
4 11	13 22.36	− 7 55.9	0.998	2.000	0.5	19.9
4 21	13 12.38	− 7 16.4	0.993	1.987	5.8	20.2
5 1	13 3.61	− 6 43.7	1.010	1.975	11.8	20.5
5 11	12 57.39	− 6 25.1	1.048	1.964	17.1	20.8
5 21	12 54.44	− 6 24.7	1.103	1.954	21.5	21.0

341475 2007 TJ_{353} 4 11.8 154°.12 0°.5/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.63	− 8 39.0	2.323	3.186	10.4	21.4
3 22	13 37.05	− 8 10.0	2.254	3.190	7.3	21.2
4 1	13 30.02	− 7 33.7	2.210	3.194	3.8	21.0
4 11	13 22.21	− 6 53.7	2.196	3.198	0.5	20.7
4 21	13 14.37	− 6 14.4	2.210	3.201	3.6	21.0
5 1	13 7.25	− 5 39.9	2.253	3.204	7.1	21.2
5 11	13 1.49	− 5 14.0	2.322	3.207	10.2	21.4
5 21	12 57.48	− 4 58.9	2.413	3.209	12.9	21.6

284183 2006 AB_{73} 4 11.8 141°.58 0°.5/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 48.67	−11 58.3	1.754	2.610	13.5	22.1
3 22	13 41.61	−11 29.2	1.692	2.624	9.6	21.9
4 1	13 32.53	−10 47.3	1.655	2.636	5.2	21.6
4 11	13 22.41	− 9 57.1	1.646	2.648	0.7	21.3
4 21	13 12.32	− 9 4.4	1.665	2.659	4.1	21.6
5 1	13 3.36	− 8 15.6	1.712	2.669	8.5	21.9
5 11	12 56.35	− 7 36.4	1.784	2.678	12.4	22.1
5 21	12 51.76	− 7 10.3	1.877	2.686	15.6	22.4

142241 2002 RT_{96} 4 11.8 257°.64 0°.1/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 45.38	−10 42.9	1.801	2.664	12.9	20.8
3 22	13 39.56	−10 14.9	1.712	2.647	9.2	20.5
4 1	13 31.61	− 9 34.7	1.647	2.630	5.0	20.2
4 11	13 22.36	− 8 46.1	1.609	2.611	0.4	19.8
4 21	13 12.80	− 7 54.7	1.600	2.593	4.4	20.1
5 1	13 4.04	− 7 6.9	1.617	2.574	8.9	20.3
5 11	12 57.03	− 6 28.7	1.660	2.554	13.1	20.5
5 21	12 52.37	− 6 4.2	1.722	2.534	16.6	20.7

27043 1998 RS_{71} 4 11.8 267°.01 0°.2/11.7 18

3 12	13 48.26	− 9 19.6	1.418	2.291	15.1	18.4
3 22	13 42.04	− 9 9.1	1.337	2.277	10.8	18.1
4 1	13 33.12	− 8 46.8	1.279	2.263	5.9	17.8
4 11	13 22.48	− 8 16.8	1.246	2.248	0.4	17.3
4 21	13 11.43	− 7 44.7	1.240	2.233	5.2	17.6
5 1	13 1.44	− 7 17.3	1.259	2.218	10.6	17.9
5 11	12 53.72	− 7 0.7	1.300	2.202	15.4	18.1
5 21	12 48.96	− 6 58.7	1.361	2.187	19.5	18.4

32623 Samuelkahn 4 11.8 82°.60 0°.3/12.0 18

3 12	13 44.95	−11 21.2	1.649	2.516	13.7	19.1
3 22	13 39.09	−10 55.2	1.590	2.526	9.7	18.9
4 1	13 31.24	−10 16.8	1.554	2.537	5.3	18.6
4 11	13 22.32	− 9 30.6	1.546	2.548	0.6	18.3
4 21	13 13.42	− 8 42.6	1.564	2.558	4.3	18.6
5 1	13 5.62	− 7 59.1	1.609	2.569	8.7	18.9
5 11	12 59.75	− 7 25.7	1.679	2.579	12.6	19.1
5 21	12 56.25	− 7 5.7	1.768	2.590	15.9	19.4

1249 Rutherfordia 4 11.8 72°.66 3°.4/14.3 18 R

3 12	13 45.56	−18 45.5	1.303	2.160	17.3	14.7
3 22	13 40.03	−18 26.4	1.243	2.168	13.0	14.5
4 1	13 31.91	−17 43.2	1.204	2.177	8.1	14.2
4 11	13 22.38	−16 39.5	1.189	2.186	3.8	14.0
4 21	13 12.82	−15 22.9	1.199	2.194	5.0	14.1
5 1	13 4.64	−14 3.5	1.235	2.203	9.7	14.3
5 11	12 58.90	−12 51.7	1.292	2.212	14.2	14.6
5 21	12 56.10	−11 54.6	1.370	2.221	18.1	14.9

408981 2002 RS_{274} 4 11.8 174°.81 3°.3/ 8.8 17

3 12	13 43.70	− 3 6.0	1.718	2.600	12.4	21.5
3 22	13 38.18	− 1 54.9	1.656	2.602	8.7	21.3
4 1	13 30.75	− 0 38.0	1.619	2.603	4.9	21.0
4 11	13 22.29	+ 0 37.1	1.609	2.603	3.4	20.9
4 21	13 13.80	+ 1 42.7	1.626	2.604	6.5	21.1
5 1	13 6.29	+ 2 32.5	1.670	2.604	10.4	21.4
5 11	13 0.55	+ 3 2.7	1.737	2.604	14.0	21.6
5 21	12 57.06	+ 3 12.5	1.823	2.603	17.0	21.8

105713 2000 SR_{74} 4 11.8 109°.98 1°.7/10.1 18

3 12	13 43.91	− 3 23.6	2.444	3.313	9.7	18.6
3 22	13 37.83	− 3 6.3	2.383	3.322	6.8	18.4
4 1	13 30.40	− 2 46.5	2.349	3.332	3.6	18.2
4 11	13 22.27	− 2 27.5	2.343	3.342	1.8	18.1
4 21	13 14.16	− 2 12.7	2.367	3.351	4.2	18.3
5 1	13 6.78	− 2 4.9	2.420	3.360	7.3	18.5
5 11	13 0.72	− 2 6.4	2.499	3.369	10.1	18.7
5 21	12 56.36	− 2 18.0	2.599	3.378	12.5	18.9

180182 2003 LF_4 4 11.8 337°.15 3°.7/16.1 17

3 12	13 37.93	−23 57.3	1.943	2.766	13.8	18.9
3 22	13 34.16	−23 2.1	1.854	2.756	10.7	18.7
4 1	13 28.65	−21 42.2	1.789	2.747	7.3	18.5
4 11	13 22.15	−20 0.9	1.749	2.738	4.3	18.3
4 21	13 15.54	−18 4.4	1.737	2.730	4.2	18.3
5 1	13 9.74	−16 1.8	1.754	2.722	7.3	18.4
5 11	13 5.50	−14 2.9	1.796	2.714	10.9	18.6
5 21	13 3.29	−12 15.8	1.862	2.708	14.2	18.8

416308 2003 SP_{41} 4 11.8 228°.46 1°.5/12.8 17

3 12	13 50.55	−12 46.5	1.903	2.750	13.0	21.8
3 22	13 43.16	−12 58.7	1.814	2.739	9.5	21.5
4 1	13 33.55	−13 0.1	1.750	2.727	5.5	21.2
4 11	13 22.53	−12 52.1	1.714	2.714	1.7	21.0
4 21	13 11.17	−12 37.5	1.707	2.701	4.0	21.1
5 1	13 0.65	−12 20.9	1.729	2.687	8.3	21.3
5 11	12 51.96	−12 7.1	1.776	2.672	12.3	21.5
5 21	12 45.71	−12 0.4	1.846	2.657	15.7	21.7

185653 3442 T-3 4 11.8 146°.10 0°.1/11.7 18

3 12	13 42.05	− 9 33.7	2.800	3.655	9.1	21.4
3 22	13 36.45	− 9 13.0	2.731	3.663	6.4	21.2
4 1	13 29.65	− 8 45.9	2.689	3.671	3.4	21.0
4 11	13 22.23	− 8 15.2	2.676	3.678	0.2	20.7
4 21	13 14.79	− 7 44.0	2.693	3.685	3.0	21.0
5 1	13 7.96	− 7 15.8	2.740	3.691	6.0	21.2
5 11	13 2.27	− 6 53.5	2.813	3.698	8.7	21.4
5 21	12 58.05	− 6 39.2	2.910	3.704	11.0	21.5

140594 2001 TC_{236} 4 11.8 134°.44 3°.3/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 40.80	+ 0 22.4	2.430	3.308	9.4	20.5
3 22	13 35.68	+ 1 23.1	2.372	3.315	6.6	20.4
4 1	13 29.27	+ 2 24.6	2.342	3.321	4.1	20.2
4 11	13 22.20	+ 3 21.7	2.340	3.328	3.5	20.2
4 21	13 15.14	+ 4 9.7	2.368	3.334	5.6	20.3
5 1	13 8.78	+ 4 44.7	2.423	3.340	8.4	20.5
5 11	13 3.66	+ 5 4.7	2.502	3.346	11.0	20.7
5 21	13 0.15	+ 5 9.3	2.602	3.352	13.2	20.9

374051 2004 PM_{34} 4 11.8 177°.55 5°.2/17.1 17

3 12	13 46.48	−26 26.8	2.364	3.150	12.8	21.4
3 22	13 39.97	−26 42.0	2.280	3.152	10.3	21.2
4 1	13 31.70	−26 38.7	2.220	3.154	7.7	21.1
4 11	13 22.39	−26 16.7	2.186	3.155	5.6	20.9
4 21	13 12.93	−25 38.2	2.180	3.155	5.4	20.9
5 1	13 4.25	−24 47.6	2.203	3.155	7.2	21.0
5 11	12 57.12	−23 51.2	2.252	3.154	9.8	21.2
5 21	12 52.04	−22 55.2	2.324	3.152	12.3	21.4

330010 2005 US_{34} 4 11.8 248°.43 0°.3/12.1 17

3 12	13 43.61	−11 52.1	1.913	2.774	12.4	21.7
3 22	13 38.15	−11 17.0	1.828	2.762	8.9	21.4
4 1	13 30.80	−10 29.0	1.769	2.750	4.8	21.1
4 11	13 22.33	− 9 32.3	1.736	2.738	0.6	20.8
4 21	13 13.66	− 8 32.4	1.732	2.726	4.0	21.0
5 1	13 5.78	− 7 35.7	1.756	2.713	8.3	21.3
5 11	12 59.53	− 6 48.2	1.804	2.700	12.1	21.5
5 21	12 55.44	− 6 14.1	1.874	2.687	15.4	21.7

503226 2015 HO_{84} 4 11.8 24°.43 1°.1/10.8 17

3 12	13 41.03	− 8 0.4	1.841	2.717	12.0	21.2
3 22	13 36.22	− 7 17.7	1.778	2.721	8.4	21.0
4 1	13 29.69	− 6 26.2	1.740	2.725	4.4	20.8
4 11	13 22.24	− 5 31.3	1.728	2.730	1.1	20.5
4 21	13 14.77	− 4 38.7	1.744	2.734	4.5	20.8
5 1	13 8.18	− 3 54.4	1.787	2.740	8.5	21.0
5 11	13 3.20	− 3 22.8	1.854	2.745	12.1	21.3
5 21	13 0.26	− 3 6.1	1.942	2.751	15.1	21.5

168133 2006 GE_{37} 4 11.8 318°.27 1°.8/10.5 17

3 12	13 42.14	− 7 43.0	1.219	2.112	15.6	19.8
3 22	13 37.90	− 6 55.3	1.145	2.095	11.1	19.5
4 1	13 30.97	− 5 53.2	1.092	2.079	5.8	19.1
4 11	13 22.35	− 4 44.3	1.063	2.064	1.8	18.8
4 21	13 13.39	− 3 37.9	1.058	2.049	6.5	19.1
5 1	13 5.54	− 2 43.8	1.077	2.035	12.1	19.3
5 11	13 0.02	− 2 9.6	1.116	2.022	17.1	19.6
5 21	12 57.50	− 1 58.6	1.171	2.009	21.3	19.8

191096 2002 EO_6 4 11.8 195°.87 0°.5/11.3 17

3 12	13 42.83	− 9 31.3	2.153	3.016	11.1	21.4
3 22	13 37.34	− 8 48.2	2.077	3.014	7.8	21.1
4 1	13 30.26	− 7 55.7	2.028	3.012	4.1	20.9
4 11	13 22.29	− 6 58.2	2.007	3.009	0.5	20.6
4 21	13 14.25	− 6 0.9	2.016	3.006	3.9	20.9
5 1	13 6.97	− 5 9.3	2.052	3.003	7.7	21.1
5 11	13 1.13	− 4 28.0	2.114	2.999	11.1	21.3
5 21	12 57.17	− 3 59.9	2.197	2.995	13.9	21.5

372965 2011 BS_{116} 4 11.8 29°.61 3°.4/ 9.4 18

3 12	13 43.84	− 2 21.3	1.364	2.256	14.3	20.1
3 22	13 38.54	− 1 42.3	1.316	2.266	10.0	19.9
4 1	13 31.01	− 0 59.7	1.290	2.276	5.5	19.7
4 11	13 22.35	− 0 20.8	1.290	2.287	3.5	19.6
4 21	13 13.76	+ 0 7.8	1.315	2.298	6.9	19.8
5 1	13 6.44	+ 0 20.8	1.365	2.311	11.2	20.1
5 11	13 1.27	+ 0 15.7	1.436	2.324	15.1	20.4
5 21	12 58.69	− 0 7.4	1.525	2.337	18.4	20.6

324099 2005 WR_{187} 4 11.8 226°.12 8°.5/ 2.8 17

3 12	13 44.60	+14 22.5	1.962	2.833	11.7	20.3
3 22	13 38.69	+15 45.3	1.909	2.826	9.6	20.2
4 1	13 31.00	+16 57.4	1.880	2.820	8.5	20.1
4 11	13 22.35	+17 50.8	1.878	2.813	9.0	20.1
4 21	13 13.67	+18 19.8	1.902	2.805	10.9	20.2
5 1	13 5.89	+18 22.0	1.948	2.798	13.3	20.4
5 11	12 59.77	+17 58.1	2.015	2.790	15.7	20.5
5 21	12 55.75	+17 11.3	2.099	2.782	17.8	20.7

302352 2002 BM_2 4 11.8 73°.11 0°.1/11.9 17

3 12	13 40.64	−11 18.7	2.266	3.126	10.7	21.1
3 22	13 35.72	−10 44.0	2.197	3.130	7.6	20.9
4 1	13 29.36	− 9 59.5	2.152	3.134	4.1	20.7
4 11	13 22.23	− 9 9.1	2.136	3.138	0.4	20.4
4 21	13 15.07	− 8 17.4	2.149	3.142	3.4	20.7
5 1	13 8.63	− 7 29.3	2.190	3.147	6.9	20.9
5 11	13 3.53	− 6 49.4	2.257	3.151	10.1	21.1
5 21	13 0.17	− 6 20.4	2.346	3.155	12.8	21.3

237636 2001 SA_{53} 4 11.8 188°.28 1°.9/10.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 45.38	− 7 22.3	1.681	2.555	13.1	20.6
3 22	13 39.45	− 6 14.0	1.612	2.555	9.1	20.4
4 1	13 31.49	− 4 54.9	1.569	2.554	4.8	20.1
4 11	13 22.39	− 3 32.1	1.553	2.553	1.9	19.9
4 21	13 13.22	− 2 13.8	1.564	2.550	5.6	20.2
5 1	13 5.06	− 1 7.5	1.603	2.548	10.0	20.4
5 11	12 58.78	− 0 19.0	1.665	2.544	13.9	20.6
5 21	12 54.86	+ 0 9.5	1.747	2.540	17.2	20.8

345642 2006 SE_{374} 4 11.8 72°.78 3°.0/ 8.6 17

3 12	13 41.74	− 0 58.2	2.173	3.052	10.3	21.0
3 22	13 36.39	− 0 7.7	2.126	3.070	7.2	20.8
4 1	13 29.66	+ 0 44.1	2.105	3.087	4.2	20.6
4 11	13 22.25	+ 1 31.8	2.113	3.105	3.2	20.6
4 21	13 14.94	+ 2 10.8	2.149	3.122	5.5	20.8
5 1	13 8.45	+ 2 37.3	2.211	3.140	8.5	21.0
5 11	13 3.37	+ 2 49.3	2.299	3.157	11.3	21.2
5 21	13 0.06	+ 2 46.5	2.406	3.175	13.7	21.4

290694 2005 UC_{371} 4 11.8 87°.35 0°.4/11.5 17

3 12	13 44.38	− 9 13.1	1.744	2.614	12.9	21.4
3 22	13 38.71	− 8 47.1	1.677	2.616	9.1	21.1
4 1	13 31.08	− 8 11.2	1.634	2.618	4.8	20.9
4 11	13 22.37	− 7 29.8	1.618	2.620	0.5	20.5
4 21	13 13.59	− 6 48.4	1.629	2.622	4.4	20.8
5 1	13 5.77	− 6 12.8	1.668	2.624	8.7	21.1
5 11	12 59.75	− 5 47.8	1.730	2.626	12.6	21.3
5 21	12 56.01	− 5 36.2	1.813	2.627	15.8	21.6

489636 2007 TN_{395} 4 11.8 212°.70 3°.2/15.5 18

3 12	13 41.58	−21 36.7	2.296	3.116	12.0	21.1
3 22	13 36.49	−21 11.5	2.211	3.113	9.3	20.9
4 1	13 29.83	−20 28.8	2.151	3.110	6.2	20.7
4 11	13 22.28	−19 30.8	2.117	3.106	3.6	20.5
4 21	13 14.63	−18 21.6	2.112	3.103	3.8	20.5
5 1	13 7.70	−17 6.9	2.136	3.099	6.6	20.7
5 11	13 2.19	−15 53.3	2.186	3.095	9.7	20.9
5 21	12 58.52	−14 46.6	2.259	3.090	12.6	21.1

4576 Yanotoyohiko 4 11.8 170°.33 2°.3/ 8.9 18

3 12	13 40.61	− 3 25.0	2.479	3.352	9.4	16.7
3 22	13 35.57	− 2 21.9	2.413	3.355	6.5	16.5
4 1	13 29.24	− 1 14.7	2.374	3.357	3.6	16.4
4 11	13 22.23	− 0 8.6	2.364	3.359	2.4	16.3
4 21	13 15.20	+ 0 51.5	2.384	3.360	4.8	16.4
5 1	13 8.82	+ 1 41.0	2.431	3.361	7.8	16.6
5 11	13 3.66	+ 2 16.9	2.505	3.362	10.5	16.8
5 21	13 0.08	+ 2 37.9	2.599	3.363	12.9	17.0

435345 2007 VS_{147} 4 11.8 233°.43 4°.5/ 6.9 18

3 12	13 42.71	+ 4 41.1	2.339	3.215	9.8	21.1
3 22	13 37.15	+ 5 30.6	2.271	3.208	7.2	20.9
4 1	13 30.13	+ 6 17.9	2.229	3.201	5.0	20.8
4 11	13 22.31	+ 6 57.7	2.216	3.194	4.7	20.8
4 21	13 14.42	+ 7 25.5	2.231	3.186	6.7	20.9
5 1	13 7.22	+ 7 38.0	2.273	3.178	9.5	21.0
5 11	13 1.35	+ 7 34.0	2.338	3.170	12.1	21.2
5 21	12 57.21	+ 7 13.8	2.424	3.161	14.4	21.3

153808 2001 VS_{116} 4 11.8 111°.61 7°.1/ 6.2 18

3 12	13 47.70	+10 0.8	1.780	2.656	12.4	19.8
3 22	13 40.88	+10 46.0	1.730	2.660	9.5	19.6
4 1	13 32.15	+11 22.1	1.705	2.665	7.4	19.5
4 11	13 22.46	+11 42.4	1.706	2.670	7.4	19.5
4 21	13 12.84	+11 42.4	1.734	2.674	9.4	19.7
5 1	13 4.33	+11 20.2	1.786	2.679	12.3	19.8
5 11	12 57.71	+10 36.9	1.861	2.683	15.1	20.0
5 21	12 53.39	+ 9 35.5	1.954	2.687	17.5	20.2

374414 2005 WL_{50} 4 11.8 194°.42 0°.2/11.9 17

3 12	13 44.27	−11 13.3	2.110	2.967	11.5	22.1
3 22	13 38.41	−10 42.2	2.033	2.965	8.2	21.9
4 1	13 30.87	−10 0.4	1.982	2.963	4.4	21.6
4 11	13 22.37	− 9 11.8	1.959	2.961	0.4	21.3
4 21	13 13.78	− 8 21.2	1.964	2.957	3.7	21.6
5 1	13 5.97	− 7 34.0	1.999	2.954	7.6	21.8
5 11	12 59.68	− 6 55.2	2.058	2.950	11.1	22.0
5 21	12 55.37	− 6 27.9	2.140	2.945	14.0	22.2

290265 2005 SG_{133} 4 11.8 297°.70 0°.3/11.9 17

3 12	13 46.73	−10 24.6	1.213	2.094	16.6	20.7
3 22	13 41.49	−10 17.1	1.125	2.069	12.1	20.4
4 1	13 33.12	− 9 54.7	1.058	2.043	6.7	20.0
4 11	13 22.57	− 9 21.0	1.015	2.017	0.7	19.5
4 21	13 11.29	− 8 42.2	0.996	1.991	5.7	19.7
5 1	13 0.99	− 8 6.6	1.001	1.966	11.9	20.0
5 11	12 53.18	− 7 42.7	1.026	1.940	17.5	20.2
5 21	12 48.78	− 7 35.7	1.069	1.916	22.3	20.4

217948 2001 TT_{231} 4 11.8 185°.72 6°.8/ 3.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 43.62	+10 4.7	2.169	3.044	10.5	20.8
3 22	13 37.84	+11 35.8	2.117	3.044	8.2	20.6
4 1	13 30.51	+13 0.4	2.091	3.043	6.8	20.5
4 11	13 22.35	+14 11.3	2.092	3.042	7.2	20.5
4 21	13 14.17	+15 2.6	2.121	3.041	9.2	20.7
5 1	13 6.81	+15 31.0	2.175	3.038	11.6	20.8
5 11	13 0.91	+15 36.0	2.251	3.035	14.0	21.0
5 21	12 56.90	+15 19.4	2.344	3.032	16.0	21.1

452987 2007 GE_1 4 11.8 16°.93 2°.3/10.5 18

3 12	13 46.26	− 5 38.9	1.114	2.008	16.7	20.9
3 22	13 40.77	− 5 9.1	1.059	2.010	11.7	20.7
4 1	13 32.44	− 4 30.2	1.025	2.012	6.2	20.4
4 11	13 22.50	− 3 49.4	1.014	2.015	2.3	20.1
4 21	13 12.49	− 3 14.9	1.028	2.018	6.8	20.4
5 1	13 3.98	− 2 54.2	1.064	2.022	12.2	20.7
5 11	12 58.11	− 2 51.9	1.121	2.026	17.1	21.0
5 21	12 55.42	− 3 9.1	1.195	2.031	21.1	21.3

28601 Benton 4 11.8 294°.35 0°.6/12.2 17

3 12	13 43.81	−12 38.8	1.309	2.186	15.9	18.4
3 22	13 39.05	−12 3.1	1.228	2.169	11.5	18.1
4 1	13 31.61	−11 8.3	1.169	2.153	6.4	17.8
4 11	13 22.45	− 9 59.2	1.134	2.136	0.9	17.4
4 21	13 12.90	− 8 43.9	1.124	2.120	5.2	17.6
5 1	13 4.42	− 7 32.6	1.139	2.104	10.8	17.9
5 11	12 58.22	− 6 34.7	1.176	2.088	15.9	18.1
5 21	12 55.00	− 5 56.1	1.230	2.072	20.3	18.3

100139 1993 TS 4 11.8 213°.06 1°.0/12.8 18

3 12	13 46.72	−13 0.5	2.298	3.142	11.2	20.3
3 22	13 40.12	−12 50.8	2.210	3.134	8.1	20.1
4 1	13 31.80	−12 30.7	2.148	3.125	4.6	19.8
4 11	13 22.46	−12 2.4	2.115	3.115	1.2	19.6
4 21	13 12.94	−11 29.4	2.111	3.105	3.4	19.7
5 1	13 4.12	−10 56.0	2.137	3.094	7.1	19.9
5 11	12 56.75	−10 26.9	2.190	3.082	10.5	20.1
5 21	12 51.32	−10 5.6	2.265	3.069	13.4	20.3

167456 2003 YP 4 11.8 15°.47 8°.5/19.9 17

3 12	13 43.20	−32 17.4	1.794	2.570	16.6	18.7
3 22	13 38.20	−32 53.4	1.721	2.573	14.1	18.5
4 1	13 30.96	−33 2.5	1.667	2.577	11.4	18.4
4 11	13 22.40	−32 43.0	1.636	2.582	9.2	18.2
4 21	13 13.65	−31 56.7	1.629	2.587	8.5	18.2
5 1	13 5.94	−30 49.4	1.647	2.593	9.6	18.3
5 11	13 0.23	−29 30.1	1.689	2.599	12.0	18.4
5 21	12 57.09	−28 8.2	1.752	2.606	14.6	18.6

376787 2000 RQ_8 4 11.8 239°.70 6°.3/15.8 18

3 12	13 56.17	−25 16.5	2.235	3.014	13.6	20.3
3 22	13 47.30	−26 30.3	2.133	3.000	11.1	20.1
4 1	13 35.92	−27 28.8	2.056	2.985	8.5	19.9
4 11	13 22.80	−28 8.5	2.008	2.970	6.6	19.8
4 21	13 9.05	−28 27.9	1.990	2.955	6.6	19.7
5 1	12 55.92	−28 29.0	2.001	2.939	8.7	19.8
5 11	12 44.57	−28 17.1	2.039	2.922	11.5	20.0
5 21	12 35.76	−27 58.9	2.101	2.905	14.3	20.1

90469 2004 CY_{94} 4 11.8 56°.30 0°.6/11.3 18

3 12	13 43.36	−10 8.2	1.489	2.365	14.3	19.8
3 22	13 38.17	− 9 19.7	1.430	2.373	10.1	19.6
4 1	13 30.85	− 8 18.2	1.395	2.381	5.3	19.3
4 11	13 22.39	− 7 9.9	1.386	2.388	0.6	19.0
4 21	13 13.95	− 6 2.7	1.404	2.396	4.9	19.4
5 1	13 6.65	− 5 4.5	1.447	2.405	9.6	19.6
5 11	13 1.37	− 4 21.4	1.513	2.413	13.8	19.9
5 21	12 58.57	− 3 56.3	1.599	2.421	17.2	20.1

270487 2002 EH_{83} 4 11.8 20°.09 1°.2/10.7 18

3 12	13 39.99	− 9 30.9	1.464	2.348	14.1	20.1
3 22	13 35.81	− 8 23.3	1.407	2.353	9.8	19.8
4 1	13 29.60	− 7 2.3	1.372	2.359	5.1	19.6
4 11	13 22.30	− 5 35.6	1.364	2.365	1.2	19.3
4 21	13 15.00	− 4 12.2	1.381	2.372	5.3	19.6
5 1	13 8.79	− 3 0.9	1.424	2.380	10.0	19.9
5 11	13 4.49	− 2 8.0	1.489	2.388	14.1	20.2
5 21	13 2.56	− 1 36.1	1.574	2.397	17.5	20.4

378799 2008 SS_{121} 4 11.8 202°.17 0°.4/12.2 17

3 12	13 42.02	−12 28.0	2.030	2.889	11.8	21.4
3 22	13 36.88	−11 45.4	1.955	2.887	8.5	21.1
4 1	13 30.08	−10 50.3	1.905	2.886	4.6	20.9
4 11	13 22.34	− 9 47.1	1.883	2.884	0.6	20.6
4 21	13 14.54	− 8 41.3	1.889	2.883	3.7	20.8
5 1	13 7.52	− 7 39.2	1.923	2.881	7.6	21.1
5 11	13 2.03	− 6 46.5	1.983	2.879	11.2	21.3
5 21	12 58.50	− 6 6.8	2.064	2.877	14.2	21.5

242743 2005 UU_{493} 4 11.8 231°.49 2°.1/13.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 44.67	−15 48.4	2.566	3.400	10.5	20.3
3 22	13 38.55	−16 2.4	2.481	3.395	7.8	20.1
4 1	13 30.93	−16 6.3	2.421	3.391	4.8	19.9
4 11	13 22.41	−16 1.2	2.390	3.386	2.3	19.7
4 21	13 13.75	−15 49.2	2.389	3.381	3.2	19.8
5 1	13 5.69	−15 33.4	2.417	3.376	6.2	19.9
5 11	12 58.92	−15 17.7	2.472	3.371	9.1	20.1
5 21	12 53.88	−15 5.5	2.550	3.366	11.7	20.3

426756 2013 TC_{94} 4 11.8 143°.40 1°.3/10.5 17

3 12	13 43.50	− 6 47.1	1.977	2.848	11.6	21.0
3 22	13 37.89	− 6 8.0	1.911	2.852	8.1	20.7
4 1	13 30.59	− 5 21.7	1.871	2.855	4.2	20.5
4 11	13 22.39	− 4 33.2	1.858	2.859	1.4	20.3
4 21	13 14.15	− 3 47.8	1.874	2.862	4.6	20.5
5 1	13 6.77	− 3 10.5	1.917	2.865	8.4	20.8
5 11	13 0.97	− 2 45.3	1.985	2.868	11.8	21.0
5 21	12 57.18	− 2 34.2	2.074	2.871	14.7	21.2

83972 2002 AZ_{34} 4 11.8 103°.81 3°.9/ 7.6 18

3 12	13 42.59	+ 2 47.0	2.317	3.195	9.8	19.3
3 22	13 36.96	+ 3 35.8	2.267	3.207	7.0	19.1
4 1	13 29.98	+ 4 23.0	2.244	3.220	4.6	19.0
4 11	13 22.34	+ 5 3.5	2.249	3.232	4.1	19.0
4 21	13 14.76	+ 5 33.1	2.283	3.245	6.1	19.1
5 1	13 7.95	+ 5 48.9	2.343	3.257	8.8	19.3
5 11	13 2.51	+ 5 49.5	2.428	3.268	11.4	19.5
5 21	12 58.76	+ 5 35.2	2.533	3.280	13.6	19.7

3328 Interposita 4 11.8 231°.35 3°.4/ 8.3 18

3 12	13 43.38	+ 1 32.4	2.391	3.266	9.7	16.5
3 22	13 37.61	+ 2 7.9	2.319	3.259	6.9	16.3
4 1	13 30.40	+ 2 43.1	2.274	3.252	4.3	16.1
4 11	13 22.38	+ 3 13.7	2.257	3.245	3.6	16.1
4 21	13 14.29	+ 3 35.4	2.268	3.237	5.7	16.2
5 1	13 6.86	+ 3 45.3	2.308	3.229	8.6	16.3
5 11	13 0.74	+ 3 41.4	2.372	3.221	11.4	16.5
5 21	12 56.34	+ 3 23.8	2.458	3.213	13.8	16.7

171872 2001 QJ_{171} 4 11.8 162°.50 4°.7/17.9 18

3 12	13 43.09	−27 54.1	2.717	3.492	11.6	20.8
3 22	13 37.40	−27 50.9	2.634	3.497	9.4	20.6
4 1	13 30.29	−27 30.0	2.574	3.502	7.1	20.5
4 11	13 22.38	−26 51.9	2.541	3.506	5.2	20.4
4 21	13 14.41	−25 59.2	2.537	3.509	4.9	20.4
5 1	13 7.11	−24 56.3	2.561	3.513	6.3	20.5
5 11	13 1.13	−23 48.8	2.612	3.516	8.5	20.6
5 21	12 56.87	−22 42.3	2.688	3.518	10.8	20.8

112666 2002 PK_{91} 4 11.8 277°.96 7°.3/17.6 18

3 12	13 46.67	−28 30.3	1.792	2.584	16.0	19.8
3 22	13 40.95	−28 53.6	1.684	2.557	13.3	19.5
4 1	13 32.66	−28 52.1	1.598	2.528	10.4	19.3
4 11	13 22.59	−28 23.2	1.535	2.500	7.9	19.1
4 21	13 11.89	−27 27.6	1.498	2.471	7.5	19.0
5 1	13 1.93	−26 10.8	1.486	2.441	9.7	19.0
5 11	12 53.94	−24 42.2	1.499	2.411	13.1	19.2
5 21	12 48.71	−23 12.2	1.534	2.380	16.7	19.3

362107 2009 CQ_{25} 4 11.8 193°.68 1°.8/13.3 17

3 12	13 48.13	−15 8.1	1.915	2.758	13.1	21.6
3 22	13 41.36	−14 56.1	1.835	2.756	9.6	21.4
4 1	13 32.56	−14 29.7	1.779	2.754	5.7	21.1
4 11	13 22.57	−13 51.4	1.751	2.750	2.1	20.9
4 21	13 12.41	−13 5.7	1.752	2.746	3.9	21.0
5 1	13 3.16	−12 18.4	1.781	2.741	8.0	21.2
5 11	12 55.69	−11 35.7	1.836	2.735	11.8	21.4
5 21	12 50.56	−11 2.4	1.913	2.729	15.1	21.6

368769 2005 WZ_{9} 4 11.8 109°.69 4°.7/16.8 17

3 12	13 44.16	−25 13.6	1.970	2.777	14.2	20.7
3 22	13 38.47	−24 55.4	1.901	2.790	11.2	20.5
4 1	13 30.94	−24 14.9	1.855	2.802	8.0	20.3
4 11	13 22.44	−23 14.1	1.834	2.814	5.3	20.2
4 21	13 13.95	−21 57.6	1.841	2.826	5.0	20.2
5 1	13 6.45	−20 32.6	1.876	2.838	7.5	20.4
5 11	13 0.71	−19 7.5	1.937	2.849	10.6	20.6
5 21	12 57.16	−17 49.3	2.020	2.860	13.5	20.8

303695 2005 OL_{8} 4 11.8 315°.28 4°.9/16.9 17

3 12	13 42.00	−25 12.9	2.173	2.977	13.2	20.3
3 22	13 36.96	−25 14.6	2.088	2.974	10.5	20.1
4 1	13 30.18	−24 56.9	2.027	2.970	7.7	19.9
4 11	13 22.39	−24 20.3	1.991	2.967	5.4	19.8
4 21	13 14.44	−23 27.8	1.982	2.963	5.1	19.8
5 1	13 7.26	−22 24.6	2.000	2.960	7.2	19.9
5 11	13 1.60	−21 17.8	2.044	2.957	10.1	20.1
5 21	12 57.96	−20 13.7	2.112	2.954	12.9	20.2

127362 2002 JF_{134} 4 11.8 78°.13 2°.0/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 42.42	−18 21.1	1.824	2.668	13.7	19.5
3 22	13 37.18	−17 26.3	1.766	2.687	10.1	19.3
4 1	13 30.21	−16 12.8	1.732	2.705	6.1	19.1
4 11	13 22.38	−14 45.7	1.725	2.723	2.4	18.9
4 21	13 14.65	−13 12.1	1.746	2.741	3.7	19.0
5 1	13 7.94	−11 40.2	1.794	2.758	7.6	19.3
5 11	13 2.97	−10 17.8	1.869	2.776	11.2	19.6
5 21	13 0.10	− 9 9.9	1.965	2.794	14.3	19.8

287595 2003 FG_{123} 4 11.8 110°.85 2°.8/14.6 17

3 12	13 44.19	−18 27.0	2.390	3.218	11.4	20.5
3 22	13 38.24	−18 33.9	2.318	3.226	8.6	20.4
4 1	13 30.77	−18 27.8	2.270	3.234	5.6	20.2
4 11	13 22.45	−18 10.2	2.251	3.242	3.0	20.0
4 21	13 14.07	−17 43.6	2.260	3.250	3.6	20.1
5 1	13 6.43	−17 12.2	2.298	3.258	6.4	20.3
5 11	13 0.19	−16 40.6	2.362	3.266	9.3	20.5
5 21	12 55.78	−16 13.0	2.449	3.273	11.9	20.6

371107 2005 VY_{60} 4 11.8 273°.02 0°.7/12.4 17

3 12	13 43.49	−12 43.2	1.747	2.610	13.3	21.7
3 22	13 38.22	−12 14.7	1.669	2.603	9.6	21.4
4 1	13 30.94	−11 32.2	1.614	2.595	5.3	21.1
4 11	13 22.47	−10 39.7	1.587	2.588	1.0	20.8
4 21	13 13.82	− 9 42.8	1.586	2.581	4.1	21.0
5 1	13 6.07	− 8 48.4	1.613	2.573	8.5	21.3
5 11	13 0.08	− 8 3.0	1.663	2.566	12.6	21.5
5 21	12 56.40	− 7 30.7	1.734	2.559	16.0	21.7

165493 2001 BP_{32} 4 11.8 83°.33 1°.8/10.4 18

3 12	13 45.50	− 7 8.6	1.487	2.367	14.1	19.2
3 22	13 39.56	− 6 12.9	1.439	2.383	9.8	19.0
4 1	13 31.55	− 5 8.0	1.415	2.400	5.1	18.8
4 11	13 22.50	− 4 1.2	1.417	2.417	1.8	18.6
4 21	13 13.59	− 3 0.3	1.445	2.434	5.6	18.9
5 1	13 5.94	− 2 12.1	1.500	2.450	10.1	19.2
5 11	13 0.35	− 1 41.2	1.578	2.466	14.0	19.4
5 21	12 57.25	− 1 29.1	1.675	2.482	17.2	19.7

11043 Pepping 4 11.8 99°.02 3°.3/ 9.1 18

3 12	13 47.13	− 2 35.3	1.607	2.488	13.2	17.9
3 22	13 40.52	− 1 34.9	1.564	2.509	9.2	17.7
4 1	13 31.99	− 0 31.1	1.546	2.530	5.1	17.5
4 11	13 22.54	+ 0 28.8	1.555	2.550	3.5	17.4
4 21	13 13.29	+ 1 17.9	1.592	2.570	6.5	17.7
5 1	13 5.27	+ 1 51.0	1.655	2.590	10.4	17.9
5 11	12 59.25	+ 2 5.5	1.740	2.609	13.9	18.2
5 21	12 55.60	+ 2 1.4	1.845	2.627	16.8	18.4

473189 2015 KO_{71} 4 11.8 194°.45 2°.5/ 8.6 17

3 12	13 39.87	− 2 55.8	2.465	3.341	9.4	21.0
3 22	13 35.12	− 1 47.6	2.397	3.340	6.5	20.8
4 1	13 29.07	− 0 35.3	2.355	3.338	3.7	20.6
4 11	13 22.33	+ 0 35.8	2.343	3.337	2.7	20.6
4 21	13 15.55	+ 1 40.2	2.360	3.335	5.0	20.7
5 1	13 9.40	+ 2 33.4	2.405	3.333	8.0	20.9
5 11	13 4.44	+ 3 12.3	2.476	3.331	10.7	21.1
5 21	13 1.05	+ 3 35.4	2.567	3.329	13.1	21.2

9623 Karlsson 4 11.8 259°.55 2°.1/13.5 18

3 12	13 45.44	−15 49.9	1.779	2.629	13.7	18.3
3 22	13 39.72	−15 37.3	1.690	2.614	10.2	18.1
4 1	13 31.82	−15 8.5	1.624	2.598	6.2	17.8
4 11	13 22.56	−14 25.8	1.584	2.582	2.4	17.5
4 21	13 12.98	−13 33.7	1.572	2.566	4.1	17.6
5 1	13 4.22	−12 39.0	1.587	2.550	8.4	17.8
5 11	12 57.27	−11 48.6	1.626	2.533	12.6	18.0
5 21	12 52.74	−11 8.3	1.687	2.516	16.2	18.2

11304 Cowra 4 11.8 341°.33 18°.3/22.3 18 A

3 12	13 41.75	+23 21.0	0.964	1.852	19.2	16.3
3 22	13 37.97	+27 21.6	0.946	1.849	18.3	16.3
4 1	13 31.08	+30 45.9	0.949	1.847	19.1	16.3
4 11	13 22.49	+33 13.3	0.970	1.844	21.1	16.4
4 21	13 13.92	+34 34.3	1.008	1.843	23.7	16.6
5 1	13 7.05	+34 49.8	1.058	1.841	26.3	16.7
5 11	13 3.05	+34 8.6	1.118	1.840	28.5	16.9
5 21	13 2.37	+32 42.4	1.186	1.839	30.3	17.1

361415 2006 WN_{152} 4 11.8 247°.81 3°.0/ 8.9 17

3 12	13 43.80	− 3 28.8	1.816	2.695	12.0	21.5
3 22	13 38.37	− 2 22.3	1.738	2.682	8.4	21.2
4 1	13 31.00	− 1 8.8	1.685	2.669	4.7	21.0
4 11	13 22.49	+ 0 4.6	1.660	2.655	3.2	20.8
4 21	13 13.79	+ 1 10.7	1.663	2.641	6.3	21.0
5 1	13 5.92	+ 2 2.8	1.692	2.627	10.2	21.2
5 11	12 59.72	+ 2 36.5	1.745	2.612	13.9	21.4
5 21	12 55.72	+ 2 50.3	1.817	2.596	17.1	21.6

463135 2011 WM_{65} 4 11.8 115°.88 1°.7/13.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 47.14	−15 51.3	1.738	2.586	14.0	22.0
3 22	13 40.59	−15 20.4	1.680	2.604	10.2	21.8
4 1	13 32.07	−14 33.0	1.646	2.622	6.0	21.5
4 11	13 22.56	−13 33.4	1.639	2.639	2.0	21.3
4 21	13 13.14	−12 27.7	1.660	2.655	3.9	21.5
5 1	13 4.87	−11 23.2	1.709	2.671	8.1	21.8
5 11	12 58.53	−10 26.7	1.783	2.686	11.9	22.0
5 21	12 54.57	− 9 42.8	1.879	2.700	15.1	22.3

329785 2004 NV_{33} 4 11.8 287°.44 6°.3/ 6.4 17

3 12	13 45.20	+ 6 5.7	1.710	2.594	12.4	20.3
3 22	13 39.50	+ 7 5.1	1.634	2.573	9.3	20.0
4 1	13 31.67	+ 8 1.4	1.582	2.553	6.8	19.8
4 11	13 22.55	+ 8 46.6	1.557	2.532	6.7	19.8
4 21	13 13.18	+ 9 13.9	1.558	2.511	9.2	19.9
5 1	13 4.67	+ 9 18.6	1.583	2.490	12.7	20.0
5 11	12 57.96	+ 8 59.6	1.630	2.470	16.1	20.2
5 21	12 53.64	+ 8 18.2	1.695	2.449	19.1	20.4

162053 1996 TL_{27} 4 11.8 352°.01 3°.1/ 9.6 17

3 12	13 45.25	− 0 37.0	1.779	2.660	12.1	19.2
3 22	13 39.32	− 0 25.4	1.713	2.657	8.6	19.0
4 1	13 31.47	− 0 13.1	1.671	2.654	4.9	18.7
4 11	13 22.53	− 0 4.8	1.656	2.651	3.1	18.6
4 21	13 13.50	− 0 4.6	1.668	2.650	5.9	18.8
5 1	13 5.41	− 0 15.8	1.707	2.648	9.7	19.0
5 11	12 59.09	− 0 40.0	1.770	2.647	13.3	19.2
5 21	12 55.01	− 1 17.3	1.852	2.647	16.3	19.4

138804 2000 TG_{36} 4 11.8 111°.16 1°.1/13.2 18

3 12	13 40.72	−14 56.5	2.490	3.335	10.4	19.8
3 22	13 35.70	−14 20.6	2.421	3.345	7.5	19.6
4 1	13 29.37	−13 33.3	2.379	3.355	4.3	19.4
4 11	13 22.36	−12 37.8	2.365	3.365	1.3	19.2
4 21	13 15.36	−11 38.6	2.380	3.374	2.9	19.3
5 1	13 9.04	−10 40.5	2.424	3.384	6.1	19.5
5 11	13 3.98	− 9 48.3	2.495	3.393	9.1	19.7
5 21	13 0.53	− 9 5.2	2.589	3.402	11.7	19.9

428734 2008 RW_{105} 4 11.8 131°.70 0°.8/11.2 18

3 12	13 45.61	− 7 8.6	2.108	2.972	11.2	21.1
3 22	13 39.31	− 6 54.8	2.042	2.979	7.9	20.9
4 1	13 31.36	− 6 34.8	2.002	2.985	4.1	20.7
4 11	13 22.52	− 6 12.3	1.990	2.991	0.8	20.4
4 21	13 13.66	− 5 51.0	2.007	2.997	4.0	20.7
5 1	13 5.64	− 5 34.9	2.052	3.003	7.7	20.9
5 11	12 59.16	− 5 27.1	2.123	3.008	11.0	21.1
5 21	12 54.67	− 5 29.6	2.215	3.013	13.8	21.3

414111 2007 UR_{21} 4 11.8 266°.57 0°.2/12.0 17

3 12	13 44.32	−12 21.8	1.570	2.438	14.2	21.6
3 22	13 39.08	−11 36.9	1.485	2.422	10.3	21.3
4 1	13 31.53	−10 35.1	1.423	2.406	5.6	21.0
4 11	13 22.55	− 9 21.3	1.388	2.390	0.6	20.6
4 21	13 13.25	− 8 3.0	1.379	2.373	4.7	20.9
5 1	13 4.88	− 6 49.0	1.396	2.356	9.7	21.1
5 11	12 58.46	− 5 47.4	1.437	2.339	14.3	21.3
5 21	12 54.62	− 5 3.4	1.498	2.322	18.2	21.5

66280 1999 JF_{12} 4 11.8 289°.59 7°.0/ 3.9 18

3 12	13 41.77	+ 1 22.7	1.484	2.379	13.2	18.7
3 22	13 37.43	+ 4 11.5	1.399	2.347	9.7	18.4
4 1	13 30.73	+ 7 12.7	1.341	2.316	7.2	18.2
4 11	13 22.49	+10 11.2	1.311	2.284	8.0	18.1
4 21	13 13.80	+12 51.1	1.308	2.251	11.6	18.3
5 1	13 5.91	+14 59.3	1.329	2.218	15.9	18.4
5 11	12 59.93	+16 28.8	1.371	2.185	19.9	18.6
5 21	12 56.55	+17 19.2	1.427	2.152	23.2	18.7

417717 2007 CZ_{15} 4 11.8 81°.65 2°.2/13.5 18

3 12	13 47.63	−15 19.6	1.694	2.544	14.2	21.1
3 22	13 40.99	−15 20.4	1.639	2.563	10.4	20.9
4 1	13 32.32	−15 6.2	1.608	2.582	6.2	20.7
4 11	13 22.60	−14 39.9	1.602	2.601	2.5	20.5
4 21	13 12.95	−14 5.7	1.625	2.619	4.1	20.6
5 1	13 4.46	−13 29.8	1.675	2.637	8.1	20.9
5 11	12 57.98	−12 58.1	1.749	2.656	11.8	21.2
5 21	12 53.93	−12 35.0	1.844	2.673	15.0	21.4

1110 Jaroslawa 4 11.8 269°.47 2°.7/13.9 18 R

3 12	13 45.88	−17 53.2	1.573	2.421	15.2	15.1
3 22	13 40.39	−17 27.6	1.475	2.397	11.5	14.8
4 1	13 32.35	−16 39.9	1.400	2.372	7.2	14.5
4 11	13 22.62	−15 32.2	1.350	2.347	3.1	14.2
4 21	13 12.39	−14 10.1	1.326	2.321	4.7	14.2
5 1	13 3.00	−12 42.7	1.330	2.295	9.5	14.4
5 11	12 55.64	−11 20.2	1.357	2.268	14.3	14.6
5 21	12 51.06	−10 11.1	1.404	2.241	18.5	14.8

111646 2002 AH_{174} 4 11.8 139°.49 0°.1/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 44.90	−10 5.6	1.975	2.837	12.0	20.1
3 22	13 38.91	− 9 39.7	1.908	2.843	8.5	19.9
4 1	13 31.18	− 9 4.1	1.867	2.850	4.5	19.6
4 11	13 22.52	− 8 22.9	1.854	2.856	0.3	19.3
4 21	13 13.82	− 7 40.9	1.869	2.861	3.9	19.6
5 1	13 6.02	− 7 3.3	1.912	2.867	7.9	19.9
5 11	12 59.85	− 6 34.6	1.980	2.872	11.4	20.1
5 21	12 55.75	− 6 17.7	2.069	2.876	14.4	20.3

147273 2002 YB_{26} 4 11.8 146°.60 7°.2/ 4.5 18

3 12	13 45.47	+10 55.1	2.021	2.894	11.2	20.1
3 22	13 39.17	+12 13.7	1.978	2.904	8.8	20.0
4 1	13 31.25	+13 23.8	1.960	2.912	7.3	19.9
4 11	13 22.52	+14 18.2	1.970	2.920	7.6	19.9
4 21	13 13.86	+14 51.7	2.006	2.928	9.5	20.1
5 1	13 6.16	+15 1.7	2.067	2.935	11.9	20.2
5 11	13 0.09	+14 48.7	2.150	2.941	14.3	20.4
5 21	12 56.04	+14 15.1	2.250	2.947	16.4	20.6

282827 2006 SD_{349} 4 11.8 197°.10 5°.7/ 2.5 18

3 12	13 41.06	+14 44.2	3.313	4.171	7.7	21.9
3 22	13 35.70	+15 52.7	3.258	4.166	6.4	21.8
4 1	13 29.31	+16 54.1	3.231	4.162	5.7	21.7
4 11	13 22.37	+17 44.0	3.232	4.156	6.1	21.7
4 21	13 15.40	+18 19.2	3.262	4.150	7.3	21.8
5 1	13 8.93	+18 37.7	3.317	4.143	8.9	21.9
5 11	13 3.42	+18 39.3	3.395	4.136	10.5	22.0
5 21	12 59.19	+18 24.9	3.492	4.128	11.9	22.1

345636 2006 SJ_{349} 4 11.8 131°.63 1°.2/10.5 17

3 12	13 43.21	− 5 20.2	2.778	3.640	8.9	21.5
3 22	13 37.27	− 4 57.1	2.716	3.653	6.2	21.4
4 1	13 30.15	− 4 30.3	2.682	3.666	3.2	21.2
4 11	13 22.44	− 4 2.9	2.678	3.678	1.2	21.0
4 21	13 14.74	− 3 38.2	2.704	3.690	3.5	21.2
5 1	13 7.69	− 3 19.1	2.759	3.701	6.4	21.4
5 11	13 1.81	− 3 8.0	2.841	3.712	9.0	21.6
5 21	12 57.42	− 3 6.1	2.945	3.723	11.2	21.8

473215 2015 KX_{129} 4 11.8 355°.25 3°.2/ 9.4 17

3 12	13 41.74	− 2 4.2	1.508	2.400	13.2	20.1
3 22	13 37.11	− 1 34.8	1.445	2.395	9.3	19.8
4 1	13 30.38	− 1 2.2	1.405	2.390	5.2	19.6
4 11	13 22.46	− 0 32.5	1.391	2.387	3.3	19.4
4 21	13 14.44	− 0 11.6	1.402	2.385	6.5	19.6
5 1	13 7.43	− 0 4.4	1.437	2.384	10.7	19.8
5 11	13 2.34	− 0 13.7	1.495	2.384	14.6	20.1
5 21	12 59.66	− 0 39.9	1.572	2.385	17.9	20.3

509551 2008 BW_{11} 4 11.8 271°.47 5°.3/ 5.8 18

3 12	13 41.01	+ 6 19.7	2.256	3.136	9.9	20.8
3 22	13 36.03	+ 7 25.5	2.194	3.131	7.4	20.6
4 1	13 29.61	+ 8 27.9	2.158	3.126	5.5	20.5
4 11	13 22.40	+ 9 21.0	2.151	3.120	5.6	20.5
4 21	13 15.14	+ 9 59.7	2.170	3.115	7.6	20.6
5 1	13 8.59	+10 20.4	2.216	3.110	10.2	20.7
5 11	13 3.36	+10 22.1	2.284	3.104	12.7	20.9
5 21	12 59.86	+10 5.5	2.371	3.099	14.9	21.1

428305 2007 FY_{12} 4 11.8 7°.10 7°.1/17.1 17

3 12	13 42.94	−25 5.2	1.357	2.190	18.1	19.8
3 22	13 38.42	−25 39.6	1.290	2.191	14.6	19.6
4 1	13 31.26	−25 47.2	1.243	2.193	10.8	19.4
4 11	13 22.53	−25 27.1	1.218	2.195	7.7	19.2
4 21	13 13.59	−24 42.3	1.216	2.199	7.4	19.2
5 1	13 5.87	−23 40.6	1.238	2.204	10.0	19.3
5 11	13 0.51	−22 32.6	1.283	2.209	13.7	19.5
5 21	12 58.13	−21 28.1	1.347	2.216	17.2	19.8

277345 2005 TP_{78} 4 11.8 117°.55 6°.3/ 5.9 18

3 12	13 47.37	+ 9 34.1	2.091	2.961	11.1	20.8
3 22	13 40.37	+10 27.6	2.051	2.979	8.4	20.7
4 1	13 31.83	+11 13.3	2.038	2.997	6.6	20.6
4 11	13 22.56	+11 45.1	2.053	3.014	6.6	20.7
4 21	13 13.47	+11 59.1	2.095	3.030	8.4	20.8
5 1	13 5.38	+11 53.6	2.163	3.046	10.8	21.0
5 11	12 58.94	+11 28.9	2.255	3.062	13.3	21.2
5 21	12 54.50	+10 47.4	2.365	3.077	15.3	21.4

156125 2001 SH_{347} 4 11.8 203°.66 2°.2/15.9 18

3 12	13 37.23	−21 30.3	4.652	5.451	6.7	20.4
3 22	13 32.88	−21 35.3	4.563	5.450	5.2	20.3
4 1	13 27.78	−21 32.5	4.501	5.449	3.6	20.2
4 11	13 22.26	−21 22.5	4.467	5.448	2.4	20.1
4 21	13 16.68	−21 6.6	4.463	5.446	2.4	20.1
5 1	13 11.42	−20 46.7	4.489	5.445	3.7	20.2
5 11	13 6.80	−20 24.9	4.543	5.444	5.3	20.3
5 21	13 3.08	−20 3.5	4.623	5.443	6.8	20.4

300188 2006 WD_{70} 4 11.8 64°.10 0°.5/12.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 42.83	−11 22.0	2.135	2.994	11.3	20.7
3 22	13 37.32	−11 5.9	2.074	3.006	8.1	20.5
4 1	13 30.29	−10 40.4	2.038	3.019	4.4	20.3
4 11	13 22.45	−10 8.8	2.030	3.032	0.7	20.1
4 21	13 14.63	− 9 35.2	2.051	3.045	3.4	20.3
5 1	13 7.64	− 9 4.0	2.100	3.058	7.0	20.6
5 11	13 2.13	− 8 39.4	2.174	3.071	10.3	20.8
5 21	12 58.48	− 8 24.0	2.270	3.085	13.0	21.0

218998 Navi 4 11.8 353°.98 1°.9/10.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.65	− 8 35.6	1.361	2.250	14.5	19.7
3 22	13 35.80	− 7 16.0	1.297	2.247	10.2	19.5
4 1	13 29.73	− 5 41.6	1.257	2.244	5.3	19.2
4 11	13 22.42	− 4 1.3	1.241	2.242	2.0	19.0
4 21	13 15.02	− 2 25.8	1.252	2.240	6.1	19.2
5 1	13 8.70	− 1 5.2	1.287	2.240	11.0	19.5
5 11	13 4.42	− 0 6.6	1.343	2.240	15.4	19.7
5 21	13 2.65	+ 0 27.3	1.418	2.240	19.0	20.0

499336 2009 WN_{208} 4 11.8 219°.55 0°.0/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.81	−10 42.5	2.434	3.286	10.4	22.8
3 22	13 38.72	−10 12.2	2.345	3.275	7.4	22.6
4 1	13 31.08	− 9 32.6	2.282	3.263	4.0	22.3
4 11	13 22.53	− 8 47.0	2.248	3.250	0.3	22.0
4 21	13 13.82	− 7 59.5	2.245	3.237	3.4	22.2
5 1	13 5.74	− 7 14.8	2.271	3.223	7.0	22.4
5 11	12 58.97	− 6 37.2	2.323	3.208	10.2	22.6
5 21	12 53.97	− 6 9.9	2.398	3.192	13.0	22.8

240762 2005 LU_{36} 4 11.8 183°.43 6°.9/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.49	+15 41.5	2.700	3.560	9.2	21.0
3 22	13 36.86	+16 48.9	2.652	3.560	7.7	20.9
4 1	13 29.97	+17 46.9	2.630	3.560	6.9	20.9
4 11	13 22.44	+18 30.2	2.636	3.559	7.3	20.9
4 21	13 14.92	+18 55.1	2.669	3.558	8.7	21.0
5 1	13 8.06	+18 59.9	2.726	3.557	10.5	21.1
5 11	13 2.41	+18 44.9	2.805	3.555	12.3	21.2
5 21	12 58.32	+18 12.0	2.903	3.553	13.9	21.4

331606 2001 XB_{19} 4 11.8 110°.80 2°.1/10.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.72	− 3 45.1	1.896	2.769	11.9	20.4
3 22	13 40.14	− 3 18.3	1.841	2.782	8.3	20.2
4 1	13 31.81	− 2 47.7	1.810	2.794	4.4	20.0
4 11	13 22.58	− 2 18.0	1.808	2.807	2.2	19.9
4 21	13 13.41	− 1 54.0	1.834	2.819	5.1	20.1
5 1	13 5.24	− 1 39.6	1.888	2.830	8.8	20.3
5 11	12 58.80	− 1 37.5	1.966	2.842	12.2	20.6
5 21	12 54.51	− 1 48.5	2.065	2.853	15.0	20.8

252997 2002 QK_{114} 4 11.8 60°.19 3°.5/14.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.52	−19 22.0	1.492	2.340	15.9	20.1
3 22	13 39.15	−19 7.4	1.428	2.348	12.0	19.9
4 1	13 31.49	−18 30.8	1.386	2.356	7.7	19.6
4 11	13 22.57	−17 35.2	1.369	2.363	3.9	19.4
4 21	13 13.59	−16 26.9	1.378	2.371	4.7	19.5
5 1	13 5.81	−15 14.3	1.412	2.380	8.8	19.7
5 11	13 0.16	−14 6.7	1.470	2.388	12.9	20.0
5 21	12 57.16	−13 10.7	1.549	2.396	16.5	20.2

392681 2011 UX_{376} 4 11.8 260°.26 2°.4/ 9.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.50	− 2 33.1	2.393	3.267	9.7	21.3
3 22	13 36.37	− 1 52.7	2.315	3.257	6.8	21.1
4 1	13 29.81	− 1 8.9	2.263	3.246	3.8	20.9
4 11	13 22.44	− 0 26.3	2.240	3.236	2.4	20.8
4 21	13 14.96	+ 0 10.8	2.246	3.225	4.8	20.9
5 1	13 8.11	+ 0 38.3	2.280	3.215	8.0	21.1
5 11	13 2.50	+ 0 53.4	2.339	3.204	10.9	21.3
5 21	12 58.56	+ 0 55.0	2.419	3.193	13.5	21.4

209428 2004 FR_{50} 4 11.8 289°.46 3°.8/ 7.4 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.93	− 0 4.7	2.112	2.996	10.4	20.1
3 22	13 35.41	+ 1 11.4	2.039	2.984	7.3	19.9
4 1	13 29.35	+ 2 30.6	1.991	2.971	4.6	19.7
4 11	13 22.40	+ 3 46.3	1.972	2.959	4.1	19.6
4 21	13 15.34	+ 4 52.0	1.980	2.947	6.5	19.7
5 1	13 8.96	+ 5 42.2	2.016	2.935	9.7	19.9
5 11	13 3.94	+ 6 13.9	2.074	2.923	12.8	20.1
5 21	13 0.73	+ 6 26.1	2.152	2.911	15.4	20.2

281694 2008 WN_{52} 4 11.8 293°.35 0°.9/12.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.96	−13 46.0	1.852	2.712	12.8	21.2
3 22	13 37.08	−13 12.7	1.772	2.703	9.3	20.9
4 1	13 30.34	−12 24.8	1.715	2.695	5.3	20.7
4 11	13 22.49	−11 26.2	1.685	2.686	1.2	20.4
4 21	13 14.48	−10 22.6	1.683	2.678	3.8	20.5
5 1	13 7.28	− 9 20.7	1.708	2.669	8.1	20.8
5 11	13 1.73	− 8 27.0	1.757	2.661	12.0	21.0
5 21	12 58.33	− 7 46.1	1.828	2.653	15.3	21.2

94216 2001 BT_{42} 4 11.8 148°.62 1°.7/ 9.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 42.55	− 5 55.2	2.409	3.276	9.9	20.3
3 22	13 36.98	− 4 53.1	2.346	3.286	6.9	20.1
4 1	13 30.06	− 3 45.3	2.311	3.295	3.6	20.0
4 11	13 22.46	− 2 36.7	2.305	3.304	1.7	19.8
4 21	13 14.88	− 1 32.6	2.330	3.312	4.3	20.0
5 1	13 8.03	− 0 37.9	2.383	3.320	7.5	20.2
5 11	13 2.48	+ 0 4.0	2.461	3.327	10.4	20.4
5 21	12 58.59	+ 0 31.5	2.562	3.334	12.9	20.6

46620 1994 EL_1 4 11.8 116°.62 3°.6/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 47.99	− 2 43.7	1.431	2.315	14.3	17.6
3 22	13 41.42	− 1 40.6	1.383	2.329	10.0	17.4
4 1	13 32.61	− 0 32.7	1.358	2.342	5.6	17.2
4 11	13 22.67	+ 0 31.4	1.360	2.355	3.8	17.1
4 21	13 12.85	+ 1 23.9	1.388	2.367	7.1	17.3
5 1	13 4.36	+ 1 58.6	1.441	2.379	11.4	17.6
5 11	12 58.09	+ 2 12.4	1.517	2.390	15.3	17.8
5 21	12 54.47	+ 2 5.6	1.611	2.401	18.5	18.1

369554 2011 AK_{59} 4 11.8 333°.51 6°.2/17.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.24	−25 55.0	1.730	2.540	15.8	20.5
3 22	13 39.67	−26 12.9	1.653	2.539	12.7	20.3
4 1	13 31.82	−26 7.1	1.596	2.539	9.4	20.1
4 11	13 22.62	−25 37.4	1.564	2.538	6.8	19.9
4 21	13 13.21	−24 46.5	1.557	2.537	6.4	19.9
5 1	13 4.80	−23 41.0	1.577	2.537	8.8	20.0
5 11	12 58.39	−22 29.9	1.621	2.536	12.1	20.2
5 21	12 54.56	−21 21.6	1.686	2.536	15.3	20.4

41114 1999 VC_{84} 4 11.9 231°.25 7°.5/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 51.28	+16 33.7	2.425	3.271	10.6	19.6
3 22	13 43.20	+17 8.8	2.356	3.258	8.8	19.4
4 1	13 33.44	+17 32.1	2.314	3.245	7.6	19.3
4 11	13 22.76	+17 38.2	2.300	3.231	7.8	19.3
4 21	13 12.03	+17 23.6	2.314	3.216	9.3	19.4
5 1	13 2.12	+16 47.5	2.354	3.201	11.4	19.5
5 11	12 53.78	+15 51.1	2.419	3.185	13.6	19.6
5 21	12 47.43	+14 37.6	2.503	3.168	15.6	19.7

438849 2009 CA_{53} 4 11.9 354°.18 0°.5/12.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.26	−11 29.9	1.938	2.801	12.1	21.5
3 22	13 37.17	−11 11.8	1.865	2.800	8.7	21.3
4 1	13 30.34	−10 42.8	1.817	2.798	4.8	21.0
4 11	13 22.52	−10 6.6	1.795	2.797	0.7	20.7
4 21	13 14.59	− 9 27.6	1.802	2.796	3.7	21.0
5 1	13 7.48	− 8 51.1	1.836	2.796	7.7	21.2
5 11	13 1.95	− 8 22.1	1.894	2.796	11.4	21.4
5 21	12 58.47	− 8 3.9	1.974	2.796	14.5	21.6

4574 Yoshinaka 4 11.9 181°.66 3°.6/16.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.63	−22 49.8	2.490	3.298	11.6	17.6
3 22	13 37.21	−22 41.9	2.407	3.299	9.0	17.4
4 1	13 30.28	−22 17.9	2.348	3.299	6.3	17.2
4 11	13 22.51	−21 39.0	2.316	3.299	4.0	17.1
4 21	13 14.65	−20 48.3	2.312	3.299	4.0	17.1
5 1	13 7.46	−19 50.6	2.338	3.298	6.3	17.2
5 11	13 1.62	−18 51.5	2.390	3.297	9.1	17.4
5 21	12 57.54	−17 56.1	2.465	3.296	11.7	17.6

500732 2012 XT_{85} 4 11.9 172°.35 0°.7/12.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.56	−14 5.7	2.574	3.420	10.1	21.6
3 22	13 35.62	−13 19.7	2.497	3.422	7.2	21.4
4 1	13 29.38	−12 22.4	2.446	3.424	4.1	21.2
4 11	13 22.44	−11 17.5	2.424	3.425	0.9	20.9
4 21	13 15.47	−10 9.5	2.432	3.426	2.9	21.1
5 1	13 9.13	− 9 3.5	2.470	3.427	6.2	21.3
5 11	13 3.99	− 8 4.3	2.534	3.428	9.2	21.5
5 21	13 0.41	− 7 15.3	2.622	3.428	11.7	21.7

357328 2003 KA_{17} 4 11.9 261°.47 11°.0/ 3.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 54.55	+19 24.5	1.698	2.548	14.2	20.5
3 22	13 46.22	+20 22.0	1.628	2.527	12.2	20.3
4 1	13 35.34	+21 2.1	1.582	2.505	11.0	20.2
4 11	13 22.93	+21 15.0	1.561	2.482	11.5	20.1
4 21	13 10.31	+20 54.9	1.565	2.459	13.4	20.2
5 1	12 58.84	+20 0.6	1.592	2.435	16.1	20.3
5 11	12 49.60	+18 35.6	1.640	2.411	18.9	20.4
5 21	12 43.22	+16 46.0	1.704	2.386	21.4	20.6

342515 2008 UL_{198} 4 11.9 218°.94 0°.9/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.85	− 8 11.4	2.380	3.242	10.2	22.0
3 22	13 37.35	− 7 26.7	2.297	3.234	7.2	21.8
4 1	13 30.37	− 6 34.0	2.241	3.225	3.7	21.5
4 11	13 22.53	− 5 37.5	2.214	3.215	0.9	21.3
4 21	13 14.58	− 4 41.9	2.216	3.205	3.9	21.5
5 1	13 7.27	− 3 52.4	2.247	3.194	7.4	21.7
5 11	13 1.25	− 3 12.9	2.304	3.183	10.6	21.9
5 21	12 56.97	− 2 46.1	2.384	3.171	13.3	22.1

245945 2006 SX_{12} 4 11.9 130°.74 0°.3/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 40.53	−12 56.1	2.181	3.039	11.2	20.4
3 22	13 35.77	−12 2.6	2.109	3.041	8.0	20.2
4 1	13 29.52	−10 56.8	2.062	3.043	4.4	20.0
4 11	13 22.46	− 9 43.2	2.043	3.045	0.6	19.7
4 21	13 15.36	− 8 27.6	2.053	3.047	3.4	19.9
5 1	13 9.01	− 7 16.0	2.092	3.049	7.2	20.1
5 11	13 4.04	− 6 14.2	2.156	3.050	10.5	20.4
5 21	13 0.85	− 5 25.6	2.242	3.052	13.3	20.6

80021 1999 HR_5 4 11.9 187°.58 0°.8/11.1 18

3 12	13 43.73	− 7 13.1	2.257	3.122	10.6	19.0
3 22	13 37.98	− 6 56.3	2.184	3.122	7.4	18.8
4 1	13 30.69	− 6 33.5	2.138	3.121	3.9	18.6
4 11	13 22.56	− 6 8.0	2.120	3.121	0.8	18.3
4 21	13 14.34	− 5 43.8	2.130	3.121	3.8	18.6
5 1	13 6.86	− 5 24.5	2.170	3.120	7.4	18.8
5 11	13 0.77	− 5 13.4	2.234	3.120	10.6	19.0
5 21	12 56.50	− 5 12.4	2.321	3.119	13.3	19.2

506355 2017 PB_{25} 4 11.9 235°.27 4°.8/16.9 18

3 12	13 46.24	−26 13.0	2.508	3.292	12.2	22.6
3 22	13 39.93	−26 14.0	2.402	3.274	9.9	22.4
4 1	13 31.85	−25 56.7	2.320	3.255	7.3	22.2
4 11	13 22.66	−25 20.9	2.265	3.236	5.2	22.1
4 21	13 13.18	−24 28.7	2.238	3.216	5.0	22.0
5 1	13 4.32	−23 24.7	2.241	3.194	7.0	22.1
5 11	12 56.87	−22 15.0	2.270	3.172	9.7	22.2
5 21	12 51.36	−21 6.2	2.324	3.149	12.4	22.4

383864 2008 QU_{44} 4 11.9 236°.58 0°.3/12.2 17

3 12	13 45.73	−10 58.8	2.519	3.367	10.2	21.7
3 22	13 39.41	−10 41.5	2.422	3.349	7.3	21.5
4 1	13 31.50	−10 15.5	2.351	3.331	4.0	21.2
4 11	13 22.63	− 9 43.4	2.310	3.312	0.5	20.9
4 21	13 13.53	− 9 8.6	2.299	3.292	3.3	21.1
5 1	13 5.00	− 8 35.2	2.318	3.271	6.8	21.3
5 11	12 57.74	− 8 7.2	2.363	3.249	10.0	21.5
5 21	12 52.23	− 7 47.8	2.432	3.227	12.8	21.6

501341 2013 YG_7 4 11.9 168°.17 5°.1/17.6 17

3 12	13 43.60	−27 12.2	2.249	3.038	13.3	21.5
3 22	13 38.05	−27 3.0	2.166	3.040	10.7	21.4
4 1	13 30.79	−26 32.8	2.107	3.043	7.9	21.2
4 11	13 22.56	−25 42.4	2.074	3.045	5.7	21.1
4 21	13 14.25	−24 35.2	2.068	3.046	5.2	21.0
5 1	13 6.76	−23 17.0	2.090	3.047	7.1	21.1
5 11	13 0.82	−21 55.2	2.139	3.048	9.9	21.3
5 21	12 56.89	−20 36.7	2.211	3.049	12.5	21.5

178349 1995 WT_{30} 4 11.9 218°.79 1°.1/10.8 17

3 12	13 46.09	− 7 23.8	1.990	2.856	11.7	22.1
3 22	13 39.88	− 6 46.7	1.909	2.847	8.3	21.9
4 1	13 31.82	− 6 1.3	1.854	2.838	4.4	21.6
4 11	13 22.66	− 5 12.2	1.827	2.828	1.2	21.3
4 21	13 13.33	− 4 24.6	1.829	2.818	4.6	21.6
5 1	13 4.79	− 3 44.2	1.859	2.806	8.6	21.8
5 11	12 57.87	− 3 15.4	1.913	2.794	12.3	22.0
5 21	12 53.07	− 3 0.7	1.989	2.782	15.4	22.2

504554 2008 SK_{265} 4 11.9 220°.63 1°.0/13.0 17

3 12	13 42.67	−15 4.8	2.475	3.316	10.6	22.3
3 22	13 37.22	−14 18.2	2.384	3.306	7.7	22.1
4 1	13 30.30	−13 18.4	2.319	3.295	4.4	21.9
4 11	13 22.53	−12 8.9	2.282	3.283	1.2	21.6
4 21	13 14.64	−10 54.3	2.276	3.271	3.1	21.8
5 1	13 7.36	− 9 40.4	2.300	3.257	6.6	22.0
5 11	13 1.36	− 8 32.7	2.351	3.244	9.8	22.1
5 21	12 57.07	− 7 35.6	2.425	3.229	12.6	22.3

245387 2005 GG_{127} 4 11.9 68°.33 4°.4/ 7.0 18

3 12	13 40.73	+ 1 3.3	1.955	2.841	11.0	19.8
3 22	13 35.94	+ 2 27.6	1.905	2.850	7.8	19.6
4 1	13 29.60	+ 3 52.5	1.881	2.859	5.0	19.5
4 11	13 22.47	+ 5 10.7	1.884	2.868	4.7	19.5
4 21	13 15.38	+ 6 15.4	1.915	2.877	7.1	19.6
5 1	13 9.15	+ 7 1.8	1.972	2.886	10.2	19.8
5 11	13 4.41	+ 7 27.7	2.052	2.896	13.1	20.0
5 21	13 1.55	+ 7 33.3	2.151	2.905	15.5	20.2

172755 2004 DV_6 4 11.9 5°.54 0°.2/11.7 17

3 12	13 41.14	− 9 49.6	1.613	2.491	13.4	19.2
3 22	13 36.61	− 9 25.7	1.549	2.491	9.5	19.0
4 1	13 30.12	− 8 50.7	1.508	2.492	5.0	18.7
4 11	13 22.52	− 8 9.5	1.492	2.494	0.4	18.3
4 21	13 14.85	− 7 27.7	1.503	2.497	4.4	18.7
5 1	13 8.14	− 6 51.5	1.540	2.501	8.9	18.9
5 11	13 3.25	− 6 26.1	1.600	2.505	12.8	19.2
5 21	13 0.63	− 6 14.5	1.680	2.510	16.2	19.4

507126 2009 UM_{15} 4 11.9 254°.38 3°.0/14.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 44.36	−20 44.3	2.183	3.005	12.5	23.0
3 22	13 38.74	−20 12.9	2.077	2.982	9.6	22.8
4 1	13 31.26	−19 22.3	1.996	2.958	6.3	22.5
4 11	13 22.62	−18 14.4	1.942	2.934	3.4	22.3
4 21	13 13.69	−16 53.4	1.917	2.909	3.9	22.3
5 1	13 5.40	−15 25.9	1.921	2.883	7.3	22.4
5 11	12 58.61	−13 59.8	1.952	2.857	10.9	22.6
5 21	12 53.87	−12 41.7	2.006	2.830	14.2	22.8

346066 2007 UO_{85} 4 11.9 65°.11 1°.5/10.4 17

3 12	13 42.48	− 5 57.0	2.064	2.937	11.1	20.9
3 22	13 37.17	− 5 22.7	1.999	2.941	7.7	20.7
4 1	13 30.28	− 4 42.5	1.960	2.945	4.0	20.5
4 11	13 22.54	− 4 1.0	1.949	2.949	1.5	20.3
4 21	13 14.77	− 3 23.0	1.966	2.953	4.5	20.5
5 1	13 7.80	− 2 53.0	2.010	2.957	8.1	20.7
5 11	13 2.31	− 2 34.5	2.079	2.961	11.4	20.9
5 21	12 58.72	− 2 29.1	2.169	2.966	14.2	21.1

215489 2002 TG_{57} 4 11.9 315°.21 0°.2/11.9 17

3 12	13 44.76	− 9 55.1	1.254	2.137	16.0	20.0
3 22	13 40.21	− 9 50.8	1.155	2.100	11.7	19.6
4 1	13 32.61	− 9 32.8	1.077	2.062	6.5	19.2
4 11	13 22.77	− 9 4.4	1.023	2.025	0.6	18.7
4 21	13 12.00	− 8 31.1	0.993	1.989	5.7	18.9
5 1	13 1.97	− 8 0.9	0.987	1.953	11.9	19.1
5 11	12 54.23	− 7 41.9	1.001	1.917	17.6	19.3
5 21	12 49.80	− 7 39.5	1.032	1.883	22.6	19.5

308737 2006 HP_{97} 4 11.9 354°.08 1°.7/12.9 17

3 12	13 40.37	−14 5.6	1.038	1.927	18.0	20.2
3 22	13 36.95	−13 49.2	0.976	1.921	13.2	19.9
4 1	13 30.64	−13 10.7	0.933	1.916	7.6	19.6
4 11	13 22.59	−12 14.9	0.911	1.912	2.1	19.3
4 21	13 14.29	−11 10.3	0.912	1.910	5.3	19.4
5 1	13 7.35	−10 8.0	0.936	1.909	11.2	19.8
5 11	13 3.03	− 9 18.3	0.979	1.910	16.5	20.0
5 21	13 1.93	− 8 47.4	1.039	1.911	21.0	20.3

272664 2005 WN_{186} 4 11.9 76°.50 1°.7/13.4 17

3 12	13 44.29	−15 28.8	1.783	2.635	13.5	21.0
3 22	13 38.62	−15 6.1	1.724	2.650	9.9	20.8
4 1	13 31.10	−14 28.2	1.689	2.665	5.8	20.6
4 11	13 22.61	−13 38.8	1.681	2.680	2.0	20.4
4 21	13 14.17	−12 43.3	1.700	2.695	3.8	20.6
5 1	13 6.76	−11 48.4	1.747	2.710	7.8	20.8
5 11	13 1.15	−11 0.3	1.818	2.725	11.5	21.1
5 21	12 57.76	−10 23.4	1.911	2.740	14.6	21.3

376012 2010 AS_{40} 4 11.9 147°.38 2°.5/14.4 17

3 12	13 43.55	−18 23.5	2.035	2.872	12.7	21.1
3 22	13 38.05	−18 3.7	1.961	2.875	9.6	20.9
4 1	13 30.81	−17 27.7	1.911	2.879	6.0	20.7
4 11	13 22.60	−16 37.9	1.887	2.883	2.9	20.5
4 21	13 14.31	−15 39.1	1.892	2.886	3.7	20.5
5 1	13 6.88	−14 37.2	1.925	2.889	7.2	20.8
5 11	13 1.04	−13 38.7	1.984	2.891	10.6	21.0
5 21	12 57.25	−12 48.8	2.065	2.894	13.6	21.2

384116 2008 WD_{134} 4 11.9 159°.27 4°.2/16.9 17

3 12	13 43.24	−25 19.8	2.478	3.272	12.0	21.2
3 22	13 37.64	−25 7.5	2.397	3.278	9.5	21.0
4 1	13 30.52	−24 37.3	2.340	3.282	6.9	20.8
4 11	13 22.57	−23 50.2	2.310	3.287	4.7	20.7
4 21	13 14.56	−22 49.5	2.309	3.291	4.5	20.7
5 1	13 7.29	−21 40.4	2.336	3.294	6.4	20.8
5 11	13 1.41	−20 29.1	2.390	3.297	9.1	21.0
5 21	12 57.35	−19 21.3	2.468	3.300	11.6	21.2

215212 2000 TC_{11} 4 11.9 258°.21 0°.0/11.9 17

3 12	13 45.30	− 9 54.6	1.910	2.773	12.3	20.8
3 22	13 39.45	− 9 37.7	1.825	2.761	8.8	20.5
4 1	13 31.66	− 9 11.0	1.766	2.749	4.7	20.2
4 11	13 22.68	− 8 37.8	1.734	2.736	0.4	19.9
4 21	13 13.47	− 8 2.9	1.731	2.724	4.1	20.1
5 1	13 5.05	− 7 31.3	1.754	2.711	8.3	20.4
5 11	12 58.28	− 7 8.0	1.803	2.698	12.2	20.6
5 21	12 53.71	− 6 56.2	1.873	2.685	15.5	20.8

456033 2005 YZ_{115} 4 11.9 147°.46 4°.4/15.5 18

3 12	13 49.50	−21 56.6	1.750	2.570	15.2	22.2
3 22	13 42.51	−21 57.9	1.680	2.581	11.7	22.0
4 1	13 33.28	−21 38.0	1.633	2.590	8.0	21.8
4 11	13 22.81	−20 58.3	1.612	2.599	4.9	21.6
4 21	13 12.28	−20 2.9	1.619	2.607	5.1	21.7
5 1	13 2.88	−18 58.8	1.653	2.615	8.3	21.9
5 11	12 55.55	−17 54.6	1.713	2.621	11.9	22.1
5 21	12 50.81	−16 57.2	1.794	2.627	15.2	22.3

135296 2001 SX_{189} 4 11.9 106°.56 0°.8/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 41.89	− 8 13.6	2.200	3.067	10.7	19.9
3 22	13 36.69	− 7 34.2	2.135	3.074	7.5	19.7
4 1	13 30.01	− 6 47.2	2.096	3.080	3.9	19.5
4 11	13 22.55	− 5 57.1	2.085	3.087	0.8	19.3
4 21	13 15.08	− 5 8.6	2.103	3.093	3.9	19.5
5 1	13 8.36	− 4 26.6	2.149	3.099	7.4	19.8
5 11	13 3.04	− 3 54.9	2.220	3.105	10.6	20.0
5 21	12 59.51	− 3 35.7	2.313	3.111	13.3	20.2

418952 2009 FW_6 4 11.9 314°.03 3°.0/ 9.7 17

3 12	13 42.87	− 4 47.2	1.275	2.169	15.0	20.5
3 22	13 38.45	− 3 55.8	1.198	2.149	10.6	20.2
4 1	13 31.40	− 2 54.0	1.143	2.130	5.8	19.9
4 11	13 22.68	− 1 49.7	1.112	2.111	3.1	19.7
4 21	13 13.57	− 0 52.3	1.106	2.093	7.2	19.9
5 1	13 5.50	− 0 10.4	1.123	2.075	12.5	20.1
5 11	12 59.66	+ 0 9.7	1.161	2.058	17.3	20.3
5 21	12 56.76	+ 0 6.2	1.216	2.042	21.4	20.5

389789 2011 UC_{75} 4 11.9 251°.76 1°.5/10.2 17

3 12	13 42.47	− 4 52.6	2.505	3.372	9.6	21.3
3 22	13 37.06	− 4 22.7	2.420	3.359	6.7	21.1
4 1	13 30.23	− 3 48.4	2.362	3.346	3.6	20.8
4 11	13 22.58	− 3 13.1	2.333	3.332	1.6	20.7
4 21	13 14.78	− 2 40.9	2.333	3.318	4.1	20.8
5 1	13 7.57	− 2 15.5	2.362	3.304	7.3	21.0
5 11	13 1.56	− 2 0.0	2.416	3.289	10.3	21.2
5 21	12 57.20	− 1 55.9	2.493	3.275	12.9	21.3

308533 2005 UU_{128} 4 11.9 258°.36 1°.7/13.9 17

3 12	13 40.09	−17 14.1	2.499	3.336	10.6	21.4
3 22	13 35.42	−16 40.3	2.411	3.328	7.9	21.2
4 1	13 29.36	−15 53.0	2.349	3.320	4.8	21.0
4 11	13 22.51	−14 54.8	2.315	3.312	2.0	20.8
4 21	13 15.55	−13 50.0	2.310	3.304	3.0	20.8
5 1	13 9.19	−12 43.7	2.333	3.296	6.2	21.0
5 11	13 4.06	−11 41.3	2.384	3.287	9.2	21.2
5 21	13 0.56	−10 47.1	2.457	3.279	12.0	21.4

382494 2001 PX_{45} 4 11.9 303°.69 12°.6/23.3 18

3 12	13 44.50	−38 56.6	1.181	1.952	23.8	20.3
3 22	13 40.29	−39 11.0	1.105	1.947	20.9	20.1
4 1	13 32.62	−38 37.5	1.043	1.943	17.6	19.9
4 11	13 22.79	−37 10.0	0.999	1.938	14.5	19.7
4 21	13 12.64	−34 50.2	0.976	1.934	12.7	19.5
5 1	13 4.15	−31 50.1	0.974	1.930	13.4	19.5
5 11	12 58.79	−28 30.7	0.995	1.926	16.3	19.7
5 21	12 57.19	−25 13.5	1.036	1.922	20.0	19.9

379380 2009 XF_4 4 11.9 81°.03 6°.7/ 6.1 16

3 12	13 45.74	+ 8 38.4	1.805	2.684	12.1	21.1
3 22	13 39.53	+ 9 33.9	1.761	2.695	9.2	20.9
4 1	13 31.55	+10 21.8	1.742	2.705	7.0	20.8
4 11	13 22.69	+10 55.2	1.749	2.715	7.0	20.8
4 21	13 13.94	+11 9.2	1.783	2.726	9.0	20.9
5 1	13 6.24	+11 1.6	1.841	2.736	11.8	21.1
5 11	13 0.34	+10 32.8	1.922	2.746	14.6	21.3
5 21	12 56.60	+ 9 45.5	2.021	2.757	16.9	21.5

437275 2012 XL_{150} 4 11.9 101°.54 10°.0/ 1.2 17

3 12	13 48.26	+25 31.2	2.335	3.161	11.7	20.8
3 22	13 41.01	+26 18.6	2.301	3.166	10.5	20.7
4 1	13 32.23	+26 47.2	2.291	3.172	10.0	20.7
4 11	13 22.74	+26 51.8	2.306	3.178	10.5	20.7
4 21	13 13.43	+26 30.1	2.345	3.183	11.6	20.8
5 1	13 5.14	+25 42.4	2.406	3.189	13.2	20.9
5 11	12 58.50	+24 31.9	2.488	3.194	14.7	21.0
5 21	12 53.85	+23 2.9	2.587	3.200	16.1	21.2

165652 2001 HH_{44} 4 11.9 299°.72 2°.0/10.2 18

3 12	13 43.47	− 4 36.9	1.861	2.738	11.9	20.0
3 22	13 38.16	− 4 6.6	1.782	2.726	8.3	19.7
4 1	13 30.97	− 3 30.7	1.728	2.713	4.5	19.4
4 11	13 22.66	− 2 53.9	1.702	2.701	2.0	19.3
4 21	13 14.16	− 2 21.6	1.702	2.689	5.2	19.4
5 1	13 6.45	− 1 58.7	1.730	2.676	9.2	19.6
5 11	13 0.36	− 1 49.0	1.781	2.664	12.9	19.8
5 21	12 56.42	− 1 54.1	1.853	2.653	16.1	20.0

369361 2009 UR_{11} 4 11.9 191°.73 1°.4/10.2 17

3 12	13 43.90	− 6 17.1	2.503	3.365	9.7	22.4
3 22	13 38.00	− 5 26.0	2.426	3.363	6.8	22.2
4 1	13 30.71	− 4 28.7	2.377	3.361	3.6	22.0
4 11	13 22.64	− 3 29.6	2.358	3.357	1.5	21.8
4 21	13 14.50	− 2 33.4	2.368	3.353	4.1	22.0
5 1	13 7.02	− 1 44.8	2.408	3.348	7.4	22.2
5 11	13 0.81	− 1 7.4	2.474	3.342	10.3	22.3
5 21	12 56.27	− 0 43.1	2.563	3.335	12.8	22.5

8350 1989 AG 4 11.9 49°.86 8°.4/ 5.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 45.35	+11 3.4	1.532	2.417	13.5	16.9
3 22	13 39.44	+12 13.7	1.497	2.430	10.6	16.8
4 1	13 31.55	+13 12.5	1.486	2.443	8.6	16.7
4 11	13 22.70	+13 51.2	1.499	2.456	8.9	16.7
4 21	13 14.03	+14 4.4	1.537	2.470	11.0	16.9
5 1	13 6.60	+13 50.5	1.597	2.484	13.8	17.1
5 11	13 1.20	+13 11.1	1.678	2.498	16.6	17.3
5 21	12 58.20	+12 10.3	1.776	2.513	18.9	17.5

109391 2001 QY_{171} 4 11.9 116°.11 2°.7/ 8.9 18

3 12	13 44.27	− 4 1.6	2.102	2.974	10.9	20.5
3 22	13 38.27	− 2 41.1	2.054	2.996	7.5	20.3
4 1	13 30.80	− 1 16.1	2.034	3.017	4.1	20.1
4 11	13 22.64	+ 0 6.6	2.043	3.037	2.8	20.1
4 21	13 14.60	+ 1 20.6	2.081	3.057	5.4	20.3
5 1	13 7.48	+ 2 20.7	2.147	3.076	8.7	20.5
5 11	13 1.87	+ 3 3.6	2.238	3.094	11.7	20.7
5 21	12 58.13	+ 3 28.6	2.350	3.112	14.2	20.9

209373 2004 EF_{16} 4 11.9 342°.46 3°.4/14.9 18

3 12	13 44.39	−19 19.9	2.074	2.904	12.8	20.3
3 22	13 38.73	−19 33.2	1.994	2.903	9.8	20.1
4 1	13 31.25	−19 31.4	1.939	2.901	6.5	19.8
4 11	13 22.69	−19 15.4	1.910	2.900	3.8	19.7
4 21	13 13.98	−18 48.0	1.909	2.899	4.2	19.7
5 1	13 6.05	−18 13.8	1.936	2.898	7.2	19.9
5 11	12 59.70	−17 38.3	1.988	2.898	10.5	20.1
5 21	12 55.45	−17 6.9	2.062	2.897	13.5	20.3

299776 2006 SK_{57} 4 11.9 188°.83 0°.6/12.7 18

3 12	13 40.60	−13 50.4	2.745	3.590	9.6	20.8
3 22	13 35.62	−13 3.3	2.664	3.589	6.9	20.6
4 1	13 29.41	−12 5.7	2.610	3.588	3.8	20.4
4 11	13 22.54	−11 0.8	2.585	3.586	0.8	20.2
4 21	13 15.62	− 9 53.1	2.590	3.584	2.8	20.3
5 1	13 9.27	− 8 47.3	2.625	3.581	5.9	20.5
5 11	13 4.05	− 7 47.9	2.687	3.579	8.8	20.7
5 21	13 0.31	− 6 58.3	2.773	3.575	11.3	20.9

3929 Carmelmaria 4 11.9 187°.94 1°.3/10.7 18

3 12	13 45.54	− 7 52.0	1.837	2.706	12.4	17.9
3 22	13 39.56	− 7 3.0	1.766	2.705	8.7	17.7
4 1	13 31.67	− 6 4.4	1.720	2.705	4.6	17.4
4 11	13 22.73	− 5 1.8	1.702	2.703	1.3	17.2
4 21	13 13.70	− 4 1.7	1.713	2.701	4.8	17.4
5 1	13 5.58	− 3 10.3	1.750	2.699	9.0	17.7
5 11	12 59.20	− 2 32.6	1.813	2.696	12.7	17.9
5 21	12 55.03	− 2 11.1	1.896	2.692	15.9	18.1

340670 2006 RH_{39} 4 11.9 112°.31 0°.1/12.0 18

3 12	13 45.12	− 9 45.8	2.690	3.540	9.6	21.2
3 22	13 38.70	− 9 40.3	2.629	3.558	6.8	21.1
4 1	13 31.01	− 9 28.5	2.595	3.575	3.6	20.9
4 11	13 22.67	− 9 12.7	2.590	3.592	0.4	20.6
4 21	13 14.37	− 8 55.7	2.616	3.609	2.9	20.9
5 1	13 6.77	− 8 40.5	2.672	3.625	6.0	21.1
5 11	13 0.42	− 8 30.0	2.755	3.641	8.8	21.3
5 21	12 55.67	− 8 26.2	2.862	3.657	11.1	21.5

461542 2003 UO_{152} 4 11.9 168°.07 1°.4/10.6 18

3 12	13 46.39	− 6 54.3	1.976	2.843	11.8	22.1
3 22	13 40.00	− 6 9.7	1.909	2.848	8.2	21.9
4 1	13 31.85	− 5 17.5	1.868	2.852	4.3	21.6
4 11	13 22.75	− 4 22.7	1.855	2.856	1.4	21.4
4 21	13 13.61	− 3 31.1	1.871	2.858	4.7	21.6
5 1	13 5.37	− 2 48.2	1.915	2.861	8.5	21.9
5 11	12 58.79	− 2 17.9	1.984	2.862	12.0	22.1
5 21	12 54.30	− 2 2.5	2.075	2.863	15.0	22.3

469099 2015 CJ_{40} 4 11.9 219°.72 0°.2/12.0 17

3 12	13 43.43	−11 25.9	2.069	2.928	11.6	21.2
3 22	13 37.97	−10 51.3	1.990	2.923	8.3	21.0
4 1	13 30.81	−10 5.5	1.936	2.917	4.5	20.8
4 11	13 22.66	− 9 12.5	1.910	2.912	0.5	20.4
4 21	13 14.40	− 8 17.3	1.912	2.906	3.7	20.7
5 1	13 6.89	− 7 25.5	1.943	2.899	7.7	20.9
5 11	13 0.90	− 6 42.6	1.999	2.892	11.2	21.1
5 21	12 56.88	− 6 11.8	2.076	2.886	14.3	21.3

272743 2005 YY_{114} 4 11.9 161°.44 2°.0/ 9.9 17

3 12	13 44.41	− 4 41.8	2.081	2.953	11.1	21.6
3 22	13 38.54	− 4 0.5	2.016	2.957	7.7	21.4
4 1	13 31.05	− 3 14.1	1.976	2.960	4.1	21.2
4 11	13 22.69	− 2 27.5	1.965	2.964	2.0	21.1
4 21	13 14.29	− 1 45.8	1.983	2.966	4.8	21.3
5 1	13 6.73	− 1 13.7	2.028	2.969	8.4	21.5
5 11	13 0.67	− 0 54.3	2.098	2.971	11.7	21.7
5 21	12 56.56	− 0 49.1	2.189	2.973	14.4	21.9

354667 2005 MO_{17} 4 11.9 213°.51 3°.0/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 40.97	+ 0 35.9	2.786	3.660	8.5	21.8
3 22	13 35.86	+ 1 29.0	2.713	3.653	6.0	21.7
4 1	13 29.54	+ 2 23.2	2.667	3.646	3.7	21.5
4 11	13 22.56	+ 3 14.0	2.651	3.638	3.2	21.4
4 21	13 15.52	+ 3 57.2	2.664	3.631	5.1	21.6
5 1	13 9.02	+ 4 29.6	2.706	3.622	7.7	21.7
5 11	13 3.60	+ 4 48.8	2.772	3.614	10.1	21.9
5 21	12 59.61	+ 4 54.2	2.860	3.605	12.3	22.0

405505 2005 AO_{61} 4 11.9 27°.89 6°.8/ 7.3 18

3 12	13 44.23	+ 3 30.0	1.134	2.036	15.7	20.0
3 22	13 39.19	+ 4 38.2	1.094	2.045	11.4	19.8
4 1	13 31.61	+ 5 42.9	1.076	2.055	7.7	19.6
4 11	13 22.74	+ 6 33.2	1.081	2.065	7.2	19.6
4 21	13 14.00	+ 7 0.8	1.109	2.077	10.2	19.8
5 1	13 6.76	+ 7 1.4	1.159	2.089	14.3	20.0
5 11	13 1.97	+ 6 35.0	1.228	2.102	18.1	20.3
5 21	13 0.05	+ 5 45.0	1.314	2.116	21.3	20.6

500477 2012 TY_{239} 4 11.9 135°.15 0°.8/11.1 17

3 12	13 44.95	− 6 37.4	2.488	3.348	9.9	21.9
3 22	13 38.69	− 6 23.2	2.423	3.358	6.9	21.8
4 1	13 31.06	− 6 4.1	2.384	3.367	3.6	21.6
4 11	13 22.70	− 5 43.3	2.375	3.376	0.8	21.4
4 21	13 14.33	− 5 23.9	2.396	3.385	3.6	21.6
5 1	13 6.69	− 5 9.2	2.446	3.393	6.8	21.8
5 11	13 0.36	− 5 1.9	2.522	3.401	9.7	22.0
5 21	12 55.73	− 5 3.5	2.621	3.409	12.2	22.2

407709 2011 UY_{196} 4 11.9 90°.01 2°.0/13.4 18

3 12	13 48.29	−15 13.3	1.491	2.347	15.5	21.7
3 22	13 41.73	−15 2.3	1.437	2.365	11.3	21.5
4 1	13 32.88	−14 34.2	1.405	2.382	6.7	21.2
4 11	13 22.85	−13 52.7	1.399	2.398	2.4	21.0
4 21	13 12.89	−13 3.7	1.420	2.415	4.4	21.2
5 1	13 4.24	−12 14.6	1.467	2.431	8.9	21.5
5 11	12 57.83	−11 32.5	1.538	2.447	13.0	21.7
5 21	12 54.09	−11 2.2	1.629	2.463	16.5	22.0

8730 Iidesan 4 11.9 176°.89 0°.5/12.4 18

3 12	13 46.51	−12 35.1	2.037	2.888	12.1	18.7
3 22	13 40.12	−12 0.9	1.963	2.891	8.7	18.5
4 1	13 31.94	−11 14.5	1.914	2.893	4.8	18.2
4 11	13 22.78	−10 19.6	1.893	2.895	0.8	17.9
4 21	13 13.54	− 9 21.6	1.902	2.895	3.7	18.2
5 1	13 5.16	− 8 26.4	1.939	2.895	7.7	18.4
5 11	12 58.42	− 7 39.5	2.002	2.894	11.3	18.6
5 21	12 53.77	− 7 4.7	2.087	2.892	14.3	18.8

249440 2009 FX_{52} 4 11.9 252°.98 0°.6/11.4 17

3 12	13 45.96	− 9 8.9	1.623	2.494	13.6	21.3
3 22	13 40.19	− 8 37.4	1.544	2.484	9.7	21.1
4 1	13 32.18	− 7 54.4	1.489	2.473	5.2	20.8
4 11	13 22.81	− 7 4.7	1.460	2.462	0.6	20.4
4 21	13 13.18	− 6 14.5	1.459	2.451	4.9	20.7
5 1	13 4.50	− 5 30.7	1.483	2.439	9.6	20.9
5 11	12 57.75	− 4 59.3	1.532	2.427	13.9	21.1
5 21	12 53.51	− 4 43.5	1.600	2.415	17.5	21.4

32485 2000 TY_{44} 4 11.9 152°.10 2°.3/ 9.4 18

3 12	13 43.98	− 1 6.0	2.608	3.477	9.2	19.1
3 22	13 37.97	− 0 43.0	2.543	3.482	6.4	18.9
4 1	13 30.66	− 0 18.9	2.505	3.487	3.6	18.8
4 11	13 22.67	+ 0 2.7	2.497	3.491	2.4	18.7
4 21	13 14.67	+ 0 18.6	2.518	3.496	4.5	18.8
5 1	13 7.34	+ 0 25.9	2.568	3.500	7.3	19.0
5 11	13 1.24	+ 0 23.0	2.644	3.504	10.0	19.2
5 21	12 56.73	+ 0 9.3	2.742	3.507	12.3	19.4

408655 2014 MD_{20} 4 11.9 204°.95 1°.9/10.1 17

3 12	13 46.78	− 5 47.4	1.934	2.802	11.9	21.7
3 22	13 40.41	− 4 55.5	1.857	2.797	8.3	21.5
4 1	13 32.15	− 3 55.9	1.806	2.790	4.4	21.2
4 11	13 22.80	− 2 54.2	1.784	2.783	2.0	21.0
4 21	13 13.32	− 1 56.7	1.791	2.775	5.2	21.2
5 1	13 4.68	− 1 9.3	1.825	2.766	9.2	21.4
5 11	12 57.72	− 0 36.5	1.884	2.757	12.8	21.6
5 21	12 52.93	− 0 20.2	1.964	2.746	15.9	21.8

505364 2013 GO_{10} 4 11.9 330°.91 4°.9/ 6.7 17

3 12	13 36.72	− 7 19.8	1.129	2.033	15.7	20.8
3 22	13 34.15	− 4 12.8	1.061	2.019	10.8	20.4
4 1	13 29.10	− 0 40.1	1.018	2.005	6.1	20.1
4 11	13 22.56	+ 2 59.4	1.001	1.993	5.7	20.1
4 21	13 15.82	+ 6 23.5	1.010	1.982	10.4	20.3
5 1	13 10.22	+ 9 12.9	1.042	1.971	15.7	20.5
5 11	13 6.86	+11 17.2	1.095	1.962	20.4	20.8
5 21	13 6.28	+12 34.7	1.163	1.954	24.2	21.0

415954 2001 XZ_{38} 4 11.9 86°.42 3°.6/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 49.73	+ 0 53.9	1.813	2.687	12.3	20.9
3 22	13 42.22	+ 1 18.1	1.771	2.711	8.7	20.7
4 1	13 32.95	+ 1 41.1	1.756	2.736	5.1	20.5
4 11	13 22.86	+ 1 58.1	1.768	2.760	3.7	20.5
4 21	13 13.00	+ 2 5.0	1.809	2.784	6.2	20.7
5 1	13 4.32	+ 1 59.0	1.876	2.807	9.7	20.9
5 11	12 57.54	+ 1 39.3	1.968	2.830	12.8	21.2
5 21	12 53.02	+ 1 6.4	2.081	2.852	15.5	21.4

387253 2012 UZ_{87} 4 11.9 36°.72 1°.2/13.1 17

3 12	13 41.22	−14 32.4	1.973	2.828	12.3	20.6
3 22	13 36.42	−14 4.0	1.906	2.835	8.9	20.4
4 1	13 29.97	−13 22.1	1.864	2.842	5.1	20.1
4 11	13 22.62	−12 30.5	1.849	2.849	1.5	19.9
4 21	13 15.26	−11 34.2	1.862	2.857	3.5	20.1
5 1	13 8.73	−10 39.3	1.902	2.865	7.3	20.3
5 11	13 3.75	− 9 51.3	1.967	2.873	10.8	20.5
5 21	13 0.72	− 9 14.2	2.055	2.882	13.8	20.8

175787 1999 QL 4 11.9 177°.93 3°.2/14.7 16

3 12	13 47.01	−19 14.0	1.865	2.698	13.9	21.2
3 22	13 40.71	−19 5.1	1.788	2.699	10.5	21.0
4 1	13 32.36	−18 38.1	1.735	2.701	6.8	20.8
4 11	13 22.83	−17 54.9	1.708	2.701	3.6	20.6
4 21	13 13.17	−16 59.9	1.709	2.701	4.3	20.6
5 1	13 4.45	−15 59.6	1.738	2.701	7.8	20.8
5 11	12 57.57	−15 1.4	1.792	2.700	11.6	21.0
5 21	12 53.04	−14 11.2	1.869	2.699	14.8	21.2

115966 2003 WH_{44} 4 11.9 72°.45 6°.3/18.3 18

3 12	13 44.89	−28 32.4	1.986	2.774	14.8	19.3
3 22	13 39.14	−28 45.6	1.920	2.789	12.1	19.2
4 1	13 31.47	−28 35.8	1.875	2.804	9.2	19.0
4 11	13 22.76	−28 3.0	1.856	2.819	6.9	18.9
4 21	13 14.02	−27 10.4	1.862	2.834	6.4	18.9
5 1	13 6.28	−26 4.1	1.895	2.849	8.0	19.0
5 11	13 0.34	−24 51.9	1.954	2.864	10.6	19.2
5 21	12 56.67	−23 41.3	2.035	2.879	13.2	19.4

24087 Ciambetti 4 11.9 147°.72 2°.5/14.5 18

3 12	13 45.55	−19 41.0	2.039	2.867	13.0	19.4
3 22	13 39.42	−18 58.4	1.968	2.878	9.8	19.2
4 1	13 31.55	−17 57.5	1.922	2.888	6.2	19.0
4 11	13 22.77	−16 41.6	1.903	2.898	2.9	18.8
4 21	13 14.00	−15 16.6	1.913	2.907	3.7	18.9
5 1	13 6.16	−13 49.9	1.952	2.915	7.2	19.1
5 11	13 0.00	−12 28.8	2.018	2.922	10.6	19.3
5 21	12 55.94	−11 19.0	2.107	2.929	13.7	19.5

134042 2004 XQ_{12} 4 11.9 54°.72 10°.7/25.3 18

3 12	13 44.67	−42 24.8	1.880	2.581	18.4	18.9
3 22	13 39.36	−42 38.5	1.809	2.593	16.3	18.7
4 1	13 31.71	−42 17.8	1.755	2.606	14.1	18.6
4 11	13 22.78	−41 20.5	1.721	2.619	12.0	18.5
4 21	13 13.86	−39 48.8	1.710	2.632	10.8	18.4
5 1	13 6.21	−37 49.6	1.723	2.645	10.9	18.5
5 11	13 0.79	−35 34.1	1.761	2.659	12.3	18.6
5 21	12 58.06	−33 14.1	1.822	2.672	14.3	18.7

279853 2001 AE_{19} 4 11.9 35°.30 6°.3/ 6.9 18

3 12	13 42.87	+ 3 55.5	1.367	2.264	14.0	19.9
3 22	13 37.82	+ 5 7.7	1.335	2.283	10.1	19.7
4 1	13 30.74	+ 6 15.5	1.326	2.302	7.0	19.5
4 11	13 22.69	+ 7 9.5	1.342	2.323	6.6	19.6
4 21	13 14.86	+ 7 43.0	1.382	2.344	9.3	19.8
5 1	13 8.33	+ 7 52.3	1.446	2.366	12.7	20.0
5 11	13 3.86	+ 7 37.5	1.530	2.389	16.0	20.3
5 21	13 1.81	+ 7 1.2	1.632	2.412	18.7	20.5

507429 2012 QQ_{52} 4 11.9 277°.77 2°.3/14.1 17

3 12	13 42.06	−17 49.3	1.950	2.793	12.9	21.4
3 22	13 37.17	−17 20.3	1.866	2.786	9.7	21.2
4 1	13 30.46	−16 34.1	1.807	2.778	6.0	21.0
4 11	13 22.69	−15 33.4	1.774	2.770	2.6	20.7
4 21	13 14.75	−14 23.5	1.768	2.763	3.7	20.8
5 1	13 7.61	−13 11.2	1.790	2.755	7.5	21.0
5 11	13 2.06	−12 3.5	1.838	2.748	11.2	21.2
5 21	12 58.61	−11 6.3	1.908	2.740	14.5	21.4

51816 2001 OY_{12} 4 11.9 7°.53 5°.8/ 6.7 18 R

3 12	13 43.11	+ 6 2.6	1.816	2.701	11.7	18.4
3 22	13 37.80	+ 6 54.8	1.761	2.701	8.7	18.2
4 1	13 30.72	+ 7 42.4	1.731	2.702	6.3	18.0
4 11	13 22.70	+ 8 18.7	1.728	2.703	6.1	18.0
4 21	13 14.68	+ 8 38.4	1.751	2.705	8.3	18.2
5 1	13 7.60	+ 8 38.4	1.799	2.707	11.3	18.3
5 11	13 2.18	+ 8 18.0	1.869	2.710	14.3	18.5
5 21	12 58.86	+ 7 39.0	1.957	2.713	16.8	18.7

429192 2009 WM_{53} 4 11.9 132°.47 3°.7/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 44.99	+ 3 11.6	2.711	3.579	8.9	22.6
3 22	13 38.54	+ 4 6.7	2.664	3.599	6.4	22.5
4 1	13 30.91	+ 5 0.1	2.646	3.619	4.2	22.4
4 11	13 22.72	+ 5 47.0	2.657	3.637	3.9	22.4
4 21	13 14.62	+ 6 23.8	2.699	3.655	5.6	22.5
5 1	13 7.25	+ 6 47.6	2.769	3.672	8.0	22.7
5 11	13 1.12	+ 6 57.1	2.864	3.688	10.3	22.9
5 21	12 56.54	+ 6 52.8	2.981	3.704	12.2	23.0

282460 2004 DN_{11} 4 11.9 75°.47 2°.4/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.66	− 4 21.5	2.080	2.958	10.8	20.5
3 22	13 35.91	− 3 14.3	2.018	2.962	7.5	20.3
4 1	13 29.67	− 2 1.5	1.982	2.966	4.1	20.1
4 11	13 22.62	− 0 49.3	1.974	2.971	2.5	20.0
4 21	13 15.56	+ 0 16.2	1.995	2.975	5.2	20.2
5 1	13 9.27	+ 1 9.6	2.043	2.979	8.7	20.4
5 11	13 4.40	+ 1 47.3	2.115	2.983	11.8	20.6
5 21	13 1.33	+ 2 7.7	2.207	2.987	14.4	20.8

240036 2001 UU_{115} 4 11.9 235°.87 0°.9/12.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.38	−14 22.1	1.602	2.461	14.4	20.5
3 22	13 39.84	−13 36.1	1.520	2.452	10.5	20.2
4 1	13 32.02	−12 31.4	1.462	2.441	6.0	19.9
4 11	13 22.83	−11 12.9	1.430	2.431	1.3	19.6
4 21	13 13.40	− 9 47.8	1.425	2.420	4.4	19.8
5 1	13 4.93	− 8 25.3	1.447	2.408	9.3	20.0
5 11	12 58.44	− 7 14.0	1.493	2.396	13.7	20.3
5 21	12 54.51	− 6 19.6	1.559	2.384	17.5	20.5

214212 2005 ED_{74} 4 11.9 56°.33 2°.1/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.01	− 6 30.2	1.331	2.218	15.0	20.5
3 22	13 39.53	− 5 39.0	1.282	2.230	10.5	20.2
4 1	13 31.76	− 4 38.5	1.256	2.243	5.5	20.0
4 11	13 22.80	− 3 36.3	1.255	2.255	2.1	19.8
4 21	13 13.93	− 2 40.8	1.280	2.269	6.1	20.1
5 1	13 6.38	− 1 59.2	1.329	2.282	10.8	20.4
5 11	13 1.06	− 1 36.2	1.401	2.296	15.0	20.7
5 21	12 58.40	− 1 32.8	1.490	2.309	18.5	20.9

391629 2007 VX_{133} 4 11.9 123°.24 1°.0/12.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.75	−12 38.6	2.315	3.163	11.0	21.5
3 22	13 38.71	−12 34.0	2.245	3.171	7.9	21.3
4 1	13 31.15	−12 19.9	2.201	3.179	4.5	21.1
4 11	13 22.76	−11 58.7	2.185	3.186	1.2	20.9
4 21	13 14.32	−11 33.6	2.199	3.193	3.2	21.0
5 1	13 6.64	−11 8.7	2.242	3.200	6.6	21.3
5 11	13 0.37	−10 47.9	2.310	3.207	9.8	21.5
5 21	12 55.94	−10 34.1	2.402	3.214	12.5	21.7

505980 2015 GB_{23} 4 11.9 142°.47 7°.4/ 3.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.27	+14 34.3	2.280	3.146	10.4	21.1
3 22	13 37.63	+15 39.1	2.234	3.149	8.5	21.0
4 1	13 30.54	+16 33.6	2.213	3.151	7.5	21.0
4 11	13 22.70	+17 11.8	2.219	3.153	7.9	21.0
4 21	13 14.90	+17 29.5	2.252	3.156	9.4	21.1
5 1	13 7.90	+17 25.1	2.308	3.158	11.5	21.2
5 11	13 2.32	+16 59.2	2.386	3.160	13.6	21.4
5 21	12 58.53	+16 14.3	2.482	3.161	15.4	21.5

285294 1998 SP_{176} 4 11.9 136°.24 1°.7/13.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 50.92	−13 30.7	1.530	2.386	15.2	21.6
3 22	13 43.69	−13 35.7	1.466	2.394	11.1	21.3
4 1	13 34.03	−13 26.4	1.425	2.403	6.4	21.1
4 11	13 23.00	−13 5.1	1.410	2.410	2.0	20.8
4 21	13 11.90	−12 36.6	1.423	2.418	4.4	21.0
5 1	13 2.04	−12 6.8	1.462	2.424	9.1	21.3
5 11	12 54.44	−11 42.3	1.526	2.431	13.4	21.5
5 21	12 49.64	−11 27.6	1.609	2.437	16.9	21.8

59986 1999 SE_{15} 4 11.9 321°.10 1°.1/13.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 38.99	−17 3.9	2.165	3.011	11.7	18.5
3 22	13 34.81	−15 45.5	2.081	3.005	8.6	18.3
4 1	13 29.12	−14 9.2	2.022	2.999	5.0	18.0
4 11	13 22.59	−12 20.2	1.992	2.993	1.4	17.8
4 21	13 16.00	−10 25.4	1.992	2.987	3.3	17.9
5 1	13 10.11	− 8 33.1	2.021	2.981	7.1	18.1
5 11	13 5.60	− 6 50.9	2.076	2.976	10.6	18.3
5 21	13 2.87	− 5 24.0	2.155	2.971	13.6	18.5

222314 2000 SB_{366} 4 11.9 156°.55 4°.4/15.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 48.60	−21 33.7	2.026	2.842	13.6	20.1
3 22	13 41.79	−22 1.6	1.949	2.846	10.6	19.9
4 1	13 32.95	−22 12.8	1.896	2.849	7.4	19.7
4 11	13 22.92	−22 7.0	1.870	2.853	4.8	19.5
4 21	13 12.71	−21 46.5	1.871	2.856	5.0	19.6
5 1	13 3.38	−21 15.7	1.900	2.858	7.7	19.7
5 11	12 55.83	−20 40.8	1.955	2.861	10.9	19.9
5 21	12 50.58	−20 7.7	2.033	2.863	13.8	20.1

251636 2010 KH_{65} 4 11.9 261°.68 0°.1/11.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 41.42	−10 39.9	2.538	3.395	9.9	20.8
3 22	13 36.38	−10 11.9	2.448	3.380	7.0	20.6
4 1	13 29.94	− 9 35.2	2.383	3.365	3.8	20.4
4 11	13 22.67	− 8 53.0	2.348	3.350	0.3	20.1
4 21	13 15.24	− 8 9.0	2.341	3.334	3.2	20.3
5 1	13 8.36	− 7 27.6	2.364	3.319	6.6	20.5
5 11	13 2.67	− 6 52.8	2.413	3.303	9.7	20.6
5 21	12 58.58	− 6 27.5	2.484	3.287	12.4	20.8

382339 2013 TW_{50} 4 11.9 186°.86 0°.5/11.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.04	− 8 50.2	2.257	3.116	10.8	21.7
3 22	13 38.97	− 8 22.3	2.181	3.116	7.6	21.5
4 1	13 31.32	− 7 46.5	2.132	3.115	4.0	21.3
4 11	13 22.78	− 7 6.6	2.112	3.113	0.5	21.0
4 21	13 14.16	− 6 26.7	2.121	3.112	3.7	21.2
5 1	13 6.28	− 5 51.5	2.158	3.109	7.4	21.5
5 11	12 59.83	− 5 24.9	2.222	3.106	10.7	21.7
5 21	12 55.24	− 5 9.4	2.308	3.103	13.4	21.9

223264 2003 FG_{131} 4 11.9 50°.85 2°.0/13.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 49.29	−13 7.7	1.592	2.449	14.6	20.1
3 22	13 42.49	−13 34.2	1.528	2.457	10.7	19.8
4 1	13 33.38	−13 48.4	1.488	2.465	6.3	19.6
4 11	13 22.96	−13 51.7	1.474	2.473	2.3	19.4
4 21	13 12.43	−13 47.2	1.487	2.481	4.3	19.5
5 1	13 3.06	−13 39.5	1.527	2.490	8.7	19.8
5 11	12 55.81	−13 33.9	1.591	2.499	12.7	20.0
5 21	12 51.23	−13 34.4	1.675	2.508	16.2	20.3

333653 2008 SN_{29} 4 11.9 123°.60 1°.2/13.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.70	−14 9.3	2.046	2.897	12.1	20.8
3 22	13 38.13	−13 44.5	1.978	2.904	8.8	20.6
4 1	13 30.89	−13 7.0	1.933	2.911	5.0	20.4
4 11	13 22.75	−12 20.2	1.917	2.917	1.4	20.1
4 21	13 14.57	−11 28.7	1.929	2.924	3.5	20.3
5 1	13 7.23	−10 38.3	1.969	2.930	7.2	20.5
5 11	13 1.45	− 9 54.3	2.034	2.936	10.7	20.8
5 21	12 57.65	− 9 20.6	2.122	2.941	13.7	21.0

54467 2000 OE_{6} 4 11.9 339°.88 7°.6/18.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.29	−28 25.0	1.549	2.357	17.4	17.1
3 22	13 38.64	−28 47.8	1.469	2.351	14.4	16.9
4 1	13 31.50	−28 42.7	1.410	2.345	11.1	16.7
4 11	13 22.81	−28 8.3	1.372	2.340	8.4	16.5
4 21	13 13.83	−27 7.3	1.359	2.335	7.7	16.5
5 1	13 5.91	−25 46.8	1.371	2.331	9.8	16.6
5 11	13 0.16	−24 17.8	1.405	2.328	13.1	16.7
5 21	12 57.23	−22 50.6	1.461	2.325	16.4	16.9

309891 2009 DR_{139} 4 11.9 117°.01 1°.8/13.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.38	−16 7.6	1.526	2.383	15.2	20.6
3 22	13 39.77	−15 34.1	1.461	2.389	11.1	20.4
4 1	13 31.92	−14 41.4	1.418	2.395	6.6	20.2
4 11	13 22.84	−13 33.8	1.401	2.400	2.2	19.9
4 21	13 13.70	−12 18.5	1.411	2.406	4.3	20.0
5 1	13 5.72	−11 4.3	1.447	2.412	8.9	20.3
5 11	12 59.82	− 9 59.4	1.506	2.417	13.2	20.6
5 21	12 56.50	− 9 9.4	1.587	2.422	16.8	20.8

52960 1998 TD_{7} 4 11.9 128°.23 0°.5/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.38	−10 21.9	1.395	2.270	15.2	19.7
3 22	13 40.59	− 9 38.0	1.334	2.275	10.8	19.5
4 1	13 32.40	− 8 39.7	1.295	2.279	5.7	19.2
4 11	13 22.88	− 7 33.4	1.282	2.284	0.6	18.8
4 21	13 13.31	− 6 27.2	1.295	2.288	5.1	19.2
5 1	13 4.98	− 5 29.5	1.333	2.292	10.2	19.5
5 11	12 58.87	− 4 47.1	1.394	2.295	14.7	19.7
5 21	12 55.50	− 4 23.3	1.474	2.299	18.4	20.0

84864 2003 AM_{84} 4 11.9 161°.09 0°.6/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.32	−11 2.1	1.957	2.820	12.1	19.5
3 22	13 37.89	− 9 52.6	1.889	2.825	8.5	19.3
4 1	13 30.77	− 8 30.6	1.845	2.829	4.5	19.1
4 11	13 22.74	− 7 2.0	1.831	2.833	0.6	18.8
4 21	13 14.69	− 5 34.0	1.845	2.836	4.2	19.1
5 1	13 7.51	− 4 13.9	1.888	2.839	8.2	19.3
5 11	13 1.92	− 3 7.7	1.955	2.841	11.8	19.5
5 21	12 58.35	− 2 18.5	2.045	2.843	14.8	19.7

383857 2008 PQ_{17} 4 11.9 169°.44 2°.7/15.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.82	−20 18.5	2.778	3.589	10.4	22.6
3 22	13 38.63	−20 8.5	2.697	3.595	8.0	22.4
4 1	13 31.08	−19 45.3	2.641	3.599	5.3	22.2
4 11	13 22.77	−19 10.4	2.614	3.603	3.0	22.1
4 21	13 14.40	−18 26.6	2.617	3.606	3.3	22.1
5 1	13 6.67	−17 38.0	2.650	3.609	5.7	22.3
5 11	13 0.18	−16 49.4	2.710	3.610	8.4	22.4
5 21	12 55.32	−16 4.8	2.795	3.611	10.8	22.6

492213 2013 ST_{43} 4 11.9 212°.87 3°.5/ 8.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 46.79	+ 1 13.7	2.220	3.091	10.5	22.2
3 22	13 40.23	+ 1 49.8	2.146	3.084	7.5	22.0
4 1	13 32.02	+ 2 26.2	2.098	3.076	4.6	21.8
4 11	13 22.86	+ 2 57.7	2.079	3.068	3.7	21.8
4 21	13 13.59	+ 3 20.0	2.089	3.059	6.0	21.9
5 1	13 5.08	+ 3 29.6	2.127	3.050	9.1	22.1
5 11	12 58.03	+ 3 24.7	2.190	3.039	12.2	22.2
5 21	12 52.91	+ 3 5.1	2.274	3.029	14.8	22.4

231321 2006 CL_{57} 4 11.9 173°.89 1°.5/13.4 17

3 12	13 44.89	−15 2.0	2.290	3.131	11.3	21.5
3 22	13 38.88	−14 47.0	2.213	3.133	8.3	21.3
4 1	13 31.29	−14 20.0	2.161	3.135	4.9	21.1
4 11	13 22.80	−13 43.5	2.138	3.137	1.8	20.9
4 21	13 14.22	−13 1.3	2.144	3.138	3.3	21.0
5 1	13 6.39	−12 18.1	2.179	3.139	6.7	21.2
5 11	13 0.00	−11 38.9	2.240	3.139	10.0	21.4
5 21	12 55.48	−11 7.4	2.324	3.138	12.8	21.6

379364 2009 WO_{209} 4 11.9 207°.00 0°.9/12.8 17

3 12	13 44.34	−13 41.4	2.290	3.137	11.1	22.5
3 22	13 38.53	−13 12.7	2.206	3.131	8.1	22.3
4 1	13 31.12	−12 32.2	2.148	3.125	4.6	22.0
4 11	13 22.78	−11 42.9	2.118	3.119	1.1	21.8
4 21	13 14.32	−10 49.3	2.117	3.111	3.3	21.9
5 1	13 6.55	− 9 56.4	2.146	3.104	6.9	22.1
5 11	13 0.17	− 9 9.5	2.200	3.095	10.3	22.3
5 21	12 55.66	− 8 32.4	2.278	3.086	13.2	22.5

42259 2001 OD_{81} 4 11.9 236°.85 3°.8/15.8 18

3 12	13 44.14	−22 8.4	2.437	3.247	11.7	17.9
3 22	13 38.44	−22 16.9	2.346	3.239	9.2	17.7
4 1	13 31.11	−22 10.1	2.279	3.231	6.4	17.5
4 11	13 22.79	−21 48.6	2.239	3.222	4.2	17.4
4 21	13 14.27	−21 14.7	2.228	3.213	4.2	17.4
5 1	13 6.38	−20 32.5	2.244	3.204	6.6	17.5
5 11	12 59.86	−19 47.4	2.288	3.194	9.5	17.6
5 21	12 55.19	−19 4.5	2.355	3.184	12.2	17.8

29252 Konjikido 4 11.9 45°.12 3°.0/14.7 18 R

3 12	13 43.08	−18 40.7	1.927	2.766	13.2	18.2
3 22	13 37.82	−18 36.6	1.861	2.776	10.0	18.0
4 1	13 30.78	−18 16.2	1.818	2.785	6.4	17.8
4 11	13 22.76	−17 41.7	1.802	2.795	3.4	17.6
4 21	13 14.70	−16 57.2	1.813	2.805	4.0	17.7
5 1	13 7.54	−16 8.3	1.851	2.816	7.3	17.9
5 11	13 2.04	−15 21.5	1.914	2.826	10.7	18.1
5 21	12 58.66	−14 41.6	1.999	2.837	13.7	18.4

120235 2004 FR_{67} 4 11.9 343°.45 3°.3/ 9.2 17

3 12	13 42.68	− 3 37.9	1.426	2.317	13.9	19.5
3 22	13 37.96	− 2 38.5	1.363	2.312	9.8	19.2
4 1	13 31.01	− 1 32.0	1.323	2.308	5.4	19.0
4 11	13 22.79	− 0 26.5	1.308	2.305	3.4	18.8
4 21	13 14.46	+ 0 29.6	1.319	2.302	6.9	19.0
5 1	13 7.20	+ 1 9.3	1.355	2.299	11.4	19.3
5 11	13 1.96	+ 1 28.3	1.412	2.297	15.5	19.5
5 21	12 59.27	+ 1 25.6	1.487	2.296	19.0	19.7

365521 2010 RY_{124} 4 11.9 221°.99 1°.6/10.5 17

3 12	13 45.60	− 6 57.9	1.885	2.755	12.1	22.4
3 22	13 39.68	− 6 8.8	1.806	2.746	8.5	22.2
4 1	13 31.84	− 5 10.7	1.753	2.737	4.5	21.9
4 11	13 22.87	− 4 9.1	1.727	2.727	1.6	21.7
4 21	13 13.73	− 3 10.2	1.730	2.717	5.0	21.9
5 1	13 5.42	− 2 20.4	1.760	2.706	9.1	22.1
5 11	12 58.79	− 1 44.4	1.814	2.694	12.9	22.3
5 21	12 54.33	− 1 24.9	1.889	2.682	16.1	22.5

52740 1998 HB_{113} 4 11.9 358°.11 5°.5/ 6.9 18

3 12	13 43.65	+ 6 19.0	1.922	2.804	11.3	17.5
3 22	13 38.14	+ 6 59.5	1.864	2.803	8.4	17.3
4 1	13 30.92	+ 7 35.2	1.831	2.802	6.0	17.1
4 11	13 22.79	+ 8 0.0	1.825	2.801	5.8	17.1
4 21	13 14.64	+ 8 9.5	1.846	2.801	7.9	17.2
5 1	13 7.37	+ 8 0.9	1.892	2.801	10.8	17.4
5 11	13 1.70	+ 7 33.8	1.960	2.802	13.7	17.6
5 21	12 58.06	+ 6 49.6	2.048	2.803	16.2	17.8

260662 2005 HV_{4} 4 11.9 309°.85 5°.7/ 7.8 17

3 12	13 44.60	+ 2 0.6	1.370	2.264	14.2	19.8
3 22	13 39.57	+ 2 58.0	1.296	2.244	10.3	19.5
4 1	13 32.02	+ 3 56.6	1.245	2.226	6.7	19.2
4 11	13 22.90	+ 4 47.4	1.219	2.207	5.9	19.1
4 21	13 13.46	+ 5 21.9	1.218	2.189	9.1	19.2
5 1	13 5.03	+ 5 33.9	1.240	2.171	13.5	19.4
5 11	12 58.76	+ 5 20.6	1.282	2.154	17.6	19.6
5 21	12 55.27	+ 4 43.1	1.341	2.138	21.3	19.8

512966 2017 SX_{39} 4 11.9 219°.70 0°.6/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 42.90	−10 22.6	2.253	3.112	10.8	21.8
3 22	13 37.54	− 9 20.0	2.168	3.103	7.6	21.6
4 1	13 30.60	− 8 6.2	2.110	3.093	4.0	21.3
4 11	13 22.77	− 6 46.0	2.081	3.083	0.6	21.0
4 21	13 14.82	− 5 25.5	2.082	3.072	3.9	21.3
5 1	13 7.54	− 4 10.9	2.111	3.060	7.6	21.5
5 11	13 1.63	− 3 7.8	2.167	3.048	11.0	21.7
5 21	12 57.54	− 2 19.5	2.245	3.035	13.9	21.9

233721 2008 SE_{143} 4 11.9 332°.28 0°.2/11.7 18

3 12	13 40.64	−11 47.9	1.721	2.592	13.0	19.7
3 22	13 36.29	−10 50.6	1.647	2.586	9.3	19.5
4 1	13 30.05	− 9 38.6	1.597	2.581	5.0	19.2
4 11	13 22.74	− 8 17.6	1.574	2.576	0.4	18.8
4 21	13 15.31	− 6 55.1	1.578	2.571	4.3	19.1
5 1	13 8.75	− 5 39.1	1.609	2.567	8.8	19.4
5 11	13 3.88	− 4 36.5	1.663	2.563	12.7	19.6
5 21	13 1.19	− 3 51.3	1.738	2.560	16.1	19.8

165148 2000 QR_{18} 4 11.9 166°.27 1°.2/10.8 18

3 12	13 46.90	− 7 50.4	1.982	2.846	11.9	21.7
3 22	13 40.41	− 7 1.1	1.915	2.852	8.3	21.5
4 1	13 32.14	− 6 3.1	1.874	2.857	4.4	21.2
4 11	13 22.92	− 5 1.7	1.861	2.862	1.2	21.0
4 21	13 13.69	− 4 2.9	1.878	2.866	4.5	21.2
5 1	13 5.36	− 3 12.4	1.923	2.869	8.5	21.5
5 11	12 58.69	− 2 34.8	1.993	2.871	12.0	21.7
5 21	12 54.13	− 2 12.2	2.084	2.872	14.9	21.9

465428 2008 QY_{43} 4 11.9 250°.87 4°.5/ 7.5 18

3 12	13 46.52	+ 4 11.1	2.285	3.156	10.2	21.3
3 22	13 40.13	+ 4 56.0	2.200	3.135	7.5	21.1
4 1	13 32.04	+ 5 39.4	2.141	3.113	5.1	20.9
4 11	13 22.93	+ 6 16.1	2.111	3.091	4.7	20.9
4 21	13 13.60	+ 6 41.0	2.110	3.068	6.8	21.0
5 1	13 4.92	+ 6 50.8	2.136	3.045	9.8	21.1
5 11	12 57.63	+ 6 43.6	2.187	3.020	12.8	21.3
5 21	12 52.23	+ 6 19.7	2.258	2.995	15.3	21.4

502774 2015 DF_{87} 4 11.9 279°.80 1°.9/10.1 17

3 12	13 42.87	− 5 32.2	1.874	2.751	11.8	21.3
3 22	13 37.72	− 4 45.9	1.803	2.746	8.3	21.0
4 1	13 30.77	− 3 52.5	1.757	2.742	4.4	20.8
4 11	13 22.82	− 2 57.7	1.738	2.737	2.0	20.6
4 21	13 14.75	− 2 7.4	1.747	2.733	5.1	20.8
5 1	13 7.52	− 1 27.3	1.783	2.728	9.1	21.0
5 11	13 1.89	− 1 1.6	1.843	2.724	12.6	21.3
5 21	12 58.34	− 0 51.9	1.923	2.720	15.7	21.4

506223 2016 JN_{33} 4 11.9 296°.19 3°.7/ 8.2 17

3 12	13 41.09	− 3 18.4	1.655	2.543	12.5	21.3
3 22	13 36.69	− 1 48.3	1.582	2.530	8.8	21.0
4 1	13 30.31	− 0 9.7	1.533	2.517	5.0	20.8
4 11	13 22.78	+ 1 28.6	1.511	2.505	3.9	20.7
4 21	13 15.08	+ 2 57.4	1.517	2.492	7.1	20.8
5 1	13 8.23	+ 4 8.4	1.548	2.480	11.2	21.0
5 11	13 3.12	+ 4 56.6	1.601	2.468	15.0	21.2
5 21	13 0.24	+ 5 20.4	1.673	2.456	18.2	21.4

54448 2000 NZ_{2} 4 11.9 10°.85 19°.8/21.7 18

3 12	13 41.81	+30 28.5	1.034	1.896	20.3	17.1
3 22	13 37.93	+33 13.0	1.024	1.898	19.8	17.0
4 1	13 31.11	+35 13.2	1.033	1.901	20.3	17.1
4 11	13 22.84	+36 16.4	1.057	1.905	21.7	17.2
4 21	13 14.79	+36 18.9	1.095	1.911	23.4	17.3
5 1	13 8.52	+35 24.4	1.146	1.917	25.3	17.5
5 11	13 5.01	+33 42.4	1.208	1.925	27.0	17.6
5 21	13 4.60	+31 24.0	1.279	1.934	28.4	17.8

470436 2007 VU_{333} 4 11.9 171°.49 3°.5/16.1 17

3 12	13 42.39	−22 55.4	2.548	3.355	11.4	21.4
3 22	13 37.09	−22 45.0	2.465	3.357	8.9	21.2
4 1	13 30.34	−22 18.8	2.407	3.358	6.2	21.0
4 11	13 22.78	−21 38.1	2.376	3.359	4.0	20.9
4 21	13 15.14	−20 45.9	2.374	3.360	3.9	20.9
5 1	13 8.16	−19 46.9	2.401	3.361	6.1	21.0
5 11	13 2.48	−18 46.7	2.454	3.362	8.8	21.2
5 21	12 58.52	−17 50.4	2.531	3.362	11.4	21.4

413205 2003 BN_{54} 4 11.9 66°.84 2°.6/14.1 18

3 12	13 46.71	−17 35.3	1.548	2.397	15.4	21.0
3 22	13 40.50	−17 15.5	1.502	2.424	11.4	20.8
4 1	13 32.22	−16 36.7	1.479	2.451	6.9	20.6
4 11	13 22.93	−15 43.2	1.481	2.478	3.0	20.4
4 21	13 13.84	−14 41.2	1.510	2.505	4.2	20.6
5 1	13 6.05	−13 38.7	1.566	2.531	8.3	20.9
5 11	13 0.38	−12 43.1	1.646	2.558	12.1	21.2
5 21	12 57.20	−11 59.6	1.746	2.584	15.4	21.4

295211 2008 FT_{124} 4 11.9 147°.94 3°.4/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 43.51	− 2 23.2	1.922	2.801	11.5	21.2
3 22	13 38.03	− 1 2.4	1.864	2.808	8.0	21.0
4 1	13 30.87	+ 0 22.8	1.832	2.814	4.6	20.8
4 11	13 22.84	+ 1 45.1	1.828	2.820	3.6	20.7
4 21	13 14.81	+ 2 57.2	1.853	2.826	6.3	20.9
5 1	13 7.68	+ 3 53.5	1.904	2.831	9.8	21.1
5 11	13 2.14	+ 4 30.5	1.980	2.836	13.0	21.3
5 21	12 58.61	+ 4 47.5	2.075	2.840	15.7	21.5

151014 2001 UB_{113} 4 11.9 197°.30 1°.4/13.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.40	−15 8.5	2.275	3.115	11.4	20.9
3 22	13 39.32	−14 47.6	2.192	3.112	8.4	20.6
4 1	13 31.59	−14 14.1	2.134	3.108	5.0	20.4
4 11	13 22.91	−13 30.5	2.104	3.104	1.7	20.2
4 21	13 14.10	−12 41.0	2.104	3.099	3.3	20.3
5 1	13 6.02	−11 50.6	2.133	3.093	6.9	20.5
5 11	12 59.38	−11 4.6	2.189	3.087	10.2	20.7
5 21	12 54.65	−10 27.2	2.267	3.080	13.1	20.9

141422 2002 BU_{29} 4 11.9 17°.26 4°.3/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.96	+ 2 59.5	1.933	2.815	11.3	19.2
3 22	13 38.34	+ 3 28.3	1.876	2.818	8.1	19.0
4 1	13 31.04	+ 3 54.9	1.845	2.822	5.2	18.8
4 11	13 22.86	+ 4 14.0	1.840	2.827	4.4	18.8
4 21	13 14.68	+ 4 21.4	1.863	2.831	6.7	18.9
5 1	13 7.39	+ 4 14.3	1.912	2.837	9.8	19.1
5 11	13 1.70	+ 3 51.7	1.984	2.842	12.9	19.3
5 21	12 58.03	+ 3 14.4	2.076	2.848	15.5	19.5

363756 2005 BE_{25} 4 11.9 32°.06 6°.5/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.63	+ 2 17.4	1.140	2.043	15.6	19.9
3 22	13 38.79	+ 3 36.6	1.102	2.054	11.2	19.7
4 1	13 31.47	+ 4 54.0	1.085	2.065	7.4	19.5
4 11	13 22.90	+ 5 58.3	1.091	2.077	6.9	19.5
4 21	13 14.46	+ 6 40.5	1.121	2.090	10.0	19.7
5 1	13 7.50	+ 6 55.2	1.173	2.104	14.1	20.0
5 11	13 2.94	+ 6 42.0	1.244	2.118	18.0	20.2
5 21	13 1.18	+ 6 3.8	1.332	2.133	21.1	20.5

22621 Larrybartel 4 11.9 269°.15 2°.5/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.05	− 3 40.7	1.870	2.748	11.8	19.2
3 22	13 38.58	− 3 0.7	1.797	2.740	8.3	18.9
4 1	13 31.27	− 2 15.7	1.749	2.733	4.5	18.7
4 11	13 22.89	− 1 31.1	1.728	2.726	2.5	18.5
4 21	13 14.38	− 0 52.5	1.736	2.719	5.5	18.7
5 1	13 6.70	− 0 25.0	1.769	2.711	9.4	18.9
5 11	13 0.65	− 0 12.0	1.827	2.704	12.9	19.1
5 21	12 56.72	− 0 15.0	1.905	2.697	16.0	19.3

384259 2009 EB_{28} 4 11.9 310°.51 2°.3/14.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.61	−17 37.0	2.078	2.919	12.3	20.3
3 22	13 36.81	−17 17.6	1.995	2.913	9.2	20.0
4 1	13 30.30	−16 42.7	1.937	2.907	5.8	19.8
4 11	13 22.81	−15 54.8	1.905	2.902	2.6	19.6
4 21	13 15.18	−14 58.3	1.902	2.896	3.6	19.6
5 1	13 8.28	−13 58.9	1.926	2.891	7.1	19.8
5 11	13 2.87	−13 3.0	1.975	2.885	10.5	20.0
5 21	12 59.43	−12 15.5	2.047	2.880	13.6	20.2

283401 2000 SV_{15} 4 11.9 283°.33 3°.5/18.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 37.70	−28 16.6	4.421	5.180	7.7	19.8
3 22	13 33.42	−28 25.4	4.322	5.172	6.3	19.7
4 1	13 28.28	−28 23.6	4.248	5.163	4.9	19.6
4 11	13 22.64	−28 11.4	4.201	5.155	3.8	19.5
4 21	13 16.91	−27 50.1	4.183	5.147	3.5	19.5
5 1	13 11.51	−27 21.4	4.194	5.138	4.3	19.6
5 11	13 6.81	−26 48.1	4.232	5.130	5.7	19.6
5 21	13 3.12	−26 12.9	4.296	5.121	7.2	19.7

35303 1996 XR_{6} 4 11.9 291°.89 2°.2/13.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.48	−15 7.7	1.727	2.580	13.9	19.2
3 22	13 39.95	−15 11.0	1.638	2.564	10.3	19.0
4 1	13 32.18	−14 59.8	1.573	2.548	6.3	18.7
4 11	13 22.99	−14 35.6	1.533	2.532	2.5	18.4
4 21	13 13.43	−14 2.4	1.521	2.516	4.2	18.5
5 1	13 4.69	−13 25.8	1.535	2.500	8.5	18.7
5 11	12 57.77	−12 52.3	1.574	2.484	12.7	18.9
5 21	12 53.33	−12 27.2	1.633	2.468	16.4	19.1

16767 1996 US 4 11.9 242°.87 0°.1/12.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.85	−10 33.5	2.231	3.085	11.1	19.3
3 22	13 39.75	−10 11.7	2.137	3.068	8.0	19.0
4 1	13 31.90	− 9 40.3	2.069	3.050	4.3	18.8
4 11	13 22.96	− 9 2.4	2.029	3.031	0.4	18.4
4 21	13 13.78	− 8 22.0	2.019	3.012	3.6	18.7
5 1	13 5.23	− 7 44.1	2.038	2.992	7.5	18.9
5 11	12 58.10	− 7 13.2	2.083	2.972	11.1	19.0
5 21	12 52.91	− 6 52.6	2.150	2.951	14.1	19.2

30091 2000 EY_{130} 4 11.9 295°.93 1°.8/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 45.08	− 7 18.8	1.282	2.169	15.4	18.6
3 22	13 40.13	− 6 36.1	1.204	2.152	11.0	18.3
4 1	13 32.45	− 5 40.4	1.149	2.135	5.9	17.9
4 11	13 23.03	− 4 38.6	1.117	2.118	1.8	17.6
4 21	13 13.21	− 3 39.2	1.111	2.101	6.3	17.8
5 1	13 4.46	− 2 51.4	1.128	2.085	11.8	18.1
5 11	12 58.01	− 2 22.2	1.167	2.069	16.8	18.3
5 21	12 54.56	− 2 14.8	1.223	2.053	21.1	18.5

491616 2012 TJ_{64} 4 11.9 203°.00 2°.3/14.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.48	−17 4.8	2.304	3.138	11.5	21.2
3 22	13 38.69	−17 2.2	2.221	3.135	8.6	21.0
4 1	13 31.28	−16 46.6	2.164	3.133	5.4	20.8
4 11	13 22.92	−16 19.9	2.135	3.130	2.6	20.6
4 21	13 14.43	−15 45.1	2.134	3.127	3.4	20.7
5 1	13 6.63	−15 6.6	2.162	3.123	6.6	20.8
5 11	13 0.25	−14 29.6	2.216	3.120	9.8	21.0
5 21	12 55.74	−13 58.3	2.293	3.116	12.7	21.2

146936 2002 DE_{6} 4 11.9 114°.61 6°.3/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 43.83	−33 9.3	2.672	3.413	12.6	19.8
3 22	13 38.14	−33 18.7	2.596	3.426	10.6	19.7
4 1	13 30.93	−33 7.8	2.541	3.438	8.6	19.6
4 11	13 22.89	−32 36.3	2.512	3.450	6.9	19.5
4 21	13 14.80	−31 46.4	2.509	3.461	6.3	19.5
5 1	13 7.47	−30 42.2	2.534	3.473	7.1	19.5
5 11	13 1.55	−29 29.9	2.586	3.484	8.8	19.7
5 21	12 57.46	−28 15.7	2.661	3.495	10.8	19.8

519001 2010 JQ_{69} 4 11.9 347°.13 7°.7/21.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 39.70	−34 49.4	1.890	2.650	16.4	20.4
3 22	13 35.80	−34 27.5	1.801	2.644	14.0	20.2
4 1	13 29.88	−33 34.1	1.732	2.638	11.3	20.0
4 11	13 22.80	−32 8.8	1.685	2.633	8.9	19.8
4 21	13 15.61	−30 15.2	1.664	2.628	7.7	19.8
5 1	13 9.37	−28 1.7	1.669	2.625	8.8	19.8
5 11	13 4.96	−25 39.6	1.700	2.621	11.3	19.9
5 21	13 2.86	−23 20.1	1.755	2.619	14.1	20.1

118507 2000 DV_{81} 4 11.9 182°.81 2°.7/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 48.55	− 4 0.9	1.689	2.564	13.0	19.9
3 22	13 41.86	− 3 11.0	1.623	2.565	9.2	19.7
4 1	13 33.06	− 2 14.9	1.581	2.565	5.0	19.5
4 11	13 23.08	− 1 19.2	1.567	2.565	2.8	19.3
4 21	13 13.02	− 0 30.6	1.581	2.564	6.0	19.5
5 1	13 4.01	+ 0 5.0	1.622	2.562	10.2	19.7
5 11	12 56.93	+ 0 23.8	1.686	2.559	14.0	20.0
5 21	12 52.29	+ 0 24.6	1.770	2.556	17.3	20.2

483349 2016 QW_{80} 4 11.9 254°.12 3°.6/16.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.73	−23 16.6	2.509	3.316	11.5	20.8
3 22	13 36.74	−23 2.1	2.414	3.305	9.1	20.6
4 1	13 30.24	−22 30.9	2.342	3.293	6.4	20.4
4 11	13 22.84	−21 44.0	2.298	3.281	4.1	20.3
4 21	13 15.28	−20 44.7	2.282	3.269	4.0	20.2
5 1	13 8.33	−19 37.7	2.295	3.257	6.3	20.4
5 11	13 2.66	−18 29.1	2.335	3.244	9.2	20.5
5 21	12 58.73	−17 24.4	2.398	3.231	11.8	20.7

127068 2002 GG_{57} 4 11.9 66°.68 6°.5/17.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.80	−27 32.6	1.854	2.650	15.4	19.3
3 22	13 40.07	−27 56.8	1.778	2.654	12.6	19.1
4 1	13 32.18	−27 57.9	1.724	2.657	9.6	18.9
4 11	13 23.01	−27 35.0	1.695	2.661	7.2	18.8
4 21	13 13.67	−26 50.8	1.691	2.665	6.7	18.8
5 1	13 5.30	−25 50.9	1.713	2.669	8.6	18.9
5 11	12 58.84	−24 43.6	1.760	2.672	11.5	19.1
5 21	12 54.85	−23 37.1	1.829	2.676	14.4	19.3

41867 2000 WB_{99} 4 11.9 85°.89 0°.5/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.01	−11 53.7	1.834	2.696	12.8	19.7
3 22	13 38.57	−11 28.0	1.766	2.699	9.1	19.5
4 1	13 31.26	−10 50.2	1.721	2.703	5.0	19.3
4 11	13 22.93	−10 4.3	1.704	2.706	0.8	18.9
4 21	13 14.52	− 9 15.8	1.714	2.709	3.9	19.2
5 1	13 7.03	− 8 30.4	1.752	2.712	8.1	19.4
5 11	13 1.23	− 7 53.8	1.814	2.715	11.8	19.7
5 21	12 57.60	− 7 29.3	1.898	2.718	15.0	19.9

357970 2006 BE_{96} 4 11.9 294°.84 4°.3/14.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 47.63	−18 23.1	1.380	2.231	16.8	20.2
3 22	13 41.98	−18 46.8	1.298	2.219	12.9	20.0
4 1	13 33.49	−18 50.8	1.238	2.207	8.5	19.7
4 11	13 23.14	−18 35.0	1.202	2.195	4.7	19.4
4 21	13 12.32	−18 2.6	1.191	2.183	5.6	19.4
5 1	13 2.56	−17 20.3	1.204	2.172	10.0	19.6
5 11	12 55.17	−16 37.3	1.240	2.160	14.6	19.9
5 21	12 50.89	−16 1.4	1.296	2.149	18.8	20.1

380549 2004 OJ_4 4 11.9 278°.96 2°.9/ 9.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 46.02	− 2 45.1	1.935	2.810	11.6	21.3
3 22	13 40.18	− 1 59.6	1.837	2.778	8.3	21.0
4 1	13 32.28	− 1 8.4	1.763	2.746	4.7	20.7
4 11	13 23.04	− 0 17.0	1.718	2.714	3.0	20.5
4 21	13 13.38	+ 0 28.5	1.701	2.681	6.0	20.7
5 1	13 4.34	+ 1 2.3	1.711	2.647	10.1	20.8
5 11	12 56.87	+ 1 20.2	1.745	2.612	13.9	21.0
5 21	12 51.59	+ 1 20.3	1.799	2.578	17.3	21.1

463741 2014 QP_{397} 4 11.9 293°.43 2°.4/ 9.9 16

3 12	13 43.04	− 7 18.9	1.387	2.273	14.5	21.4
3 22	13 38.36	− 6 2.1	1.318	2.266	10.2	21.1
4 1	13 31.34	− 4 31.7	1.272	2.259	5.4	20.8
4 11	13 22.95	− 2 56.5	1.252	2.252	2.4	20.6
4 21	13 14.38	− 1 26.7	1.258	2.245	6.5	20.8
5 1	13 6.89	− 0 12.1	1.289	2.238	11.4	21.1
5 11	13 1.50	+ 0 40.3	1.341	2.232	15.8	21.3
5 21	12 58.74	+ 1 8.0	1.412	2.225	19.6	21.6

209893 2005 LZ_{25} 4 11.9 266°.13 4°.0/ 7.5 17

3 12	13 41.25	+ 1 10.3	2.147	3.029	10.3	20.1
3 22	13 36.40	+ 2 17.6	2.080	3.023	7.4	19.9
4 1	13 30.04	+ 3 26.2	2.039	3.017	4.7	19.8
4 11	13 22.83	+ 4 29.8	2.026	3.011	4.2	19.7
4 21	13 15.54	+ 5 22.5	2.040	3.005	6.5	19.8
5 1	13 8.97	+ 5 59.9	2.082	2.999	9.6	20.0
5 11	13 3.76	+ 6 19.3	2.147	2.993	12.5	20.2
5 21	13 0.34	+ 6 20.4	2.231	2.986	15.0	20.4

505394 2013 PE_{57} 4 11.9 238°.76 4°.8/ 6.8 17

3 12	13 42.85	+ 0 28.4	1.825	2.709	11.7	21.7
3 22	13 37.78	+ 2 10.0	1.755	2.700	8.4	21.5
4 1	13 30.88	+ 3 55.8	1.712	2.690	5.5	21.3
4 11	13 22.91	+ 5 36.6	1.696	2.679	5.2	21.2
4 21	13 14.80	+ 7 3.8	1.708	2.669	7.9	21.4
5 1	13 7.52	+ 8 10.5	1.746	2.657	11.4	21.5
5 11	13 1.87	+ 8 53.0	1.806	2.646	14.8	21.7
5 21	12 58.33	+ 9 10.9	1.885	2.634	17.6	21.9

94543 2001 UX_{174} 4 11.9 249°.98 0°.1/12.0 18

3 12	13 46.31	−11 27.0	1.497	2.366	14.7	20.4
3 22	13 40.67	−10 53.2	1.419	2.357	10.6	20.1
4 1	13 32.61	−10 4.2	1.364	2.347	5.8	19.8
4 11	13 23.07	− 9 4.8	1.335	2.337	0.6	19.4
4 21	13 13.25	− 8 2.0	1.333	2.327	4.8	19.7
5 1	13 4.46	− 7 4.1	1.356	2.316	9.9	19.9
5 11	12 57.76	− 6 18.3	1.403	2.305	14.5	20.2
5 21	12 53.76	− 5 49.3	1.468	2.294	18.3	20.4

383191 2005 XG_{111} 4 11.9 245°.76 1°.2/10.7 17

3 12	13 43.11	− 7 20.9	1.989	2.860	11.5	21.4
3 22	13 37.86	− 6 38.8	1.914	2.854	8.1	21.2
4 1	13 30.88	− 5 48.4	1.864	2.848	4.3	20.9
4 11	13 22.91	− 4 54.6	1.841	2.842	1.3	20.7
4 21	13 14.82	− 4 3.1	1.847	2.836	4.5	20.9
5 1	13 7.51	− 3 19.3	1.880	2.830	8.4	21.1
5 11	13 1.73	− 2 47.7	1.938	2.823	11.9	21.3
5 21	12 57.93	− 2 30.7	2.017	2.817	15.0	21.5

300260 2007 HJ_{24} 4 11.9 222°.91 4°.1/ 9.2 17

3 12	13 49.04	− 0 36.1	1.432	2.316	14.3	21.1
3 22	13 42.53	+ 0 3.3	1.367	2.313	10.2	20.9
4 1	13 33.56	+ 0 45.1	1.326	2.309	6.0	20.6
4 11	13 23.15	+ 1 21.9	1.311	2.305	4.2	20.5
4 21	13 12.61	+ 1 47.0	1.322	2.301	7.5	20.7
5 1	13 3.26	+ 1 55.1	1.359	2.297	11.9	20.9
5 11	12 56.14	+ 1 43.8	1.417	2.293	16.0	21.1
5 21	12 51.81	+ 1 13.3	1.493	2.288	19.5	21.4

351602 2005 VU_{87} 4 11.9 292°.82 1°.7/10.0 17

3 12	13 40.77	− 5 16.9	2.277	3.150	10.2	20.9
3 22	13 36.06	− 4 33.2	2.196	3.138	7.1	20.7
4 1	13 29.88	− 3 43.6	2.141	3.125	3.8	20.5
4 11	13 22.84	− 2 52.7	2.114	3.113	1.8	20.3
4 21	13 15.66	− 2 5.3	2.116	3.101	4.5	20.5
5 1	13 9.11	− 1 26.2	2.146	3.089	7.9	20.7
5 11	13 3.83	− 0 59.0	2.200	3.077	11.1	20.8
5 21	13 0.27	− 0 45.6	2.276	3.065	13.8	21.0

146202 2000 UO_{34} 4 11.9 180°.65 0°.9/13.2 18

3 12	13 41.31	−14 23.6	2.922	3.762	9.2	20.7
3 22	13 36.15	−13 55.1	2.841	3.762	6.7	20.5
4 1	13 29.81	−13 17.1	2.788	3.763	3.9	20.4
4 11	13 22.83	−12 32.0	2.763	3.763	1.2	20.2
4 21	13 15.79	−11 43.3	2.768	3.763	2.6	20.3
5 1	13 9.30	−10 54.9	2.803	3.762	5.5	20.5
5 11	13 3.88	−10 10.6	2.866	3.761	8.2	20.6
5 21	12 59.87	− 9 33.5	2.952	3.759	10.5	20.8

268969 2007 EZ_{24} 4 11.9 32°.67 1°.3/12.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 48.70	−11 13.5	1.509	2.375	14.8	20.0
3 22	13 42.20	−11 37.4	1.448	2.382	10.7	19.8
4 1	13 33.34	−11 50.4	1.409	2.390	6.1	19.5
4 11	13 23.14	−11 54.6	1.397	2.398	1.6	19.2
4 21	13 12.86	−11 53.1	1.412	2.407	4.4	19.4
5 1	13 3.77	−11 50.6	1.452	2.416	9.0	19.7
5 11	12 56.86	−11 51.9	1.517	2.426	13.2	20.0
5 21	12 52.65	−12 0.6	1.601	2.436	16.7	20.2

432023 2008 VB_{52} 4 11.9 271°.53 0°.9/11.1 17

3 12	13 42.37	− 8 57.5	1.922	2.791	11.9	21.5
3 22	13 37.43	− 8 9.3	1.842	2.782	8.4	21.2
4 1	13 30.69	− 7 10.5	1.788	2.772	4.4	21.0
4 11	13 22.92	− 6 6.3	1.760	2.762	0.9	20.7
4 21	13 14.98	− 5 2.7	1.761	2.752	4.4	20.9
5 1	13 7.81	− 4 6.2	1.790	2.742	8.5	21.1
5 11	13 2.20	− 3 22.1	1.842	2.732	12.2	21.3
5 21	12 58.64	− 2 53.6	1.916	2.722	15.4	21.5

312177 2007 VV_5 4 11.9 177°.19 0°.7/12.6 16

3 12	13 46.96	−13 4.4	2.031	2.880	12.2	22.3
3 22	13 40.53	−12 31.2	1.956	2.883	8.8	22.1
4 1	13 32.30	−11 45.4	1.906	2.885	4.9	21.8
4 11	13 23.06	−10 50.6	1.885	2.886	1.0	21.5
4 21	13 13.73	− 9 52.1	1.892	2.886	3.6	21.7
5 1	13 5.28	− 8 55.9	1.929	2.886	7.7	22.0
5 11	12 58.46	− 8 7.7	1.991	2.885	11.3	22.2
5 21	12 53.76	− 7 31.2	2.076	2.883	14.3	22.4

141163 2001 XY_{128} 4 11.9 271°.47 1°.4/10.5 17

3 12	13 42.43	− 6 21.2	2.366	3.233	10.1	20.5
3 22	13 37.27	− 5 40.6	2.272	3.211	7.1	20.2
4 1	13 30.56	− 4 53.2	2.204	3.188	3.8	20.0
4 11	13 22.92	− 4 3.0	2.164	3.165	1.4	19.8
4 21	13 15.05	− 3 14.8	2.154	3.141	4.2	19.9
5 1	13 7.73	− 2 33.1	2.173	3.117	7.7	20.1
5 11	13 1.66	− 2 2.2	2.216	3.093	11.0	20.3
5 21	12 57.32	− 1 44.3	2.282	3.069	13.8	20.4

182796 2002 AS_{56} 4 11.9 107°.27 4°.4/ 6.8 18

3 12	13 40.90	+ 3 26.7	2.306	3.187	9.7	20.3
3 22	13 36.04	+ 4 32.2	2.248	3.188	7.1	20.1
4 1	13 29.81	+ 5 36.4	2.217	3.190	4.8	20.0
4 11	13 22.86	+ 6 33.5	2.213	3.192	4.6	19.9
4 21	13 15.89	+ 7 18.6	2.238	3.194	6.6	20.1
5 1	13 9.61	+ 7 47.9	2.289	3.196	9.3	20.2
5 11	13 4.62	+ 7 59.9	2.364	3.198	11.9	20.4
5 21	13 1.29	+ 7 54.5	2.459	3.200	14.1	20.6

334750 2003 QB_{74} 4 11.9 196°.45 5°.2/17.6 17

3 12	13 45.82	−27 25.8	2.501	3.279	12.4	21.4
3 22	13 39.69	−27 36.9	2.411	3.276	10.1	21.2
4 1	13 31.87	−27 29.8	2.345	3.273	7.6	21.1
4 11	13 23.05	−27 4.2	2.305	3.269	5.7	20.9
4 21	13 14.05	−26 22.1	2.293	3.265	5.3	20.9
5 1	13 5.74	−25 27.8	2.309	3.260	6.9	21.0
5 11	12 58.87	−24 27.3	2.352	3.255	9.4	21.1
5 21	12 53.92	−23 26.7	2.419	3.249	11.9	21.3

297006 2010 FN_{54} 4 11.9 204°.08 1°.1/10.8 17

3 12	13 42.38	− 7 29.1	2.238	3.105	10.6	21.5
3 22	13 37.18	− 6 48.0	2.165	3.103	7.4	21.3
4 1	13 30.47	− 5 59.6	2.117	3.101	3.9	21.0
4 11	13 22.92	− 5 8.2	2.098	3.099	1.1	20.8
4 21	13 15.30	− 4 18.8	2.108	3.097	4.0	21.0
5 1	13 8.38	− 3 36.3	2.146	3.094	7.6	21.3
5 11	13 2.81	− 3 4.4	2.209	3.091	10.8	21.5
5 21	12 59.03	− 2 45.5	2.294	3.088	13.5	21.6

140650 2001 UZ_{31} 4 11.9 291°.30 3°.4/ 8.1 18

3 12	13 40.61	− 1 24.3	2.070	2.952	10.6	19.5
3 22	13 36.06	− 0 13.4	1.996	2.941	7.5	19.3
4 1	13 29.93	+ 1 1.6	1.948	2.930	4.5	19.1
4 11	13 22.88	+ 2 14.2	1.929	2.919	3.6	19.0
4 21	13 15.72	+ 3 18.0	1.937	2.909	6.2	19.1
5 1	13 9.25	+ 4 7.5	1.972	2.898	9.5	19.3
5 11	13 4.18	+ 4 39.3	2.030	2.887	12.7	19.5
5 21	13 0.94	+ 4 52.2	2.108	2.877	15.4	19.7

286640 2002 EO_{47} 4 11.9 95°.79 0°.1/11.9 18

3 12	13 47.90	−11 15.8	1.540	2.406	14.6	21.2
3 22	13 41.36	−10 31.5	1.492	2.428	10.3	21.0
4 1	13 32.75	− 9 34.0	1.467	2.450	5.5	20.7
4 11	13 23.12	− 8 29.4	1.469	2.471	0.5	20.4
4 21	13 13.66	− 7 25.1	1.499	2.492	4.5	20.8
5 1	13 5.48	− 6 28.4	1.555	2.512	9.1	21.1
5 11	12 59.41	− 5 45.2	1.635	2.532	13.1	21.4
5 21	12 55.84	− 5 18.3	1.735	2.551	16.4	21.6

455261 2001 UO_{178} 4 11.9 197°.55 4°.1/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 47.54	− 0 18.1	1.791	2.668	12.3	22.0
3 22	13 41.11	+ 0 47.5	1.723	2.665	8.7	21.8
4 1	13 32.68	+ 1 56.0	1.681	2.661	5.3	21.6
4 11	13 23.13	+ 3 0.2	1.667	2.657	4.3	21.5
4 21	13 13.48	+ 3 52.9	1.681	2.652	7.1	21.7
5 1	13 4.78	+ 4 28.7	1.721	2.646	10.8	21.9
5 11	12 57.88	+ 4 44.6	1.785	2.639	14.3	22.1
5 21	12 53.28	+ 4 40.5	1.868	2.631	17.2	22.3

437748 2014 FS_{11} 4 11.9 120°.64 1°.4/10.2 17

3 12	13 40.83	− 6 32.2	2.670	3.535	9.1	21.5
3 22	13 35.81	− 5 34.8	2.610	3.549	6.3	21.3
4 1	13 29.62	− 4 32.2	2.579	3.563	3.3	21.1
4 11	13 22.85	− 3 28.6	2.576	3.576	1.4	21.0
4 21	13 16.12	− 2 28.6	2.604	3.589	3.8	21.2
5 1	13 10.01	− 1 36.4	2.661	3.601	6.7	21.4
5 11	13 5.05	− 0 55.2	2.744	3.614	9.3	21.6
5 21	13 1.55	− 0 26.7	2.849	3.626	11.6	21.8

378672 2008 HD_{13} 4 11.9 313°.70 0°.4/11.3 18

3 12	13 36.71	− 7 51.6	3.879	4.738	6.7	20.7
3 22	13 32.76	− 7 33.1	3.792	4.726	4.7	20.6
4 1	13 27.97	− 7 10.7	3.732	4.715	2.5	20.4
4 11	13 22.72	− 6 46.4	3.701	4.703	0.4	20.2
4 21	13 17.39	− 6 22.4	3.701	4.692	2.3	20.4
5 1	13 12.41	− 6 1.0	3.731	4.681	4.6	20.5
5 11	13 8.14	− 5 44.2	3.787	4.670	6.7	20.6
5 21	13 4.85	− 5 33.5	3.868	4.659	8.5	20.8

387604 2002 CX_{181} 4 11.9 124°.54 2°.0/ 9.4 17

3 12	13 41.50	− 3 17.7	2.650	3.520	9.0	21.7
3 22	13 36.28	− 2 30.7	2.592	3.532	6.3	21.5
4 1	13 29.89	− 1 40.8	2.561	3.543	3.4	21.3
4 11	13 22.89	− 0 52.1	2.559	3.555	2.1	21.2
4 21	13 15.91	− 0 8.8	2.586	3.566	4.3	21.4
5 1	13 9.57	+ 0 25.6	2.643	3.576	7.1	21.6
5 11	13 4.39	+ 0 48.7	2.725	3.587	9.7	21.8
5 21	13 0.69	+ 0 59.3	2.829	3.597	11.9	22.0

106388 2000 VV_{17} 4 11.9 41°.84 5°.9/ 6.1 18

3 12	13 44.67	+ 9 46.3	2.250	3.122	10.3	19.4
3 22	13 38.70	+10 24.4	2.196	3.125	7.9	19.2
4 1	13 31.24	+10 55.4	2.168	3.127	6.2	19.1
4 11	13 23.02	+11 14.2	2.168	3.130	6.2	19.1
4 21	13 14.82	+11 17.0	2.194	3.133	7.9	19.2
5 1	13 7.42	+11 2.2	2.247	3.135	10.3	19.4
5 11	13 1.46	+10 29.8	2.323	3.138	12.7	19.6
5 21	12 57.32	+ 9 41.7	2.418	3.141	14.8	19.7

341735 2007 VQ_{245} 4 11.9 18°.31 4°.9/17.0 17

3 12	13 43.04	−25 10.2	2.101	2.906	13.5	20.5
3 22	13 37.90	−25 11.6	2.021	2.906	10.8	20.3
4 1	13 30.97	−24 52.9	1.963	2.907	7.9	20.1
4 11	13 23.00	−24 14.8	1.931	2.908	5.4	20.0
4 21	13 14.90	−23 20.7	1.926	2.909	5.1	20.0
5 1	13 7.61	−22 16.0	1.949	2.910	7.3	20.1
5 11	13 1.91	−21 7.9	1.997	2.910	10.2	20.3
5 21	12 58.28	−20 3.1	2.068	2.912	13.1	20.5

302855 2003 GX_{27} 4 11.9 297°.21 0°.8/10.9 18

3 12	13 39.37	−10 7.8	2.185	3.052	10.8	20.8
3 22	13 35.16	− 8 55.1	2.101	3.040	7.6	20.6
4 1	13 29.44	− 7 30.6	2.044	3.028	4.0	20.3
4 11	13 22.86	− 5 59.9	2.015	3.016	0.8	20.1
4 21	13 16.17	− 4 29.4	2.015	3.005	4.1	20.3
5 1	13 10.12	− 3 6.2	2.044	2.993	7.8	20.5
5 11	13 5.38	− 1 55.8	2.098	2.982	11.2	20.7
5 21	13 2.39	− 1 1.8	2.173	2.971	14.1	20.9

181590 2006 VU_{138} 4 11.9 300°.67 1°.0/10.9 17

3 12	13 41.83	− 7 31.9	2.094	2.964	11.0	20.2
3 22	13 36.97	− 6 59.3	2.010	2.950	7.8	19.9
4 1	13 30.46	− 6 18.7	1.951	2.936	4.1	19.7
4 11	13 22.96	− 5 34.6	1.921	2.922	1.0	19.4
4 21	13 15.28	− 4 51.7	1.918	2.908	4.2	19.6
5 1	13 8.27	− 4 15.0	1.943	2.894	8.0	19.8
5 11	13 2.67	− 3 48.9	1.992	2.881	11.5	20.0
5 21	12 58.95	− 3 35.7	2.063	2.868	14.5	20.2

222571 2001 VT_{107} 4 11.9 280°.60 5°.0/16.5 18

3 12	13 43.74	−24 14.9	1.763	2.582	15.2	19.7
3 22	13 38.77	−24 6.9	1.673	2.569	12.0	19.5
4 1	13 31.60	−23 35.1	1.605	2.557	8.6	19.3
4 11	13 23.07	−22 40.2	1.561	2.544	5.6	19.0
4 21	13 14.26	−21 26.1	1.544	2.531	5.4	19.0
5 1	13 6.31	−20 0.2	1.554	2.519	8.4	19.1
5 11	13 0.22	−18 32.0	1.588	2.506	12.1	19.3
5 21	12 56.59	−17 10.2	1.644	2.493	15.6	19.5

150900 2001 SL_{315} 4 11.9 132°.51 5°.7/16.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 49.75	−24 52.0	1.976	2.776	14.5	19.7
3 22	13 42.76	−25 28.7	1.903	2.784	11.6	19.5
4 1	13 33.64	−25 45.8	1.852	2.792	8.6	19.4
4 11	13 23.25	−25 42.5	1.827	2.800	6.2	19.2
4 21	13 12.70	−25 20.7	1.830	2.807	6.0	19.2
5 1	13 3.10	−24 44.9	1.860	2.814	8.1	19.4
5 11	12 55.38	−24 2.2	1.916	2.820	11.1	19.6
5 21	12 50.10	−23 19.3	1.993	2.827	13.9	19.7

443736 2015 LK_{23} 4 11.9 22°.71 3°.7/15.8 17

3 12	13 40.50	−21 57.0	1.831	2.663	14.1	19.8
3 22	13 36.18	−21 30.5	1.761	2.669	10.9	19.6
4 1	13 30.05	−20 42.9	1.715	2.676	7.3	19.4
4 11	13 22.93	−19 37.0	1.693	2.683	4.2	19.3
4 21	13 15.77	−18 18.3	1.698	2.690	4.3	19.3
5 1	13 9.52	−16 54.5	1.731	2.699	7.4	19.5
5 11	13 4.94	−15 33.8	1.788	2.707	10.9	19.7
5 21	13 2.49	−14 22.7	1.868	2.716	14.1	19.9

339523 2005 GH_{173} 4 11.9 188°.12 2°.1/ 9.6 17

3 12	13 43.14	− 3 10.3	2.462	3.332	9.6	21.1
3 22	13 37.60	− 2 31.4	2.391	3.331	6.7	20.9
4 1	13 30.67	− 1 49.3	2.347	3.330	3.7	20.7
4 11	13 22.99	− 1 8.0	2.332	3.329	2.2	20.6
4 21	13 15.26	− 0 31.8	2.347	3.327	4.5	20.8
5 1	13 8.17	− 0 4.5	2.390	3.325	7.6	20.9
5 11	13 2.35	+ 0 11.3	2.458	3.323	10.5	21.1
5 21	12 58.16	+ 0 14.4	2.548	3.320	12.9	21.3

79118 1989 GY_5 4 11.9 264°.26 1°.8/13.9 18

3 12	13 41.50	−16 55.7	2.222	3.064	11.6	18.8
3 22	13 36.69	−16 23.6	2.136	3.055	8.6	18.6
4 1	13 30.28	−15 36.8	2.075	3.047	5.3	18.3
4 11	13 22.96	−14 38.0	2.040	3.038	2.1	18.1
4 21	13 15.49	−13 31.9	2.035	3.030	3.3	18.2
5 1	13 8.71	−12 24.3	2.058	3.021	6.8	18.4
5 11	13 3.30	−11 21.4	2.107	3.013	10.2	18.6
5 21	12 59.73	−10 27.9	2.179	3.004	13.2	18.7

239058 2006 FW_9 4 11.9 263°.32 0°.2/11.7 17

3 12	13 43.47	− 9 59.8	1.940	2.806	12.0	21.0
3 22	13 38.19	− 9 28.8	1.864	2.801	8.5	20.8
4 1	13 31.13	− 8 47.5	1.812	2.795	4.6	20.5
4 11	13 23.04	− 8 0.2	1.788	2.790	0.4	20.2
4 21	13 14.81	− 7 11.9	1.792	2.785	4.0	20.5
5 1	13 7.38	− 6 28.5	1.824	2.780	8.1	20.7
5 11	13 1.52	− 5 54.7	1.880	2.775	11.8	20.9
5 21	12 57.73	− 5 33.8	1.957	2.769	14.9	21.1

508725 2017 UV_{27} 4 11.9 302°.18 1°.7/10.3 17

3 12	13 41.98	− 6 52.3	1.897	2.772	11.8	20.9
3 22	13 37.12	− 5 56.4	1.827	2.770	8.2	20.7
4 1	13 30.54	− 4 52.0	1.782	2.767	4.3	20.4
4 11	13 22.99	− 3 44.9	1.765	2.765	1.7	20.3
4 21	13 15.36	− 2 41.5	1.776	2.763	4.9	20.5
5 1	13 8.54	− 1 48.1	1.813	2.761	8.8	20.7
5 11	13 3.28	− 1 9.2	1.875	2.758	12.4	20.9
5 21	13 0.04	− 0 47.2	1.957	2.756	15.4	21.1

125281 2001 VZ_{14} 4 11.9 166°.66 3°.5/14.8 18

3 12	13 47.97	−19 40.4	1.647	2.483	15.3	19.9
3 22	13 41.70	−19 31.9	1.574	2.487	11.6	19.7
4 1	13 33.14	−19 2.9	1.524	2.490	7.6	19.4
4 11	13 23.24	−18 15.3	1.499	2.492	4.0	19.2
4 21	13 13.21	−17 14.3	1.502	2.494	4.7	19.3
5 1	13 4.26	−16 7.3	1.531	2.496	8.5	19.5
5 11	12 57.38	−15 2.9	1.585	2.497	12.5	19.7
5 21	12 53.11	−14 8.1	1.660	2.497	16.0	20.0

295114 2008 FD_6 4 11.9 127°.97 7°.1/20.9 18

3 12	13 46.82	−35 59.3	2.849	3.561	12.5	21.2
3 22	13 40.34	−36 35.5	2.770	3.572	10.8	21.1
4 1	13 32.23	−36 51.8	2.713	3.583	9.0	20.9
4 11	13 23.16	−36 47.1	2.681	3.594	7.6	20.9
4 21	13 13.96	−36 22.1	2.676	3.604	7.1	20.8
5 1	13 5.47	−35 40.0	2.697	3.614	7.6	20.9
5 11	12 58.42	−34 46.0	2.744	3.624	9.0	21.0
5 21	12 53.26	−33 46.2	2.815	3.634	10.7	21.1

85221 1993 FX_{13} 4 11.9 263°.61 3°.2/ 9.3 17

3 12	13 45.52	− 4 15.5	1.491	2.375	13.9	19.7
3 22	13 40.15	− 3 8.5	1.413	2.360	9.8	19.5
4 1	13 32.40	− 1 52.1	1.359	2.344	5.4	19.2
4 11	13 23.19	− 0 34.2	1.331	2.328	3.4	19.0
4 21	13 13.68	+ 0 36.0	1.330	2.312	7.0	19.2
5 1	13 5.13	+ 1 30.4	1.354	2.296	11.7	19.4
5 11	12 58.60	+ 2 3.4	1.400	2.279	16.0	19.6
5 21	12 54.72	+ 2 13.1	1.464	2.262	19.7	19.8

241869 2001 TW_{224} 4 11.9 267°.66 2°.7/15.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 41.54	−20 0.4	2.265	3.093	11.9	20.1
3 22	13 36.74	−19 34.4	2.175	3.083	9.1	19.9
4 1	13 30.34	−18 51.8	2.109	3.073	5.9	19.7
4 11	13 23.00	−17 54.7	2.071	3.063	3.1	19.5
4 21	13 15.50	−16 47.3	2.061	3.053	3.6	19.5
5 1	13 8.68	−15 35.4	2.079	3.044	6.6	19.7
5 11	13 3.23	−14 25.4	2.124	3.033	9.9	19.9
5 21	12 59.63	−13 22.9	2.191	3.023	12.9	20.1

505938 2015 FV_{59} 4 11.9 156°.12 5°.5/17.5 17

3 12	13 43.94	−26 34.9	1.957	2.758	14.6	21.1
3 22	13 38.67	−26 31.2	1.877	2.758	11.7	20.9
4 1	13 31.45	−26 4.7	1.819	2.759	8.7	20.7
4 11	13 23.10	−25 15.9	1.786	2.760	6.1	20.5
4 21	13 14.61	−24 8.4	1.779	2.760	5.7	20.5
5 1	13 7.02	−22 48.9	1.800	2.761	7.8	20.6
5 11	13 1.17	−21 25.7	1.846	2.761	10.9	20.8
5 21	12 57.57	−20 6.5	1.915	2.762	13.8	21.0

185435 2006 XC_{33} 4 11.9 65°.04 0°.3/12.2 18

3 12	13 45.71	−11 9.2	1.577	2.446	14.1	19.7
3 22	13 39.99	−10 47.9	1.517	2.454	10.1	19.5
4 1	13 32.15	−10 14.1	1.479	2.461	5.5	19.3
4 11	13 23.16	− 9 32.4	1.468	2.469	0.7	18.9
4 21	13 14.13	− 8 48.4	1.483	2.478	4.3	19.2
5 1	13 6.20	− 8 8.8	1.525	2.486	8.9	19.5
5 11	13 0.26	− 7 39.1	1.590	2.494	13.0	19.8
5 21	12 56.78	− 7 22.8	1.676	2.503	16.4	20.0

262769 2006 YS_{4} 4 11.9 74°.02 2°.2/13.8 18

3 12	13 46.48	−16 18.7	1.647	2.497	14.6	21.1
3 22	13 40.39	−16 2.5	1.594	2.518	10.7	20.9
4 1	13 32.30	−15 29.6	1.565	2.539	6.4	20.7
4 11	13 23.18	−14 43.5	1.561	2.559	2.5	20.5
4 21	13 14.17	−13 50.0	1.585	2.580	4.0	20.6
5 1	13 6.32	−12 56.1	1.636	2.600	8.1	20.9
5 11	13 0.46	−12 8.4	1.711	2.621	11.9	21.2
5 21	12 57.00	−11 31.8	1.807	2.641	15.1	21.4

518745 2009 RX_{76} 4 11.9 296°.35 0°.8/12.5 17

3 12	13 48.28	−10 33.0	1.657	2.520	13.8	21.1
3 22	13 41.96	−10 44.6	1.578	2.513	10.0	20.8
4 1	13 33.34	−10 46.3	1.524	2.505	5.6	20.6
4 11	13 23.30	−10 40.4	1.496	2.497	1.1	20.2
4 21	13 12.98	−10 30.6	1.495	2.490	4.2	20.4
5 1	13 3.59	−10 21.4	1.521	2.483	8.9	20.7
5 11	12 56.17	−10 17.6	1.571	2.475	13.1	20.9
5 21	12 51.32	−10 22.6	1.642	2.468	16.7	21.1

143265 2003 AN_{10} 4 11.9 127°.32 4°.2/ 6.9 18

3 12	13 42.16	+ 3 37.0	2.489	3.364	9.3	20.1
3 22	13 36.82	+ 4 42.4	2.439	3.377	6.7	20.0
4 1	13 30.23	+ 5 46.0	2.416	3.388	4.6	19.9
4 11	13 23.01	+ 6 42.5	2.422	3.400	4.4	19.9
4 21	13 15.82	+ 7 27.4	2.457	3.411	6.3	20.0
5 1	13 9.34	+ 7 57.4	2.519	3.421	8.7	20.2
5 11	13 4.09	+ 8 11.0	2.605	3.432	11.1	20.3
5 21	13 0.42	+ 8 8.6	2.711	3.441	13.2	20.5

54532 2000 QR_{35} 4 11.9 115°.89 0°.8/12.7 18

3 12	13 48.10	−13 29.2	1.705	2.559	13.9	19.7
3 22	13 41.48	−12 55.2	1.648	2.577	10.0	19.5
4 1	13 32.87	−12 7.0	1.616	2.595	5.6	19.3
4 11	13 23.25	−11 8.9	1.611	2.612	1.2	19.0
4 21	13 13.71	−10 7.5	1.634	2.629	4.0	19.2
5 1	13 5.33	− 9 9.7	1.685	2.645	8.3	19.5
5 11	12 58.90	− 8 21.7	1.760	2.660	12.2	19.8
5 21	12 54.86	− 7 47.3	1.857	2.674	15.4	20.0

459205 2012 DZ_{73} 4 11.9 32°.88 0°.1/12.0 17

3 12	13 43.63	−11 27.8	1.279	2.160	15.9	21.0
3 22	13 38.84	−10 50.8	1.225	2.168	11.3	20.7
4 1	13 31.64	− 9 58.0	1.194	2.178	6.1	20.5
4 11	13 23.14	− 8 55.9	1.186	2.188	0.6	20.1
4 21	13 14.66	− 7 52.7	1.204	2.199	4.9	20.4
5 1	13 7.48	− 6 57.1	1.246	2.210	10.1	20.8
5 11	13 2.56	− 6 16.2	1.310	2.222	14.6	21.0
5 21	13 0.36	− 5 53.5	1.393	2.235	18.3	21.3

405869 2006 DS_{127} 4 11.9 26°.19 5°.5/ 7.7 14 C

3 12	13 43.99	− 0 16.2	1.239	2.137	15.0	20.9
3 22	13 39.13	+ 1 11.7	1.188	2.140	10.7	20.7
4 1	13 31.81	+ 2 43.3	1.160	2.142	6.7	20.5
4 11	13 23.16	+ 4 7.2	1.156	2.146	5.8	20.4
4 21	13 14.50	+ 5 13.0	1.177	2.149	9.2	20.6
5 1	13 7.14	+ 5 53.5	1.221	2.153	13.5	20.9
5 11	13 2.06	+ 6 5.7	1.285	2.158	17.5	21.1
5 21	12 59.74	+ 5 51.1	1.365	2.162	20.9	21.4

438414 2006 VN_{47} 4 11.9 214°.51 1°.5/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 44.03	− 4 19.7	2.518	3.383	9.6	21.7
3 22	13 38.25	− 3 59.3	2.441	3.379	6.7	21.5
4 1	13 31.07	− 3 35.3	2.391	3.374	3.6	21.3
4 11	13 23.10	− 3 11.1	2.370	3.370	1.6	21.1
4 21	13 15.04	− 2 50.3	2.379	3.365	4.0	21.3
5 1	13 7.60	− 2 36.0	2.417	3.359	7.2	21.5
5 11	13 1.40	− 2 30.8	2.481	3.354	10.1	21.7
5 21	12 56.85	− 2 36.0	2.566	3.348	12.6	21.8

192518 1998 RW_{29} 4 11.9 198°.82 3°.0/14.9 18

3 12	13 46.84	−19 7.9	2.488	3.306	11.3	20.3
3 22	13 40.38	−19 19.1	2.400	3.302	8.6	20.1
4 1	13 32.29	−19 17.3	2.339	3.299	5.7	19.9
4 11	13 23.23	−19 3.4	2.305	3.295	3.3	19.7
4 21	13 14.00	−18 39.6	2.301	3.290	3.7	19.7
5 1	13 5.41	−18 9.6	2.326	3.285	6.4	19.9
5 11	12 58.20	−17 38.2	2.378	3.279	9.4	20.1
5 21	12 52.83	−17 9.6	2.454	3.273	12.0	20.2

112300 2002 LC_{41} 4 11.9 283°.18 3°.1/ 9.3 18

3 12	13 44.68	− 4 32.0	1.599	2.480	13.2	19.8
3 22	13 39.58	− 3 23.2	1.507	2.453	9.4	19.5
4 1	13 32.17	− 2 3.8	1.440	2.425	5.2	19.1
4 11	13 23.24	− 0 41.1	1.400	2.396	3.2	18.9
4 21	13 13.87	+ 0 36.0	1.386	2.368	6.8	19.1
5 1	13 5.26	+ 1 38.9	1.398	2.338	11.5	19.3
5 11	12 58.50	+ 2 21.2	1.432	2.309	15.9	19.5
5 21	12 54.26	+ 2 40.2	1.485	2.279	19.6	19.6

192542 1998 SO_{144} 4 11.9 198°.53 0°.3/12.2 17

3 12	13 49.27	−11 9.5	1.695	2.554	13.8	21.4
3 22	13 42.58	−10 49.3	1.619	2.552	9.9	21.1
4 1	13 33.65	−10 16.8	1.567	2.548	5.4	20.9
4 11	13 23.39	− 9 35.7	1.543	2.544	0.7	20.5
4 21	13 12.94	− 8 51.5	1.546	2.540	4.3	20.8
5 1	13 3.48	− 8 10.5	1.577	2.534	9.0	21.0
5 11	12 55.99	− 7 38.6	1.632	2.528	13.1	21.2
5 21	12 51.03	− 7 19.6	1.707	2.522	16.7	21.5

51109 2000 HA_{25} 4 11.9 84°.00 0°.4/11.7 18

3 12	13 48.94	− 8 32.4	1.641	2.508	13.7	19.3
3 22	13 42.10	− 8 19.2	1.590	2.527	9.7	19.1
4 1	13 33.23	− 7 57.2	1.563	2.547	5.1	18.8
4 11	13 23.34	− 7 30.8	1.564	2.566	0.5	18.5
4 21	13 13.55	− 7 4.7	1.592	2.585	4.4	18.9
5 1	13 4.97	− 6 44.2	1.647	2.603	8.8	19.2
5 11	12 58.41	− 6 33.3	1.727	2.622	12.6	19.4
5 21	12 54.28	− 6 34.2	1.826	2.640	15.8	19.7

61576 2000 QG_{80} 4 11.9 158°.47 0°.4/11.4 18

3 12	13 41.32	− 9 21.5	2.834	3.690	8.9	19.8
3 22	13 36.21	− 8 40.5	2.763	3.696	6.3	19.6
4 1	13 29.94	− 7 52.6	2.719	3.702	3.3	19.4
4 11	13 23.05	− 7 1.3	2.705	3.707	0.5	19.2
4 21	13 16.15	− 6 10.5	2.721	3.711	3.0	19.4
5 1	13 9.81	− 5 24.0	2.766	3.716	6.0	19.6
5 11	13 4.56	− 4 45.3	2.838	3.719	8.7	19.8
5 21	13 0.72	− 4 16.6	2.933	3.723	11.0	20.0

297116 2010 RB_{72} 4 11.9 230°.30 0°.7/11.3 17

3 12	13 46.13	− 9 16.2	1.937	2.800	12.2	22.1
3 22	13 40.20	− 8 32.0	1.851	2.787	8.6	21.9
4 1	13 32.32	− 7 36.8	1.791	2.774	4.6	21.6
4 11	13 23.29	− 6 35.4	1.759	2.761	0.7	21.3
4 21	13 14.02	− 5 33.7	1.756	2.746	4.4	21.5
5 1	13 5.53	− 4 38.2	1.780	2.731	8.6	21.7
5 11	12 58.67	− 3 54.3	1.830	2.716	12.5	21.9
5 21	12 53.97	− 3 25.5	1.900	2.699	15.8	22.1

423550 2005 UM_{298} 4 11.9 153°.19 1°.5/10.7 17

3 12	13 45.61	− 6 6.3	1.876	2.747	12.1	21.8
3 22	13 39.71	− 5 33.4	1.810	2.750	8.5	21.6
4 1	13 31.98	− 4 53.8	1.769	2.753	4.5	21.3
4 11	13 23.25	− 4 12.5	1.755	2.756	1.5	21.1
4 21	13 14.45	− 3 34.6	1.770	2.758	4.8	21.4
5 1	13 6.56	− 3 5.3	1.812	2.760	8.7	21.6
5 11	13 0.35	− 2 48.2	1.878	2.762	12.3	21.8
5 21	12 56.28	− 2 45.2	1.965	2.764	15.3	22.0

390505 2014 BF_{17} 4 11.9 42°.22 1°.4/10.7 17

3 12	13 42.15	− 7 13.8	1.796	2.672	12.3	21.3
3 22	13 37.23	− 6 30.0	1.743	2.686	8.5	21.1
4 1	13 30.60	− 5 38.6	1.715	2.701	4.5	20.9
4 11	13 23.11	− 4 45.0	1.714	2.715	1.4	20.7
4 21	13 15.68	− 3 55.3	1.741	2.730	4.6	21.0
5 1	13 9.18	− 3 15.0	1.794	2.746	8.6	21.2
5 11	13 4.34	− 2 48.0	1.871	2.762	12.0	21.5
5 21	13 1.53	− 2 36.1	1.969	2.778	15.0	21.7

319868 2006 WT_{73} 4 11.9 304.°08 1.°2/12.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 44.60	−13 10.9	1.451	2.320	15.1	20.7
3 22	13 39.75	−12 57.4	1.364	2.299	11.1	20.4
4 1	13 32.36	−12 27.5	1.298	2.279	6.4	20.0
4 11	13 23.31	−11 44.3	1.257	2.258	1.6	19.7
4 21	13 13.79	−10 53.6	1.242	2.238	4.6	19.8
5 1	13 5.16	−10 3.1	1.253	2.219	9.9	20.1
5 11	12 58.61	− 9 20.7	1.285	2.199	14.7	20.3
5 21	12 54.85	− 8 52.3	1.337	2.180	18.9	20.5

95800 2003 FS_{30} 4 11.9 341.°33 7.°5/ 3.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 35.15	+ 4 14.6	1.422	2.328	12.9	17.8
3 22	13 32.84	+ 6 31.6	1.354	2.305	9.7	17.5
4 1	13 28.50	+ 8 51.9	1.311	2.283	7.6	17.3
4 11	13 22.94	+11 2.0	1.293	2.263	8.4	17.3
4 21	13 17.15	+12 49.5	1.299	2.244	11.5	17.4
5 1	13 12.22	+14 5.2	1.327	2.226	15.2	17.6
5 11	13 9.06	+14 45.2	1.374	2.211	18.7	17.8
5 21	13 8.22	+14 50.6	1.437	2.197	21.7	17.9

417489 2006 RW_{85} 4 11.9 180.°18 0.°3/12.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.85	−11 26.4	2.102	2.955	11.8	22.1
3 22	13 40.49	−10 59.1	2.027	2.956	8.4	21.9
4 1	13 32.38	−10 21.1	1.977	2.958	4.6	21.6
4 11	13 23.30	− 9 36.2	1.956	2.958	0.6	21.3
4 21	13 14.12	− 8 48.9	1.964	2.957	3.6	21.6
5 1	13 5.75	− 8 4.5	2.001	2.956	7.5	21.8
5 11	12 58.96	− 7 27.9	2.063	2.955	11.0	22.0
5 21	12 54.19	− 7 2.4	2.148	2.952	14.0	22.2

174040 2002 AY_{132} 4 12.0 64.°33 4.°5/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 42.81	+ 4 17.6	2.221	3.099	10.2	19.9
3 22	13 37.47	+ 5 5.3	2.165	3.104	7.4	19.8
4 1	13 30.69	+ 5 50.5	2.135	3.108	5.1	19.6
4 11	13 23.15	+ 6 27.7	2.133	3.113	4.7	19.6
4 21	13 15.62	+ 6 52.6	2.159	3.117	6.7	19.7
5 1	13 8.84	+ 7 2.2	2.212	3.122	9.4	19.9
5 11	13 3.44	+ 6 55.4	2.288	3.127	12.1	20.1
5 21	12 59.80	+ 6 32.8	2.384	3.132	14.3	20.3

378755 2008 RJ_{105} 4 12.0 41.°50 0.°2/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.95	− 8 54.1	1.716	2.585	13.1	20.4
3 22	13 40.08	− 8 47.0	1.654	2.592	9.3	20.2
4 1	13 32.23	− 8 31.3	1.616	2.599	5.0	19.9
4 11	13 23.30	− 8 10.5	1.605	2.607	0.4	19.6
4 21	13 14.32	− 7 49.2	1.621	2.615	4.2	19.9
5 1	13 6.35	− 7 32.1	1.665	2.623	8.5	20.2
5 11	13 0.22	− 7 23.3	1.732	2.632	12.3	20.4
5 21	12 56.40	− 7 25.4	1.820	2.640	15.5	20.7

152021 2004 LH_{2} 4 12.0 258.°25 0.°6/12.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 45.21	−12 19.4	1.898	2.755	12.6	20.5
3 22	13 39.63	−11 55.3	1.809	2.740	9.1	20.3
4 1	13 32.08	−11 18.3	1.745	2.725	5.1	20.0
4 11	13 23.29	−10 32.0	1.708	2.710	0.9	19.7
4 21	13 14.24	− 9 41.3	1.700	2.694	3.9	19.9
5 1	13 5.94	− 8 52.2	1.719	2.678	8.2	20.1
5 11	12 59.28	− 8 10.8	1.762	2.662	12.2	20.3
5 21	12 54.83	− 7 41.3	1.827	2.645	15.6	20.5

38093 1999 JX_{6} 4 12.0 257.°17 5.°3/ 7.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 47.08	+ 2 9.5	1.590	2.474	13.1	18.8
3 22	13 41.15	+ 3 11.0	1.518	2.461	9.5	18.6
4 1	13 32.95	+ 4 13.4	1.469	2.447	6.2	18.4
4 11	13 23.38	+ 5 8.5	1.447	2.433	5.5	18.3
4 21	13 13.57	+ 5 48.7	1.452	2.418	8.4	18.4
5 1	13 4.72	+ 6 8.5	1.481	2.404	12.3	18.6
5 11	12 57.83	+ 6 5.3	1.532	2.389	16.1	18.8
5 21	12 53.47	+ 5 40.0	1.601	2.373	19.3	19.0

434799 2006 RR_{43} 4 12.0 217.°16 1.°8/ 9.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 40.49	− 6 16.2	2.504	3.373	9.5	21.6
3 22	13 35.80	− 4 57.1	2.427	3.367	6.6	21.4
4 1	13 29.81	− 3 30.7	2.377	3.361	3.5	21.2
4 11	13 23.08	− 2 2.4	2.358	3.355	1.9	21.0
4 21	13 16.29	− 0 38.2	2.368	3.349	4.4	21.2
5 1	13 10.09	+ 0 36.5	2.407	3.343	7.6	21.4
5 11	13 5.06	+ 1 37.3	2.472	3.336	10.5	21.5
5 21	13 1.58	+ 2 22.0	2.559	3.329	12.9	21.7

324540 2006 WT_{27} 4 12.0 273.°73 1.°1/11.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.22	− 7 49.8	1.698	2.569	13.1	21.0
3 22	13 40.57	− 7 19.1	1.609	2.549	9.4	20.7
4 1	13 32.68	− 6 38.2	1.544	2.529	5.0	20.4
4 11	13 23.37	− 5 51.9	1.507	2.508	1.1	20.0
4 21	13 13.68	− 5 6.2	1.496	2.487	5.0	20.3
5 1	13 4.80	− 4 27.4	1.512	2.466	9.7	20.5
5 11	12 57.71	− 4 1.2	1.552	2.444	14.0	20.7
5 21	12 53.08	− 3 50.8	1.611	2.422	17.6	20.9

194215 2001 TE_{124} 4 12.0 299.°88 6.°1/17.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 12	13 44.72	−27 6.7	2.077	2.870	14.1	19.5
3 22	13 39.35	−27 34.3	1.986	2.859	11.6	19.3
4 1	13 31.97	−27 41.7	1.916	2.848	8.9	19.1
4 11	13 23.31	−27 28.0	1.871	2.837	6.7	18.9
4 21	13 14.33	−26 54.6	1.853	2.826	6.3	18.9
5 1	13 6.08	−26 5.9	1.861	2.815	8.1	19.0
5 11	12 59.48	−25 8.8	1.894	2.804	10.9	19.1
5 21	12 55.11	−24 10.6	1.949	2.794	13.7	19.3

312018 2007 RJ_{45} 4 12.0 195.°93 3.°7/14.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 48.87	−19 47.7	1.788	2.617	14.5	21.9
3 22	13 42.35	−19 52.4	1.708	2.616	11.1	21.6
4 1	13 33.58	−19 38.5	1.650	2.613	7.4	21.4
4 11	13 23.46	−19 7.0	1.619	2.610	4.2	21.2
4 21	13 13.11	−18 21.7	1.616	2.607	4.7	21.2
5 1	13 3.71	−17 28.7	1.639	2.603	8.2	21.4
5 11	12 56.24	−16 35.7	1.688	2.598	12.0	21.6
5 21	12 51.30	−15 49.1	1.759	2.593	15.4	21.8

161741 2006 SU_{207} 4 12.0 250.°99 0.°6/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 44.89	−11 21.4	2.323	3.174	10.8	20.3
3 22	13 39.07	−11 18.7	2.239	3.167	7.8	20.1
4 1	13 31.64	−11 7.5	2.181	3.160	4.4	19.9
4 11	13 23.28	−10 50.0	2.151	3.152	0.9	19.6
4 21	13 14.74	−10 29.4	2.151	3.145	3.2	19.8
5 1	13 6.86	−10 9.4	2.179	3.137	6.8	20.0
5 11	13 0.33	− 9 53.9	2.233	3.129	10.1	20.2
5 21	12 55.63	− 9 45.7	2.310	3.122	12.9	20.3

498308 2007 VG_{128} 4 12.0 108.°01 0.°8/11.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.30	− 6 35.8	2.219	3.082	10.8	21.8
3 22	13 39.95	− 6 27.2	2.156	3.091	7.6	21.6
4 1	13 32.05	− 6 13.5	2.118	3.101	4.0	21.4
4 11	13 23.31	− 5 57.9	2.109	3.110	0.8	21.1
4 21	13 14.55	− 5 43.6	2.129	3.119	3.8	21.4
5 1	13 6.61	− 5 34.1	2.178	3.128	7.3	21.6
5 11	13 0.13	− 5 32.2	2.253	3.137	10.5	21.8
5 21	12 55.54	− 5 39.6	2.349	3.146	13.2	22.0

358046 2006 GR_{35} 4 12.0 326.°74 0.°6/12.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 59.46	− 3 38.0	1.036	1.918	18.7	19.5
3 22	13 51.94	− 5 22.6	0.941	1.885	13.9	19.1
4 1	13 39.87	− 7 19.2	0.868	1.852	7.8	18.7
4 11	13 24.13	− 9 27.0	0.819	1.821	1.0	18.1
4 21	13 6.57	−11 41.1	0.796	1.792	6.7	18.4
5 1	12 49.74	−13 55.3	0.799	1.764	14.0	18.6
5 11	12 36.04	−16 6.2	0.823	1.737	20.6	18.9
5 21	12 26.97	−18 13.2	0.863	1.713	26.1	19.1

329380 2001 WN_{88} 4 12.0 147.°26 5.°9/ 6.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 49.21	+ 9 17.4	2.185	3.051	10.8	21.4
3 22	13 41.93	+ 9 58.9	2.134	3.060	8.3	21.2
4 1	13 33.06	+10 33.3	2.110	3.070	6.3	21.1
4 11	13 23.40	+10 55.0	2.115	3.078	6.2	21.1
4 21	13 13.82	+11 0.3	2.147	3.087	7.9	21.3
5 1	13 5.17	+10 47.5	2.206	3.094	10.5	21.4
5 11	12 58.12	+10 16.9	2.289	3.101	12.9	21.6
5 21	12 53.06	+ 9 30.5	2.392	3.107	15.1	21.8

493590 2015 MV_{21} 4 12.0 257.°07 2.°8/15.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.99	−20 1.5	2.284	3.111	11.9	21.1
3 22	13 37.09	−19 40.7	2.197	3.104	9.1	20.9
4 1	13 30.60	−19 3.9	2.135	3.098	5.9	20.7
4 11	13 23.18	−18 12.9	2.100	3.092	3.2	20.5
4 21	13 15.63	−17 11.9	2.093	3.086	3.6	20.5
5 1	13 8.76	−16 6.1	2.115	3.079	6.6	20.7
5 11	13 3.27	−15 1.9	2.163	3.073	9.7	20.8
5 21	12 59.60	−14 4.5	2.234	3.066	12.6	21.0

239882 2000 QU_{66} 4 12.0 253.°37 4.°8/ 5.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 41.26	+ 5 43.8	2.658	3.533	8.8	20.7
3 22	13 36.36	+ 7 6.0	2.579	3.513	6.6	20.5
4 1	13 30.14	+ 8 27.3	2.528	3.493	5.0	20.3
4 11	13 23.14	+ 9 41.6	2.506	3.473	5.1	20.3
4 21	13 16.00	+10 43.9	2.513	3.452	7.0	20.4
5 1	13 9.38	+11 29.9	2.547	3.430	9.4	20.5
5 11	13 3.85	+11 57.5	2.604	3.408	11.8	20.7
5 21	12 59.82	+12 6.6	2.681	3.386	13.9	20.8

318480 2005 EB_{87} 4 12.0 61.°42 0.°3/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 12	13 46.77	−11 17.2	1.368	2.241	15.6	21.1
3 22	13 40.96	−10 53.1	1.315	2.254	11.1	20.9
4 1	13 32.80	−10 15.0	1.285	2.268	6.0	20.6
4 11	13 23.38	− 9 28.0	1.280	2.282	0.7	20.3
4 21	13 14.02	− 8 39.3	1.301	2.296	4.7	20.6
5 1	13 5.98	− 7 56.1	1.347	2.310	9.6	20.9
5 11	13 0.19	− 7 24.8	1.416	2.325	14.0	21.2
5 21	12 57.12	− 7 8.8	1.505	2.339	17.6	21.5