412264 2013 HL_{112} 4 1.9 170°.52 0°.2/ 1.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.91	− 7 39.9	1.776	2.634	13.2	21.9
3 12	13 3.15	− 6 45.8	1.706	2.638	9.3	21.7
3 22	12 55.46	− 5 37.9	1.661	2.640	5.0	21.4
4 1	12 46.65	− 4 21.9	1.643	2.642	0.4	21.1
4 11	12 37.77	− 3 5.5	1.654	2.644	4.3	21.4
4 21	12 29.83	− 1 56.2	1.693	2.645	8.7	21.6
5 1	12 23.65	− 1 0.2	1.757	2.646	12.6	21.9
5 11	12 19.75	− 0 21.4	1.841	2.646	15.9	22.1

329540 2002 TR_{162} 4 1.9 114°.06 5°.8/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.04	− 1 32.6	1.126	2.019	16.4	19.9
3 12	13 3.13	+ 1 52.2	1.081	2.031	11.3	19.6
3 22	12 55.61	+ 5 32.0	1.061	2.042	6.7	19.4
4 1	12 46.67	+ 9 5.1	1.069	2.053	6.6	19.4
4 11	12 37.82	+12 9.9	1.103	2.064	10.9	19.7
4 21	12 30.43	+14 32.4	1.162	2.074	15.6	20.0
5 1	12 25.52	+16 7.8	1.241	2.083	19.8	20.3
5 11	12 23.57	+16 58.9	1.335	2.093	23.0	20.5

434927 2006 TB_{107} 4 1.9 252°.88 4°.4/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.93	+ 8 53.4	2.324	3.194	10.0	20.8
3 12	13 2.81	+ 9 25.3	2.256	3.189	7.3	20.6
3 22	12 55.15	+ 9 54.1	2.215	3.184	5.0	20.5
4 1	12 46.64	+10 15.0	2.203	3.179	4.6	20.4
4 11	12 38.07	+10 23.5	2.219	3.174	6.6	20.5
4 21	12 30.23	+10 17.4	2.262	3.168	9.3	20.7
5 1	12 23.79	+ 9 55.8	2.330	3.163	12.0	20.9
5 11	12 19.18	+ 9 19.3	2.419	3.157	14.3	21.0

312578 2009 HT_{76} 4 2.0 63°.39 5°.4/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.73	+ 5 16.0	1.457	2.345	13.7	20.2
3 12	13 3.25	+ 6 29.9	1.405	2.350	9.8	19.9
3 22	12 55.57	+ 7 44.7	1.378	2.354	6.3	19.7
4 1	12 46.68	+ 8 50.7	1.376	2.359	5.6	19.7
4 11	12 37.80	+ 9 39.3	1.400	2.364	8.6	19.9
4 21	12 30.09	+10 5.2	1.448	2.369	12.5	20.1
5 1	12 24.45	+10 6.4	1.518	2.374	16.1	20.4
5 11	12 21.38	+ 9 44.2	1.605	2.379	19.1	20.6

505087 2011 UA_{323} 4 2.0 191°.51 3°.0/29.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.30	+ 6 4.8	2.951	3.816	8.3	21.9
3 12	13 1.40	+ 6 37.1	2.881	3.814	5.9	21.8
3 22	12 54.31	+ 7 8.6	2.839	3.812	3.7	21.6
4 1	12 46.57	+ 7 35.6	2.827	3.810	3.2	21.6
4 11	12 38.79	+ 7 54.7	2.845	3.807	4.9	21.7
4 21	12 31.56	+ 8 3.3	2.892	3.803	7.3	21.8
5 1	12 25.42	+ 8 0.2	2.965	3.799	9.7	22.0
5 11	12 20.72	+ 7 45.1	3.060	3.795	11.7	22.1

165338 2000 VC_{17} 4 2.0 211°.98 1°.8/31.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.52	− 2 57.2	1.864	2.730	12.2	20.9
3 12	13 3.59	− 2 1.2	1.787	2.724	8.6	20.6
3 22	12 55.74	− 0 55.8	1.735	2.717	4.6	20.4
4 1	12 46.71	+ 0 12.8	1.712	2.709	1.8	20.2
4 11	12 37.52	+ 1 17.4	1.717	2.700	5.2	20.4
4 21	12 29.17	+ 2 11.5	1.750	2.691	9.3	20.6
5 1	12 22.49	+ 2 50.0	1.808	2.681	13.1	20.8
5 11	12 18.05	+ 3 10.6	1.885	2.671	16.3	21.0

203543 2002 CT_{59} 4 2.0 59°.94 1°.2/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.81	− 8 38.2	1.260	2.127	16.9	19.5
3 12	13 6.29	− 8 34.9	1.214	2.147	12.1	19.3
3 22	12 57.24	− 8 15.8	1.189	2.168	6.8	19.1
4 1	12 46.84	− 7 45.2	1.190	2.188	1.6	18.8
4 11	12 36.62	− 7 10.3	1.216	2.209	4.7	19.1
4 21	12 27.90	− 6 38.3	1.267	2.230	9.8	19.4
5 1	12 21.69	− 6 15.6	1.341	2.251	14.3	19.7
5 11	12 18.45	− 6 6.3	1.435	2.272	18.0	20.0

173325 1999 VZ_{141} 4 2.0 267°.40 0°.8/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.90	− 5 2.4	1.694	2.560	13.3	20.7
3 12	13 4.19	− 4 30.7	1.605	2.540	9.5	20.4
3 22	12 56.22	− 3 47.4	1.540	2.520	5.1	20.1
4 1	12 46.78	− 2 57.3	1.501	2.500	0.8	19.7
4 11	12 36.96	− 2 7.1	1.490	2.479	4.9	20.0
4 21	12 27.93	− 1 23.5	1.507	2.458	9.6	20.2
5 1	12 20.71	− 0 52.5	1.547	2.437	14.0	20.4
5 11	12 15.99	− 0 37.8	1.607	2.415	17.7	20.6

23394 4340 T-3 4 2.0 213°.27 3°.1/30.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.93	+ 1 35.8	1.818	2.690	12.2	19.3
3 12	13 4.61	+ 2 20.7	1.746	2.685	8.6	19.0
3 22	12 56.29	+ 3 9.8	1.699	2.679	4.9	18.8
4 1	12 46.77	+ 3 56.9	1.680	2.672	3.2	18.7
4 11	12 37.12	+ 4 35.3	1.689	2.665	6.1	18.8
4 21	12 28.37	+ 5 0.1	1.726	2.658	10.1	19.1
5 1	12 21.37	+ 5 8.1	1.786	2.650	13.7	19.3
5 11	12 16.70	+ 4 58.4	1.866	2.641	16.8	19.5

180926 2005 LD_{24} 4 2.0 292°.74 3°.6/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.75	−15 28.0	1.593	2.433	15.3	20.0
3 12	13 2.90	−15 22.4	1.497	2.411	11.8	19.7
3 22	12 55.63	−14 55.6	1.423	2.388	7.8	19.4
4 1	12 46.73	−14 8.4	1.374	2.365	4.1	19.1
4 11	12 37.34	−13 5.9	1.351	2.342	4.8	19.1
4 21	12 28.72	−11 55.8	1.354	2.320	9.0	19.3
5 1	12 22.00	−10 47.2	1.381	2.297	13.6	19.5
5 11	12 17.96	− 9 48.6	1.429	2.274	17.6	19.7

410307 2007 TX_{383} 4 2.0 166°.06 0°.8/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.60	− 5 3.7	1.937	2.795	12.2	22.3
3 12	13 4.21	− 4 23.7	1.869	2.801	8.6	22.1
3 22	12 56.00	− 3 34.1	1.826	2.806	4.5	21.8
4 1	12 46.74	− 2 39.9	1.811	2.810	0.8	21.6
4 11	12 37.44	− 1 47.2	1.826	2.813	4.3	21.8
4 21	12 29.03	− 1 1.8	1.868	2.816	8.4	22.1
5 1	12 22.30	− 0 28.3	1.936	2.818	12.0	22.3
5 11	12 17.75	− 0 9.4	2.026	2.819	15.0	22.5

162303 1999 VW_{186} 4 2.0 107°.55 16°.7/24.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 27.96	+31 3.7	1.167	2.006	19.9	19.7
3 12	13 17.21	+32 5.8	1.139	2.015	17.8	19.6
3 22	13 3.05	+32 31.5	1.130	2.024	16.7	19.6
4 1	12 47.37	+32 8.7	1.142	2.033	17.1	19.6
4 11	12 32.43	+30 54.4	1.174	2.041	18.7	19.8
4 21	12 20.06	+28 55.0	1.227	2.050	21.0	19.9
5 1	12 11.35	+26 21.9	1.297	2.058	23.3	20.1
5 11	12 6.59	+23 27.5	1.381	2.065	25.4	20.3

247718 2003 FT_{22} 4 2.0 37°.73 3°.1/ 4.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 16.10	−11 44.4	2.008	2.835	13.1	19.5
3 12	13 8.17	−12 40.8	1.935	2.843	9.9	19.3
3 22	12 58.18	−13 26.4	1.887	2.851	6.3	19.1
4 1	12 46.96	−14 0.5	1.869	2.859	3.3	19.0
4 11	12 35.58	−14 24.3	1.881	2.868	4.2	19.0
4 21	12 25.12	−14 40.5	1.921	2.877	7.6	19.3
5 1	12 16.46	−14 52.8	1.989	2.886	11.0	19.5
5 11	12 10.18	−15 5.5	2.079	2.895	13.9	19.7

521228 2015 GU_{53} 4 2.0 332°.26 1°.1/31.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.67	− 3 31.8	1.947	2.816	11.7	20.8
3 12	13 0.81	− 3 2.9	1.871	2.809	8.2	20.6
3 22	12 54.22	− 2 26.2	1.821	2.803	4.3	20.3
4 1	12 46.59	− 1 46.0	1.798	2.796	1.1	20.1
4 11	12 38.83	− 1 8.1	1.803	2.790	4.4	20.3
4 21	12 31.82	− 0 37.3	1.835	2.785	8.3	20.5
5 1	12 26.33	− 0 17.8	1.892	2.780	11.9	20.7
5 11	12 22.86	− 0 12.0	1.969	2.775	15.0	20.9

415723 1999 TL_{134} 4 2.0 201°.16 0°.5/ 2.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.36	− 8 35.6	2.145	2.989	11.8	22.2
3 12	13 4.02	− 8 7.3	2.061	2.985	8.5	22.0
3 22	12 55.92	− 7 27.4	2.003	2.979	4.7	21.8
4 1	12 46.75	− 6 39.2	1.974	2.973	0.8	21.5
4 11	12 37.43	− 5 47.9	1.975	2.966	3.5	21.7
4 21	12 28.84	− 4 59.0	2.005	2.958	7.5	21.9
5 1	12 21.76	− 4 17.7	2.061	2.950	11.1	22.1
5 11	12 16.73	− 3 47.7	2.139	2.940	14.1	22.3

133266 2003 SH_{2} 4 2.0 154°.58 0°.4/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.21	− 6 13.1	2.035	2.896	11.6	20.2
3 12	13 1.08	− 5 29.3	1.965	2.898	8.2	19.9
3 22	12 54.31	− 4 35.2	1.920	2.900	4.4	19.7
4 1	12 46.61	− 3 35.5	1.903	2.902	0.5	19.4
4 11	12 38.84	− 2 36.2	1.914	2.903	3.9	19.7
4 21	12 31.85	− 1 43.3	1.954	2.905	7.8	19.9
5 1	12 26.34	− 1 1.4	2.019	2.906	11.3	20.1
5 11	12 22.78	− 0 33.8	2.105	2.908	14.2	20.3

380564 2004 QK_{18} 4 2.0 211°.81 1°.2/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.05	− 4 15.0	2.508	3.365	9.8	21.7
3 12	13 0.77	− 3 7.2	2.424	3.357	6.9	21.5
3 22	12 54.10	− 1 50.7	2.368	3.348	3.6	21.2
4 1	12 46.59	− 0 30.4	2.341	3.339	1.2	21.0
4 11	12 38.98	+ 0 47.6	2.346	3.329	4.0	21.2
4 21	12 31.95	+ 1 57.9	2.380	3.318	7.4	21.4
5 1	12 26.12	+ 2 55.9	2.440	3.306	10.4	21.6
5 11	12 21.92	+ 3 38.9	2.523	3.294	13.0	21.8

461360 2000 EH_{23} 4 2.0 190°.57 1°.4/ 3.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.29	−10 53.6	2.178	3.015	11.9	21.5
3 12	13 3.95	−10 38.2	2.097	3.014	8.7	21.3
3 22	12 55.88	−10 10.2	2.040	3.012	5.1	21.1
4 1	12 46.77	− 9 32.1	2.013	3.009	1.7	20.8
4 11	12 37.52	− 8 48.5	2.014	3.006	3.4	20.9
4 21	12 29.01	− 8 4.5	2.045	3.002	7.1	21.2
5 1	12 22.01	− 7 25.2	2.103	2.997	10.6	21.4
5 11	12 17.02	− 6 54.9	2.183	2.992	13.6	21.6

519560 2012 RJ_{44} 4 2.0 308.°51 8.°3/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.87	−28 46.6	1.954	2.713	15.9	20.7
3 12	13 2.75	−29 26.4	1.863	2.703	13.6	20.5
3 22	12 55.46	−29 41.4	1.792	2.693	11.1	20.3
4 1	12 46.74	−29 29.1	1.744	2.683	9.0	20.2
4 11	12 37.66	−28 50.4	1.721	2.673	8.3	20.1
4 21	12 29.34	−27 50.1	1.723	2.664	9.4	20.1
5 1	12 22.79	−26 35.9	1.749	2.655	11.8	20.3
5 11	12 18.67	−25 17.3	1.798	2.646	14.5	20.4

244805 2003 SQ_{273} 4 2.0 284.°91 7.°0/ 7.4 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.41	−23 1.0	1.577	2.382	17.2	20.6
3 12	13 4.33	−23 20.9	1.474	2.355	14.1	20.3
3 22	12 56.56	−23 14.0	1.390	2.328	10.7	20.0
4 1	12 46.86	−22 37.7	1.330	2.301	7.8	19.8
4 11	12 36.48	−21 34.1	1.295	2.273	7.3	19.7
4 21	12 26.83	−20 9.9	1.285	2.245	10.0	19.7
5 1	12 19.22	−18 35.9	1.299	2.217	14.0	19.9
5 11	12 14.57	−17 3.9	1.334	2.189	18.1	20.1

143528 2003 ET_{18} 4 2.0 160.°78 2.°4/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.86	+ 0 15.4	2.390	3.262	9.7	20.3
3 12	12 59.22	+ 1 23.0	2.324	3.264	6.7	20.1
3 22	12 53.25	+ 2 35.3	2.285	3.266	3.7	19.9
4 1	12 46.52	+ 3 46.7	2.275	3.267	2.6	19.8
4 11	12 39.76	+ 4 51.3	2.295	3.269	5.0	20.0
4 21	12 33.64	+ 5 44.5	2.342	3.270	8.0	20.2
5 1	12 28.73	+ 6 22.8	2.414	3.271	10.8	20.4
5 11	12 25.45	+ 6 44.9	2.508	3.272	13.3	20.5

390629 2002 CP_{181} 4 2.0 93.°63 5.°0/26.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.17	+ 9 13.8	2.335	3.214	9.6	20.9
3 12	12 59.45	+10 29.6	2.280	3.216	7.1	20.7
3 22	12 53.37	+11 42.9	2.253	3.218	5.2	20.6
4 1	12 46.54	+12 47.4	2.253	3.221	5.3	20.6
4 11	12 39.69	+13 37.5	2.281	3.223	7.3	20.8
4 21	12 33.52	+14 9.7	2.336	3.225	9.8	20.9
5 1	12 28.63	+14 22.6	2.414	3.227	12.2	21.1
5 11	12 25.41	+14 16.7	2.511	3.230	14.3	21.3

430638 2003 SA_{58} 4 2.0 217.°31 0.°5/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.16	− 4 36.2	2.681	3.532	9.5	22.1
3 12	13 2.21	− 4 9.1	2.593	3.522	6.7	21.9
3 22	12 54.86	− 3 35.2	2.532	3.511	3.6	21.7
4 1	12 46.69	− 2 57.8	2.500	3.499	0.6	21.4
4 11	12 38.37	− 2 20.8	2.500	3.487	3.3	21.6
4 21	12 30.59	− 1 48.1	2.529	3.474	6.6	21.8
5 1	12 23.97	− 1 23.0	2.585	3.461	9.6	22.0
5 11	12 18.96	− 1 8.0	2.664	3.446	12.1	22.1

11495 Fukunaga 4 2.0 141.°09 0.°4/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.18	− 8 38.9	2.005	2.853	12.3	19.3
3 12	13 3.83	− 8 0.8	1.940	2.866	8.8	19.1
3 22	12 55.77	− 7 10.4	1.901	2.878	4.8	18.9
4 1	12 46.76	− 6 12.4	1.891	2.890	0.7	18.6
4 11	12 37.78	− 5 12.6	1.910	2.901	3.7	18.9
4 21	12 29.69	− 4 17.1	1.957	2.911	7.6	19.1
5 1	12 23.24	− 3 31.1	2.031	2.920	11.2	19.4
5 11	12 18.89	− 2 58.1	2.126	2.929	14.1	19.6

93418 2000 SB_{305} 4 2.0 63.°45 4.°0/ 5.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.97	−17 24.0	1.792	2.617	14.6	19.6
3 12	13 2.62	−17 23.6	1.719	2.621	11.3	19.4
3 22	12 55.27	−17 3.3	1.668	2.625	7.6	19.2
4 1	12 46.73	−16 24.4	1.643	2.628	4.5	19.0
4 11	12 38.06	−15 31.7	1.644	2.632	4.6	19.0
4 21	12 30.31	−14 31.9	1.673	2.636	7.8	19.2
5 1	12 24.33	−13 32.5	1.727	2.640	11.4	19.4
5 11	12 20.68	−12 40.4	1.802	2.644	14.7	19.6

24011 1999 RR_{109} 4 2.0 163.°32 3.°1/ 5.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.49	−16 30.3	2.416	3.226	11.7	19.8
3 12	13 3.27	−16 33.1	2.336	3.232	9.0	19.6
3 22	12 55.47	−16 21.4	2.282	3.236	6.0	19.4
4 1	12 46.75	−15 56.3	2.255	3.241	3.5	19.3
4 11	12 37.93	−15 21.0	2.258	3.244	3.7	19.3
4 21	12 29.80	−14 40.0	2.290	3.247	6.4	19.4
5 1	12 23.06	−13 58.3	2.349	3.250	9.3	19.6
5 11	12 18.17	−13 20.8	2.431	3.252	12.0	19.8

286457 2002 AZ_{98} 4 2.0 145.°85 3.°8/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.98	−20 0.6	2.696	3.487	11.2	21.0
3 12	13 1.39	−20 6.3	2.615	3.494	8.8	20.8
3 22	12 54.42	−19 57.0	2.559	3.500	6.3	20.6
4 1	12 46.65	−19 33.3	2.531	3.505	4.2	20.5
4 11	12 38.80	−18 58.0	2.531	3.511	4.1	20.5
4 21	12 31.55	−18 15.1	2.561	3.516	6.0	20.6
5 1	12 25.52	−17 29.2	2.617	3.521	8.4	20.8
5 11	12 21.14	−16 45.3	2.698	3.525	10.8	21.0

422633 1349 $T\text{-}_2$ 4 2.0 162.°66 0.°0/ 1.9 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.55	− 7 37.2	2.300	3.147	11.0	22.1
3 12	13 2.56	− 6 55.3	2.228	3.155	7.8	21.9
3 22	12 55.06	− 6 3.0	2.183	3.161	4.2	21.7
4 1	12 46.71	− 5 4.6	2.167	3.167	0.4	21.4
4 11	12 38.33	− 4 5.4	2.182	3.172	3.4	21.6
4 21	12 30.69	− 3 10.7	2.225	3.176	7.0	21.9
5 1	12 24.45	− 2 25.0	2.295	3.179	10.3	22.1
5 11	12 20.03	− 1 51.5	2.388	3.182	13.0	22.3

141251 2001 YR_8 4 2.0 25.°12 7.°5/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.71	−29 1.3	2.070	2.826	15.2	18.7
3 12	13 0.97	−29 21.4	1.992	2.831	12.9	18.5
3 22	12 54.36	−29 16.5	1.935	2.836	10.4	18.4
4 1	12 46.65	−28 45.8	1.901	2.842	8.3	18.2
4 11	12 38.81	−27 51.7	1.893	2.848	7.5	18.2
4 21	12 31.79	−26 39.8	1.911	2.855	8.4	18.3
5 1	12 26.41	−25 17.8	1.953	2.862	10.6	18.4
5 11	12 23.20	−23 54.4	2.019	2.869	13.0	18.6

106762 2000 XU_9 4 2.0 60.°05 17.°4/20.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 23.50	−45 54.6	1.512	2.152	24.2	18.1
3 12	13 15.17	−48 18.3	1.469	2.180	22.4	18.0
3 22	13 2.70	−50 0.1	1.440	2.208	20.5	17.9
4 1	12 47.46	−50 50.5	1.426	2.236	18.9	17.9
4 11	12 31.74	−50 46.8	1.431	2.264	17.8	17.9
4 21	12 17.91	−49 54.4	1.453	2.293	17.4	17.9
5 1	12 7.81	−48 25.6	1.494	2.321	17.8	18.0
5 11	12 2.25	−46 36.4	1.553	2.349	18.7	18.2

177986 2006 QM_{43} 4 2.0 240.°45 1.°2/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.25	− 4 5.4	1.889	2.753	12.2	20.8
3 12	13 3.49	− 3 19.7	1.804	2.739	8.7	20.6
3 22	12 55.76	− 2 23.8	1.744	2.725	4.6	20.3
4 1	12 46.80	− 1 22.8	1.711	2.710	1.2	20.0
4 11	12 37.59	− 0 23.7	1.708	2.694	4.8	20.2
4 21	12 29.13	+ 0 27.3	1.732	2.678	9.0	20.4
5 1	12 22.31	+ 1 4.8	1.781	2.661	12.9	20.6
5 11	12 17.71	+ 1 25.7	1.850	2.644	16.2	20.8

428062 2006 ER_{39} 4 2.0 106.°34 0.°8/ 2.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.98	− 8 58.3	1.946	2.797	12.5	21.7
3 12	13 2.42	− 8 40.5	1.875	2.801	9.0	21.5
3 22	12 55.09	− 8 10.6	1.829	2.805	5.1	21.3
4 1	12 46.73	− 7 32.0	1.811	2.809	1.1	21.0
4 11	12 38.30	− 6 50.0	1.821	2.813	3.6	21.2
4 21	12 30.70	− 6 9.9	1.858	2.816	7.6	21.4
5 1	12 24.71	− 5 36.9	1.921	2.820	11.2	21.7
5 11	12 20.81	− 5 14.7	2.006	2.823	14.3	21.9

53883 2000 FN_{39} 4 2.0 24.°38 2.°8/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.76	− 1 42.9	1.155	2.046	16.2	18.7
3 12	13 3.74	− 0 52.2	1.102	2.050	11.4	18.5
3 22	12 56.06	+ 0 8.7	1.070	2.054	6.1	18.2
4 1	12 46.83	+ 1 10.9	1.062	2.059	2.8	18.0
4 11	12 37.57	+ 2 4.0	1.079	2.064	7.0	18.3
4 21	12 29.69	+ 2 40.1	1.118	2.070	12.2	18.6
5 1	12 24.29	+ 2 54.2	1.179	2.076	16.9	18.8
5 11	12 21.92	+ 2 45.5	1.256	2.082	20.7	19.1

271898 2004 VH_{57} 4 2.0 165.°47 1.°8/31.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.87	− 0 32.5	2.280	3.143	10.4	21.1
3 12	13 2.79	+ 0 1.4	2.212	3.148	7.3	20.9
3 22	12 55.19	+ 0 39.6	2.171	3.151	3.9	20.7
4 1	12 46.74	+ 1 17.7	2.159	3.155	1.9	20.6
4 11	12 38.26	+ 1 51.0	2.177	3.157	4.5	20.8
4 21	12 30.52	+ 2 15.5	2.223	3.160	7.9	21.0
5 1	12 24.18	+ 2 28.4	2.294	3.162	10.9	21.2
5 11	12 19.68	+ 2 28.4	2.388	3.163	13.5	21.4

344593 2003 CF_5 4 2.0 96.°78 2.°9/ 5.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.12	−15 14.4	2.294	3.115	11.9	20.8
3 12	13 2.33	−15 19.6	2.222	3.125	9.1	20.6
3 22	12 54.97	−15 10.7	2.176	3.135	5.9	20.4
4 1	12 46.73	−14 49.2	2.156	3.145	3.3	20.3
4 11	12 38.43	−14 18.5	2.166	3.154	3.6	20.3
4 21	12 30.86	−13 42.9	2.204	3.164	6.5	20.5
5 1	12 24.72	−13 7.5	2.269	3.174	9.5	20.7
5 11	12 20.45	−12 36.8	2.357	3.183	12.2	20.9

383971 2008 TC_{68} 4 2.0 216.°47 0.°7/ 1.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.83	− 5 52.7	2.118	2.979	11.2	21.8
3 12	13 0.82	− 5 1.3	2.042	2.975	7.9	21.6
3 22	12 54.21	− 3 59.5	1.990	2.971	4.2	21.3
4 1	12 46.66	− 2 52.3	1.968	2.967	0.7	21.1
4 11	12 39.01	− 1 45.8	1.974	2.962	4.0	21.3
4 21	12 32.06	− 0 46.0	2.009	2.957	7.8	21.5
5 1	12 26.52	+ 0 2.0	2.068	2.952	11.2	21.7
5 11	12 22.87	+ 0 35.3	2.150	2.947	14.2	21.9

87384 2000 QT_{63} 4 2.0 252°.06 0°.9/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.47	− 3 57.4	2.070	2.930	11.5	19.9
3 12	13 3.55	− 3 29.7	1.980	2.913	8.2	19.7
3 22	12 55.77	− 2 53.8	1.915	2.895	4.3	19.4
4 1	12 46.81	− 2 13.6	1.879	2.877	0.9	19.1
4 11	12 37.60	− 1 34.4	1.871	2.859	4.3	19.3
4 21	12 29.05	− 1 1.3	1.892	2.840	8.3	19.5
5 1	12 22.00	− 0 38.7	1.939	2.820	12.0	19.7
5 11	12 17.02	− 0 29.3	2.007	2.800	15.1	19.9

403835 2011 UW_{249} 4 2.0 266°.38 1°.9/31.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.64	− 2 36.1	1.525	2.399	14.0	21.9
3 12	13 4.91	− 1 54.5	1.441	2.381	10.0	21.6
3 22	12 56.71	− 1 2.4	1.381	2.363	5.3	21.3
4 1	12 46.91	− 0 6.0	1.348	2.345	2.0	21.0
4 11	12 36.73	+ 0 46.7	1.341	2.326	5.9	21.2
4 21	12 27.45	+ 1 28.1	1.360	2.307	10.9	21.5
5 1	12 20.18	+ 1 52.5	1.402	2.288	15.4	21.7
5 11	12 15.64	+ 1 57.2	1.462	2.268	19.3	21.9

468479 2004 RF_{332} 4 2.0 238°.11 5°.7/26.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.68	+11 57.7	2.409	3.278	9.7	22.4
3 12	13 2.75	+13 10.5	2.334	3.261	7.4	22.2
3 22	12 55.23	+14 20.0	2.285	3.242	5.8	22.1
4 1	12 46.76	+15 19.5	2.266	3.223	6.1	22.1
4 11	12 38.13	+16 3.2	2.275	3.204	8.0	22.2
4 21	12 30.12	+16 27.7	2.310	3.183	10.5	22.3
5 1	12 23.43	+16 31.6	2.368	3.162	13.0	22.4
5 11	12 18.56	+16 15.6	2.446	3.140	15.2	22.6

323448 2004 HL_{29} 4 2.0 302°.72 0°.7/ 1.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.69	− 4 50.8	1.554	2.426	13.9	20.8
3 12	13 3.44	− 4 29.6	1.473	2.411	10.0	20.5
3 22	12 55.88	− 3 57.4	1.415	2.396	5.4	20.2
4 1	12 46.83	− 3 18.7	1.383	2.382	0.7	19.8
4 11	12 37.47	− 2 40.3	1.377	2.367	4.9	20.1
4 21	12 29.00	− 2 8.5	1.398	2.353	9.8	20.3
5 1	12 22.46	− 1 49.0	1.441	2.340	14.3	20.5
5 11	12 18.52	− 1 45.2	1.504	2.326	18.1	20.8

106013 2000 SQ_{292} 4 2.0 279°.61 0°.9/ 2.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.19	− 6 58.8	2.332	3.173	11.1	18.7
3 12	13 6.08	− 7 22.4	2.233	3.154	8.1	18.5
3 22	12 57.12	− 7 39.3	2.160	3.135	4.6	18.3
4 1	12 46.96	− 7 50.6	2.117	3.115	1.1	18.0
4 11	12 36.47	− 7 58.7	2.105	3.096	3.4	18.1
4 21	12 26.55	− 8 6.1	2.123	3.076	7.1	18.3
5 1	12 18.02	− 8 15.9	2.168	3.057	10.6	18.5
5 11	12 11.50	− 8 30.8	2.236	3.037	13.6	18.6

2545 Verbiest 4 2.0 113°.13 3°.4/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.16	−14 43.1	1.491	2.330	16.3	16.3
3 12	13 6.50	−14 44.8	1.429	2.342	12.3	16.1
3 22	12 57.43	−14 26.0	1.390	2.355	7.8	15.8
4 1	12 46.98	−13 48.8	1.376	2.367	3.9	15.6
4 11	12 36.49	−12 59.1	1.388	2.379	4.8	15.7
4 21	12 27.25	−12 4.7	1.427	2.390	8.9	16.0
5 1	12 20.27	−11 13.8	1.490	2.401	13.1	16.2
5 11	12 16.10	−10 33.1	1.574	2.412	16.7	16.5

217884 2001 RK_{42} 4 2.0 186°.42 0°.4/ 1.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.11	− 4 38.3	2.209	3.060	11.2	21.4
3 12	13 5.19	− 4 26.9	2.132	3.060	8.0	21.2
3 22	12 56.55	− 4 8.3	2.081	3.059	4.3	21.0
4 1	12 46.90	− 3 45.8	2.059	3.058	0.5	20.7
4 11	12 37.14	− 3 23.4	2.067	3.056	3.7	21.0
4 21	12 28.14	− 3 5.1	2.105	3.053	7.5	21.2
5 1	12 20.66	− 2 54.4	2.169	3.050	10.9	21.4
5 11	12 15.19	− 2 53.7	2.255	3.046	13.8	21.6

141948 2002 PK_{110} 4 2.0 261°.58 0°.1/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.87	− 6 30.6	1.671	2.532	13.7	20.2
3 12	13 4.88	− 6 17.0	1.587	2.520	9.9	20.0
3 22	12 56.63	− 5 51.8	1.528	2.507	5.4	19.7
4 1	12 46.92	− 5 18.8	1.495	2.494	0.6	19.3
4 11	12 36.92	− 4 43.5	1.490	2.481	4.4	19.5
4 21	12 27.77	− 4 12.1	1.512	2.468	9.2	19.8
5 1	12 20.51	− 3 50.0	1.558	2.455	13.5	20.0
5 11	12 15.79	− 3 41.1	1.624	2.441	17.1	20.2

353906 2012 XY_{84} 4 2.0 121°.58 5°.5/25.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.48	+13 58.4	2.736	3.605	8.7	21.7
3 12	13 0.17	+15 11.4	2.697	3.620	6.8	21.6
3 22	12 53.70	+16 18.3	2.685	3.635	5.5	21.5
4 1	12 46.63	+17 13.7	2.702	3.649	5.8	21.5
4 11	12 39.61	+17 53.5	2.747	3.663	7.4	21.6
4 21	12 33.26	+18 15.5	2.818	3.676	9.3	21.8
5 1	12 28.07	+18 19.3	2.913	3.689	11.2	22.0
5 11	12 24.38	+18 6.1	3.026	3.702	12.9	22.1

325129 2008 EN_{122} 4 2.0 170°.80 0°.8/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 6.24	− 7 9.0	1.854	2.716	12.5	21.2
3 12	13 1.25	− 5 49.1	1.784	2.719	8.8	20.9
3 22	12 54.50	− 4 15.1	1.739	2.720	4.6	20.7
4 1	12 46.72	− 2 34.0	1.723	2.722	0.8	20.4
4 11	12 38.89	− 0 54.5	1.735	2.723	4.5	20.7
4 21	12 31.90	+ 0 35.2	1.776	2.723	8.7	20.9
5 1	12 26.52	+ 1 48.6	1.841	2.724	12.5	21.1
5 11	12 23.24	+ 2 42.0	1.928	2.724	15.6	21.4

469263 2016 JP_{30} 4 2.0 268°.30 4°.4/28.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.49	+ 5 20.7	2.041	2.918	10.9	21.3
3 12	13 2.18	+ 6 32.9	1.956	2.895	7.8	21.0
3 22	12 55.06	+ 7 47.9	1.897	2.871	5.1	20.8
4 1	12 46.79	+ 8 58.5	1.866	2.847	4.7	20.7
4 11	12 38.27	+ 9 57.4	1.864	2.823	7.3	20.8
4 21	12 30.38	+10 39.0	1.888	2.798	10.6	21.0
5 1	12 23.97	+11 0.2	1.935	2.773	13.9	21.1
5 11	12 19.59	+11 0.2	2.002	2.747	16.7	21.3

165355 2000 WC_{58} 4 2.0 176°.92 3°.6/29.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.16	+ 3 29.5	2.069	2.938	11.1	20.4
3 12	13 4.55	+ 4 27.7	2.005	2.941	7.8	20.2
3 22	12 56.21	+ 5 28.0	1.967	2.943	4.7	20.0
4 1	12 46.90	+ 6 24.2	1.958	2.945	3.7	20.0
4 11	12 37.55	+ 7 9.9	1.978	2.945	6.2	20.1
4 21	12 29.06	+ 7 40.9	2.026	2.945	9.5	20.3
5 1	12 22.16	+ 7 54.6	2.099	2.944	12.7	20.5
5 11	12 17.33	+ 7 50.8	2.192	2.942	15.3	20.7

62597 2000 SB_{311} 4 2.0 187°.93 5°.1/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.10	−25 20.2	2.967	3.721	11.1	20.3
3 12	13 2.22	−25 40.1	2.876	3.720	9.2	20.2
3 22	12 54.93	−25 44.0	2.808	3.719	7.2	20.0
4 1	12 46.79	−25 31.3	2.767	3.717	5.5	19.9
4 11	12 38.48	−25 3.8	2.755	3.715	5.1	19.9
4 21	12 30.71	−24 24.6	2.771	3.713	6.3	19.9
5 1	12 24.10	−23 38.3	2.814	3.710	8.2	20.1
5 11	12 19.09	−22 50.0	2.883	3.707	10.2	20.2

321172 2008 VD_{74} 4 2.0 143°.57 0°.2/ 1.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.40	− 6 44.0	2.157	3.013	11.2	21.6
3 12	13 1.17	− 6 5.1	2.087	3.018	7.9	21.4
3 22	12 54.39	− 5 16.2	2.043	3.022	4.3	21.1
4 1	12 46.73	− 4 21.7	2.027	3.026	0.4	20.8
4 11	12 39.03	− 3 27.0	2.040	3.030	3.6	21.1
4 21	12 32.06	− 2 37.5	2.081	3.033	7.3	21.3
5 1	12 26.51	− 1 57.7	2.148	3.036	10.7	21.5
5 11	12 22.81	− 1 30.7	2.237	3.040	13.5	21.7

172449 2003 QN_{65} 4 2.0 192°.52 1°.3/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.65	− 3 37.3	1.971	2.832	11.9	21.8
3 12	13 4.33	− 2 55.5	1.897	2.830	8.4	21.5
3 22	12 56.17	− 2 5.1	1.848	2.828	4.4	21.3
4 1	12 46.91	− 1 11.2	1.827	2.825	1.3	21.0
4 11	12 37.54	− 0 20.0	1.836	2.821	4.6	21.3
4 21	12 29.00	+ 0 22.9	1.873	2.817	8.6	21.5
5 1	12 22.09	+ 0 53.0	1.935	2.812	12.2	21.7
5 11	12 17.34	+ 1 8.1	2.018	2.806	15.3	21.9

7370 Krasnogolovets 4 2.0 293°.58 1°.5/31.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.21	− 2 35.2	1.781	2.652	12.5	17.2
3 12	13 2.75	− 2 1.5	1.710	2.649	8.8	17.0
3 22	12 55.37	− 1 20.0	1.664	2.646	4.7	16.7
4 1	12 46.84	− 0 36.1	1.645	2.643	1.5	16.5
4 11	12 38.20	+ 0 4.1	1.654	2.640	4.9	16.7
4 21	12 30.43	+ 0 35.1	1.690	2.637	9.1	17.0
5 1	12 24.37	+ 0 52.7	1.750	2.634	12.9	17.2
5 11	12 20.56	+ 0 54.8	1.829	2.631	16.1	17.4

389695 2011 QJ_{49} 4 2.0 128°.85 0°.7/ 2.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.88	− 8 0.0	2.566	3.407	10.2	21.2
3 12	13 2.71	− 8 0.4	2.494	3.415	7.3	21.0
3 22	12 55.16	− 7 52.7	2.448	3.423	4.1	20.8
4 1	12 46.82	− 7 39.2	2.432	3.430	1.0	20.6
4 11	12 38.44	− 7 22.8	2.446	3.437	2.9	20.7
4 21	12 30.71	− 7 7.1	2.489	3.444	6.1	20.9
5 1	12 24.25	− 6 55.0	2.560	3.451	9.1	21.1
5 11	12 19.47	− 6 49.4	2.654	3.457	11.6	21.3

376143 2011 BW_{19} 4 2.0 25°.42 5°.7/ 6.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.03	−19 20.1	1.742	2.554	15.5	20.1
3 12	13 5.71	−20 3.8	1.666	2.555	12.3	19.9
3 22	12 57.09	−20 27.9	1.612	2.557	8.9	19.7
4 1	12 47.02	−20 31.0	1.583	2.558	6.2	19.5
4 11	12 36.69	−20 15.5	1.581	2.560	6.1	19.5
4 21	12 27.29	−19 46.1	1.605	2.562	8.7	19.7
5 1	12 19.85	−19 10.0	1.654	2.564	12.1	19.9
5 11	12 15.03	−18 34.8	1.725	2.566	15.3	20.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
504431 2008 AH_{59}			4 2.0 173°.12	5°.4/ 9.6 18		
	h m	° ′			°	m
3 2	13 7.67	−27 58.4	3.041	3.776	11.3	22.7
3 12	13 1.89	−28 11.4	2.951	3.779	9.4	22.6
3 22	12 54.75	−28 7.0	2.885	3.782	7.5	22.4
4 1	12 46.80	−27 44.8	2.845	3.784	6.0	22.3
4 11	12 38.73	−27 6.7	2.833	3.785	5.5	22.3
4 21	12 31.21	−26 16.1	2.849	3.786	6.3	22.4
5 1	12 24.86	−25 17.7	2.893	3.787	8.1	22.5
5 11	12 20.10	−24 17.0	2.962	3.787	10.0	22.6
370996 2005 TM_{51}			4 2.0 210°.16	2°.1/30.6 17		
3 2	13 8.88	+ 0 8.8	2.467	3.329	9.8	22.6
3 12	13 2.82	+ 0 56.6	2.386	3.321	6.9	22.4
3 22	12 55.28	+ 1 49.1	2.332	3.312	3.8	22.2
4 1	12 46.85	+ 2 41.4	2.308	3.302	2.2	22.1
4 11	12 38.29	+ 3 28.4	2.314	3.291	4.7	22.2
4 21	12 30.36	+ 4 6.0	2.350	3.280	7.9	22.4
5 1	12 23.69	+ 4 30.8	2.411	3.267	10.9	22.6
5 11	12 18.76	+ 4 41.4	2.494	3.254	13.4	22.7
219592 2001 TS_{31}			4 2.0 175°.31	2°.1/31.1 18		
3 2	13 12.28	+ 0 52.0	2.291	3.151	10.5	20.6
3 12	13 5.22	+ 1 14.1	2.220	3.154	7.4	20.4
3 22	12 56.55	+ 1 39.0	2.177	3.156	4.0	20.2
4 1	12 46.97	+ 2 2.7	2.163	3.157	2.1	20.0
4 11	12 37.34	+ 2 20.9	2.179	3.158	4.7	20.2
4 21	12 28.49	+ 2 30.3	2.225	3.159	8.0	20.4
5 1	12 21.12	+ 2 28.7	2.296	3.158	11.1	20.6
5 11	12 15.69	+ 2 15.2	2.390	3.157	13.7	20.8
101769 1999 FF_{52}			4 2.0 158°.01	2°.6/ 4.5 18		R
3 2	13 12.53	−13 40.2	2.186	3.008	12.4	18.9
3 12	13 5.56	−13 50.7	2.110	3.015	9.3	18.7
3 22	12 56.80	−13 47.6	2.059	3.021	5.9	18.5
4 1	12 47.00	−13 32.2	2.036	3.027	3.0	18.4
4 11	12 37.09	−13 7.9	2.043	3.032	3.7	18.4
4 21	12 27.98	−12 38.9	2.079	3.036	7.0	18.6
5 1	12 20.45	−12 10.4	2.141	3.040	10.2	18.8
5 11	12 15.02	−11 46.9	2.227	3.044	13.1	19.0
320314 2007 TQ_{7}			4 2.1 251°.60	1°.6/31.6 16		
3 2	13 10.25	− 3 19.8	1.786	2.652	12.7	21.0
3 12	13 4.39	− 2 29.9	1.696	2.633	9.0	20.8
3 22	12 56.38	− 1 29.3	1.632	2.613	4.8	20.5
4 1	12 46.98	− 0 23.8	1.595	2.592	1.7	20.2
4 11	12 37.23	+ 0 39.2	1.586	2.571	5.3	20.4
4 21	12 28.23	+ 1 32.6	1.605	2.548	9.8	20.6
5 1	12 20.96	+ 2 10.8	1.647	2.526	13.9	20.8
5 11	12 16.07	+ 2 30.6	1.710	2.502	17.4	21.0
41719 2000 UL_{79}			4 2.1 229°.52	3°.0/ 4.7 18		
3 2	13 9.50	−15 21.1	1.772	2.603	14.4	19.5
3 12	13 3.87	−15 1.0	1.685	2.594	11.0	19.3
3 22	12 56.09	−14 20.7	1.621	2.585	7.0	19.0
4 1	12 46.95	−13 22.6	1.583	2.575	3.5	18.8
4 11	12 37.54	−12 12.1	1.573	2.564	4.2	18.8
4 21	12 28.97	−10 57.0	1.591	2.553	8.2	19.0
5 1	12 22.20	− 9 45.5	1.634	2.542	12.3	19.2
5 11	12 17.86	− 8 44.9	1.698	2.530	15.9	19.4
296256 2009 DB_{28}			4 2.1 316°.59	3°.1/29.4 17		
3 2	13 4.15	+ 1 32.7	2.087	2.965	10.6	20.4
3 12	12 59.66	+ 2 44.4	2.020	2.962	7.4	20.2
3 22	12 53.62	+ 4 0.5	1.980	2.959	4.3	20.0
4 1	12 46.71	+ 5 14.7	1.967	2.956	3.3	19.9
4 11	12 39.72	+ 6 20.0	1.983	2.954	5.9	20.1
4 21	12 33.44	+ 7 11.2	2.025	2.951	9.2	20.3
5 1	12 28.53	+ 7 44.7	2.092	2.948	12.3	20.5
5 11	12 25.46	+ 7 59.4	2.179	2.946	14.9	20.7
178663 2000 QA_{86}			4 2.1 205°.59	3°.1/ 6.2 17		
3 2	13 6.60	−18 48.4	3.091	3.883	9.9	21.7
3 12	13 1.08	−18 45.9	2.996	3.877	7.7	21.6
3 22	12 54.30	−18 30.3	2.926	3.870	5.4	21.4
4 1	12 46.78	−18 2.7	2.885	3.863	3.5	21.3
4 11	12 39.12	−17 25.3	2.874	3.856	3.4	21.3
4 21	12 31.94	−16 41.7	2.892	3.848	5.3	21.4
5 1	12 25.78	−15 56.0	2.939	3.839	7.7	21.5
5 11	12 21.07	−15 12.4	3.010	3.830	10.0	21.7
409706 2006 BN_{128}			4 2.1 343°.43	1°.6/31.9 17		
3 2	13 4.67	− 4 14.9	1.031	1.928	17.2	20.3
3 12	13 1.30	− 3 37.2	0.966	1.916	12.2	20.0
3 22	12 55.02	− 2 43.7	0.921	1.906	6.5	19.6
4 1	12 46.86	− 1 42.4	0.898	1.896	1.6	19.3
4 11	12 38.40	− 0 44.3	0.898	1.888	6.6	19.5
4 21	12 31.20	+ 0 0.3	0.919	1.882	12.6	19.8
5 1	12 26.55	+ 0 23.8	0.960	1.877	17.9	20.1
5 11	12 25.18	+ 0 22.8	1.017	1.873	22.4	20.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
317073 2001 SM_{209}			4 2.1 6°.94	1°.2/ 1.0 17		
	h m	° ′			°	m
3 2	13 7.18	− 4 30.9	1.532	2.408	13.9	20.1
3 12	13 2.24	− 3 46.7	1.467	2.408	9.8	19.9
3 22	12 55.18	− 2 51.2	1.426	2.408	5.2	19.6
4 1	12 46.87	− 1 50.5	1.410	2.409	1.2	19.3
4 11	12 38.46	− 0 52.8	1.422	2.410	5.2	19.6
4 21	12 31.07	− 0 5.2	1.458	2.411	9.8	19.9
5 1	12 25.60	+ 0 27.0	1.519	2.413	13.9	20.1
5 11	12 22.60	+ 0 40.7	1.598	2.415	17.4	20.3
192502 1998 KN_{26}			4 2.1 264°.91	3°.2/30.2 18		
3 2	13 10.84	+ 3 26.8	2.052	2.922	11.1	20.6
3 12	13 4.55	+ 3 56.4	1.966	2.903	7.9	20.3
3 22	12 56.36	+ 4 27.9	1.906	2.884	4.7	20.1
4 1	12 46.99	+ 4 56.1	1.875	2.865	3.3	20.0
4 11	12 37.37	+ 5 15.6	1.872	2.845	5.9	20.1
4 21	12 28.45	+ 5 22.6	1.896	2.825	9.5	20.3
5 1	12 21.07	+ 5 14.6	1.946	2.805	12.9	20.4
5 11	12 15.81	+ 4 51.1	2.016	2.784	15.9	20.6
211179 2002 JQ_{79}			4 2.1 258°.38	1°.1/ 1.3 17		
3 2	13 11.47	− 3 40.2	1.597	2.465	13.8	19.9
3 12	13 5.38	− 3 19.4	1.518	2.455	9.8	19.6
3 22	12 56.95	− 2 49.2	1.463	2.445	5.3	19.3
4 1	12 47.05	− 2 14.4	1.435	2.434	1.1	19.0
4 11	12 36.88	− 1 41.4	1.435	2.423	5.1	19.2
4 21	12 27.64	− 1 16.2	1.460	2.412	9.9	19.5
5 1	12 20.38	− 1 3.5	1.510	2.401	14.2	19.7
5 11	12 15.74	− 1 6.1	1.579	2.389	17.8	19.9
347983 2003 SB_{99}			4 2.1 174°.44	6°.1/ 9.1 17		
3 2	13 8.94	−26 38.5	2.443	3.198	13.2	21.0
3 12	13 3.06	−26 54.1	2.356	3.200	11.0	20.9
3 22	12 55.49	−26 49.4	2.293	3.202	8.6	20.7
4 1	12 46.90	−26 23.7	2.254	3.203	6.7	20.6
4 11	12 38.15	−25 39.1	2.243	3.204	6.1	20.6
4 21	12 30.09	−24 40.1	2.260	3.205	7.3	20.6
5 1	12 23.48	−23 33.2	2.304	3.205	9.5	20.8
5 11	12 18.82	−22 25.1	2.371	3.204	11.9	20.9
494838 2007 UU_{104}			4 2.1 196°.44	3°.7/29.2 17		
3 2	13 11.49	+ 4 32.8	2.243	3.109	10.5	22.8
3 12	13 4.76	+ 5 29.2	2.171	3.105	7.5	22.6
3 22	12 56.36	+ 6 26.9	2.126	3.101	4.6	22.4
4 1	12 46.99	+ 7 20.1	2.110	3.095	3.8	22.3
4 11	12 37.53	+ 8 3.0	2.125	3.089	6.2	22.5
4 21	12 28.82	+ 8 31.5	2.168	3.081	9.3	22.6
5 1	12 21.59	+ 8 43.4	2.235	3.072	12.3	22.8
5 11	12 16.32	+ 8 38.3	2.324	3.063	14.8	23.0
129182 2005 LK_{38}			4 2.1 280°.08	4°.0/29.5 17		
3 2	13 7.78	+ 2 2.9	1.597	2.480	13.0	20.3
3 12	13 2.73	+ 3 11.8	1.523	2.467	9.2	20.0
3 22	12 55.50	+ 4 26.8	1.473	2.453	5.4	19.7
4 1	12 46.93	+ 5 39.7	1.449	2.439	4.2	19.6
4 11	12 38.12	+ 6 41.5	1.453	2.425	7.4	19.8
4 21	12 30.20	+ 7 25.2	1.481	2.411	11.5	20.0
5 1	12 24.14	+ 7 46.7	1.532	2.397	15.5	20.2
5 11	12 20.54	+ 7 45.1	1.601	2.383	18.8	20.4
384187 2009 BR_{94}			4 2.1 84°.50	0°.0/ 1.9 17		
3 2	13 7.16	− 7 17.3	2.188	3.041	11.2	21.8
3 12	13 1.59	− 6 42.1	2.135	3.063	7.9	21.6
3 22	12 54.57	− 5 57.4	2.107	3.085	4.3	21.4
4 1	12 46.82	− 5 7.5	2.107	3.106	0.4	21.2
4 11	12 39.14	− 4 17.6	2.137	3.128	3.4	21.5
4 21	12 32.29	− 3 32.5	2.195	3.148	6.9	21.7
5 1	12 26.86	− 2 56.4	2.280	3.169	10.1	21.9
5 11	12 23.25	− 2 32.0	2.386	3.190	12.7	22.2
219734 2001 XH_{163}			4 2.1 175°.81	1°.1/31.9 17		
3 2	13 8.26	− 3 52.6	2.325	3.183	10.5	21.7
3 12	13 2.41	− 3 6.9	2.253	3.186	7.3	21.5
3 22	12 55.07	− 2 13.8	2.208	3.188	3.9	21.3
4 1	12 46.88	− 1 17.7	2.191	3.189	1.1	21.1
4 11	12 38.63	− 0 24.0	2.205	3.190	4.0	21.3
4 21	12 31.08	+ 0 22.4	2.248	3.190	7.5	21.5
5 1	12 24.88	+ 0 57.7	2.316	3.190	10.6	21.7
5 11	12 20.48	+ 1 19.6	2.407	3.189	13.3	21.9
46081 2001 EB_{10}			4 2.1 265°.76	1°.5/31.6 18		
3 2	13 6.44	− 3 5.7	1.995	2.864	11.5	19.3
3 12	13 1.39	− 2 21.0	1.919	2.857	8.1	19.1
3 22	12 54.63	− 1 28.1	1.868	2.849	4.3	18.8
4 1	12 46.84	− 0 32.1	1.845	2.842	1.5	18.6
4 11	12 38.91	+ 0 20.7	1.850	2.835	4.6	18.8
4 21	12 31.72	+ 1 4.8	1.882	2.827	8.5	19.0
5 1	12 26.02	+ 1 35.8	1.940	2.820	12.0	19.2
5 11	12 22.32	+ 1 51.2	2.018	2.813	15.0	19.4

191714 2004 RX_{199} 4 2.1 195°.78 2°.1/ 4.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.08	−13 37.5	2.552	3.373	10.9	21.1
3 12	13 2.99	−13 28.7	2.465	3.370	8.1	20.9
3 22	12 55.40	−13 7.5	2.403	3.367	5.1	20.7
4 1	12 46.91	−12 35.5	2.370	3.362	2.4	20.5
4 11	12 38.29	−11 56.2	2.367	3.357	3.1	20.5
4 21	12 30.26	−11 13.9	2.394	3.352	6.2	20.7
5 1	12 23.51	−10 33.2	2.448	3.346	9.2	20.9
5 11	12 18.49	− 9 58.4	2.526	3.339	11.9	21.0

415373 2013 LN_{12} 4 2.1 249°.44 1°.0/ 3.0 17

3 2	13 7.78	−10 55.6	1.714	2.566	13.9	21.4
3 12	13 2.66	−10 12.5	1.629	2.555	10.1	21.2
3 22	12 55.45	− 9 11.4	1.569	2.544	5.8	20.9
4 1	12 46.93	− 7 56.7	1.535	2.533	1.4	20.5
4 11	12 38.17	− 6 35.8	1.529	2.521	4.0	20.7
4 21	12 30.23	− 5 17.0	1.550	2.510	8.7	20.9
5 1	12 24.07	− 4 8.3	1.596	2.497	12.9	21.2
5 11	12 20.28	− 3 15.5	1.662	2.485	16.6	21.4

354869 2006 BF_5 4 2.1 33°.67 4°.5/29.6 18

3 2	13 8.22	+ 1 31.0	1.198	2.092	15.5	20.5
3 12	13 3.30	+ 2 45.9	1.148	2.097	10.9	20.3
3 22	12 55.85	+ 4 6.9	1.120	2.102	6.3	20.0
4 1	12 46.96	+ 5 23.3	1.117	2.109	4.7	20.0
4 11	12 38.09	+ 6 24.2	1.139	2.115	8.4	20.2
4 21	12 30.57	+ 7 2.0	1.183	2.122	13.0	20.5
5 1	12 25.42	+ 7 13.5	1.248	2.129	17.2	20.7
5 11	12 23.15	+ 6 59.3	1.330	2.137	20.7	21.0

257261 Ovechkin 4 2.1 303°.09 1°.8/ 3.4 17

3 2	13 7.97	−10 59.2	1.414	2.276	15.7	20.8
3 12	13 3.22	−10 44.0	1.331	2.260	11.6	20.5
3 22	12 55.95	−10 9.6	1.269	2.245	6.9	20.2
4 1	12 46.99	− 9 19.4	1.232	2.229	2.2	19.8
4 11	12 37.64	− 8 20.1	1.221	2.214	4.6	20.0
4 21	12 29.21	− 7 20.2	1.234	2.199	9.8	20.2
5 1	12 22.89	− 6 28.4	1.271	2.185	14.6	20.4
5 11	12 19.40	− 5 51.4	1.326	2.171	18.8	20.7

342925 2008 YO_{169} 4 2.1 175°.37 1°.3/31.6 18

3 2	13 5.55	− 3 24.8	2.219	3.084	10.6	21.0
3 12	13 0.58	− 2 36.1	2.149	3.085	7.4	20.8
3 22	12 54.11	− 1 39.9	2.104	3.086	3.9	20.6
4 1	12 46.80	− 0 41.2	2.088	3.086	1.3	20.4
4 11	12 39.43	+ 0 14.5	2.101	3.086	4.2	20.6
4 21	12 32.75	+ 1 2.1	2.143	3.086	7.7	20.9
5 1	12 27.41	+ 1 37.5	2.209	3.086	10.9	21.1
5 11	12 23.84	+ 1 58.6	2.297	3.086	13.6	21.2

262148 2006 SZ_{73} 4 2.1 296°.93 1°.9/31.5 17

3 2	13 7.31	− 3 16.0	1.483	2.362	14.0	20.7
3 12	13 2.59	− 2 23.6	1.402	2.345	9.9	20.4
3 22	12 55.54	− 1 18.8	1.345	2.328	5.3	20.1
4 1	12 46.96	− 0 8.7	1.313	2.311	2.0	19.8
4 11	12 38.06	+ 0 57.9	1.308	2.294	5.9	20.1
4 21	12 30.06	+ 1 52.5	1.328	2.277	10.9	20.3
5 1	12 24.01	+ 2 28.8	1.370	2.261	15.4	20.5
5 11	12 20.60	+ 2 43.5	1.431	2.245	19.2	20.7

233343 2006 DH_{13} 4 2.1 95°.64 0°.7/ 2.8 18

3 2	13 7.22	− 9 41.2	1.916	2.768	12.6	20.9
3 12	13 1.90	− 9 4.9	1.852	2.779	9.1	20.7
3 22	12 54.86	− 8 15.1	1.813	2.789	5.1	20.4
4 1	12 46.88	− 7 16.3	1.802	2.800	1.1	20.2
4 11	12 38.89	− 6 14.7	1.818	2.810	3.6	20.4
4 21	12 31.78	− 5 16.6	1.863	2.821	7.6	20.6
5 1	12 26.27	− 4 27.6	1.933	2.831	11.2	20.9
5 11	12 22.82	− 3 51.8	2.024	2.841	14.2	21.1

273118 2006 FD_{43} 4 2.1 172°.58 1°.5/31.5 17

3 2	13 6.52	− 3 14.1	2.012	2.880	11.4	20.9
3 12	13 1.38	− 2 21.6	1.943	2.880	8.0	20.7
3 22	12 54.59	− 1 20.9	1.900	2.881	4.2	20.5
4 1	12 46.86	− 0 17.6	1.885	2.882	1.5	20.3
4 11	12 39.06	+ 0 42.0	1.898	2.882	4.6	20.5
4 21	12 32.03	+ 1 32.1	1.939	2.883	8.4	20.7
5 1	12 26.50	+ 2 8.4	2.005	2.883	11.8	20.9
5 11	12 22.92	+ 2 28.7	2.092	2.883	14.7	21.1

396254 2014 CP_2 4 2.1 44°.76 3°.5/ 5.1 17

3 2	13 10.60	−14 55.7	2.066	2.889	13.0	20.3
3 12	13 4.32	−15 25.8	1.994	2.897	9.9	20.2
3 22	12 56.21	−15 41.8	1.946	2.904	6.6	20.0
4 1	12 47.02	−15 44.1	1.925	2.912	3.8	19.8
4 11	12 37.71	−15 35.2	1.933	2.920	4.2	19.8
4 21	12 29.22	−15 19.1	1.969	2.928	7.2	20.0
5 1	12 22.34	−15 0.7	2.031	2.936	10.4	20.2
5 11	12 17.60	−14 45.0	2.115	2.945	13.2	20.4

57745 2001 UT_{170} 4 2.1 310°.15 0°.7/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.87	− 4 27.9	1.527	2.400	14.1	18.8
3 12	13 3.67	− 4 10.8	1.445	2.384	10.1	18.5
3 22	12 56.11	− 3 43.1	1.387	2.369	5.4	18.2
4 1	12 47.02	− 3 9.5	1.355	2.354	0.8	17.8
4 11	12 37.61	− 2 36.4	1.349	2.339	5.0	18.1
4 21	12 29.08	− 2 10.2	1.369	2.325	9.9	18.4
5 1	12 22.51	− 1 56.1	1.411	2.311	14.4	18.6
5 11	12 18.59	− 1 57.5	1.473	2.298	18.3	18.8

120383 2005 QD_{26} 4 2.1 234°.64 1°.7/30.8 18

3 2	13 4.20	− 1 30.3	2.704	3.569	9.0	20.1
3 12	12 59.47	− 0 34.8	2.622	3.558	6.2	19.9
3 22	12 53.49	+ 0 26.2	2.567	3.547	3.3	19.7
4 1	12 46.76	+ 1 28.6	2.541	3.536	1.7	19.6
4 11	12 39.93	+ 2 27.2	2.546	3.525	4.1	19.7
4 21	12 33.60	+ 3 17.7	2.579	3.513	7.1	19.9
5 1	12 28.35	+ 3 56.8	2.638	3.501	9.8	20.1
5 11	12 24.57	+ 4 22.4	2.720	3.489	12.2	20.2

216068 2006 QO_{14} 4 2.1 271°.32 1°.4/31.9 17

3 2	13 9.53	− 3 42.5	1.544	2.417	13.9	20.4
3 12	13 3.98	− 3 6.7	1.473	2.412	9.9	20.1
3 22	12 56.19	− 2 20.5	1.426	2.408	5.2	19.8
4 1	12 47.03	− 1 29.8	1.406	2.404	1.4	19.5
4 11	12 37.71	− 0 42.1	1.412	2.399	5.3	19.8
4 21	12 29.39	− 0 4.2	1.444	2.395	10.0	20.0
5 1	12 23.04	+ 0 18.9	1.499	2.391	14.2	20.3
5 11	12 19.27	+ 0 24.5	1.574	2.387	17.8	20.5

387274 2012 UV_{120} 4 2.1 132°.38 1°.7/ 3.9 17

3 2	13 7.10	−11 53.4	2.315	3.151	11.3	20.7
3 12	13 1.67	−11 44.1	2.239	3.154	8.4	20.5
3 22	12 54.71	−11 22.8	2.189	3.158	5.1	20.3
4 1	12 46.88	−10 51.6	2.166	3.161	2.0	20.1
4 11	12 38.97	−10 14.5	2.173	3.164	3.1	20.2
4 21	12 31.73	− 9 36.0	2.208	3.168	6.5	20.4
5 1	12 25.85	− 9 0.9	2.269	3.171	9.6	20.6
5 11	12 21.77	− 8 33.0	2.354	3.174	12.4	20.8

329812 2004 RS_{91} 4 2.1 271°.86 3°.0/ 4.9 17

3 2	13 7.32	−15 44.9	1.921	2.750	13.6	21.1
3 12	13 2.30	−15 25.3	1.823	2.731	10.4	20.8
3 22	12 55.28	−14 46.3	1.749	2.711	6.8	20.6
4 1	12 46.95	−13 49.9	1.700	2.691	3.5	20.3
4 11	12 38.30	−12 40.8	1.680	2.671	4.0	20.3
4 21	12 30.32	−11 26.0	1.688	2.651	7.8	20.5
5 1	12 23.92	−10 13.5	1.721	2.630	11.7	20.7
5 11	12 19.76	− 9 10.2	1.776	2.609	15.2	20.9

191993 2005 XX_7 4 2.1 173°.38 2°.3/ 4.3 18

3 2	13 11.09	−14 25.8	1.838	2.668	14.0	21.2
3 12	13 4.82	−13 50.8	1.761	2.673	10.5	20.9
3 22	12 56.53	−12 56.6	1.709	2.676	6.5	20.7
4 1	12 47.07	−11 46.8	1.684	2.678	2.7	20.5
4 11	12 37.50	−10 27.8	1.688	2.680	3.9	20.5
4 21	12 28.86	− 9 7.5	1.720	2.680	7.9	20.8
5 1	12 22.03	− 7 53.8	1.778	2.680	11.8	21.0
5 11	12 17.55	− 6 52.8	1.858	2.679	15.2	21.2

353543 2011 SA_{176} 4 2.1 177°.80 1°.8/ 4.6 17

3 2	13 5.84	−13 59.4	3.158	3.974	9.1	22.1
3 12	13 0.47	−13 46.6	3.074	3.976	6.8	21.9
3 22	12 53.97	−13 23.4	3.016	3.977	4.3	21.8
4 1	12 46.82	−12 51.5	2.987	3.978	2.1	21.6
4 11	12 39.59	−12 13.7	2.989	3.979	2.6	21.7
4 21	12 32.86	−11 33.6	3.021	3.979	5.0	21.8
5 1	12 27.11	−10 54.7	3.081	3.978	7.5	22.0
5 11	12 22.72	−10 20.4	3.166	3.977	9.7	22.1

147917 2006 UT_{201} 4 2.1 238°.37 0°.4/ 2.5 17

3 2	13 5.34	− 8 21.1	2.442	3.291	10.4	21.3
3 12	13 0.40	− 7 51.8	2.359	3.285	7.4	21.1
3 22	12 54.03	− 7 12.4	2.302	3.279	4.1	20.9
4 1	12 46.83	− 6 26.3	2.273	3.272	0.7	20.6
4 11	12 39.50	− 5 37.7	2.274	3.266	3.1	20.8
4 21	12 32.77	− 4 51.5	2.304	3.259	6.5	21.0
5 1	12 27.25	− 4 12.0	2.360	3.252	9.7	21.2
5 11	12 23.40	− 3 42.6	2.438	3.245	12.4	21.3

209052 2003 QA_{21} 4 2.1 275°.82 4°.5/28.9 17

3 2	13 8.55	+ 2 32.1	1.577	2.460	13.1	20.2
3 12	13 3.43	+ 3 55.5	1.493	2.436	9.4	19.9
3 22	12 56.00	+ 5 26.7	1.433	2.412	5.7	19.7
4 1	12 47.04	+ 6 56.5	1.401	2.388	4.8	19.5
4 11	12 37.68	+ 8 14.6	1.395	2.363	8.1	19.7
4 21	12 29.14	+ 9 12.7	1.414	2.338	12.5	19.8
5 1	12 22.47	+ 9 45.7	1.455	2.313	16.6	20.0
5 11	12 18.38	+ 9 52.2	1.514	2.287	20.1	20.2

465404 2008 HQ_{46} 4 2.1 283°.34 2°.8/30.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.87	− 0 18.4	1.722	2.599	12.5	21.5
3 12	13 2.76	+ 0 35.0	1.638	2.579	8.9	21.2
3 22	12 55.55	+ 1 36.3	1.578	2.560	4.9	20.9
4 1	12 46.99	+ 2 38.7	1.546	2.540	2.9	20.8
4 11	12 38.14	+ 3 34.6	1.541	2.520	6.1	20.9
4 21	12 30.06	+ 4 17.3	1.562	2.501	10.4	21.1
5 1	12 23.70	+ 4 42.1	1.606	2.481	14.4	21.3
5 11	12 19.69	+ 4 46.8	1.670	2.461	17.8	21.5

261973 2006 QG_2 4 2.1 245°.39 0°.6/ 2.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.14	− 8 54.2	1.904	2.754	12.8	21.7
3 12	13 4.25	− 8 26.8	1.812	2.737	9.3	21.4
3 22	12 56.32	− 7 45.6	1.744	2.720	5.3	21.1
4 1	12 47.07	− 6 54.1	1.704	2.703	1.0	20.8
4 11	12 37.50	− 5 58.1	1.693	2.684	3.9	20.9
4 21	12 28.65	− 5 4.0	1.709	2.665	8.3	21.2
5 1	12 21.43	− 4 18.1	1.751	2.645	12.4	21.4
5 11	12 16.49	− 3 45.1	1.814	2.625	15.9	21.6

129813 1999 NJ 4 2.1 279°.30 4°.4/29.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.18	+ 2 59.9	1.640	2.520	12.9	20.7
3 12	13 4.62	+ 4 9.6	1.548	2.490	9.3	20.4
3 22	12 56.68	+ 5 26.0	1.481	2.459	5.7	20.2
4 1	12 47.12	+ 6 41.0	1.440	2.428	4.6	20.0
4 11	12 37.06	+ 7 45.1	1.426	2.396	7.9	20.1
4 21	12 27.72	+ 8 30.6	1.439	2.363	12.2	20.3
5 1	12 20.20	+ 8 52.8	1.473	2.331	16.4	20.5
5 11	12 15.28	+ 8 50.3	1.525	2.297	20.0	20.6

43078 1999 VX_{192} 4 2.1 240°.76 2°.8/ 4.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.03	−14 49.5	1.779	2.614	14.2	19.3
3 12	13 3.57	−14 29.0	1.691	2.603	10.8	19.1
3 22	12 55.98	−13 49.0	1.626	2.592	6.9	18.8
4 1	12 47.04	−12 51.6	1.588	2.581	3.2	18.6
4 11	12 37.82	−11 42.5	1.577	2.569	4.1	18.6
4 21	12 29.40	−10 29.3	1.594	2.556	8.2	18.8
5 1	12 22.76	− 9 20.1	1.635	2.544	12.3	19.0
5 11	12 18.51	− 8 21.8	1.699	2.531	15.9	19.2

174649 2003 SA_{173} 4 2.1 229°.53 1°.3/31.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.80	− 4 2.7	1.913	2.775	12.2	21.7
3 12	13 3.92	− 3 11.4	1.828	2.763	8.6	21.4
3 22	12 56.09	− 2 9.7	1.769	2.750	4.6	21.1
4 1	12 47.05	− 1 3.2	1.739	2.737	1.3	20.9
4 11	12 37.77	+ 0 1.3	1.737	2.722	4.8	21.1
4 21	12 29.25	+ 0 57.1	1.763	2.707	9.0	21.3
5 1	12 22.36	+ 1 38.8	1.814	2.691	12.9	21.5
5 11	12 17.66	+ 2 3.5	1.885	2.675	16.1	21.7

326650 2002 TG_{60} 4 2.1 137°.84 4°.6/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.82	−23 52.1	1.264	2.080	20.0	20.1
3 12	13 4.55	−22 14.0	1.194	2.090	15.7	19.8
3 22	12 56.58	−19 52.5	1.144	2.098	10.7	19.6
4 1	12 47.09	−16 53.6	1.119	2.106	5.9	19.3
4 11	12 37.63	−13 32.3	1.122	2.114	5.4	19.3
4 21	12 29.62	−10 8.6	1.152	2.121	9.9	19.6
5 1	12 24.12	− 7 2.0	1.208	2.127	14.8	19.9
5 11	12 21.67	− 4 25.8	1.285	2.132	19.1	20.2

426571 2013 SA_{14} 4 2.1 192°.46 0°.0/ 2.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.53	− 7 48.4	1.963	2.819	12.2	21.8
3 12	13 2.18	− 7 6.7	1.888	2.818	8.7	21.6
3 22	12 55.08	− 6 12.7	1.838	2.817	4.7	21.4
4 1	12 46.95	− 5 11.0	1.816	2.815	0.5	21.0
4 11	12 38.71	− 4 7.8	1.823	2.814	3.8	21.3
4 21	12 31.26	− 3 9.5	1.857	2.812	7.9	21.5
5 1	12 25.37	− 2 21.6	1.917	2.809	11.6	21.8
5 11	12 21.54	− 1 47.9	1.999	2.807	14.7	22.0

222803 2002 CF_{234} 4 2.1 127°.76 1°.9/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.99	−12 4.6	2.279	3.107	11.8	20.7
3 12	13 5.05	−12 4.1	2.213	3.123	8.7	20.5
3 22	12 56.51	−11 51.4	2.173	3.140	5.3	20.3
4 1	12 47.09	−11 28.5	2.161	3.155	2.2	20.1
4 11	12 37.67	−10 59.2	2.180	3.170	3.3	20.2
4 21	12 29.07	−10 27.8	2.227	3.185	6.6	20.5
5 1	12 22.00	− 9 59.0	2.302	3.198	9.7	20.7
5 11	12 16.89	− 9 36.5	2.401	3.211	12.4	20.9

332350 2007 DR_{90} 4 2.1 264°.51 2°.3/30.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.04	− 1 28.7	1.851	2.725	12.0	21.0
3 12	13 1.99	− 0 30.1	1.772	2.712	8.4	20.8
3 22	12 55.05	+ 0 36.8	1.718	2.700	4.5	20.5
4 1	12 46.96	+ 1 45.7	1.692	2.687	2.4	20.4
4 11	12 38.66	+ 2 49.2	1.693	2.674	5.5	20.5
4 21	12 31.13	+ 3 40.8	1.722	2.661	9.6	20.7
5 1	12 25.19	+ 4 15.6	1.774	2.648	13.3	20.9
5 11	12 21.42	+ 4 31.7	1.846	2.634	16.5	21.1

151755 2003 EG_2 4 2.1 202°.57 5°.3/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 12.01	−20 59.1	2.077	2.869	14.0	20.2
3 12	13 5.51	−21 27.5	1.990	2.866	11.2	20.0
3 22	12 56.98	−21 36.9	1.926	2.863	8.3	19.8
4 1	12 47.15	−21 26.8	1.889	2.859	5.9	19.6
4 11	12 37.06	−20 59.1	1.879	2.855	5.6	19.6
4 21	12 27.72	−20 18.6	1.897	2.850	7.8	19.7
5 1	12 20.05	−19 31.8	1.941	2.845	10.9	19.9
5 11	12 14.66	−18 45.6	2.008	2.840	13.8	20.1

508517 2016 QW_{63} 4 2.1 268°.42 3°.2/ 5.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.54	−16 14.4	2.348	3.165	11.8	21.4
3 12	13 2.09	−16 23.5	2.260	3.158	9.1	21.2
3 22	12 55.03	−16 18.4	2.196	3.152	6.2	21.0
4 1	12 46.96	−15 59.8	2.160	3.145	3.6	20.8
4 11	12 38.71	−15 30.6	2.152	3.139	3.9	20.8
4 21	12 31.06	−14 55.0	2.172	3.132	6.5	21.0
5 1	12 24.76	−14 18.1	2.219	3.125	9.6	21.1
5 11	12 20.31	−13 44.8	2.289	3.119	12.4	21.3

210274 2007 TH_9 4 2.1 130°.64 0°.7/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.11	− 6 39.6	1.626	2.491	13.8	20.9
3 12	13 3.49	− 5 43.2	1.564	2.499	9.8	20.7
3 22	12 55.84	− 4 33.4	1.526	2.506	5.2	20.4
4 1	12 47.04	− 3 16.6	1.515	2.514	0.7	20.1
4 11	12 38.22	− 2 1.4	1.532	2.521	4.7	20.4
4 21	12 30.44	− 0 55.4	1.576	2.528	9.2	20.7
5 1	12 24.55	− 0 4.7	1.644	2.534	13.3	21.0
5 11	12 21.06	+ 0 27.3	1.732	2.540	16.6	21.2

359897 2011 WJ_{60} 4 2.1 203°.12 3°.3/30.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.09	+ 1 24.8	1.826	2.698	12.2	21.7
3 12	13 4.82	+ 2 23.9	1.755	2.694	8.6	21.5
3 22	12 56.56	+ 3 28.1	1.709	2.689	4.9	21.2
4 1	12 47.11	+ 4 30.4	1.692	2.683	3.4	21.1
4 11	12 37.54	+ 5 23.5	1.703	2.677	6.3	21.3
4 21	12 28.86	+ 6 1.8	1.741	2.670	10.2	21.5
5 1	12 21.92	+ 6 21.7	1.802	2.662	13.8	21.7
5 11	12 17.28	+ 6 22.4	1.884	2.653	16.8	21.9

4346 Whitney 4 2.1 264°.75 2°.4/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.69	−15 43.0	2.267	3.092	11.9	17.5
3 12	13 0.09	−15 11.3	2.177	3.083	9.0	17.3
3 22	12 53.95	−14 22.8	2.112	3.075	5.8	17.1
4 1	12 46.86	−13 20.1	2.075	3.066	2.9	16.9
4 11	12 39.62	−12 8.0	2.066	3.057	3.4	16.9
4 21	12 33.02	−10 52.7	2.086	3.048	6.6	17.1
5 1	12 27.73	− 9 40.5	2.132	3.039	9.9	17.3
5 11	12 24.25	− 8 37.1	2.202	3.030	12.8	17.5

430251 2013 WS_{19} 4 2.1 218°.96 3°.2/ 5.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.65	−18 6.9	2.245	3.056	12.5	21.1
3 12	13 1.51	−17 40.1	2.154	3.049	9.7	20.9
3 22	12 54.73	−16 54.7	2.088	3.043	6.5	20.7
4 1	12 46.95	−15 52.7	2.049	3.035	3.7	20.5
4 11	12 39.01	−14 38.8	2.039	3.028	3.8	20.5
4 21	12 31.73	−13 19.2	2.058	3.019	6.7	20.7
5 1	12 25.86	−12 0.8	2.103	3.011	10.0	20.9
5 11	12 21.89	−10 50.0	2.172	3.002	12.9	21.0

300072 2006 UV_{206} 4 2.1 88°.86 1°.8/ 4.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.92	−14 50.5	2.316	3.146	11.5	20.8
3 12	12 59.41	−14 0.2	2.243	3.153	8.6	20.6
3 22	12 53.50	−12 54.0	2.195	3.161	5.3	20.4
4 1	12 46.82	−11 35.6	2.175	3.169	2.3	20.2
4 11	12 40.12	−10 10.8	2.184	3.177	3.0	20.3
4 21	12 34.10	− 8 45.9	2.223	3.184	6.3	20.5
5 1	12 29.37	− 7 27.3	2.288	3.192	9.5	20.7
5 11	12 26.35	− 6 19.9	2.377	3.200	12.2	20.9

406418 2007 TP_{163} 4 2.1 170°.06 0°.9/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.98	− 4 36.6	1.940	2.799	12.2	22.1
3 12	13 4.60	− 3 55.5	1.870	2.803	8.6	21.9
3 22	12 56.38	− 3 5.2	1.827	2.807	4.5	21.6
4 1	12 47.11	− 2 10.6	1.811	2.810	0.9	21.4
4 11	12 37.78	− 1 17.9	1.825	2.812	4.4	21.6
4 21	12 29.33	− 0 33.1	1.867	2.814	8.4	21.9
5 1	12 22.54	− 0 0.4	1.934	2.815	12.1	22.1
5 11	12 17.93	+ 0 17.4	2.023	2.815	15.1	22.3

32328 2000 QW_{63} 4 2.1 227°.63 0°.2/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.86	− 5 17.6	2.271	3.121	11.0	18.9
3 12	13 4.45	− 5 2.2	2.182	3.110	7.8	18.7
3 22	12 56.32	− 4 38.8	2.119	3.097	4.2	18.5
4 1	12 47.11	− 4 10.7	2.085	3.084	0.4	18.1
4 11	12 37.70	− 3 42.0	2.082	3.071	3.6	18.4
4 21	12 28.93	− 3 17.0	2.107	3.057	7.4	18.6
5 1	12 21.57	− 2 59.5	2.159	3.042	10.9	18.8
5 11	12 16.14	− 2 52.2	2.234	3.027	13.8	18.9

80084 1999 KN_6 4 2.1 13°.74 0°.8/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 5.23	− 9 47.4	2.067	2.918	11.9	19.5
3 12	13 0.50	− 9 16.5	1.993	2.919	8.6	19.3
3 22	12 54.16	− 8 32.9	1.944	2.920	4.9	19.1
4 1	12 46.89	− 7 40.4	1.923	2.921	1.1	18.8
4 11	12 39.54	− 6 44.2	1.929	2.922	3.4	19.0
4 21	12 32.91	− 5 50.3	1.964	2.923	7.2	19.2
5 1	12 27.72	− 5 3.9	2.024	2.925	10.7	19.4
5 11	12 24.43	− 4 29.2	2.107	2.927	13.6	19.6

380870 2006 BZ_{274} 4 2.1 286°.69 3°.3/ 4.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.37	−14 44.9	1.885	2.716	13.7	21.1
3 12	13 3.70	−14 56.2	1.802	2.710	10.5	20.9
3 22	12 56.03	−14 51.4	1.743	2.705	6.9	20.7
4 1	12 47.09	−14 31.4	1.710	2.700	3.7	20.5
4 11	12 37.92	−14 0.0	1.705	2.695	4.3	20.5
4 21	12 29.54	−13 22.3	1.727	2.689	7.7	20.7
5 1	12 22.85	−12 44.7	1.775	2.684	11.4	20.9
5 11	12 18.44	−12 12.9	1.844	2.679	14.7	21.1

26272 1998 RV_{66} 4 2.1 272°.23 2°.3/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.87	−12 41.4	1.453	2.305	15.9	18.4
3 12	13 4.66	−12 21.2	1.363	2.286	11.9	18.1
3 22	12 56.81	−11 39.5	1.294	2.266	7.3	17.8
4 1	12 47.19	−10 38.9	1.251	2.247	2.8	17.4
4 11	12 37.06	− 9 26.3	1.233	2.226	4.6	17.5
4 21	12 27.81	− 8 10.9	1.242	2.206	9.8	17.7
5 1	12 20.66	− 7 2.4	1.273	2.185	14.8	17.9
5 11	12 16.42	− 6 8.9	1.325	2.165	19.1	18.2

229889 2009 UX_{102} 4 2.1 254°.01 3°.5/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.21	+ 3 57.0	2.011	2.881	11.3	20.0
3 12	13 4.86	+ 4 32.4	1.928	2.865	8.1	19.8
3 22	12 56.60	+ 5 9.3	1.871	2.848	4.8	19.5
4 1	12 47.15	+ 5 42.3	1.842	2.831	3.6	19.4
4 11	12 37.47	+ 6 5.8	1.842	2.814	6.2	19.6
4 21	12 28.52	+ 6 15.7	1.870	2.796	9.8	19.7
5 1	12 21.16	+ 6 9.6	1.921	2.777	13.2	19.9
5 11	12 15.96	+ 5 47.1	1.993	2.758	16.2	20.1

278392 2007 PN_{25} 4 2.1 281°.58 0°.9/ 3.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.59	−10 11.9	2.019	2.868	12.2	21.3
3 12	13 1.70	− 9 37.6	1.919	2.843	9.0	21.1
3 22	12 54.95	− 8 48.6	1.844	2.819	5.2	20.8
4 1	12 46.99	− 7 47.9	1.796	2.794	1.2	20.5
4 11	12 38.71	− 6 41.4	1.777	2.769	3.6	20.6
4 21	12 31.02	− 5 35.5	1.786	2.744	7.8	20.8
5 1	12 24.78	− 4 36.9	1.820	2.719	11.8	21.0
5 11	12 20.60	− 3 50.9	1.876	2.693	15.2	21.2

141126 2001 XT_{83} 4 2.1 85°.10 1°.1/31.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.15	− 3 48.9	2.283	3.147	10.4	20.0
3 12	13 0.21	− 2 58.8	2.225	3.160	7.2	19.9
3 22	12 53.91	− 2 1.8	2.192	3.174	3.8	19.7
4 1	12 46.87	− 1 2.5	2.189	3.187	1.2	19.5
4 11	12 39.86	− 0 6.6	2.215	3.200	3.9	19.7
4 21	12 33.57	+ 0 41.2	2.269	3.214	7.3	19.9
5 1	12 28.59	+ 1 17.3	2.349	3.227	10.3	20.2
5 11	12 25.30	+ 1 39.7	2.451	3.240	12.8	20.4

64084 2001 SA_{283} 4 2.1 176°.20 1°.3/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.80	− 1 53.9	2.218	3.075	10.9	18.5
3 12	13 5.01	− 1 35.9	2.145	3.077	7.7	18.2
3 22	12 56.56	− 1 12.9	2.099	3.079	4.1	18.0
4 1	12 47.15	− 0 48.5	2.082	3.080	1.3	17.8
4 11	12 37.67	− 0 27.1	2.096	3.081	4.2	18.0
4 21	12 28.96	− 0 12.5	2.138	3.081	7.8	18.2
5 1	12 21.75	− 0 7.4	2.206	3.080	11.0	18.4
5 11	12 16.52	− 0 13.5	2.297	3.079	13.8	18.6

151745 2003 DG_3 4 2.1 62°.08 6°.6/ 7.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.19	−21 22.1	1.726	2.527	16.1	20.1
3 12	13 6.65	−22 13.8	1.651	2.530	13.0	19.9
3 22	12 57.72	−22 44.1	1.598	2.534	9.7	19.7
4 1	12 47.28	−22 51.3	1.570	2.538	7.1	19.5
4 11	12 36.56	−22 36.9	1.569	2.542	6.8	19.5
4 21	12 26.82	−22 5.9	1.593	2.546	9.1	19.7
5 1	12 19.13	−21 25.9	1.642	2.550	12.2	19.8
5 11	12 14.13	−20 45.1	1.713	2.555	15.3	20.1

277463 2005 VV_{17} 4 2.1 192°.19 0°.5/ 1.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.84	− 6 0.4	2.479	3.329	10.2	22.4
3 12	13 2.12	− 5 10.7	2.399	3.327	7.2	22.2
3 22	12 54.98	− 4 11.9	2.346	3.325	3.8	22.0
4 1	12 47.00	− 3 8.2	2.322	3.321	0.6	21.7
4 11	12 38.93	− 2 4.9	2.329	3.317	3.5	22.0
4 21	12 31.48	− 1 7.2	2.365	3.311	6.9	22.2
5 1	12 25.29	− 0 19.2	2.429	3.306	10.1	22.4
5 11	12 20.79	+ 0 16.0	2.515	3.299	12.7	22.5

232236 2002 NO_{19} 4 2.1 312°.15 8°.5/23.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 4.45	+13 26.7	1.640	2.529	12.4	19.4
3 12	13 0.46	+15 27.2	1.570	2.503	9.9	19.2
3 22	12 54.38	+17 24.5	1.525	2.478	8.5	19.1
4 1	12 46.95	+19 6.8	1.505	2.453	9.4	19.1
4 11	12 39.23	+20 23.7	1.510	2.428	12.0	19.1
4 21	12 32.30	+21 8.9	1.537	2.404	15.2	19.3
5 1	12 27.13	+21 20.4	1.583	2.380	18.3	19.4
5 11	12 24.33	+21 0.5	1.645	2.357	21.0	19.6

121956 2000 EH_{54} 4 2.1 247°.13 3°.2/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.59	+ 0 4.7	1.623	2.498	13.2	20.4
3 12	13 4.80	+ 1 6.9	1.543	2.483	9.4	20.1
3 22	12 56.72	+ 2 17.4	1.487	2.468	5.2	19.9
4 1	12 47.19	+ 3 28.6	1.459	2.452	3.3	19.7
4 11	12 37.36	+ 4 31.7	1.458	2.436	6.7	19.9
4 21	12 28.41	+ 5 19.3	1.483	2.419	11.1	20.1
5 1	12 21.36	+ 5 46.7	1.531	2.401	15.3	20.3
5 11	12 16.86	+ 5 52.2	1.598	2.383	18.8	20.5

426970 2013 YL_{114} 4 2.1 263°.67 1°.5/31.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.06	− 2 23.2	2.170	3.037	10.7	21.2
3 12	13 1.05	− 1 41.5	2.093	3.030	7.5	21.0
3 22	12 54.47	− 0 53.1	2.042	3.024	4.0	20.7
4 1	12 46.95	− 0 2.6	2.020	3.017	1.5	20.5
4 11	12 39.32	+ 0 44.5	2.026	3.010	4.4	20.7
4 21	12 32.36	+ 1 23.2	2.060	3.004	8.0	20.9
5 1	12 26.77	+ 1 49.8	2.120	2.997	11.3	21.1
5 11	12 23.01	+ 2 2.2	2.200	2.990	14.1	21.3

123012 2000 SQ_{262} 4 2.1 83°.91 3°.6/30.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.87	+ 4 10.2	1.798	2.670	12.3	19.4
3 12	13 5.86	+ 4 35.0	1.749	2.687	8.7	19.3
3 22	12 57.01	+ 4 59.7	1.726	2.703	5.1	19.1
4 1	12 47.20	+ 5 18.8	1.730	2.720	3.6	19.0
4 11	12 37.52	+ 5 27.6	1.763	2.736	6.2	19.2
4 21	12 28.94	+ 5 23.0	1.823	2.753	9.7	19.4
5 1	12 22.24	+ 5 3.9	1.907	2.769	13.0	19.7
5 11	12 17.83	+ 4 30.7	2.011	2.785	15.8	19.9

467778 2009 WZ_{33} 4 2.1 249°.52 5°.8/27.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.30	+10 13.3	1.985	2.860	11.2	20.7
3 12	13 3.48	+11 17.2	1.915	2.849	8.4	20.5
3 22	12 55.83	+12 18.1	1.872	2.837	6.2	20.3
4 1	12 47.09	+13 8.5	1.856	2.824	6.2	20.3
4 11	12 38.22	+13 42.0	1.867	2.812	8.4	20.4
4 21	12 30.13	+13 54.9	1.904	2.799	11.4	20.5
5 1	12 23.64	+13 45.9	1.964	2.785	14.3	20.7
5 11	12 19.26	+13 16.3	2.042	2.772	16.9	20.9

34667 2000 XJ_{19} 4 2.1 264°.39 1°.3/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.50	− 0 58.6	2.510	3.369	9.8	18.6
3 12	13 3.36	− 0 49.1	2.420	3.353	6.9	18.4
3 22	12 55.70	− 0 35.8	2.357	3.337	3.7	18.1
4 1	12 47.08	− 0 21.8	2.323	3.320	1.3	17.9
4 11	12 38.28	− 0 10.8	2.319	3.304	3.9	18.1
4 21	12 30.04	− 0 5.8	2.345	3.287	7.2	18.3
5 1	12 23.04	− 0 9.2	2.397	3.270	10.3	18.4
5 11	12 17.76	− 0 22.5	2.472	3.253	13.0	18.6

126997 2002 FL_{35} 4 2.1 73°.67 5°.4/ 6.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.91	−20 25.4	1.804	2.610	15.3	20.1
3 12	13 4.78	−20 50.6	1.738	2.624	12.1	19.9
3 22	12 56.58	−20 54.7	1.694	2.637	8.8	19.7
4 1	12 47.18	−20 37.5	1.676	2.651	6.0	19.6
4 11	12 37.69	−20 2.6	1.685	2.664	5.7	19.6
4 21	12 29.21	−19 15.9	1.720	2.678	8.1	19.8
5 1	12 22.61	−18 24.7	1.780	2.691	11.3	20.0
5 11	12 18.45	−17 36.5	1.862	2.705	14.3	20.2

203480 2002 AP_{48} 4 2.1 358°.43 3°.6/ 4.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.87	−13 26.1	1.111	1.980	18.5	19.7
3 12	13 2.81	−13 34.0	1.047	1.977	14.0	19.4
3 22	12 55.87	−13 18.0	1.002	1.975	8.9	19.1
4 1	12 47.12	−12 40.3	0.979	1.973	4.2	18.8
4 11	12 38.10	−11 48.0	0.980	1.973	5.4	18.9
4 21	12 30.38	−10 50.9	1.003	1.974	10.5	19.1
5 1	12 25.20	− 9 59.3	1.047	1.977	15.5	19.4
5 11	12 23.27	− 9 21.7	1.109	1.980	19.9	19.7

176557 2002 AZ_{136} 4 2.1 249°.33 1°.0/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.24	− 3 48.2	2.497	3.357	9.7	20.6
3 12	13 0.33	− 3 8.5	2.413	3.347	6.9	20.3
3 22	12 54.04	− 2 21.8	2.356	3.336	3.6	20.1
4 1	12 46.92	− 1 31.9	2.327	3.326	1.0	19.9
4 11	12 39.68	− 0 43.6	2.329	3.315	3.7	20.1
4 21	12 32.99	− 0 1.4	2.359	3.303	7.0	20.3
5 1	12 27.47	+ 0 31.1	2.414	3.292	10.1	20.5
5 11	12 23.56	+ 0 51.3	2.493	3.281	12.7	20.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
35152 1993 FG_{51}			4 2.1 249°.09		0°.0/ 2.0 18	
	h m	° ′			°	m
3 2	13 5.11	− 7 36.4	2.531	3.381	10.0	19.4
3 12	13 0.26	− 6 56.6	2.441	3.368	7.2	19.2
3 22	12 54.02	− 6 6.8	2.376	3.354	3.9	19.0
4 1	12 46.93	− 5 10.6	2.341	3.340	0.4	18.7
4 11	12 39.69	− 4 12.7	2.335	3.326	3.2	18.9
4 21	12 32.98	− 3 17.9	2.359	3.311	6.6	19.1
5 1	12 27.43	− 2 30.9	2.409	3.296	9.7	19.2
5 11	12 23.47	− 1 54.9	2.482	3.281	12.4	19.4
228633 2002 CS_{255}			4 2.1 88°.52		3°.0/ 4.7 17	
3 2	13 10.75	−13 59.6	1.843	2.676	13.9	20.4
3 12	13 4.59	−14 9.6	1.775	2.685	10.5	20.2
3 22	12 56.45	−14 3.6	1.730	2.694	6.7	19.9
4 1	12 47.18	−13 43.3	1.713	2.704	3.4	19.8
4 11	12 37.82	−13 12.7	1.723	2.713	4.1	19.8
4 21	12 29.40	−12 37.2	1.760	2.722	7.6	20.0
5 1	12 22.76	−12 3.0	1.823	2.731	11.2	20.3
5 11	12 18.44	−11 35.4	1.908	2.740	14.4	20.5
51283 2000 KN_{7}			4 2.1 66°.27		5°.7/27.4 18	
3 2	13 8.15	+10 0.5	1.936	2.815	11.3	18.3
3 12	13 2.43	+11 3.6	1.899	2.834	8.3	18.1
3 22	12 55.13	+12 1.6	1.888	2.854	6.1	18.0
4 1	12 47.03	+12 47.7	1.904	2.873	6.0	18.1
4 11	12 39.08	+13 16.5	1.947	2.893	8.0	18.2
4 21	12 32.10	+13 25.5	2.015	2.912	10.7	18.4
5 1	12 26.75	+13 14.5	2.106	2.931	13.4	18.6
5 11	12 23.40	+12 45.0	2.216	2.951	15.6	18.8
341148 2007 PK_{28}			4 2.1 259°.69		4°.0/ 6.9 16	
3 2	13 7.50	−21 33.1	2.571	3.356	11.8	21.9
3 12	13 2.13	−21 12.0	2.455	3.329	9.5	21.7
3 22	12 55.13	−20 31.8	2.363	3.302	6.9	21.5
4 1	12 47.06	−19 33.2	2.298	3.273	4.6	21.3
4 11	12 38.70	−18 19.3	2.263	3.244	4.3	21.2
4 21	12 30.83	−16 55.3	2.257	3.215	6.5	21.3
5 1	12 24.17	−15 28.0	2.279	3.184	9.4	21.4
5 11	12 19.29	−14 4.2	2.326	3.153	12.3	21.6
500307 2012 QB_{49}			4 2.1 221°.46		1°.7/ 3.9 17	
3 2	13 7.25	−12 32.7	2.391	3.223	11.1	22.0
3 12	13 1.85	−12 11.0	2.302	3.215	8.3	21.8
3 22	12 54.91	−11 36.2	2.238	3.206	5.0	21.6
4 1	12 47.04	−10 50.7	2.203	3.198	2.0	21.4
4 11	12 39.00	− 9 58.6	2.197	3.188	3.1	21.4
4 21	12 31.56	− 9 5.1	2.219	3.179	6.5	21.6
5 1	12 25.41	− 8 15.3	2.269	3.168	9.7	21.8
5 11	12 21.04	− 7 33.7	2.342	3.158	12.6	22.0
62141 2000 SK_{12}			4 2.1 172°.38		0°.6/ 1.6 18	
3 2	13 12.08	− 5 18.6	1.939	2.794	12.4	19.4
3 12	13 5.41	− 4 45.3	1.868	2.798	8.8	19.2
3 22	12 56.87	− 4 2.4	1.823	2.802	4.7	18.9
4 1	12 47.23	− 3 14.3	1.805	2.804	0.6	18.6
4 11	12 37.52	− 2 27.1	1.818	2.806	4.2	18.9
4 21	12 28.70	− 1 46.3	1.858	2.807	8.3	19.2
5 1	12 21.58	− 1 16.4	1.924	2.807	12.0	19.4
5 11	12 16.67	− 1 0.3	2.012	2.807	15.1	19.6
272487 2005 UZ_{120}			4 2.1 237°.31		0°.1/ 2.2 17	
3 2	13 9.16	− 7 22.0	2.108	2.959	11.7	22.0
3 12	13 3.39	− 6 51.8	2.018	2.946	8.4	21.8
3 22	12 55.83	− 6 10.4	1.954	2.932	4.6	21.5
4 1	12 47.14	− 5 21.5	1.918	2.917	0.5	21.1
4 11	12 38.21	− 4 30.4	1.911	2.902	3.7	21.4
4 21	12 29.95	− 3 42.6	1.933	2.886	7.7	21.6
5 1	12 23.15	− 3 3.3	1.980	2.869	11.4	21.8
5 11	12 18.38	− 2 36.3	2.050	2.852	14.6	22.0
505847 2015 CR_{43}			4 2.1 309°.26		1°.3/ 3.3 17	
3 2	13 6.64	−10 29.9	1.771	2.624	13.4	21.1
3 12	13 1.87	−10 10.8	1.687	2.613	9.9	20.9
3 22	12 55.09	− 9 36.5	1.627	2.602	5.8	20.6
4 1	12 47.07	− 8 50.2	1.593	2.590	1.7	20.3
4 11	12 38.80	− 7 57.7	1.587	2.580	3.8	20.4
4 21	12 31.30	− 7 5.5	1.607	2.569	8.2	20.6
5 1	12 25.48	− 6 20.1	1.651	2.559	12.3	20.9
5 11	12 21.93	− 5 46.8	1.717	2.549	15.8	21.1
336306 2008 TF_{6}			4 2.1 219°.01		0°.9/ 1.2 17	
3 2	13 9.43	− 3 20.9	2.260	3.118	10.7	21.2
3 12	13 3.41	− 2 57.9	2.179	3.111	7.6	21.0
3 22	12 55.76	− 2 28.3	2.124	3.104	4.0	20.8
4 1	12 47.13	− 1 55.8	2.097	3.096	0.9	20.5
4 11	12 38.36	− 1 25.1	2.101	3.088	3.9	20.7
4 21	12 30.25	− 1 0.1	2.133	3.079	7.6	20.9
5 1	12 23.53	− 0 44.5	2.191	3.070	10.9	21.1
5 11	12 18.70	− 0 40.5	2.271	3.061	13.7	21.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
331244 2011 BM_{121}			4 2.1 248°.48		1°.9/31.2 17	
	h m	° ′			°	m
3 2	13 7.31	− 2 23.1	1.871	2.742	12.0	21.0
3 12	13 2.16	− 1 28.0	1.795	2.734	8.4	20.7
3 22	12 55.18	− 0 24.2	1.744	2.726	4.5	20.5
4 1	12 47.07	+ 0 42.2	1.721	2.718	2.0	20.3
4 11	12 38.82	+ 1 44.1	1.726	2.709	5.2	20.5
4 21	12 31.34	+ 2 35.1	1.758	2.701	9.2	20.7
5 1	12 25.45	+ 3 10.6	1.815	2.692	12.9	20.9
5 11	12 21.70	+ 3 28.1	1.891	2.683	16.0	21.1
357215 2002 GH_{183}			4 2.1 310°.50		1°.9/31.9 17	
3 2	13 11.51	− 1 36.5	1.379	2.258	14.9	20.3
3 12	13 5.71	− 1 19.1	1.307	2.249	10.6	20.0
3 22	12 57.33	− 0 54.0	1.257	2.240	5.7	19.7
4 1	12 47.31	− 0 26.9	1.233	2.231	1.9	19.4
4 11	12 37.02	− 0 4.7	1.235	2.223	5.9	19.7
4 21	12 27.81	+ 0 6.6	1.262	2.215	11.0	19.9
5 1	12 20.84	+ 0 3.0	1.312	2.207	15.6	20.2
5 11	12 16.79	− 0 17.5	1.379	2.200	19.5	20.4
254587 2005 GM_{53}			4 2.1 110°.71		2°.1/31.5 18	
3 2	13 12.10	− 0 56.7	1.655	2.526	13.3	20.6
3 12	13 5.57	− 0 26.5	1.598	2.536	9.3	20.4
3 22	12 56.98	+ 0 9.5	1.565	2.546	5.0	20.1
4 1	12 47.26	+ 0 45.6	1.559	2.556	2.1	19.9
4 11	12 37.57	+ 1 15.6	1.582	2.565	5.4	20.2
4 21	12 28.97	+ 1 34.6	1.630	2.575	9.6	20.4
5 1	12 22.32	+ 1 39.3	1.703	2.584	13.4	20.7
5 11	12 18.12	+ 1 28.7	1.796	2.592	16.6	20.9
174007 2001 YW_{7}			4 2.1 190°.00		3°.7/ 7.0 18	
3 2	13 6.36	−20 51.6	2.823	3.609	10.9	20.5
3 12	13 1.06	−20 45.8	2.733	3.608	8.6	20.4
3 22	12 54.43	−20 24.6	2.668	3.606	6.2	20.2
4 1	12 47.01	−19 48.8	2.631	3.604	4.2	20.1
4 11	12 39.47	−19 1.2	2.622	3.602	3.9	20.0
4 21	12 32.48	−18 6.0	2.643	3.599	5.8	20.2
5 1	12 26.63	−17 8.1	2.691	3.596	8.2	20.3
5 11	12 22.34	−16 12.6	2.764	3.592	10.5	20.5
109209 2001 QX_{82}			4 2.1 177°.94		5°.3/ 7.4 18	
3 2	13 11.73	−22 35.1	2.290	3.069	13.3	20.1
3 12	13 5.17	−22 54.6	2.205	3.071	10.7	19.9
3 22	12 56.77	−22 55.3	2.143	3.073	8.0	19.8
4 1	12 47.26	−22 36.6	2.108	3.074	5.8	19.6
4 11	12 37.55	−22 0.9	2.101	3.074	5.4	19.6
4 21	12 28.57	−21 12.9	2.122	3.073	7.3	19.7
5 1	12 21.14	−20 18.7	2.171	3.072	10.0	19.9
5 11	12 15.79	−19 25.1	2.242	3.071	12.6	20.0
495360 2014 OA_{96}			4 2.1 255°.58		3°.6/29.9 17	
3 2	13 9.69	+ 0 28.2	1.619	2.496	13.1	21.6
3 12	13 4.21	+ 1 43.3	1.537	2.479	9.3	21.3
3 22	12 56.46	+ 3 7.5	1.480	2.460	5.3	21.0
4 1	12 47.24	+ 4 32.3	1.449	2.441	3.7	20.9
4 11	12 37.69	+ 5 48.1	1.447	2.422	7.1	21.0
4 21	12 28.98	+ 6 47.0	1.470	2.401	11.5	21.2
5 1	12 22.13	+ 7 23.6	1.516	2.381	15.6	21.4
5 11	12 17.82	+ 7 36.2	1.580	2.360	19.1	21.6
12109 1998 KD_{51}			4 2.1 319°.16		5°.1/28.1 18	
3 2	13 5.28	+ 4 42.4	1.593	2.482	12.6	16.2
3 12	13 1.00	+ 6 3.8	1.524	2.469	9.1	16.0
3 22	12 54.65	+ 7 28.9	1.479	2.456	5.9	15.8
4 1	12 47.05	+ 8 48.2	1.460	2.443	5.4	15.7
4 11	12 39.26	+ 9 52.6	1.467	2.431	8.4	15.8
4 21	12 32.33	+10 35.4	1.499	2.419	12.2	16.0
5 1	12 27.19	+10 53.2	1.552	2.408	15.8	16.2
5 11	12 24.41	+10 46.0	1.623	2.397	18.9	16.4
342784 2008 WW_{113}			4 2.1 146°.13		4°.0/ 6.6 17	
3 2	13 6.69	−19 52.3	2.203	3.007	12.9	21.1
3 12	13 1.56	−19 38.5	2.123	3.011	10.2	20.9
3 22	12 54.79	−19 5.7	2.067	3.014	7.1	20.7
4 1	12 47.06	−18 15.3	2.037	3.017	4.5	20.5
4 11	12 39.24	−17 11.7	2.036	3.020	4.3	20.5
4 21	12 32.15	−16 0.6	2.062	3.023	6.7	20.7
5 1	12 26.51	−14 49.0	2.116	3.026	9.8	20.9
5 11	12 22.80	−13 43.2	2.192	3.029	12.6	21.1
360116 2013 CS_{17}			4 2.1 295°.75		5°.1/28.9 18	
3 2	13 8.46	+ 3 15.2	1.328	2.219	14.5	20.6
3 12	13 3.57	+ 4 35.2	1.262	2.209	10.4	20.3
3 22	12 56.16	+ 6 0.9	1.220	2.200	6.4	20.0
4 1	12 47.21	+ 7 21.7	1.203	2.190	5.4	19.9
4 11	12 38.04	+ 8 26.7	1.211	2.181	8.9	20.1
4 21	12 29.98	+ 9 8.1	1.242	2.172	13.3	20.3
5 1	12 24.11	+ 9 21.9	1.294	2.163	17.5	20.6
5 11	12 21.07	+ 9 8.7	1.363	2.155	21.1	20.8

92998 2000 RL_{81} 4 2.1 165°.03 3°.8/ 6.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.11	−20 9.8	2.112	2.916	13.4	19.8
3 12	13 1.90	−19 39.1	2.031	2.920	10.5	19.6
3 22	12 54.99	−18 47.3	1.974	2.923	7.3	19.4
4 1	12 47.08	−17 36.6	1.943	2.925	4.5	19.3
4 11	12 39.09	−16 12.2	1.941	2.927	4.2	19.3
4 21	12 31.88	−14 41.2	1.967	2.929	6.9	19.4
5 1	12 26.20	−13 11.4	2.020	2.931	10.2	19.6
5 11	12 22.52	−11 50.0	2.097	2.932	13.2	19.8

212486 2006 QE_{100} 4 2.1 189°.00 3°.2/ 5.7 18

3 2	13 7.66	−17 4.4	2.544	3.353	11.3	20.7
3 12	13 2.08	−17 6.4	2.459	3.352	8.7	20.5
3 22	12 55.03	−16 54.3	2.399	3.351	5.9	20.3
4 1	12 47.09	−16 29.1	2.366	3.350	3.6	20.1
4 11	12 39.02	−15 53.7	2.363	3.348	3.7	20.1
4 21	12 31.54	−15 12.3	2.388	3.347	6.1	20.3
5 1	12 25.33	−14 29.8	2.440	3.345	8.9	20.5
5 11	12 20.83	−13 50.8	2.517	3.342	11.5	20.6

143288 2003 AK_{33} 4 2.1 179°.35 4°.8/27.3 18

3 2	13 5.87	+ 8 48.7	2.346	3.221	9.7	19.8
3 12	13 0.78	+ 9 54.6	2.287	3.222	7.1	19.7
3 22	12 54.29	+10 58.4	2.255	3.222	5.1	19.5
4 1	12 47.01	+11 54.0	2.251	3.222	5.0	19.5
4 11	12 39.71	+12 36.1	2.276	3.222	7.0	19.6
4 21	12 33.08	+13 1.3	2.327	3.222	9.6	19.8
5 1	12 27.75	+13 8.2	2.401	3.222	12.1	20.0
5 11	12 24.12	+12 57.2	2.496	3.221	14.2	20.1

502614 2015 CW_{20} 4 2.1 91°.34 1°.4/ 3.4 17

3 2	13 8.82	−10 17.6	1.876	2.725	13.0	21.8
3 12	13 3.23	−10 7.6	1.803	2.726	9.5	21.6
3 22	12 55.76	− 9 44.3	1.754	2.727	5.6	21.3
4 1	12 47.17	− 9 10.5	1.731	2.728	1.8	21.1
4 11	12 38.45	− 8 31.2	1.737	2.729	3.6	21.2
4 21	12 30.58	− 7 51.9	1.770	2.731	7.7	21.5
5 1	12 24.37	− 7 18.3	1.828	2.732	11.5	21.7
5 11	12 20.36	− 6 54.6	1.908	2.733	14.7	21.9

57281 2001 QP_{148} 4 2.1 187°.07 3°.9/28.9 18

3 2	13 9.66	+ 5 14.3	2.223	3.093	10.4	19.7
3 12	13 3.52	+ 6 11.1	2.157	3.092	7.4	19.6
3 22	12 55.80	+ 7 8.6	2.117	3.092	4.7	19.4
4 1	12 47.17	+ 8 0.6	2.107	3.090	4.0	19.3
4 11	12 38.48	+ 8 41.8	2.126	3.088	6.3	19.5
4 21	12 30.55	+ 9 8.0	2.172	3.085	9.3	19.6
5 1	12 24.06	+ 9 17.3	2.243	3.081	12.2	19.8
5 11	12 19.46	+ 9 9.6	2.334	3.077	14.7	20.0

133155 2003 QA_{24} 4 2.1 260°.10 1°.2/ 3.1 16

3 2	13 9.44	−10 21.4	1.608	2.463	14.5	20.4
3 12	13 4.08	− 9 53.4	1.522	2.449	10.6	20.1
3 22	12 56.41	− 9 7.9	1.460	2.436	6.2	19.8
4 1	12 47.25	− 8 8.8	1.423	2.421	1.6	19.5
4 11	12 37.75	− 7 2.8	1.414	2.407	4.2	19.6
4 21	12 29.12	− 5 58.0	1.432	2.392	9.1	19.9
5 1	12 22.38	− 5 2.4	1.473	2.378	13.6	20.1
5 11	12 18.23	− 4 21.6	1.535	2.363	17.5	20.3

92322 2000 GC_{39} 4 2.1 299°.60 0°.9/ 1.5 17

3 2	13 9.18	− 5 22.7	1.283	2.162	15.8	19.9
3 12	13 4.45	− 4 50.5	1.195	2.137	11.4	19.5
3 22	12 56.88	− 4 2.6	1.129	2.112	6.2	19.2
4 1	12 47.32	− 3 4.6	1.088	2.086	0.9	18.7
4 11	12 37.15	− 2 5.3	1.071	2.062	5.8	19.0
4 21	12 27.87	− 1 14.3	1.078	2.037	11.7	19.2
5 1	12 20.85	− 0 39.6	1.107	2.012	17.0	19.4
5 11	12 16.97	− 0 26.2	1.153	1.988	21.6	19.7

409018 2003 BO_{8} 4 2.1 70°.83 2°.3/ 4.2 18

3 2	13 9.66	−13 38.8	1.594	2.438	15.2	20.7
3 12	13 3.86	−13 10.7	1.544	2.462	11.2	20.5
3 22	12 56.05	−12 23.8	1.517	2.486	6.8	20.3
4 1	12 47.20	−11 22.4	1.515	2.510	2.8	20.1
4 11	12 38.48	−10 13.7	1.541	2.534	4.0	20.2
4 21	12 30.93	− 9 5.7	1.594	2.558	8.1	20.5
5 1	12 25.36	− 8 6.0	1.672	2.581	12.0	20.8
5 11	12 22.21	− 7 19.6	1.770	2.605	15.2	21.1

464878 2005 JL_{141} 4 2.1 286°.33 2°.2/31.3 17

3 2	13 8.90	− 1 53.7	1.588	2.464	13.4	21.3
3 12	13 3.73	− 1 7.6	1.502	2.443	9.5	21.1
3 22	12 56.25	− 0 11.5	1.440	2.422	5.2	20.7
4 1	12 47.25	+ 0 48.0	1.404	2.401	2.3	20.5
4 11	12 37.88	+ 1 42.9	1.395	2.379	6.0	20.7
4 21	12 29.31	+ 2 26.0	1.412	2.358	10.7	20.9
5 1	12 22.61	+ 2 51.7	1.452	2.337	15.1	21.1
5 11	12 18.47	+ 2 57.3	1.511	2.315	18.8	21.3

53825 2000 EB_{148} 4 2.1 7°.65 1°.1/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 4.73	− 6 13.2	1.322	2.204	15.2	18.7
3 12	13 0.81	− 5 8.8	1.262	2.205	10.7	18.4
3 22	12 54.61	− 3 48.4	1.223	2.206	5.7	18.1
4 1	12 47.07	− 2 20.0	1.209	2.208	1.1	17.8
4 11	12 39.44	− 0 54.3	1.221	2.211	5.5	18.1
4 21	12 32.91	+ 0 18.8	1.258	2.214	10.6	18.4
5 1	12 28.46	+ 1 12.0	1.316	2.218	15.1	18.7
5 11	12 26.61	+ 1 42.0	1.393	2.223	18.8	18.9

497497 2006 AV_{76} 4 2.1 229°.13 6°.0/ 8.3 17

3 2	13 9.31	−24 33.1	2.173	2.947	14.0	21.7
3 12	13 3.64	−24 48.3	2.079	2.939	11.5	21.5
3 22	12 56.04	−24 42.2	2.008	2.931	8.9	21.3
4 1	12 47.23	−24 13.9	1.962	2.922	6.6	21.2
4 11	12 38.14	−23 25.9	1.943	2.913	6.1	21.1
4 21	12 29.74	−22 23.2	1.952	2.903	7.8	21.2
5 1	12 22.90	−21 12.7	1.987	2.893	10.5	21.4
5 11	12 18.22	−20 2.4	2.045	2.883	13.3	21.5

373468 2000 SS_{21} 4 2.1 169°.28 1°.9/ 4.1 17

3 2	13 12.59	−12 3.6	2.512	3.333	11.0	22.0
3 12	13 5.52	−12 10.5	2.432	3.338	8.2	21.8
3 22	12 56.88	−12 6.5	2.378	3.343	5.0	21.6
4 1	12 47.31	−11 52.9	2.353	3.346	2.2	21.4
4 11	12 37.63	−11 32.6	2.359	3.349	3.2	21.5
4 21	12 28.63	−11 9.5	2.395	3.351	6.3	21.7
5 1	12 21.00	−10 47.3	2.459	3.353	9.3	21.9
5 11	12 15.22	−10 30.1	2.548	3.354	11.9	22.1

420170 2011 GK_{28} 4 2.1 7°.40 0°.8/ 2.9 17

3 2	13 3.10	−12 4.0	1.533	2.394	14.7	20.4
3 12	12 59.45	−10 49.9	1.464	2.395	10.7	20.2
3 22	12 53.81	− 9 14.0	1.419	2.396	6.1	19.9
4 1	12 47.00	− 7 23.3	1.399	2.397	1.3	19.6
4 11	12 40.11	− 5 28.1	1.407	2.400	4.2	19.8
4 21	12 34.17	− 3 39.1	1.441	2.403	8.9	20.1
5 1	12 30.03	− 2 5.8	1.499	2.407	13.2	20.4
5 11	12 28.21	− 0 54.1	1.577	2.411	16.8	20.6

215106 1995 VQ_{2} 4 2.1 235°.02 0°.6/ 1.6 17

3 2	13 10.22	− 5 29.7	1.904	2.763	12.4	21.3
3 12	13 4.31	− 4 53.6	1.819	2.751	8.8	21.1
3 22	12 56.42	− 4 6.6	1.758	2.738	4.7	20.8
4 1	12 47.29	− 3 13.4	1.725	2.724	0.7	20.5
4 11	12 37.90	− 2 20.0	1.721	2.710	4.3	20.7
4 21	12 29.26	− 1 32.7	1.745	2.695	8.7	21.0
5 1	12 22.26	− 0 56.8	1.794	2.680	12.6	21.2
5 11	12 17.49	− 0 35.8	1.864	2.664	15.9	21.3

376227 2011 EL_{35} 4 2.1 319°.51 0°.4/ 2.5 17

3 2	13 8.08	− 7 49.9	1.742	2.603	13.3	21.0
3 12	13 2.86	− 7 28.5	1.668	2.599	9.6	20.7
3 22	12 55.63	− 6 54.6	1.617	2.596	5.3	20.5
4 1	12 47.21	− 6 12.1	1.593	2.592	0.8	20.1
4 11	12 38.62	− 5 26.8	1.597	2.589	4.0	20.3
4 21	12 30.89	− 4 45.0	1.627	2.586	8.4	20.6
5 1	12 24.90	− 4 12.3	1.682	2.583	12.4	20.8
5 11	12 21.20	− 3 52.7	1.757	2.580	15.8	21.0

214416 2005 PK 4 2.1 173°.88 3°.9/28.3 17

3 2	13 4.92	+ 5 12.4	2.280	3.157	9.9	20.8
3 12	13 0.17	+ 6 20.6	2.218	3.157	7.0	20.6
3 22	12 54.00	+ 7 29.6	2.183	3.157	4.5	20.5
4 1	12 47.03	+ 8 33.4	2.176	3.157	4.1	20.5
4 11	12 40.02	+ 9 26.0	2.198	3.158	6.3	20.6
4 21	12 33.69	+10 3.4	2.247	3.158	9.1	20.8
5 1	12 28.64	+10 23.3	2.319	3.158	11.9	20.9
5 11	12 25.30	+10 25.4	2.412	3.158	14.2	21.1

55795 1993 TF_{18} 4 2.1 105°.42 0°.7/ 1.5 18

3 2	13 10.70	− 5 6.3	1.894	2.753	12.4	19.5
3 12	13 4.35	− 4 32.3	1.840	2.772	8.7	19.3
3 22	12 56.26	− 3 49.4	1.811	2.791	4.6	19.1
4 1	12 47.26	− 3 2.5	1.810	2.809	0.7	18.9
4 11	12 38.34	− 2 17.5	1.838	2.827	4.1	19.2
4 21	12 30.40	− 1 39.5	1.894	2.844	8.1	19.4
5 1	12 24.17	− 1 12.8	1.975	2.861	11.6	19.7
5 11	12 20.08	− 0 59.7	2.078	2.877	14.5	19.9

326355 2000 SA_{347} 4 2.1 261°.28 5°.1/26.9 18

3 2	13 7.47	+ 6 58.1	2.120	2.996	10.5	21.1
3 12	13 2.26	+ 8 32.5	2.035	2.972	7.7	20.9
3 22	12 55.28	+10 9.3	1.978	2.947	5.5	20.7
4 1	12 47.18	+11 40.6	1.949	2.922	5.5	20.6
4 11	12 38.81	+12 58.4	1.949	2.895	7.9	20.7
4 21	12 31.04	+13 56.6	1.975	2.869	11.1	20.9
5 1	12 24.68	+14 32.0	2.024	2.841	14.1	21.0
5 11	12 20.27	+14 44.0	2.092	2.813	16.8	21.1

250995 2006 MO_9 4 2.1 314.°72 6.°9/ 7.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.03	−22 29.6	1.432	2.248	18.0	20.1
3 12	13 3.45	−22 48.8	1.350	2.239	14.7	19.8
3 22	12 56.24	−22 39.6	1.287	2.230	11.0	19.6
4 1	12 47.29	−22 0.6	1.247	2.221	7.8	19.4
4 11	12 37.94	−20 55.4	1.231	2.212	7.2	19.3
4 21	12 29.59	−19 32.4	1.240	2.204	9.9	19.4
5 1	12 23.45	−18 2.9	1.272	2.196	13.8	19.6
5 11	12 20.27	−16 38.4	1.323	2.189	17.6	19.8

457724 2009 FP_{65} 4 2.1 21.°24 2.°9/31.2 18

3 2	13 11.65	+ 0 27.1	1.326	2.210	15.1	20.8
3 12	13 5.72	+ 0 50.8	1.268	2.212	10.6	20.5
3 22	12 57.28	+ 1 19.7	1.233	2.215	5.8	20.2
4 1	12 47.38	+ 1 47.1	1.223	2.219	2.9	20.1
4 11	12 37.42	+ 2 5.8	1.239	2.223	6.5	20.3
4 21	12 28.73	+ 2 10.7	1.279	2.227	11.3	20.6
5 1	12 22.35	+ 1 58.8	1.341	2.232	15.6	20.8
5 11	12 18.85	+ 1 29.6	1.421	2.237	19.2	21.1

319472 2006 PS_{11} 4 2.1 301.°91 4.°2/29.6 17

3 2	13 7.12	+ 0 55.1	1.375	2.264	14.3	20.7
3 12	13 2.76	+ 2 11.0	1.292	2.239	10.2	20.4
3 22	12 55.87	+ 3 37.6	1.231	2.213	5.9	20.0
4 1	12 47.26	+ 5 5.2	1.196	2.188	4.4	19.9
4 11	12 38.18	+ 6 22.6	1.186	2.162	8.2	20.0
4 21	12 29.97	+ 7 20.3	1.200	2.137	13.0	20.2
5 1	12 23.81	+ 7 51.9	1.235	2.112	17.7	20.4
5 11	12 20.49	+ 7 55.6	1.287	2.088	21.6	20.6

227937 2007 GH_{22} 4 2.1 118.°20 0.°0/ 2.0 17

3 2	13 7.58	− 7 26.2	1.948	2.805	12.2	20.9
3 12	13 2.24	− 6 45.8	1.881	2.812	8.7	20.7
3 22	12 55.19	− 5 53.9	1.840	2.819	4.7	20.5
4 1	12 47.18	− 4 55.2	1.827	2.826	0.5	20.2
4 11	12 39.13	− 3 56.0	1.842	2.833	3.8	20.4
4 21	12 31.92	− 3 2.2	1.885	2.839	7.8	20.7
5 1	12 26.28	− 2 19.0	1.953	2.846	11.4	20.9
5 11	12 22.68	− 1 49.8	2.043	2.852	14.4	21.1

260865 2005 QL_{96} 4 2.1 162.°36 0.°1/ 2.1 17

3 2	13 9.81	− 6 32.4	1.840	2.698	12.8	21.0
3 12	13 3.95	− 6 6.9	1.769	2.700	9.1	20.8
3 22	12 56.17	− 5 30.5	1.724	2.703	4.9	20.6
4 1	12 47.28	− 4 47.5	1.705	2.705	0.5	20.2
4 11	12 38.30	− 4 3.7	1.716	2.706	4.0	20.5
4 21	12 30.20	− 3 24.8	1.753	2.708	8.3	20.8
5 1	12 23.80	− 2 55.7	1.816	2.709	12.1	21.0
5 11	12 19.64	− 2 39.7	1.899	2.710	15.3	21.2

373472 2000 SY_{113} 4 2.1 245.°50 1.°9/31.5 18

3 2	13 11.73	− 0 20.5	2.077	2.940	11.3	20.5
3 12	13 5.25	− 0 0.5	1.991	2.926	8.0	20.3
3 22	12 56.90	+ 0 24.0	1.932	2.912	4.4	20.0
4 1	12 47.37	+ 0 48.7	1.901	2.897	1.9	19.8
4 11	12 37.61	+ 1 9.0	1.899	2.882	4.8	20.0
4 21	12 28.56	+ 1 20.7	1.926	2.866	8.6	20.2
5 1	12 21.05	+ 1 20.8	1.978	2.850	12.2	20.4
5 11	12 15.64	+ 1 7.8	2.051	2.834	15.2	20.6

196152 2002 UG_9 4 2.1 131.°40 5.°0/26.5 17

3 2	13 6.60	+10 58.8	2.571	3.442	9.1	20.5
3 12	13 1.16	+12 10.7	2.525	3.455	6.8	20.4
3 22	12 54.46	+13 18.5	2.508	3.467	5.2	20.3
4 1	12 47.11	+14 16.4	2.519	3.479	5.3	20.4
4 11	12 39.79	+14 59.8	2.558	3.491	7.0	20.5
4 21	12 33.17	+15 25.9	2.624	3.502	9.3	20.6
5 1	12 27.77	+15 34.0	2.714	3.513	11.4	20.8
5 11	12 23.96	+15 24.9	2.824	3.523	13.3	21.0

19183 Amati 4 2.1 243.°98 0.°3/ 2.4 18

3 2	13 11.52	− 6 30.6	2.129	2.978	11.7	19.0
3 12	13 5.11	− 6 26.2	2.039	2.965	8.4	18.8
3 22	12 56.83	− 6 13.1	1.974	2.951	4.7	18.5
4 1	12 47.37	− 5 53.9	1.938	2.937	0.6	18.2
4 11	12 37.65	− 5 32.5	1.932	2.923	3.6	18.4
4 21	12 28.59	− 5 13.1	1.954	2.908	7.6	18.6
5 1	12 21.03	− 4 59.8	2.002	2.892	11.3	18.8
5 11	12 15.55	− 4 55.8	2.073	2.877	14.4	19.0

495375 2014 OY_{303} 4 2.1 285.°98 3.°0/30.9 17

3 2	13 10.09	− 0 52.6	1.321	2.205	15.1	21.5
3 12	13 4.87	− 0 1.2	1.247	2.192	10.7	21.2
3 22	12 56.99	+ 1 0.2	1.196	2.178	5.9	20.8
4 1	12 47.40	+ 2 3.5	1.169	2.165	3.1	20.6
4 11	12 37.47	+ 2 58.9	1.169	2.152	7.0	20.8
4 21	12 28.60	+ 3 38.2	1.192	2.138	12.2	21.1
5 1	12 21.97	+ 3 56.0	1.236	2.125	16.9	21.3
5 11	12 18.31	+ 3 50.5	1.298	2.112	20.8	21.5

466618 2014 VS_{18} 4 2.1 185.°90 1.°5/31.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 12.02	− 2 27.5	1.770	2.635	12.8	21.9
3 12	13 5.58	− 1 57.4	1.700	2.635	9.1	21.7
3 22	12 57.09	− 1 19.8	1.654	2.635	4.8	21.4
4 1	12 47.40	− 0 39.8	1.637	2.634	1.5	21.2
4 11	12 37.59	− 0 3.6	1.647	2.633	5.0	21.4
4 21	12 28.72	+ 0 23.4	1.685	2.631	9.2	21.6
5 1	12 21.68	+ 0 37.5	1.748	2.629	13.1	21.9
5 11	12 17.00	+ 0 36.5	1.831	2.627	16.3	22.1

140655 2001 UA_{37} 4 2.1 173.°62 4.°1/27.9 18

3 2	13 5.94	+ 7 26.0	2.507	3.380	9.2	20.0
3 12	13 0.79	+ 8 27.2	2.446	3.382	6.7	19.8
3 22	12 54.31	+ 9 27.4	2.413	3.383	4.6	19.7
4 1	12 47.11	+10 20.9	2.409	3.384	4.4	19.6
4 11	12 39.87	+11 2.9	2.433	3.385	6.3	19.8
4 21	12 33.27	+11 30.1	2.485	3.385	8.8	19.9
5 1	12 27.88	+11 40.8	2.560	3.386	11.3	20.1
5 11	12 24.10	+11 35.0	2.656	3.386	13.4	20.2

416275 2003 HK_{15} 4 2.1 296.°87 9.°4/25.7 18

3 2	13 16.31	+20 39.2	1.779	2.636	13.2	20.3
3 12	13 8.54	+21 21.7	1.727	2.634	10.9	20.2
3 22	12 58.62	+21 48.8	1.700	2.633	9.5	20.1
4 1	12 47.55	+21 52.6	1.699	2.631	9.7	20.1
4 11	12 36.57	+21 28.8	1.723	2.630	11.5	20.2
4 21	12 26.81	+20 37.3	1.771	2.628	14.0	20.3
5 1	12 19.15	+19 21.1	1.841	2.627	16.5	20.5
5 11	12 14.08	+17 45.2	1.929	2.625	18.7	20.7

498424 2008 AH_{47} 4 2.1 89.°35 0.°7/ 1.3 17

3 2	13 6.41	− 4 38.9	2.305	3.164	10.5	22.0
3 12	13 1.15	− 4 0.7	2.247	3.180	7.3	21.8
3 22	12 54.50	− 3 15.3	2.215	3.196	3.9	21.6
4 1	12 47.13	− 2 26.9	2.212	3.211	0.8	21.4
4 11	12 39.78	− 1 40.5	2.239	3.226	3.6	21.6
4 21	12 33.17	− 1 0.6	2.293	3.241	7.0	21.9
5 1	12 27.88	− 0 30.7	2.374	3.256	10.0	22.1
5 11	12 24.31	− 0 12.9	2.477	3.271	12.6	22.3

333685 2008 UU_{90} 4 2.1 197.°51 0.°6/ 2.9 17

3 2	13 7.71	− 9 9.7	2.314	3.158	11.0	22.0
3 12	13 2.21	− 8 41.7	2.233	3.156	8.0	21.8
3 22	12 55.17	− 8 2.6	2.178	3.153	4.5	21.6
4 1	12 47.21	− 7 15.6	2.151	3.150	1.0	21.3
4 11	12 39.13	− 6 25.5	2.154	3.146	3.2	21.5
4 21	12 31.71	− 5 37.2	2.186	3.142	6.8	21.7
5 1	12 25.63	− 4 55.5	2.244	3.137	10.1	21.9
5 11	12 21.34	− 4 24.1	2.325	3.133	12.9	22.1

120174 Jeffjenny 4 2.1 239.°94 6.°9/25.1 17

3 2	13 8.59	+13 59.3	2.099	2.972	10.8	20.3
3 12	13 2.98	+15 22.4	2.035	2.960	8.5	20.1
3 22	12 55.64	+16 39.9	1.997	2.948	7.0	20.0
4 1	12 47.26	+17 43.8	1.986	2.935	7.4	20.0
4 11	12 38.76	+18 27.6	2.002	2.922	9.4	20.1
4 21	12 31.00	+18 47.9	2.042	2.908	12.0	20.2
5 1	12 24.76	+18 43.9	2.105	2.894	14.6	20.3
5 11	12 20.53	+18 17.2	2.185	2.879	16.8	20.5

508591 2017 OF_{60} 4 2.1 214.°18 2.°5/30.2 17

3 2	13 7.82	+ 0 31.9	2.359	3.225	10.0	22.6
3 12	13 2.26	+ 1 31.6	2.280	3.217	7.0	22.3
3 22	12 55.19	+ 2 36.2	2.228	3.208	3.9	22.1
4 1	12 47.22	+ 3 40.4	2.206	3.198	2.6	22.0
4 11	12 39.12	+ 4 38.3	2.214	3.188	5.1	22.2
4 21	12 31.64	+ 5 25.2	2.249	3.177	8.3	22.3
5 1	12 25.46	+ 5 57.6	2.311	3.166	11.3	22.5
5 11	12 21.03	+ 6 13.9	2.393	3.153	13.9	22.7

269940 2000 RO_{81} 4 2.1 243.°47 5.°9/ 7.5 17

3 2	13 10.22	−22 23.9	1.955	2.747	14.8	20.6
3 12	13 4.46	−22 48.5	1.867	2.741	12.0	20.4
3 22	12 56.59	−22 52.0	1.801	2.734	9.0	20.2
4 1	12 47.38	−22 33.4	1.760	2.728	6.5	20.0
4 11	12 37.86	−21 55.2	1.746	2.721	6.1	20.0
4 21	12 29.10	−21 2.4	1.758	2.713	8.2	20.1
5 1	12 22.06	−20 2.5	1.796	2.706	11.3	20.2
5 11	12 17.37	−19 3.5	1.857	2.699	14.3	20.4

478272 2011 VN_4 4 2.1 224.°44 2.°4/ 4.8 17

3 2	13 7.43	−14 1.3	2.585	3.407	10.7	21.6
3 12	13 1.94	−14 4.4	2.499	3.403	8.1	21.4
3 22	12 55.01	−13 55.5	2.438	3.399	5.2	21.2
4 1	12 47.21	−13 36.1	2.405	3.395	2.7	21.0
4 11	12 39.27	−13 9.1	2.401	3.391	3.2	21.1
4 21	12 31.89	−12 38.1	2.427	3.386	6.0	21.2
5 1	12 25.71	−12 7.4	2.479	3.382	8.9	21.4
5 11	12 21.20	−11 41.1	2.556	3.377	11.5	21.6

272863 2006 BX_{68} 4 2.1 54°.10 2°.6/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.66	− 0 9.0	1.624	2.502	13.1	20.3
3 12	13 3.16	+ 0 35.6	1.574	2.516	9.1	20.1
3 22	12 55.73	+ 1 25.4	1.549	2.530	5.0	19.9
4 1	12 47.29	+ 2 13.7	1.550	2.545	2.7	19.8
4 11	12 38.91	+ 2 53.8	1.579	2.560	5.8	20.0
4 21	12 31.61	+ 3 20.4	1.633	2.575	9.8	20.3
5 1	12 26.16	+ 3 30.6	1.711	2.590	13.4	20.5
5 11	12 23.02	+ 3 23.5	1.808	2.606	16.4	20.7

245506 2005 RV 4 2.1 223°.17 5°.9/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.83	−27 28.2	2.639	3.388	12.5	20.5
3 12	13 1.64	−27 40.9	2.546	3.383	10.5	20.3
3 22	12 54.90	−27 34.2	2.475	3.378	8.3	20.2
4 1	12 47.21	−27 7.5	2.429	3.373	6.5	20.1
4 11	12 39.34	−26 22.7	2.410	3.368	5.9	20.0
4 21	12 32.06	−25 23.9	2.419	3.362	7.0	20.1
5 1	12 26.05	−24 16.8	2.455	3.357	9.0	20.2
5 11	12 21.80	−23 7.7	2.514	3.351	11.2	20.3

431315 2006 WQ_{55} 4 2.1 201°.81 6°.9/23.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.55	+20 57.0	2.790	3.641	9.1	20.7
3 12	13 2.56	+21 53.6	2.739	3.638	7.7	20.6
3 22	12 55.26	+22 40.2	2.713	3.634	7.0	20.6
4 1	12 47.24	+23 11.5	2.716	3.630	7.4	20.6
4 11	12 39.23	+23 24.1	2.745	3.626	8.7	20.7
4 21	12 31.87	+23 16.6	2.799	3.621	10.4	20.8
5 1	12 25.75	+22 49.5	2.875	3.616	12.2	20.9
5 11	12 21.25	+22 5.0	2.970	3.610	13.7	21.0

55048 2001 QK_{66} 4 2.1 250°.02 1°.9/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.17	−11 57.4	1.484	2.337	15.6	19.1
3 12	13 4.77	−11 33.3	1.404	2.328	11.6	18.8
3 22	12 56.90	−10 49.3	1.345	2.319	6.9	18.5
4 1	12 47.44	− 9 48.8	1.312	2.309	2.4	18.2
4 11	12 37.66	− 8 38.9	1.306	2.299	4.4	18.3
4 21	12 28.86	− 7 28.6	1.326	2.289	9.4	18.5
5 1	12 22.14	− 6 26.8	1.369	2.279	14.1	18.8
5 11	12 18.19	− 5 40.0	1.432	2.269	18.1	19.0

33253 1998 HJ_{29} 4 2.2 104°.06 0°.4/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.75	− 7 13.2	2.389	3.236	10.6	18.7
3 12	13 2.81	− 7 4.1	2.323	3.248	7.6	18.5
3 22	12 55.44	− 6 46.7	2.284	3.260	4.2	18.3
4 1	12 47.27	− 6 23.8	2.273	3.272	0.7	18.1
4 11	12 39.10	− 5 59.2	2.292	3.284	3.1	18.3
4 21	12 31.63	− 5 36.6	2.340	3.295	6.5	18.5
5 1	12 25.51	− 5 19.5	2.415	3.306	9.5	18.7
5 11	12 21.14	− 5 10.5	2.513	3.318	12.1	18.9

501116 2013 TP_{13} 4 2.2 211°.13 1°.1/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.17	− 3 27.6	2.246	3.104	10.8	22.9
3 12	13 3.29	− 2 50.2	2.165	3.097	7.6	22.7
3 22	12 55.79	− 2 5.3	2.110	3.090	4.0	22.4
4 1	12 47.32	− 1 17.4	2.084	3.082	1.1	22.2
4 11	12 38.70	− 0 31.5	2.088	3.074	4.1	22.4
4 21	12 30.76	+ 0 7.4	2.121	3.065	7.7	22.6
5 1	12 24.19	+ 0 35.4	2.180	3.056	11.1	22.8
5 11	12 19.51	+ 0 50.3	2.260	3.046	13.9	23.0

374120 2004 TJ_{35} 4 2.2 63°.89 0°.1/ 2.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.16	− 6 4.5	1.767	2.629	13.0	20.9
3 12	13 3.51	− 5 44.0	1.704	2.637	9.2	20.7
3 22	12 55.97	− 5 13.3	1.665	2.645	5.0	20.4
4 1	12 47.34	− 4 36.6	1.654	2.653	0.5	20.1
4 11	12 38.68	− 3 59.6	1.670	2.661	4.1	20.4
4 21	12 30.96	− 3 27.8	1.713	2.669	8.3	20.7
5 1	12 24.99	− 3 5.8	1.781	2.677	12.1	20.9
5 11	12 21.27	− 2 56.5	1.869	2.685	15.3	21.1

77544 2001 HB_{67} 4 2.2 345°.10 1°.3/ 3.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.85	− 9 55.4	1.219	2.094	16.7	19.1
3 12	13 1.98	− 9 38.0	1.148	2.085	12.3	18.8
3 22	12 55.49	− 9 0.8	1.099	2.078	7.1	18.5
4 1	12 47.31	− 8 8.3	1.073	2.071	1.8	18.2
4 11	12 38.85	− 7 8.5	1.071	2.065	4.8	18.3
4 21	12 31.50	− 6 11.0	1.092	2.060	10.3	18.6
5 1	12 26.44	− 5 24.8	1.135	2.057	15.3	18.9
5 11	12 24.35	− 4 56.0	1.196	2.054	19.6	19.1

462206 2007 VP_{126} 4 2.2 131°.58 0°.9/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.83	− 4 35.1	1.838	2.698	12.7	21.9
3 12	13 5.28	− 3 57.0	1.779	2.712	8.9	21.7
3 22	12 56.87	− 3 9.9	1.745	2.725	4.7	21.5
4 1	12 47.45	− 2 18.9	1.739	2.738	0.9	21.2
4 11	12 38.05	− 1 30.4	1.762	2.750	4.4	21.5
4 21	12 29.65	− 0 49.9	1.813	2.761	8.5	21.8
5 1	12 23.03	− 0 21.9	1.889	2.772	12.2	22.0
5 11	12 18.66	− 0 8.5	1.986	2.782	15.2	22.3

205622 2001 VO_2 4 2.2 168°.38 10°.2/20.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 12.11	+22 57.9	1.955	2.810	12.3	20.5
3 12	13 5.53	+25 3.6	1.922	2.816	10.7	20.4
3 22	12 57.02	+26 53.5	1.914	2.821	10.2	20.4
4 1	12 47.46	+28 17.8	1.933	2.825	11.1	20.5
4 11	12 37.93	+29 10.4	1.976	2.828	12.8	20.6
4 21	12 29.42	+29 29.6	2.041	2.831	14.9	20.7
5 1	12 22.74	+29 17.5	2.125	2.832	16.8	20.9
5 11	12 18.37	+28 38.7	2.223	2.832	18.5	21.0

312047 2007 RG_{240} 4 2.2 134°.49 0°.5/ 2.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.53	− 8 50.1	1.805	2.655	13.4	21.7
3 12	13 5.15	− 8 18.8	1.741	2.667	9.6	21.5
3 22	12 56.83	− 7 34.3	1.703	2.679	5.3	21.2
4 1	12 47.45	− 6 41.0	1.692	2.690	0.9	20.9
4 11	12 38.06	− 5 45.1	1.709	2.701	3.8	21.2
4 21	12 29.66	− 4 53.3	1.755	2.711	8.1	21.5
5 1	12 23.08	− 4 11.0	1.825	2.720	11.9	21.7
5 11	12 18.79	− 3 42.1	1.918	2.729	15.1	21.9

288001 2003 UZ_{191} 4 2.2 269°.35 0°.1/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.05	− 6 14.8	1.587	2.449	14.2	20.4
3 12	13 6.01	− 6 6.2	1.504	2.436	10.3	20.1
3 22	12 57.56	− 5 46.2	1.444	2.423	5.7	19.8
4 1	12 47.55	− 5 18.2	1.411	2.410	0.6	19.4
4 11	12 37.18	− 4 48.1	1.405	2.397	4.5	19.6
4 21	12 27.70	− 4 21.7	1.425	2.383	9.5	19.9
5 1	12 20.19	− 4 4.7	1.470	2.369	14.0	20.1
5 11	12 15.37	− 4 0.9	1.534	2.355	17.8	20.3

200285 1999 YF_{12} 4 2.2 148°.98 0°.5/ 2.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.43	− 8 47.0	2.155	3.004	11.5	21.1
3 12	13 2.07	− 8 14.9	2.083	3.008	8.3	20.9
3 22	12 55.13	− 7 31.4	2.036	3.013	4.6	20.6
4 1	12 47.28	− 6 40.2	2.018	3.017	0.8	20.4
4 11	12 39.37	− 5 46.7	2.029	3.020	3.3	20.6
4 21	12 32.19	− 4 56.1	2.068	3.024	7.1	20.8
5 1	12 26.44	− 4 13.5	2.133	3.027	10.5	21.0
5 11	12 22.57	− 3 42.4	2.220	3.030	13.4	21.2

371072 2005 UQ_{292} 4 2.2 128°.19 0°.8/ 3.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.81	− 9 35.5	2.120	2.963	11.9	22.7
3 12	13 3.72	− 9 10.1	2.055	2.977	8.6	22.5
3 22	12 56.00	− 8 33.0	2.016	2.990	4.9	22.3
4 1	12 47.39	− 7 47.5	2.005	3.003	1.2	22.1
4 11	12 38.77	− 6 58.9	2.023	3.015	3.3	22.3
4 21	12 30.99	− 6 12.5	2.070	3.027	7.0	22.5
5 1	12 24.74	− 5 33.0	2.143	3.038	10.4	22.7
5 11	12 20.46	− 5 4.2	2.239	3.048	13.3	22.9

280158 2002 PM_{185} 4 2.2 182°.61 0°.5/ 1.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.61	− 5 24.8	2.252	3.108	10.8	21.7
3 12	13 2.17	− 4 53.6	2.178	3.109	7.7	21.5
3 22	12 55.19	− 4 14.1	2.130	3.109	4.1	21.3
4 1	12 47.32	− 3 30.1	2.110	3.109	0.5	21.0
4 11	12 39.36	− 2 46.5	2.119	3.108	3.6	21.2
4 21	12 32.09	− 2 8.0	2.157	3.107	7.2	21.5
5 1	12 26.18	− 1 38.7	2.221	3.106	10.5	21.7
5 11	12 22.08	− 1 21.2	2.307	3.105	13.3	21.8

99533 2002 EB_{89} 4 2.2 283°.24 1°.8/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.03	− 2 31.4	1.520	2.394	14.1	19.4
3 12	13 5.44	− 2 0.5	1.433	2.373	10.1	19.1
3 22	12 57.34	− 1 19.8	1.370	2.352	5.4	18.8
4 1	12 47.58	− 0 34.9	1.333	2.330	1.8	18.5
4 11	12 37.36	+ 0 6.6	1.322	2.309	5.7	18.7
4 21	12 27.98	+ 0 38.0	1.337	2.287	10.7	18.9
5 1	12 20.60	+ 0 53.7	1.375	2.265	15.4	19.1
5 11	12 15.96	+ 0 50.9	1.432	2.244	19.3	19.3

57424 Caelumnoctu 4 2.2 150°.52 1°.5/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.49	−11 9.0	2.445	3.278	10.9	19.0
3 12	13 2.71	−11 4.6	2.369	3.283	8.0	18.8
3 22	12 55.46	−10 49.4	2.318	3.287	4.8	18.6
4 1	12 47.35	−10 25.5	2.296	3.291	1.8	18.4
4 11	12 39.16	− 9 56.3	2.303	3.295	3.0	18.5
4 21	12 31.62	− 9 25.9	2.340	3.299	6.2	18.7
5 1	12 25.38	− 8 58.4	2.403	3.302	9.3	18.9
5 11	12 20.88	− 8 37.3	2.490	3.305	11.9	19.1

211609 2003 TT_{20} 4 2.2 199°.86 2°.5/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.30	+ 0 7.3	1.819	2.687	12.4	20.9
3 12	13 5.80	+ 0 44.0	1.748	2.685	8.8	20.7
3 22	12 57.28	+ 1 25.8	1.701	2.682	4.8	20.4
4 1	12 47.55	+ 2 7.2	1.683	2.678	2.5	20.2
4 11	12 37.69	+ 2 41.9	1.693	2.673	5.6	20.4
4 21	12 28.74	+ 3 5.0	1.730	2.669	9.6	20.7
5 1	12 21.56	+ 3 13.0	1.792	2.663	13.3	20.9
5 11	12 16.71	+ 3 4.9	1.874	2.657	16.4	21.1

426038 2011 SP_{120} 4 2.2 241.°95 3.°1/ 5.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 5.85	−17 44.3	2.580	3.387	11.2	21.0
3 12	13 0.91	−17 32.2	2.486	3.378	8.7	20.8
3 22	12 54.53	−17 5.0	2.416	3.368	5.9	20.6
4 1	12 47.26	−16 23.9	2.374	3.359	3.5	20.4
4 11	12 39.83	−15 32.3	2.362	3.349	3.5	20.4
4 21	12 32.95	−14 34.8	2.378	3.338	6.0	20.6
5 1	12 27.25	−13 36.8	2.421	3.328	8.9	20.7
5 11	12 23.20	−12 43.4	2.488	3.317	11.5	20.9

116083 2003 WA_{125} 4 2.2 249.°79 3.°1/ 5.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.52	−17 30.2	2.597	3.400	11.2	19.7
3 12	13 2.88	−17 21.6	2.488	3.379	8.7	19.5
3 22	12 55.65	−16 58.0	2.405	3.357	6.0	19.3
4 1	12 47.39	−16 20.1	2.349	3.333	3.5	19.1
4 11	12 38.85	−15 30.9	2.323	3.310	3.6	19.1
4 21	12 30.78	−14 35.0	2.327	3.285	6.3	19.2
5 1	12 23.91	−13 37.7	2.358	3.260	9.3	19.3
5 11	12 18.76	−12 44.3	2.413	3.235	12.1	19.5

354865 2006 AN_{47} 4 2.2 15.°37 5.°6/ 5.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.47	−16 31.5	0.931	1.802	21.0	19.8
3 12	13 2.15	−16 54.9	0.880	1.808	16.3	19.5
3 22	12 55.71	−16 47.6	0.847	1.815	11.0	19.2
4 1	12 47.39	−16 11.0	0.834	1.824	6.4	19.0
4 11	12 38.96	−15 12.7	0.843	1.835	6.5	19.0
4 21	12 32.09	−14 4.7	0.872	1.848	11.0	19.3
5 1	12 28.06	−12 59.8	0.922	1.862	15.9	19.6
5 11	12 27.46	−12 8.3	0.988	1.877	20.3	20.0

511615 2015 BD_{25} 4 2.2 74.°68 0.°8/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.80	− 5 33.2	1.862	2.727	12.3	21.5
3 12	13 1.81	− 4 45.9	1.796	2.732	8.7	21.2
3 22	12 55.06	− 3 48.1	1.756	2.736	4.6	21.0
4 1	12 47.32	− 2 45.2	1.742	2.741	0.8	20.7
4 11	12 39.52	− 1 43.9	1.757	2.746	4.3	21.0
4 21	12 32.57	− 0 50.6	1.799	2.751	8.3	21.3
5 1	12 27.21	− 0 10.1	1.866	2.755	12.0	21.5
5 11	12 23.92	+ 0 14.6	1.953	2.760	15.0	21.7

210500 1998 HN_{25} 4 2.2 29.°72 2.°4/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.93	− 2 39.0	1.183	2.072	16.0	20.0
3 12	13 3.26	− 1 46.9	1.133	2.080	11.2	19.8
3 22	12 56.06	− 0 43.9	1.106	2.089	6.0	19.5
4 1	12 47.44	+ 0 21.2	1.102	2.099	2.4	19.3
4 11	12 38.85	+ 1 18.2	1.123	2.110	6.5	19.6
4 21	12 31.61	+ 1 59.2	1.167	2.121	11.6	19.9
5 1	12 26.71	+ 2 19.2	1.233	2.133	16.1	20.2
5 11	12 24.68	+ 2 17.0	1.316	2.145	19.8	20.4

497747 2006 SF_{236} 4 2.2 166.°47 1.°7/30.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.88	− 2 3.0	2.630	3.493	9.2	22.2
3 12	13 0.06	− 1 0.4	2.561	3.496	6.4	22.1
3 22	12 53.99	+ 0 7.9	2.519	3.499	3.4	21.9
4 1	12 47.23	+ 1 17.2	2.507	3.502	1.7	21.7
4 11	12 40.43	+ 2 22.3	2.525	3.505	4.1	21.9
4 21	12 34.21	+ 3 18.5	2.572	3.507	7.0	22.1
5 1	12 29.11	+ 4 2.5	2.645	3.508	9.8	22.3
5 11	12 25.51	+ 4 32.4	2.740	3.510	12.1	22.4

24042 1999 SY_{11} 4 2.2 278.°29 0.°0/ 2.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.40	−14 56.2	1.099	1.966	18.8	18.1
3 12	13 1.87	−12 24.2	1.025	1.959	13.7	17.8
3 22	12 55.53	− 9 8.8	0.972	1.952	7.6	17.4
4 1	12 47.42	− 5 22.9	0.946	1.945	0.8	17.0
4 11	12 39.07	− 1 29.0	0.947	1.938	6.2	17.3
4 21	12 31.98	+ 2 7.7	0.973	1.931	12.7	17.6
5 1	12 27.37	+ 5 8.0	1.023	1.924	18.5	17.9
5 11	12 25.91	+ 7 22.6	1.090	1.918	23.1	18.2

99659 2002 HW_{11} 4 2.2 21.°70 5.°4/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.15	+ 5 17.2	1.302	2.192	14.9	18.8
3 12	13 5.45	+ 6 8.7	1.249	2.194	10.7	18.6
3 22	12 57.23	+ 7 0.4	1.219	2.197	6.7	18.3
4 1	12 47.59	+ 7 43.1	1.213	2.200	5.6	18.3
4 11	12 37.92	+ 8 8.6	1.232	2.203	8.7	18.5
4 21	12 29.55	+ 8 12.1	1.275	2.207	12.9	18.7
5 1	12 23.50	+ 7 52.2	1.339	2.211	16.9	19.0
5 11	12 20.31	+ 7 10.6	1.420	2.216	20.2	19.2

508116 2015 DM_{212} 4 2.2 257.°61 4.°2/27.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.20	+ 7 19.1	2.453	3.327	9.4	21.1
3 12	13 1.15	+ 8 19.9	2.377	3.312	6.8	20.9
3 22	12 54.66	+ 9 20.5	2.327	3.297	4.7	20.7
4 1	12 47.32	+10 15.2	2.306	3.282	4.5	20.7
4 11	12 39.83	+10 58.7	2.314	3.267	6.5	20.8
4 21	12 32.92	+11 27.1	2.349	3.251	9.2	20.9
5 1	12 27.22	+11 38.3	2.408	3.235	11.8	21.1
5 11	12 23.18	+11 32.2	2.487	3.219	14.1	21.2

193976 2001 RV_{116} 4 2.2 104.°07 0.°0/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 13.73	− 6 33.6	1.443	2.307	15.3	20.2
3 12	13 7.07	− 6 14.9	1.387	2.320	10.9	19.9
3 22	12 58.04	− 5 43.6	1.353	2.332	5.9	19.7
4 1	12 47.68	− 5 4.6	1.345	2.345	0.6	19.3
4 11	12 37.33	− 4 24.8	1.365	2.357	4.6	19.6
4 21	12 28.25	− 3 50.8	1.411	2.368	9.6	19.9
5 1	12 21.41	− 3 28.2	1.480	2.380	13.9	20.2
5 11	12 17.35	− 3 20.2	1.569	2.391	17.4	20.5

332090 2005 UU_{84} 4 2.2 52.°93 0.°2/ 2.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.53	− 8 12.6	1.658	2.521	13.7	21.4
3 12	13 2.53	− 7 33.3	1.593	2.526	9.8	21.2
3 22	12 55.54	− 6 39.9	1.552	2.531	5.4	20.9
4 1	12 47.42	− 5 37.6	1.537	2.536	0.7	20.6
4 11	12 39.23	− 4 33.7	1.550	2.541	4.1	20.8
4 21	12 31.99	− 3 35.5	1.589	2.547	8.6	21.1
5 1	12 26.55	− 2 49.1	1.652	2.553	12.6	21.4
5 11	12 23.42	− 2 18.6	1.736	2.559	16.0	21.6

153133 2000 SC_{172} 4 2.2 216.°56 5.°3/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.09	−24 5.4	2.582	3.351	12.2	20.2
3 12	13 2.58	−24 24.8	2.491	3.348	10.0	20.1
3 22	12 55.49	−24 26.7	2.424	3.344	7.7	19.9
4 1	12 47.42	−24 10.6	2.382	3.340	5.8	19.8
4 11	12 39.15	−23 38.5	2.369	3.336	5.3	19.7
4 21	12 31.47	−22 54.3	2.383	3.332	6.7	19.8
5 1	12 25.07	−22 3.1	2.424	3.327	9.0	19.9
5 11	12 20.46	−21 10.9	2.489	3.323	11.4	20.1

504452 2008 CJ_{127} 4 2.2 127.°79 2.°4/ 5.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.27	−15 15.0	2.670	3.485	10.6	21.7
3 12	13 1.76	−15 9.2	2.596	3.496	8.0	21.6
3 22	12 54.93	−14 50.8	2.547	3.506	5.2	21.4
4 1	12 47.35	−14 21.5	2.527	3.515	2.8	21.2
4 11	12 39.72	−13 44.5	2.536	3.525	3.1	21.3
4 21	12 32.71	−13 3.9	2.574	3.534	5.7	21.4
5 1	12 26.89	−12 24.0	2.640	3.543	8.4	21.6
5 11	12 22.66	−11 48.9	2.730	3.551	10.8	21.8

313746 2003 UP_{244} 4 2.2 123.°48 3.°3/30.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.45	+ 2 11.9	1.751	2.623	12.6	21.0
3 12	13 5.79	+ 2 58.0	1.698	2.636	8.9	20.8
3 22	12 57.21	+ 3 46.8	1.670	2.649	5.1	20.6
4 1	12 47.60	+ 4 31.8	1.670	2.661	3.4	20.5
4 11	12 38.04	+ 5 6.6	1.698	2.673	6.2	20.7
4 21	12 29.56	+ 5 26.8	1.752	2.684	10.0	20.9
5 1	12 22.93	+ 5 30.1	1.831	2.695	13.4	21.1
5 11	12 18.64	+ 5 16.2	1.929	2.705	16.3	21.4

133056 2003 EU_{43} 4 2.2 356.°58 0.°7/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.36	− 9 18.1	1.372	2.244	15.4	19.4
3 12	13 1.38	− 8 44.8	1.305	2.241	11.2	19.1
3 22	12 55.08	− 7 53.6	1.259	2.238	6.3	18.8
4 1	12 47.39	− 6 49.8	1.238	2.236	1.2	18.5
4 11	12 39.52	− 5 41.7	1.242	2.235	4.5	18.7
4 21	12 32.70	− 4 38.4	1.271	2.235	9.6	19.0
5 1	12 27.90	− 3 47.8	1.322	2.236	14.2	19.3
5 11	12 25.74	− 3 15.0	1.393	2.238	18.0	19.5

3442 Yashin 4 2.2 139.°95 4.°8/26.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.40	+10 35.6	2.614	3.485	9.0	17.0
3 12	13 1.10	+11 37.1	2.563	3.493	6.7	16.9
3 22	12 54.55	+12 35.0	2.539	3.500	5.0	16.8
4 1	12 47.32	+13 23.9	2.544	3.508	5.0	16.8
4 11	12 40.11	+13 59.4	2.577	3.515	6.7	16.9
4 21	12 33.55	+14 18.9	2.637	3.521	9.0	17.0
5 1	12 28.17	+14 21.4	2.721	3.528	11.2	17.2
5 11	12 24.36	+14 7.7	2.825	3.534	13.1	17.4

214309 2005 JP_{23} 4 2.2 213.°29 1.°0/ 3.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.93	−11 19.2	2.073	2.912	12.3	20.9
3 12	13 3.33	−10 32.8	1.986	2.905	9.0	20.7
3 22	12 55.96	− 9 30.8	1.924	2.896	5.2	20.5
4 1	12 47.49	− 8 17.1	1.890	2.887	1.4	20.2
4 11	12 38.83	− 6 57.9	1.885	2.878	3.5	20.3
4 21	12 30.89	− 5 40.2	1.910	2.867	7.5	20.5
5 1	12 24.45	− 4 30.7	1.961	2.856	11.2	20.7
5 11	12 20.04	− 3 34.6	2.034	2.844	14.4	20.9

479801 2014 FB_{20} 4 2.2 333.°70 11.°7/11.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.89	−35 25.0	2.025	2.725	17.2	20.2
3 12	13 8.38	−37 12.5	1.935	2.715	15.4	20.1
3 22	12 59.13	−38 36.1	1.865	2.706	13.7	19.9
4 1	12 47.88	−39 29.6	1.817	2.697	12.3	19.8
4 11	12 35.85	−39 50.1	1.792	2.688	11.7	19.7
4 21	12 24.47	−39 39.0	1.790	2.680	12.2	19.7
5 1	12 15.04	−39 2.5	1.811	2.673	13.6	19.8
5 11	12 8.51	−38 10.0	1.852	2.666	15.5	19.9

17129 1999 JM_{78} 4 2.2 303°.33 7°.4/25.1 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 6.36	+11 7.4	1.689	2.575	12.2	16.6
3 12	13 1.71	+12 58.6	1.636	2.572	9.3	16.4
3 22	12 55.12	+14 46.1	1.607	2.568	7.5	16.3
4 1	12 47.41	+16 19.2	1.606	2.564	8.0	16.3
4 11	12 39.61	+17 29.1	1.630	2.561	10.4	16.5
4 21	12 32.73	+18 10.7	1.677	2.557	13.5	16.6
5 1	12 27.59	+18 22.8	1.745	2.554	16.4	16.8
5 11	12 24.70	+18 7.6	1.830	2.550	18.9	17.0

133970 2004 TN_{204} 4 2.2 105°.63 0°.5/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.27	− 5 17.4	2.075	2.932	11.6	20.3
3 12	13 3.35	− 4 44.9	2.017	2.948	8.2	20.1
3 22	12 55.84	− 4 4.1	1.985	2.964	4.3	19.9
4 1	12 47.48	− 3 19.3	1.981	2.980	0.6	19.7
4 11	12 39.16	− 2 35.7	2.006	2.995	3.8	19.9
4 21	12 31.69	− 1 58.3	2.059	3.010	7.5	20.2
5 1	12 25.74	− 1 31.0	2.138	3.024	10.8	20.4
5 11	12 21.75	− 1 16.1	2.239	3.038	13.6	20.6

211472 2003 DL_{24} 4 2.2 336°.00 9°.1/22.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.22	+18 50.5	1.844	2.720	11.9	19.0
3 12	13 0.84	+20 26.6	1.793	2.710	10.0	18.9
3 22	12 54.63	+21 51.8	1.766	2.700	9.1	18.8
4 1	12 47.36	+22 56.6	1.765	2.691	9.9	18.8
4 11	12 40.00	+23 34.5	1.787	2.682	11.8	18.9
4 21	12 33.50	+23 42.7	1.832	2.674	14.2	19.1
5 1	12 28.63	+23 21.6	1.896	2.667	16.6	19.2
5 11	12 25.90	+22 34.6	1.976	2.660	18.6	19.4

101908 1999 RG_{4} 4 2.2 205°.29 5°.7/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.13	−27 50.5	2.964	3.700	11.5	20.3
3 12	13 2.50	−28 10.6	2.868	3.696	9.7	20.2
3 22	12 55.42	−28 13.3	2.795	3.691	7.8	20.0
4 1	12 47.45	−27 58.0	2.748	3.686	6.2	19.9
4 11	12 39.29	−27 26.1	2.729	3.680	5.7	19.9
4 21	12 31.64	−26 40.7	2.737	3.674	6.6	19.9
5 1	12 25.15	−25 46.7	2.773	3.668	8.3	20.0
5 11	12 20.28	−24 49.6	2.834	3.662	10.3	20.1

286384 2001 XZ_{263} 4 2.2 218°.78 3°.9/ 6.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.44	−20 29.3	2.557	3.350	11.7	21.1
3 12	13 1.37	−20 22.8	2.466	3.345	9.3	20.9
3 22	12 54.82	−19 59.7	2.399	3.340	6.6	20.7
4 1	12 47.38	−19 20.6	2.359	3.335	4.4	20.6
4 11	12 39.79	−18 28.8	2.347	3.329	4.1	20.5
4 21	12 32.77	−17 28.9	2.364	3.323	6.2	20.7
5 1	12 26.98	−16 26.5	2.408	3.316	8.9	20.8
5 11	12 22.90	−15 27.3	2.477	3.310	11.4	21.0

120160 2003 HG_{30} 4 2.2 30°.58 4°.8/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.97	−21 13.6	1.510	2.333	16.9	18.7
3 12	13 0.96	−20 39.7	1.443	2.340	13.3	18.5
3 22	12 54.79	−19 36.8	1.397	2.348	9.3	18.3
4 1	12 47.38	−18 7.8	1.374	2.357	5.7	18.1
4 11	12 39.91	−16 20.6	1.378	2.366	5.2	18.1
4 21	12 33.50	−14 26.0	1.407	2.376	8.4	18.3
5 1	12 29.05	−12 35.6	1.462	2.386	12.3	18.5
5 11	12 27.08	−10 58.9	1.538	2.397	15.9	18.8

310691 2002 GS_{142} 4 2.2 329°.21 3°.3/30.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.38	+ 0 13.9	1.264	2.152	15.3	20.4
3 12	13 4.45	+ 0 52.6	1.196	2.143	10.8	20.1
3 22	12 56.87	+ 1 38.7	1.151	2.133	6.0	19.8
4 1	12 47.62	+ 2 24.2	1.130	2.125	3.3	19.6
4 11	12 38.10	+ 3 0.5	1.133	2.117	7.1	19.8
4 21	12 29.72	+ 3 20.4	1.161	2.109	12.2	20.1
5 1	12 23.65	+ 3 19.7	1.209	2.103	16.8	20.3
5 11	12 20.54	+ 2 57.5	1.275	2.097	20.7	20.6

504166 2006 SA_{355} 4 2.2 194°.61 0°.9/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.95	− 3 30.9	2.806	3.662	8.9	22.4
3 12	13 0.79	− 2 52.7	2.728	3.659	6.3	22.2
3 22	12 54.42	− 2 8.7	2.677	3.657	3.3	22.0
4 1	12 47.35	− 1 22.3	2.656	3.654	0.9	21.8
4 11	12 40.20	− 0 37.7	2.665	3.650	3.3	22.0
4 21	12 33.57	+ 0 1.2	2.703	3.646	6.3	22.2
5 1	12 28.01	+ 0 31.4	2.768	3.642	9.1	22.3
5 11	12 23.89	+ 0 50.8	2.856	3.637	11.4	22.5

124531 2001 RO_{90} 4 2.2 122°.43 3°.1/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.01	+ 0 24.4	1.530	2.404	13.9	20.1
3 12	13 6.44	+ 1 15.3	1.476	2.416	9.8	19.9
3 22	12 57.67	+ 2 11.6	1.447	2.428	5.4	19.7
4 1	12 47.70	+ 3 5.7	1.445	2.439	3.2	19.6
4 11	12 37.79	+ 3 50.0	1.470	2.450	6.4	19.8
4 21	12 29.07	+ 4 18.9	1.522	2.460	10.7	20.0
5 1	12 22.45	+ 4 29.2	1.596	2.470	14.5	20.3
5 11	12 18.43	+ 4 20.5	1.689	2.479	17.7	20.5

293458 2007 ET_{195} 4 2.2 334°.23 9°.8/23.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.14	+16 23.1	1.480	2.366	13.6	19.8
3 12	13 2.53	+18 4.3	1.429	2.357	11.1	19.6
3 22	12 55.67	+19 35.0	1.402	2.349	9.8	19.5
4 1	12 47.49	+20 43.8	1.398	2.341	10.5	19.5
4 11	12 39.22	+21 22.0	1.418	2.334	12.9	19.7
4 21	12 32.02	+21 26.3	1.459	2.327	15.8	19.8
5 1	12 26.83	+20 57.4	1.519	2.321	18.7	20.0
5 11	12 24.20	+19 59.7	1.594	2.315	21.2	20.2

40492 1999 RO_{69} 4 2.2 205°.52 2°.8/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.80	− 0 51.5	1.795	2.668	12.3	19.4
3 12	13 3.38	+ 0 23.6	1.725	2.665	8.6	19.2
3 22	12 56.03	+ 1 46.9	1.680	2.661	4.8	19.0
4 1	12 47.54	+ 3 10.9	1.663	2.656	2.9	18.8
4 11	12 38.91	+ 4 27.1	1.674	2.651	6.0	19.0
4 21	12 31.14	+ 5 28.5	1.712	2.646	10.0	19.2
5 1	12 25.06	+ 6 10.6	1.774	2.640	13.7	19.4
5 11	12 21.19	+ 6 31.6	1.855	2.633	16.8	19.6

176742 2002 RG_{81} 4 2.2 243°.44 1°.5/ 3.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.09	−10 16.0	1.870	2.713	13.3	20.6
3 12	13 5.85	−10 12.6	1.780	2.700	9.8	20.3
3 22	12 57.47	− 9 55.8	1.714	2.686	5.8	20.1
4 1	12 47.71	− 9 27.9	1.675	2.672	1.9	19.8
4 11	12 37.60	− 8 53.2	1.666	2.658	3.8	19.9
4 21	12 28.24	− 8 17.2	1.683	2.643	8.1	20.1
5 1	12 20.59	− 7 45.8	1.727	2.627	12.2	20.3
5 11	12 15.30	− 7 23.8	1.792	2.612	15.7	20.5

49997 2000 AZ_{12} 4 2.2 2°.47 3°.3/ 4.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.59	−13 45.7	1.219	2.082	17.6	18.0
3 12	13 2.55	−13 45.3	1.154	2.081	13.3	17.8
3 22	12 55.86	−13 21.8	1.109	2.080	8.4	17.5
4 1	12 47.53	−12 37.8	1.087	2.081	3.9	17.2
4 11	12 38.99	−11 40.5	1.089	2.082	5.0	17.3
4 21	12 31.63	−10 39.2	1.114	2.085	9.8	17.6
5 1	12 26.61	− 9 43.7	1.161	2.088	14.6	17.8
5 11	12 24.56	− 9 1.8	1.227	2.093	18.7	18.1

200696 2001 UW_{59} 4 2.2 180°.18 0°.2/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.81	− 8 21.1	1.905	2.753	12.8	22.0
3 12	13 5.43	− 7 41.2	1.830	2.755	9.2	21.7
3 22	12 57.12	− 6 48.1	1.780	2.756	5.1	21.5
4 1	12 47.66	− 5 46.4	1.758	2.757	0.7	21.1
4 11	12 38.09	− 4 42.4	1.765	2.756	3.9	21.4
4 21	12 29.39	− 3 42.9	1.801	2.755	8.1	21.6
5 1	12 22.40	− 2 53.7	1.863	2.753	12.0	21.9
5 11	12 17.64	− 2 18.9	1.946	2.749	15.2	22.1

388382 2006 US_{258} 4 2.2 120°.84 0°.1/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.43	− 7 16.4	2.478	3.327	10.2	22.0
3 12	13 1.23	− 6 47.8	2.409	3.336	7.3	21.9
3 22	12 54.68	− 6 10.5	2.367	3.344	4.0	21.7
4 1	12 47.39	− 5 28.0	2.353	3.352	0.5	21.4
4 11	12 40.07	− 4 44.6	2.369	3.360	3.0	21.6
4 21	12 33.40	− 4 4.5	2.414	3.368	6.4	21.8
5 1	12 27.95	− 3 31.7	2.486	3.376	9.4	22.0
5 11	12 24.13	− 3 8.7	2.580	3.383	11.9	22.2

429091 2009 RJ_{51} 4 2.2 72°.50 0°.0/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.54	− 8 49.0	1.740	2.598	13.4	21.3
3 12	13 2.32	− 7 46.0	1.690	2.621	9.5	21.1
3 22	12 55.34	− 6 29.2	1.665	2.643	5.1	20.8
4 1	12 47.46	− 5 5.1	1.667	2.666	0.5	20.5
4 11	12 39.69	− 3 41.7	1.697	2.689	4.0	20.9
4 21	12 32.93	− 2 26.8	1.755	2.711	8.2	21.2
5 1	12 27.90	− 1 26.1	1.838	2.733	11.9	21.4
5 11	12 25.00	− 0 42.9	1.942	2.755	14.9	21.7

228571 2001 XN_{223} 4 2.2 122°.58 0°.6/ 3.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.52	− 9 16.4	3.353	4.190	8.1	20.9
3 12	12 58.93	− 8 57.6	3.278	4.197	5.9	20.8
3 22	12 53.36	− 8 31.5	3.231	4.204	3.3	20.6
4 1	12 47.25	− 8 0.3	3.213	4.211	0.9	20.4
4 11	12 41.11	− 7 26.9	3.226	4.218	2.2	20.5
4 21	12 35.41	− 6 54.2	3.269	4.225	4.8	20.7
5 1	12 30.59	− 6 25.1	3.339	4.232	7.1	20.9
5 11	12 26.96	− 6 2.2	3.433	4.238	9.2	21.0

373431 1999 TU_{62} 4 2.2 169°.00 0°.6/ 2.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.43	− 9 23.6	2.213	3.058	11.4	21.6
3 12	13 2.11	− 8 47.8	2.138	3.061	8.2	21.4
3 22	12 55.24	− 8 0.1	2.088	3.063	4.6	21.1
4 1	12 47.46	− 7 4.3	2.067	3.065	0.9	20.9
4 11	12 39.60	− 6 5.6	2.075	3.067	3.2	21.0
4 21	12 32.45	− 5 9.5	2.111	3.068	6.9	21.3
5 1	12 26.68	− 4 21.2	2.174	3.069	10.3	21.5
5 11	12 22.75	− 3 44.5	2.260	3.070	13.2	21.7

363289 2002 JU_{31} 4 2.2 336°.98 0°.7/ 1.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 5.95	− 6 40.5	1.233	2.116	16.0	20.1
3 12	13 2.06	− 5 52.0	1.164	2.107	11.5	19.8
3 22	12 55.60	− 4 45.8	1.116	2.098	6.2	19.4
4 1	12 47.51	− 3 28.9	1.092	2.091	0.8	19.0
4 11	12 39.17	− 2 11.7	1.093	2.084	5.5	19.3
4 21	12 31.92	− 1 4.6	1.117	2.078	11.1	19.6
5 1	12 26.90	− 0 16.0	1.163	2.073	16.0	19.9
5 11	12 24.78	+ 0 9.8	1.226	2.068	20.2	20.1

366531 2002 QA_{48} 4 2.2 301°.24 2°.7/ 4.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.37	−12 24.0	1.446	2.300	15.9	21.1
3 12	13 4.48	−12 24.8	1.356	2.279	12.0	20.8
3 22	12 56.98	−12 6.6	1.287	2.259	7.5	20.5
4 1	12 47.68	−11 31.1	1.243	2.238	3.2	20.1
4 11	12 37.85	−10 43.5	1.225	2.218	4.7	20.2
4 21	12 28.85	− 9 51.4	1.232	2.199	9.6	20.4
5 1	12 21.93	− 9 3.4	1.262	2.179	14.5	20.6
5 11	12 17.88	− 8 27.0	1.311	2.160	18.7	20.8

170311 2003 SJ_{40} 4 2.2 221°.60 1°.7/ 3.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.56	−12 50.4	1.873	2.711	13.5	20.7
3 12	13 3.99	−12 14.5	1.786	2.703	10.0	20.5
3 22	12 56.42	−11 20.7	1.723	2.694	6.0	20.2
4 1	12 47.60	−10 12.4	1.688	2.684	2.2	19.9
4 11	12 38.55	− 8 55.9	1.681	2.674	3.7	20.0
4 21	12 30.28	− 7 38.7	1.702	2.663	7.9	20.2
5 1	12 23.68	− 6 28.5	1.749	2.652	11.9	20.5
5 11	12 19.33	− 5 31.3	1.818	2.640	15.4	20.7

153761 2001 UB_{222} 4 2.2 110°.36 8°.2/10.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.65	−29 38.5	1.933	2.683	16.4	20.1
3 12	13 4.85	−30 7.2	1.858	2.692	13.9	19.9
3 22	12 56.90	−30 9.1	1.802	2.700	11.3	19.7
4 1	12 47.65	−29 42.4	1.770	2.708	9.0	19.6
4 11	12 38.24	−28 49.5	1.764	2.716	8.2	19.6
4 21	12 29.77	−27 36.3	1.783	2.724	9.2	19.6
5 1	12 23.17	−26 11.5	1.827	2.732	11.4	19.8
5 11	12 19.04	−24 44.6	1.894	2.739	13.9	20.0

437364 2013 UP_{4} 4 2.2 285°.94 13°.0/14.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.05	−36 5.0	1.111	1.877	25.2	21.0
3 12	13 3.71	−36 14.9	1.029	1.867	22.2	20.7
3 22	12 56.89	−35 32.2	0.960	1.856	18.8	20.4
4 1	12 47.68	−33 48.5	0.908	1.846	15.4	20.2
4 11	12 37.94	−31 4.3	0.876	1.835	13.2	20.0
4 21	12 29.62	−27 32.8	0.866	1.825	13.7	20.0
5 1	12 24.36	−23 37.4	0.878	1.815	16.9	20.1
5 11	12 22.98	−19 45.3	0.911	1.805	21.1	20.3

434194 2003 FK_{127} 4 2.2 349°.46 0°.1/ 1.3 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	12 48.80	− 2 49.7	39.681	40.536	0.7	23.2
3 12	12 48.13	− 2 45.2	39.604	40.535	0.5	23.1
3 22	12 47.39	− 2 40.4	39.555	40.535	0.3	23.1
4 1	12 46.63	− 2 35.6	39.536	40.535	0.1	23.0
4 11	12 45.86	− 2 30.7	39.547	40.535	0.2	23.1
4 21	12 45.11	− 2 26.2	39.588	40.534	0.5	23.1
5 1	12 44.42	− 2 22.1	39.656	40.534	0.7	23.2
5 11	12 43.81	− 2 18.5	39.750	40.534	0.9	23.2

200774 2001 XT_{36} 4 2.2 129°.95 0°.2/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.07	− 6 55.5	1.577	2.435	14.6	20.1
3 12	13 7.26	− 6 42.1	1.514	2.444	10.4	19.9
3 22	12 58.19	− 6 16.7	1.475	2.453	5.7	19.7
4 1	12 47.81	− 5 43.4	1.463	2.462	0.8	19.3
4 11	12 37.38	− 5 8.2	1.479	2.470	4.3	19.6
4 21	12 28.10	− 4 37.2	1.521	2.478	9.1	19.9
5 1	12 20.91	− 4 15.8	1.588	2.486	13.2	20.2
5 11	12 16.35	− 4 7.3	1.675	2.493	16.7	20.4

39403 9514 $P–L$ 4 2.2 104°.46 0°.8/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.05	− 4 37.6	1.985	2.848	11.8	18.9
3 12	13 2.67	− 4 5.0	1.918	2.852	8.3	18.7
3 22	12 55.58	− 3 23.7	1.876	2.856	4.4	18.4
4 1	12 47.53	− 2 38.4	1.861	2.860	0.8	18.2
4 11	12 39.41	− 1 54.7	1.876	2.864	4.1	18.4
4 21	12 32.10	− 1 17.8	1.917	2.868	8.0	18.7
5 1	12 26.32	− 0 51.7	1.984	2.872	11.5	18.9
5 11	12 22.55	− 0 39.1	2.072	2.876	14.4	19.1

186568 2002 YP_{27} 4 2.2 55°.83 3°.6/30.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.19	+ 1 40.0	1.521	2.404	13.5	19.9
3 12	13 3.76	+ 2 35.8	1.470	2.414	9.5	19.7
3 22	12 56.25	+ 3 35.6	1.443	2.424	5.4	19.5
4 1	12 47.60	+ 4 31.6	1.443	2.434	3.7	19.4
4 11	12 38.99	+ 5 16.1	1.468	2.445	6.8	19.6
4 21	12 31.50	+ 5 43.5	1.519	2.456	10.8	19.8
5 1	12 25.97	+ 5 51.2	1.593	2.467	14.5	20.1
5 11	12 22.88	+ 5 39.1	1.685	2.478	17.6	20.3

466684 2014 WJ_{270} 4 2.2 47°.45 6°.5/27.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.74	+ 9 1.5	1.473	2.360	13.6	20.9
3 12	13 4.15	+10 9.4	1.432	2.372	10.0	20.7
3 22	12 56.44	+11 12.7	1.414	2.384	7.1	20.6
4 1	12 47.62	+12 2.3	1.422	2.396	6.9	20.6
4 11	12 38.91	+12 30.9	1.455	2.409	9.4	20.7
4 21	12 31.42	+12 35.2	1.512	2.422	12.8	21.0
5 1	12 25.98	+12 15.0	1.590	2.436	16.0	21.2
5 11	12 23.05	+11 33.1	1.686	2.450	18.7	21.4

106741 2000 WD_{189} 4 2.2 238°.68 2°.1/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.67	+ 1 2.6	2.454	3.320	9.7	19.5
3 12	13 2.18	+ 1 31.0	2.379	3.315	6.8	19.3
3 22	12 55.26	+ 2 2.3	2.330	3.309	3.8	19.1
4 1	12 47.50	+ 2 32.5	2.309	3.303	2.2	19.0
4 11	12 39.65	+ 2 57.3	2.319	3.297	4.5	19.1
4 21	12 32.40	+ 3 13.4	2.356	3.291	7.6	19.3
5 1	12 26.40	+ 3 18.3	2.420	3.285	10.5	19.5
5 11	12 22.07	+ 3 11.0	2.505	3.279	13.0	19.6

345571 2006 RR_{103} 4 2.2 168°.59 4°.6/27.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.21	+ 9 12.0	2.404	3.276	9.6	21.3
3 12	13 1.82	+10 5.2	2.345	3.278	7.1	21.1
3 22	12 55.04	+10 55.7	2.312	3.279	5.1	21.0
4 1	12 47.48	+11 38.0	2.308	3.280	4.9	21.0
4 11	12 39.89	+12 7.3	2.333	3.281	6.7	21.1
4 21	12 32.99	+12 20.8	2.384	3.281	9.3	21.3
5 1	12 27.37	+12 17.3	2.459	3.282	11.7	21.4
5 11	12 23.45	+11 57.5	2.554	3.282	13.9	21.6

202872 2008 UG_{109} 4 2.2 218°.61 0°.1/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.84	− 6 26.7	2.083	2.939	11.6	20.6
3 12	13 2.52	− 5 58.7	2.007	2.937	8.3	20.4
3 22	12 55.52	− 5 20.9	1.956	2.935	4.5	20.2
4 1	12 47.54	− 4 37.2	1.933	2.932	0.5	19.9
4 11	12 39.43	− 3 52.7	1.939	2.930	3.6	20.1
4 21	12 32.04	− 3 12.6	1.973	2.927	7.5	20.4
5 1	12 26.11	− 2 41.5	2.033	2.924	11.0	20.6
5 11	12 22.13	− 2 22.5	2.114	2.921	14.0	20.8

59406 1999 FM_{35} 4 2.2 121°.22 0°.6/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.50	− 9 31.8	1.598	2.452	14.6	19.2
3 12	13 5.37	− 8 52.0	1.538	2.466	10.5	19.0
3 22	12 57.13	− 7 56.5	1.502	2.478	5.9	18.7
4 1	12 47.71	− 6 50.4	1.492	2.491	1.1	18.4
4 11	12 38.29	− 5 41.7	1.510	2.503	4.1	18.7
4 21	12 29.99	− 4 38.0	1.556	2.514	8.8	19.0
5 1	12 23.68	− 3 46.2	1.625	2.525	12.9	19.2
5 11	12 19.86	− 3 10.3	1.716	2.535	16.3	19.5

303747 2005 QH_{97} 4 2.2 224°.38 0°.8/ 1.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.49	− 3 36.5	2.767	3.622	9.1	21.2
3 12	13 1.25	− 3 6.0	2.682	3.613	6.4	21.0
3 22	12 54.74	− 2 29.5	2.625	3.604	3.4	20.8
4 1	12 47.46	− 1 50.5	2.596	3.595	0.8	20.6
4 11	12 40.06	− 1 12.8	2.598	3.585	3.3	20.8
4 21	12 33.17	− 0 40.1	2.630	3.575	6.4	21.0
5 1	12 27.35	− 0 15.5	2.688	3.564	9.2	21.1
5 11	12 23.02	− 0 1.3	2.769	3.553	11.6	21.3

376258 2011 FS_{7} 4 2.2 29°.33 1°.0/ 3.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.12	−12 28.7	1.571	2.428	14.6	20.1
3 12	13 0.22	−11 17.1	1.507	2.435	10.7	19.9
3 22	12 54.37	− 9 44.6	1.467	2.442	6.1	19.6
4 1	12 47.41	− 7 57.9	1.452	2.450	1.5	19.4
4 11	12 40.43	− 6 6.8	1.465	2.459	4.0	19.5
4 21	12 34.41	− 4 21.9	1.505	2.468	8.6	19.8
5 1	12 30.18	− 2 51.8	1.569	2.478	12.7	20.1
5 11	12 28.20	− 1 42.1	1.655	2.487	16.2	20.3

489561 2007 TA_{18} 4 2.2 134°.66 0°.1/ 2.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.11	− 7 31.2	2.536	3.383	10.1	22.2
3 12	13 1.69	− 7 0.0	2.469	3.394	7.2	22.0
3 22	12 54.95	− 6 20.0	2.427	3.404	3.9	21.8
4 1	12 47.48	− 5 34.7	2.415	3.414	0.5	21.6
4 11	12 40.00	− 4 48.5	2.432	3.423	3.0	21.8
4 21	12 33.15	− 4 5.6	2.479	3.432	6.3	22.0
5 1	12 27.53	− 3 29.9	2.553	3.441	9.2	22.2
5 11	12 23.52	− 3 4.1	2.649	3.449	11.7	22.4

107211 2001 BY_{40} 4 2.2 119°.13 2°.1/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.83	− 3 11.9	1.799	2.666	12.6	20.4
3 12	13 3.92	− 1 50.9	1.747	2.684	8.7	20.2
3 22	12 56.24	− 0 21.2	1.721	2.702	4.6	19.9
4 1	12 47.62	+ 1 9.6	1.723	2.719	2.1	19.8
4 11	12 39.08	+ 2 33.1	1.754	2.735	5.3	20.0
4 21	12 31.54	+ 3 42.3	1.812	2.751	9.2	20.3
5 1	12 25.73	+ 4 32.9	1.896	2.766	12.7	20.6
5 11	12 22.09	+ 5 3.2	1.999	2.780	15.6	20.8

212756 2007 TY_{16} 4 2.2 94.°99 0.°0/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 11.59	− 7 0.0	1.522	2.385	14.7	20.9
3 12	13 5.53	− 6 33.6	1.463	2.396	10.5	20.7
3 22	12 57.26	− 5 54.3	1.428	2.407	5.7	20.4
4 1	12 47.75	− 5 7.1	1.419	2.418	0.6	20.1
4 11	12 38.22	− 4 19.2	1.437	2.428	4.4	20.4
4 21	12 29.83	− 3 37.2	1.481	2.439	9.2	20.7
5 1	12 23.51	− 3 7.0	1.549	2.449	13.4	21.0
5 11	12 19.78	− 2 51.9	1.637	2.459	16.8	21.2

39701 1996 TF_{10} 4 2.2 169.°67 1.°4/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.04	−10 16.3	1.734	2.581	14.0	18.5
3 12	13 5.78	−10 2.2	1.662	2.584	10.2	18.2
3 22	12 57.41	− 9 33.4	1.613	2.586	6.0	18.0
4 1	12 47.77	− 8 53.3	1.591	2.588	1.8	17.7
4 11	12 37.99	− 8 7.3	1.597	2.589	3.9	17.8
4 21	12 29.15	− 7 21.9	1.630	2.591	8.3	18.1
5 1	12 22.18	− 6 43.3	1.689	2.591	12.3	18.3
5 11	12 17.65	− 6 16.2	1.769	2.591	15.7	18.6

182606 2001 UU_{47} 4 2.2 186.°83 0.°3/ 2.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.24	−10 4.3	2.164	3.009	11.7	20.5
3 12	13 2.05	− 8 59.3	2.086	3.009	8.4	20.3
3 22	12 55.25	− 7 40.0	2.032	3.008	4.7	20.0
4 1	12 47.53	− 6 11.2	2.008	3.007	0.7	19.7
4 11	12 39.72	− 4 39.9	2.014	3.005	3.4	19.9
4 21	12 32.62	− 3 13.0	2.049	3.003	7.3	20.2
5 1	12 26.92	− 1 57.1	2.110	3.000	10.8	20.4
5 11	12 23.09	− 0 56.3	2.194	2.996	13.7	20.6

42173 2001 CQ_{18} 4 2.2 256.°05 10.°4/19.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.55	+19 52.6	1.765	2.636	12.6	19.1
3 12	13 3.47	+22 28.6	1.710	2.619	10.9	18.9
3 22	12 56.24	+24 54.5	1.680	2.601	10.5	18.9
4 1	12 47.65	+26 57.4	1.677	2.582	11.7	18.9
4 11	12 38.80	+28 27.5	1.698	2.563	13.9	19.0
4 21	12 30.78	+29 20.2	1.741	2.544	16.5	19.1
5 1	12 24.55	+29 35.7	1.801	2.524	18.9	19.3
5 11	12 20.75	+29 17.9	1.874	2.504	21.0	19.4

32850 1992 RY_{4} 4 2.2 283.°91 0.°6/ 2.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.76	− 8 30.9	1.740	2.597	13.4	19.2
3 12	13 3.63	− 8 7.5	1.650	2.579	9.8	18.9
3 22	12 56.35	− 7 30.1	1.584	2.561	5.5	18.6
4 1	12 47.68	− 6 42.1	1.544	2.542	1.0	18.2
4 11	12 38.64	− 5 49.6	1.531	2.524	4.0	18.4
4 21	12 30.34	− 4 59.4	1.546	2.505	8.7	18.6
5 1	12 23.76	− 4 17.9	1.585	2.487	13.0	18.8
5 11	12 19.55	− 3 50.2	1.644	2.468	16.7	19.0

385890 2006 SU_{225} 4 2.2 260.°95 2.°8/ 5.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.90	−15 0.3	2.272	3.095	12.0	21.5
3 12	13 2.57	−15 1.5	2.184	3.088	9.1	21.3
3 22	12 55.59	−14 48.3	2.121	3.081	6.0	21.0
4 1	12 47.58	−14 22.2	2.084	3.074	3.2	20.9
4 11	12 39.38	−13 46.5	2.077	3.066	3.6	20.9
4 21	12 31.80	−13 5.7	2.098	3.059	6.6	21.0
5 1	12 25.58	−12 25.2	2.145	3.052	9.8	21.2
5 11	12 21.24	−11 50.0	2.215	3.044	12.7	21.4

504155 2006 SU_{257} 4 2.2 210.°28 0.°2/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.41	− 5 28.5	2.438	3.290	10.3	21.9
3 12	13 2.74	− 5 14.7	2.359	3.287	7.3	21.7
3 22	12 55.59	− 4 53.8	2.306	3.284	4.0	21.5
4 1	12 47.58	− 4 28.6	2.281	3.281	0.4	21.2
4 11	12 39.46	− 4 3.0	2.287	3.277	3.2	21.4
4 21	12 31.95	− 3 40.7	2.322	3.274	6.7	21.6
5 1	12 25.70	− 3 25.1	2.383	3.270	9.8	21.8
5 11	12 21.17	− 3 18.6	2.466	3.266	12.5	22.0

299952 2006 TS_{60} 4 2.2 170.°83 1.°1/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.97	− 3 16.6	2.530	3.390	9.7	21.9
3 12	13 0.93	− 2 36.6	2.458	3.392	6.8	21.7
3 22	12 54.58	− 1 50.5	2.413	3.393	3.6	21.5
4 1	12 47.47	− 1 2.3	2.397	3.395	1.1	21.3
4 11	12 40.30	− 0 16.4	2.410	3.396	3.7	21.5
4 21	12 33.74	+ 0 22.8	2.452	3.396	6.8	21.7
5 1	12 28.34	+ 0 52.2	2.521	3.397	9.7	21.9
5 11	12 24.53	+ 1 9.5	2.611	3.397	12.2	22.1

53128 1999 AS_{25} 4 2.2 284.°44 4.°0/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.21	+ 4 7.6	2.087	2.966	10.6	18.3
3 12	13 0.66	+ 5 23.9	2.018	2.958	7.5	18.1
3 22	12 54.53	+ 6 43.0	1.975	2.951	4.8	17.9
4 1	12 47.47	+ 7 57.8	1.961	2.944	4.2	17.9
4 11	12 40.29	+ 9 1.4	1.974	2.937	6.6	18.0
4 21	12 33.80	+ 9 48.7	2.014	2.930	9.8	18.2
5 1	12 28.69	+10 16.6	2.078	2.922	12.8	18.4
5 11	12 25.43	+10 24.5	2.161	2.915	15.4	18.5

237939 2002 QG_{93} 4 2.2 213.°63 1.°4/ 3.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.83	−10 16.6	2.279	3.116	11.4	21.4
3 12	13 3.88	−10 15.1	2.196	3.113	8.4	21.2
3 22	12 56.28	−10 2.8	2.137	3.108	5.0	20.9
4 1	12 47.67	− 9 41.6	2.108	3.104	1.7	20.7
4 11	12 38.89	− 9 15.2	2.107	3.099	3.2	20.8
4 21	12 30.77	− 8 47.7	2.136	3.094	6.7	21.0
5 1	12 24.03	− 8 23.5	2.190	3.089	10.1	21.2
5 11	12 19.19	− 8 6.3	2.268	3.084	12.9	21.4

398668 2012 UB_{173} 4 2.2 136.°76 2.°5/30.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.81	+ 3 27.7	2.856	3.717	8.6	21.4
3 12	13 2.72	+ 3 57.0	2.797	3.730	6.1	21.3
3 22	12 55.46	+ 4 26.9	2.766	3.742	3.5	21.1
4 1	12 47.57	+ 4 53.7	2.765	3.754	2.5	21.1
4 11	12 39.71	+ 5 14.1	2.794	3.765	4.4	21.2
4 21	12 32.46	+ 5 25.4	2.853	3.776	6.9	21.4
5 1	12 26.35	+ 5 26.2	2.938	3.786	9.3	21.6
5 11	12 21.73	+ 5 15.8	3.045	3.796	11.4	21.7

122243 2000 OG_{18} 4 2.2 281.°27 5.°4/28.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.58	+ 3 43.6	1.423	2.311	13.9	19.2
3 12	13 3.77	+ 5 14.3	1.349	2.294	10.0	18.9
3 22	12 56.53	+ 6 51.5	1.300	2.278	6.4	18.6
4 1	12 47.72	+ 8 24.5	1.276	2.261	5.7	18.6
4 11	12 38.59	+ 9 42.0	1.278	2.244	9.0	18.7
4 21	12 30.40	+10 35.5	1.304	2.227	13.4	18.9
5 1	12 24.26	+11 0.5	1.350	2.210	17.5	19.1
5 11	12 20.85	+10 56.9	1.414	2.193	21.0	19.3

95777 2003 EW_{58} 4 2.2 336.°24 3.°1/ 5.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.12	−17 3.5	1.524	2.366	15.8	19.1
3 12	13 0.47	−16 14.5	1.445	2.359	12.1	18.9
3 22	12 54.65	−14 58.7	1.386	2.352	7.8	18.6
4 1	12 47.50	−13 20.1	1.353	2.345	3.8	18.4
4 11	12 40.15	−11 27.2	1.346	2.340	4.3	18.4
4 21	12 33.71	− 9 31.1	1.366	2.334	8.6	18.6
5 1	12 29.14	− 7 43.2	1.409	2.330	13.0	18.8
5 11	12 27.03	− 6 12.3	1.474	2.325	16.9	19.1

370776 2004 RW_{335} 4 2.2 107.°29 1.°5/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.23	−12 29.6	2.123	2.958	12.2	21.2
3 12	13 2.67	−11 52.3	2.061	2.976	9.0	21.0
3 22	12 55.55	−11 0.6	2.024	2.994	5.3	20.8
4 1	12 47.59	− 9 58.3	2.015	3.011	1.9	20.6
4 11	12 39.65	− 8 51.2	2.035	3.028	3.2	20.8
4 21	12 32.55	− 7 45.4	2.084	3.044	6.8	21.0
5 1	12 26.94	− 6 46.6	2.159	3.060	10.1	21.3
5 11	12 23.23	− 5 59.1	2.257	3.075	12.9	21.5

376710 1995 SR_{63} 4 2.2 62.°46 0.°3/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.48	− 9 12.0	1.765	2.623	13.2	20.9
3 12	13 1.73	− 8 21.1	1.700	2.630	9.5	20.7
3 22	12 55.16	− 7 15.5	1.659	2.637	5.2	20.4
4 1	12 47.55	− 6 0.6	1.645	2.644	0.8	20.1
4 11	12 39.90	− 4 44.0	1.660	2.652	3.9	20.4
4 21	12 33.14	− 3 33.0	1.701	2.659	8.2	20.6
5 1	12 28.04	− 2 34.2	1.767	2.667	12.0	20.9
5 11	12 25.09	− 1 51.7	1.854	2.674	15.2	21.1

371255 2006 BQ_{198} 4 2.2 105.°99 1.°6/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.95	−11 32.0	2.123	2.957	12.3	21.8
3 12	13 4.58	−11 21.1	2.062	2.977	9.0	21.6
3 22	12 56.58	−10 57.5	2.027	2.996	5.4	21.5
4 1	12 47.70	−10 23.9	2.019	3.015	2.0	21.3
4 11	12 38.85	− 9 44.8	2.041	3.033	3.3	21.4
4 21	12 30.87	− 9 5.2	2.092	3.051	6.8	21.6
5 1	12 24.45	− 8 30.0	2.169	3.068	10.1	21.9
5 11	12 20.03	− 8 3.2	2.268	3.085	12.9	22.1

327857 2006 XF_{65} 4 2.2 86.°17 9.°8/23.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.56	+18 57.3	1.654	2.527	13.2	20.2
3 12	13 4.70	+20 29.8	1.616	2.531	10.9	20.0
3 22	12 56.77	+21 48.4	1.601	2.536	9.8	20.0
4 1	12 47.73	+22 43.4	1.611	2.540	10.4	20.0
4 11	12 38.76	+23 8.4	1.645	2.545	12.4	20.1
4 21	12 30.92	+23 1.8	1.701	2.550	14.9	20.3
5 1	12 25.07	+22 25.6	1.777	2.554	17.3	20.5
5 11	12 21.65	+21 24.4	1.868	2.558	19.4	20.7

174819 2003 YE_{17} 4 2.2 48.°55 1.°0/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.24	− 4 31.0	1.376	2.252	15.1	19.5
3 12	13 4.71	− 4 0.9	1.323	2.263	10.7	19.3
3 22	12 56.87	− 3 19.8	1.293	2.275	5.7	19.0
4 1	12 47.74	− 2 33.8	1.289	2.287	1.1	18.7
4 11	12 38.64	− 1 50.8	1.310	2.300	5.1	19.0
4 21	12 30.78	− 1 17.4	1.357	2.313	10.0	19.3
5 1	12 25.08	− 0 58.6	1.426	2.326	14.3	19.6
5 11	12 22.06	− 0 56.7	1.514	2.339	17.8	19.9

458918 2011 UP_{277} 4 2.2 154°.97 2°.6/ 4.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 11.67	−14 42.2	1.834	2.663	14.1	22.4
3 12	13 5.44	−14 21.0	1.761	2.670	10.6	22.2
3 22	12 57.20	−13 41.4	1.713	2.677	6.7	22.0
4 1	12 47.79	−12 46.3	1.691	2.684	3.1	21.8
4 11	12 38.30	−11 41.4	1.698	2.690	3.9	21.9
4 21	12 29.74	−10 33.8	1.733	2.695	7.7	22.1
5 1	12 22.99	− 9 31.0	1.794	2.699	11.5	22.3
5 11	12 18.57	− 8 38.9	1.876	2.703	14.8	22.6

419904 2011 AW_{74} 4 2.2 111°.89 5°.7/ 7.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.77	−22 34.7	1.951	2.740	14.9	21.5
3 12	13 5.49	−22 51.5	1.881	2.754	12.0	21.3
3 22	12 57.22	−22 46.5	1.834	2.767	8.9	21.1
4 1	12 47.79	−22 19.5	1.812	2.781	6.3	21.0
4 11	12 38.29	−21 34.0	1.818	2.794	5.8	21.0
4 21	12 29.72	−20 36.0	1.851	2.806	7.8	21.1
5 1	12 22.94	−19 32.9	1.909	2.818	10.7	21.3
5 11	12 18.49	−18 32.5	1.991	2.830	13.6	21.5

310361 2011 UE_{281} 4 2.2 122°.25 2°.9/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.56	− 0 8.3	1.686	2.558	13.0	20.6
3 12	13 5.28	+ 0 55.5	1.634	2.573	9.1	20.4
3 22	12 57.05	+ 2 4.9	1.608	2.588	5.0	20.2
4 1	12 47.77	+ 3 12.6	1.608	2.602	3.0	20.1
4 11	12 38.57	+ 4 10.7	1.637	2.615	6.1	20.3
4 21	12 30.44	+ 4 53.6	1.693	2.628	10.0	20.6
5 1	12 24.20	+ 5 17.8	1.772	2.640	13.6	20.8
5 11	12 20.30	+ 5 22.7	1.871	2.652	16.5	21.1

504317 2007 RC_{55} 4 2.2 194°.67 2°.8/ 5.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.57	−15 13.4	2.419	3.235	11.5	21.9
3 12	13 3.66	−15 18.6	2.334	3.234	8.8	21.7
3 22	12 56.16	−15 10.3	2.274	3.232	5.8	21.5
4 1	12 47.69	−14 49.7	2.242	3.229	3.2	21.3
4 11	12 39.05	−14 19.7	2.239	3.227	3.5	21.3
4 21	12 31.05	−13 44.6	2.264	3.224	6.3	21.5
5 1	12 24.37	−13 9.1	2.317	3.221	9.4	21.7
5 11	12 19.52	−12 37.8	2.394	3.217	12.1	21.9

436375 2010 OA_{77} 4 2.2 181°.12 4°.6/28.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.01	+ 9 38.6	2.384	3.252	9.9	21.4
3 12	13 3.83	+10 16.0	2.321	3.252	7.3	21.2
3 22	12 56.17	+10 49.8	2.286	3.252	5.1	21.1
4 1	12 47.69	+11 15.0	2.279	3.252	4.8	21.1
4 11	12 39.19	+11 27.5	2.301	3.252	6.6	21.2
4 21	12 31.41	+11 24.8	2.351	3.251	9.2	21.3
5 1	12 25.01	+11 6.2	2.424	3.251	11.8	21.5
5 11	12 20.39	+10 32.6	2.519	3.250	14.0	21.7

294628 2008 AP_{42} 4 2.2 62°.58 4°.2/28.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.17	+ 5 40.2	2.202	3.080	10.1	20.2
3 12	13 0.50	+ 6 51.5	2.146	3.085	7.2	20.0
3 22	12 54.40	+ 8 3.0	2.117	3.090	4.8	19.9
4 1	12 47.50	+ 9 8.3	2.115	3.095	4.4	19.9
4 11	12 40.58	+10 1.4	2.142	3.100	6.5	20.0
4 21	12 34.37	+10 38.4	2.196	3.106	9.4	20.2
5 1	12 29.49	+10 56.9	2.273	3.111	12.1	20.4
5 11	12 26.34	+10 57.1	2.370	3.116	14.4	20.6

424163 2007 HX_{21} 4 2.2 264°.49 4°.2/29.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.57	+ 6 21.6	2.084	2.954	11.0	21.3
3 12	13 5.30	+ 7 0.2	1.999	2.934	8.0	21.1
3 22	12 57.15	+ 7 38.6	1.940	2.913	5.2	20.9
4 1	12 47.82	+ 8 11.0	1.909	2.892	4.4	20.8
4 11	12 38.23	+ 8 31.8	1.907	2.871	6.7	20.9
4 21	12 29.33	+ 8 37.2	1.932	2.849	10.1	21.1
5 1	12 21.93	+ 8 25.3	1.982	2.827	13.3	21.2
5 11	12 16.63	+ 7 56.2	2.051	2.805	16.1	21.4

249079 2007 VU_{2} 4 2.2 134°.51 3°.1/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.61	+ 1 15.3	1.632	2.506	13.3	20.6
3 12	13 6.17	+ 1 55.0	1.573	2.512	9.4	20.4
3 22	12 57.62	+ 2 38.7	1.538	2.518	5.3	20.2
4 1	12 47.87	+ 3 20.0	1.531	2.524	3.2	20.1
4 11	12 38.09	+ 3 52.1	1.551	2.530	6.2	20.2
4 21	12 29.40	+ 4 10.1	1.597	2.535	10.3	20.5
5 1	12 22.66	+ 4 11.3	1.667	2.540	14.0	20.7
5 11	12 18.41	+ 3 55.2	1.756	2.544	17.2	21.0

408740 2014 OL_{109} 4 2.2 221°.67 1°.0/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.71	− 9 29.4	1.756	2.603	13.8	23.1
3 12	13 6.40	− 9 10.2	1.671	2.595	10.1	22.8
3 22	12 57.87	− 8 36.4	1.611	2.585	5.8	22.6
4 1	12 47.92	− 7 51.4	1.577	2.575	1.4	22.2
4 11	12 37.68	− 7 0.9	1.572	2.564	4.0	22.4
4 21	12 28.27	− 6 11.7	1.594	2.553	8.6	22.6
5 1	12 20.70	− 5 30.1	1.642	2.540	12.8	22.9
5 11	12 15.60	− 5 1.1	1.710	2.528	16.4	23.1

255620 2006 PV_{22} 4 2.2 209°.76 0°.1/ 2.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 10.27	− 7 50.0	2.034	2.884	12.1	22.1
3 12	13 4.36	− 7 13.7	1.951	2.878	8.7	21.8
3 22	12 56.63	− 6 25.5	1.894	2.871	4.8	21.6
4 1	12 47.77	− 5 29.2	1.864	2.863	0.6	21.2
4 11	12 38.73	− 4 30.7	1.864	2.855	3.7	21.5
4 21	12 30.43	− 3 36.0	1.892	2.846	7.8	21.7
5 1	12 23.66	− 2 50.8	1.946	2.836	11.5	21.9
5 11	12 18.98	− 2 18.7	2.022	2.826	14.7	22.1

503738 2016 LJ_{25} 4 2.2 157°.39 0°.1/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.80	− 7 44.1	1.985	2.842	12.0	21.4
3 12	13 1.85	− 6 55.3	1.913	2.844	8.6	21.2
3 22	12 55.22	− 5 54.3	1.867	2.845	4.7	20.9
4 1	12 47.61	− 4 46.0	1.848	2.847	0.5	20.6
4 11	12 39.92	− 3 36.8	1.857	2.848	3.8	20.9
4 21	12 32.99	− 2 33.3	1.895	2.849	7.8	21.1
5 1	12 27.56	− 1 41.0	1.957	2.850	11.4	21.3
5 11	12 24.11	− 1 3.5	2.042	2.851	14.4	21.5

283883 2003 YM_{180} 4 2.2 51°.89 5°.4/ 7.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.52	−22 13.3	2.041	2.835	14.2	20.3
3 12	13 3.20	−22 30.1	1.964	2.839	11.5	20.1
3 22	12 56.02	−22 26.4	1.909	2.843	8.5	20.0
4 1	12 47.72	−22 2.1	1.879	2.848	6.1	19.8
4 11	12 39.25	−21 20.3	1.876	2.852	5.6	19.8
4 21	12 31.58	−20 26.3	1.900	2.857	7.6	19.9
5 1	12 25.51	−19 27.0	1.950	2.862	10.4	20.1
5 11	12 21.59	−18 29.6	2.022	2.867	13.2	20.3

466760 2015 AE_{138} 4 2.2 106°.48 4°.0/29.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.42	+ 3 36.9	1.819	2.697	11.9	21.1
3 12	13 3.05	+ 4 40.1	1.761	2.702	8.4	20.9
3 22	12 55.88	+ 5 45.3	1.729	2.706	5.1	20.7
4 1	12 47.70	+ 6 45.6	1.724	2.711	4.2	20.6
4 11	12 39.49	+ 7 33.8	1.746	2.715	6.8	20.8
4 21	12 32.18	+ 8 5.2	1.795	2.719	10.3	21.0
5 1	12 26.53	+ 8 17.2	1.867	2.723	13.5	21.2
5 11	12 23.02	+ 8 9.7	1.958	2.728	16.3	21.4

522700 2016 LP_{59} 4 2.2 284°.28 0°.7/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.36	−11 19.1	1.876	2.726	12.9	21.5
3 12	13 1.06	−10 18.3	1.786	2.711	9.5	21.3
3 22	12 54.92	− 8 59.1	1.720	2.696	5.4	21.0
4 1	12 47.60	− 7 26.3	1.682	2.680	1.2	20.6
4 11	12 40.06	− 5 47.5	1.672	2.665	3.7	20.8
4 21	12 33.20	− 4 11.3	1.690	2.650	8.1	21.0
5 1	12 27.88	− 2 45.9	1.733	2.634	12.1	21.2
5 11	12 24.66	− 1 37.1	1.798	2.619	15.6	21.4

286592 2002 CV_{270} 4 2.2 125°.58 2°.1/30.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.07	+ 0 39.6	2.695	3.560	9.0	21.6
3 12	13 0.90	+ 1 28.1	2.637	3.573	6.2	21.5
3 22	12 54.54	+ 2 19.5	2.606	3.585	3.5	21.3
4 1	12 47.55	+ 3 9.5	2.604	3.597	2.2	21.2
4 11	12 40.57	+ 3 53.8	2.632	3.608	4.2	21.4
4 21	12 34.19	+ 4 28.7	2.689	3.619	7.0	21.6
5 1	12 28.94	+ 4 51.9	2.772	3.630	9.6	21.7
5 11	12 25.17	+ 5 2.3	2.877	3.641	11.7	21.9

503584 2016 GY_{54} 4 2.2 219°.06 0°.5/ 1.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.05	− 5 27.9	1.785	2.647	12.9	21.5
3 12	13 4.37	− 4 59.2	1.711	2.644	9.2	21.3
3 22	12 56.69	− 4 20.2	1.662	2.641	5.0	21.0
4 1	12 47.81	− 3 35.2	1.639	2.638	0.6	20.7
4 11	12 38.77	− 2 50.5	1.645	2.635	4.3	21.0
4 21	12 30.58	− 2 12.0	1.677	2.631	8.7	21.2
5 1	12 24.13	− 1 44.7	1.735	2.627	12.6	21.4
5 11	12 19.96	− 1 31.6	1.813	2.623	15.9	21.6

371165 2005 YO_{26} 4 2.2 114°.10 1°.9/31.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.82	− 1 23.1	2.040	2.905	11.4	21.8
3 12	13 3.82	− 0 36.9	1.986	2.922	7.9	21.6
3 22	12 56.21	+ 0 14.8	1.957	2.937	4.3	21.4
4 1	12 47.74	+ 1 6.5	1.957	2.953	2.0	21.2
4 11	12 39.33	+ 1 52.4	1.986	2.968	4.7	21.5
4 21	12 31.79	+ 2 28.0	2.043	2.982	8.3	21.7
5 1	12 25.80	+ 2 50.0	2.124	2.996	11.5	21.9
5 11	12 21.79	+ 2 57.1	2.228	3.010	14.2	22.1

299244 2005 MY_{28} 4 2.2 225°.37 3°.4/ 6.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.10	−18 52.0	2.516	3.319	11.5	21.0
3 12	13 1.21	−18 38.8	2.426	3.314	9.0	20.8
3 22	12 54.85	−18 9.3	2.361	3.309	6.3	20.6
4 1	12 47.61	−17 25.0	2.322	3.303	3.9	20.5
4 11	12 40.22	−16 29.2	2.312	3.298	3.8	20.5
4 21	12 33.41	−15 26.8	2.331	3.292	6.1	20.6
5 1	12 27.83	−14 23.6	2.377	3.286	8.9	20.8
5 11	12 23.93	−13 25.0	2.447	3.280	11.6	20.9

141448 2002 CF_{61} 4 2.3 329°.99 5°.1/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 6.93	+10 17.2	2.302	3.176	9.9	19.8
3 12	13 1.75	+11 12.1	2.243	3.175	7.4	19.6
3 22	12 55.11	+12 3.5	2.210	3.174	5.5	19.5
4 1	12 47.65	+12 45.4	2.205	3.173	5.4	19.5
4 11	12 40.16	+13 13.0	2.228	3.172	7.3	19.6
4 21	12 33.37	+13 23.4	2.277	3.171	9.8	19.7
5 1	12 27.90	+13 15.7	2.350	3.171	12.3	19.9
5 11	12 24.18	+12 50.6	2.442	3.170	14.5	20.1

17571 1994 PV 4 2.3 233°.07 1°.7/31.0 18

3 2	13 5.45	− 1 21.6	2.645	3.508	9.2	18.8
3 12	13 0.62	− 0 31.2	2.563	3.498	6.4	18.6
3 22	12 54.49	+ 0 24.7	2.508	3.489	3.5	18.3
4 1	12 47.59	+ 1 21.8	2.483	3.478	1.7	18.2
4 11	12 40.57	+ 2 15.0	2.487	3.468	4.1	18.3
4 21	12 34.06	+ 3 0.3	2.521	3.457	7.1	18.5
5 1	12 28.65	+ 3 34.2	2.580	3.446	9.9	18.7
5 11	12 24.76	+ 3 54.8	2.662	3.434	12.4	18.8

357096 2001 TR_{18} 4 2.3 86°.42 2°.9/31.1 16

3 2	13 14.97	− 0 19.1	1.436	2.310	14.8	21.7
3 12	13 7.79	+ 0 30.8	1.398	2.338	10.3	21.5
3 22	12 58.43	+ 1 26.1	1.384	2.365	5.6	21.3
4 1	12 48.02	+ 2 18.9	1.397	2.392	2.9	21.2
4 11	12 37.87	+ 3 1.6	1.437	2.418	6.2	21.5
4 21	12 29.15	+ 3 28.9	1.503	2.444	10.5	21.8
5 1	12 22.69	+ 3 38.0	1.592	2.469	14.4	22.1
5 11	12 18.90	+ 3 28.9	1.700	2.493	17.4	22.4

246116 2007 HS_{44} 4 2.3 114°.49 1°.2/ 3.6 18

3 2	13 7.02	−12 25.3	1.956	2.798	12.8	20.5
3 12	13 2.01	−11 28.6	1.889	2.808	9.4	20.3
3 22	12 55.31	−10 15.3	1.846	2.818	5.5	20.1
4 1	12 47.68	− 8 50.3	1.831	2.828	1.6	19.9
4 11	12 40.03	− 7 20.8	1.844	2.837	3.4	20.0
4 21	12 33.21	− 5 54.4	1.887	2.847	7.3	20.3
5 1	12 27.95	− 4 38.0	1.955	2.856	11.0	20.5
5 11	12 24.68	− 3 36.6	2.045	2.864	14.0	20.7

331008 2009 UO_{88} 4 2.3 157°.05 4°.1/29.1 17

3 2	13 10.38	+ 5 58.1	2.106	2.977	10.8	20.6
3 12	13 4.25	+ 6 48.1	2.047	2.983	7.8	20.4
3 22	12 56.49	+ 7 37.6	2.014	2.987	5.0	20.2
4 1	12 47.81	+ 8 20.5	2.009	2.992	4.3	20.2
4 11	12 39.13	+ 8 51.6	2.034	2.996	6.5	20.3
4 21	12 31.27	+ 9 7.3	2.085	2.999	9.5	20.5
5 1	12 24.93	+ 9 6.0	2.160	3.002	12.5	20.7
5 11	12 20.56	+ 8 48.0	2.255	3.005	14.9	20.9

89129 2001 UH_9 4 2.3 256°.50 1°.8/31.6 18

3 2	13 8.82	− 2 38.2	1.775	2.645	12.6	19.9
3 12	13 3.53	− 1 53.0	1.700	2.638	8.9	19.7
3 22	12 56.27	− 0 59.0	1.650	2.631	4.8	19.4
4 1	12 47.80	− 0 2.1	1.627	2.624	1.8	19.2
4 11	12 39.16	+ 0 50.8	1.631	2.616	5.1	19.4
4 21	12 31.34	+ 1 33.4	1.663	2.609	9.3	19.6
5 1	12 25.21	+ 2 1.1	1.718	2.601	13.2	19.8
5 11	12 21.32	+ 2 11.5	1.794	2.594	16.4	20.0

503268 2015 OA_2 4 2.3 260°.24 17°.3/14.4 18

3 2	13 16.91	−39 16.5	1.273	1.992	24.8	21.1
3 12	13 11.20	−41 19.3	1.199	1.986	22.7	20.9
3 22	13 1.38	−42 44.4	1.138	1.980	20.4	20.7
4 1	12 48.44	−43 19.9	1.094	1.974	18.5	20.5
4 11	12 34.41	−42 59.8	1.067	1.968	17.4	20.4
4 21	12 21.67	−41 47.0	1.059	1.962	17.7	20.4
5 1	12 12.31	−39 54.0	1.070	1.956	19.1	20.5
5 11	12 7.52	−37 39.5	1.098	1.949	21.4	20.6

342974 2009 BW_{25} 4 2.3 325°.40 2°.0/ 4.1 17

3 2	13 7.89	−11 44.0	1.930	2.774	12.9	20.7
3 12	13 2.81	−11 42.0	1.849	2.767	9.6	20.5
3 22	12 55.86	−11 26.1	1.791	2.761	5.9	20.2
4 1	12 47.76	−10 58.5	1.759	2.754	2.4	20.0
4 11	12 39.44	−10 23.3	1.756	2.748	3.6	20.1
4 21	12 31.86	− 9 46.0	1.779	2.743	7.4	20.3
5 1	12 25.84	− 9 12.1	1.828	2.737	11.2	20.5
5 11	12 21.94	− 8 46.4	1.899	2.732	14.4	20.7

13130 Dylanthomas 4 2.3 314°.31 1°.8/31.7 18

3 2	13 5.14	− 5 16.6	1.370	2.252	14.8	17.1
3 12	13 1.44	− 4 2.6	1.291	2.234	10.5	16.8
3 22	12 55.35	− 2 31.0	1.234	2.217	5.6	16.4
4 1	12 47.72	− 0 49.9	1.203	2.201	1.8	16.1
4 11	12 39.74	+ 0 49.3	1.197	2.184	6.1	16.4
4 21	12 32.67	+ 2 15.6	1.216	2.169	11.3	16.6
5 1	12 27.60	+ 3 20.3	1.257	2.153	16.0	16.8
5 11	12 25.21	+ 3 59.0	1.315	2.139	20.1	17.0

382614 2002 NN_{70} 4 2.3 173°.36 5°.6/ 9.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.65	−26 17.0	2.554	3.309	12.7	21.4
3 12	13 3.05	−26 22.7	2.467	3.312	10.5	21.2
3 22	12 55.88	−26 8.7	2.402	3.314	8.2	21.1
4 1	12 47.76	−25 34.6	2.364	3.315	6.2	21.0
4 11	12 39.50	−24 43.1	2.353	3.317	5.6	20.9
4 21	12 31.89	−23 38.7	2.370	3.317	6.8	21.0
5 1	12 25.62	−22 27.5	2.414	3.318	9.0	21.1
5 11	12 21.18	−21 16.1	2.483	3.318	11.4	21.3

244808 2003 SP_{286} 4 2.3 284°.41 5°.4/ 6.4 17

3 2	13 10.29	−19 41.6	1.593	2.412	16.4	20.6
3 12	13 5.24	−19 48.9	1.489	2.384	13.1	20.3
3 22	12 57.56	−19 31.6	1.405	2.356	9.4	20.0
4 1	12 48.00	−18 48.5	1.346	2.327	6.1	19.8
4 11	12 37.76	−17 43.0	1.313	2.299	5.9	19.7
4 21	12 28.19	−16 22.1	1.305	2.269	9.4	19.8
5 1	12 20.57	−14 56.3	1.321	2.240	13.8	19.9
5 11	12 15.78	−13 36.2	1.358	2.210	18.0	20.1

206726 2004 BX_{73} 4 2.3 91°.91 2°.5/30.4 18

3 2	13 7.55	+ 0 13.7	2.230	3.098	10.4	21.1
3 12	13 2.08	+ 1 16.2	2.184	3.121	7.2	20.9
3 22	12 55.23	+ 2 22.2	2.164	3.144	4.0	20.7
4 1	12 47.68	+ 3 26.1	2.174	3.167	2.5	20.7
4 11	12 40.22	+ 4 22.2	2.213	3.189	4.9	20.9
4 21	12 33.56	+ 5 6.1	2.280	3.210	8.0	21.1
5 1	12 28.28	+ 5 35.1	2.372	3.232	10.9	21.3
5 11	12 24.75	+ 5 48.4	2.485	3.253	13.3	21.5

333745 2010 AP_{41} 4 2.3 160°.69 3°.3/29.7 17

3 2	13 7.56	+ 2 19.8	2.102	2.975	10.8	20.8
3 12	13 2.29	+ 3 23.2	2.040	2.978	7.6	20.6
3 22	12 55.45	+ 4 29.8	2.003	2.981	4.5	20.4
4 1	12 47.72	+ 5 33.4	1.995	2.984	3.4	20.3
4 11	12 39.94	+ 6 27.6	2.016	2.986	5.8	20.5
4 21	12 32.91	+ 7 7.7	2.063	2.988	9.1	20.7
5 1	12 27.31	+ 7 31.0	2.135	2.990	12.1	20.9
5 11	12 23.60	+ 7 36.5	2.228	2.991	14.7	21.0

1360 Tarka 4 2.3 321°.63 13°.8/ 8.8 18 R

3 2	13 17.47	−32 27.6	1.574	2.314	19.9	15.3
3 12	13 11.12	−34 48.8	1.480	2.293	17.9	15.1
3 22	13 1.22	−36 47.2	1.405	2.272	15.8	14.9
4 1	12 48.46	−38 12.7	1.352	2.253	14.3	14.7
4 11	12 34.33	−38 58.8	1.321	2.233	13.9	14.6
4 21	12 20.72	−39 5.3	1.312	2.215	14.9	14.6
5 1	12 9.52	−38 38.6	1.324	2.197	16.9	14.7
5 11	12 2.06	−37 51.1	1.354	2.181	19.4	14.8

341194 2007 RT_{63} 4 2.3 225°.77 3°.1/29.3 17

3 2	13 5.71	+ 1 24.3	2.320	3.191	9.9	21.4
3 12	13 0.95	+ 2 47.7	2.245	3.184	7.0	21.2
3 22	12 54.73	+ 4 16.3	2.197	3.175	4.1	21.0
4 1	12 47.64	+ 5 43.7	2.179	3.167	3.2	20.9
4 11	12 40.44	+ 7 2.9	2.190	3.158	5.6	21.1
4 21	12 33.83	+ 8 8.5	2.229	3.149	8.8	21.2
5 1	12 28.48	+ 8 56.6	2.293	3.139	11.7	21.4
5 11	12 24.82	+ 9 25.9	2.378	3.129	14.2	21.6

258704 2002 GP_{55} 4 2.3 334°.05 2°.3/ 3.6 17

3 2	13 8.54	− 9 31.4	1.117	1.995	17.8	20.2
3 12	13 4.43	− 9 52.3	1.040	1.977	13.3	19.8
3 22	12 57.26	− 9 56.2	0.983	1.961	8.0	19.5
4 1	12 47.97	− 9 44.8	0.949	1.946	2.8	19.1
4 11	12 38.09	− 9 23.4	0.937	1.932	5.2	19.2
4 21	12 29.29	− 8 59.5	0.948	1.919	11.0	19.5
5 1	12 23.03	− 8 41.3	0.980	1.908	16.5	19.7
5 11	12 20.18	− 8 35.6	1.028	1.898	21.2	20.0

269978 2000 TK_{23} 4 2.3 113°.85 0°.3/ 1.9 18

3 2	13 8.65	− 6 55.7	2.114	2.967	11.6	21.6
3 12	13 2.99	− 6 6.1	2.056	2.984	8.2	21.4
3 22	12 55.79	− 5 6.3	2.023	3.002	4.4	21.2
4 1	12 47.77	− 4 1.4	2.019	3.018	0.5	20.9
4 11	12 39.78	− 2 57.4	2.045	3.034	3.6	21.2
4 21	12 32.62	− 2 0.0	2.099	3.050	7.3	21.5
5 1	12 26.94	− 1 13.6	2.179	3.065	10.6	21.7
5 11	12 23.16	− 0 41.3	2.281	3.080	13.4	21.9

343588 2010 GE_{27} 4 2.3 79°.93 2°.4/30.4 18

3 2	13 5.39	− 1 3.7	2.069	2.942	10.9	20.2
3 12	13 0.76	+ 0 9.6	2.010	2.950	7.6	20.0
3 22	12 54.62	+ 1 29.0	1.977	2.958	4.2	19.8
4 1	12 47.64	+ 2 48.2	1.973	2.967	2.5	19.7
4 11	12 40.64	+ 4 0.0	1.997	2.975	5.2	19.9
4 21	12 34.40	+ 4 59.0	2.049	2.983	8.6	20.1
5 1	12 29.56	+ 5 41.4	2.125	2.991	11.7	20.3
5 11	12 26.53	+ 6 5.6	2.222	3.000	14.3	20.5

249030 2007 SJ_{14} 4 2.3 56°.95 4°.8/29.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 15.47	+ 9 43.8	2.024	2.889	11.5	19.7
3 12	13 7.85	+ 9 51.7	1.967	2.897	8.4	19.6
3 22	12 58.43	+ 9 54.2	1.937	2.905	5.7	19.4
4 1	12 48.07	+ 9 46.6	1.935	2.913	4.9	19.4
4 11	12 37.78	+ 9 25.6	1.962	2.922	6.9	19.5
4 21	12 28.50	+ 8 50.1	2.016	2.930	9.9	19.7
5 1	12 20.97	+ 8 0.3	2.096	2.939	12.8	19.9
5 11	12 15.64	+ 6 58.1	2.197	2.948	15.3	20.1

272921 2006 BR_{193} 4 2.3 206°.64 2°.7/30.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.00	+ 0 0.8	2.088	2.960	10.9	20.6
3 12	13 1.97	+ 1 9.8	2.018	2.957	7.6	20.4
3 22	12 55.32	+ 2 24.8	1.973	2.953	4.3	20.2
4 1	12 47.73	+ 3 39.4	1.958	2.950	2.8	20.1
4 11	12 40.03	+ 4 46.8	1.971	2.946	5.5	20.3
4 21	12 33.05	+ 5 41.2	2.011	2.942	8.9	20.5
5 1	12 27.48	+ 6 19.0	2.076	2.938	12.2	20.7
5 11	12 23.81	+ 6 38.4	2.162	2.933	14.9	20.8

172500 2003 SH_{171} 4 2.3 185°.83 1°.6/31.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.81	− 2 20.2	1.872	2.734	12.4	20.7
3 12	13 6.24	− 1 49.4	1.800	2.734	8.8	20.5
3 22	12 57.71	− 1 11.5	1.753	2.734	4.7	20.2
4 1	12 48.00	− 0 31.5	1.735	2.733	1.6	20.0
4 11	12 38.18	+ 0 4.7	1.745	2.731	4.8	20.2
4 21	12 29.23	+ 0 32.2	1.784	2.729	8.9	20.4
5 1	12 22.02	+ 0 47.1	1.847	2.726	12.6	20.7
5 11	12 17.09	+ 0 47.5	1.931	2.723	15.7	20.9

9379 Dijon 4 2.3 150°.02 0°.4/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.86	− 8 35.1	2.199	3.047	11.4	18.2
3 12	13 2.50	− 8 5.2	2.127	3.052	8.2	18.0
3 22	12 55.58	− 7 24.2	2.080	3.056	4.6	17.8
4 1	12 47.76	− 6 36.0	2.061	3.060	0.8	17.5
4 11	12 39.86	− 5 45.4	2.072	3.064	3.2	17.7
4 21	12 32.68	− 4 57.7	2.110	3.067	6.9	18.0
5 1	12 26.90	− 4 17.6	2.175	3.070	10.3	18.2
5 11	12 22.96	− 3 48.6	2.263	3.073	13.1	18.4

390826 2004 OB_{11} 4 2.3 300°.03 6°.7/ 7.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.99	−24 12.2	2.257	3.027	13.7	20.1
3 12	13 5.94	−25 7.5	2.145	2.999	11.5	19.8
3 22	12 57.76	−25 45.8	2.056	2.972	9.1	19.6
4 1	12 48.04	−26 4.4	1.992	2.944	7.2	19.5
4 11	12 37.72	−26 2.9	1.956	2.917	6.8	19.4
4 21	12 27.83	−25 44.0	1.947	2.889	8.4	19.4
5 1	12 19.36	−25 12.6	1.964	2.862	11.1	19.5
5 11	12 13.09	−24 35.7	2.003	2.834	13.8	19.7

223295 2003 JS_{3} 4 2.3 272°.80 1°.2/ 1.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.11	− 3 46.0	1.788	2.655	12.6	20.7
3 12	13 3.71	− 3 12.9	1.716	2.652	8.9	20.5
3 22	12 56.36	− 2 31.0	1.669	2.650	4.8	20.2
4 1	12 47.85	− 1 45.2	1.649	2.648	1.2	20.0
4 11	12 39.21	− 1 1.8	1.657	2.645	4.6	20.2
4 21	12 31.42	− 0 26.5	1.692	2.643	8.8	20.5
5 1	12 25.32	− 0 3.9	1.751	2.640	12.7	20.7
5 11	12 21.46	+ 0 3.6	1.831	2.638	15.9	20.9

386223 2007 XY_{44} 4 2.3 127°.22 2°.3/ 4.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.50	−14 47.8	2.303	3.129	11.7	21.2
3 12	13 1.54	−14 28.6	2.226	3.132	8.8	21.0
3 22	12 55.06	−13 54.8	2.172	3.135	5.7	20.8
4 1	12 47.71	−13 8.5	2.147	3.138	2.8	20.6
4 11	12 40.26	−12 14.2	2.150	3.141	3.3	20.7
4 21	12 33.47	−11 17.0	2.182	3.144	6.3	20.9
5 1	12 28.02	−10 22.7	2.240	3.147	9.5	21.1
5 11	12 24.34	− 9 35.9	2.322	3.150	12.3	21.3

503344 2016 BM_{44} 4 2.3 340°.39 0°.7/ 1.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.70	− 6 2.9	1.214	2.098	16.2	20.7
3 12	13 2.73	− 5 25.8	1.145	2.089	11.6	20.4
3 22	12 56.13	− 4 32.5	1.098	2.080	6.3	20.1
4 1	12 47.85	− 3 29.6	1.074	2.073	0.9	19.7
4 11	12 39.29	− 2 26.7	1.074	2.066	5.5	20.0
4 21	12 31.85	− 1 33.3	1.098	2.060	11.1	20.3
5 1	12 26.67	− 0 57.1	1.144	2.056	16.1	20.5
5 11	12 24.44	− 0 42.1	1.207	2.052	20.2	20.8

117937 5036 P–L 4 2.3 193°.39 1°.6/ 4.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.51	−12 39.5	2.374	3.202	11.4	21.0
3 12	13 3.66	−12 12.9	2.289	3.199	8.4	20.8
3 22	12 56.23	−11 32.8	2.229	3.196	5.1	20.6
4 1	12 47.85	−10 41.8	2.198	3.193	2.0	20.4
4 11	12 39.34	− 9 44.5	2.196	3.188	3.1	20.4
4 21	12 31.47	− 8 46.1	2.224	3.183	6.5	20.6
5 1	12 24.93	− 7 52.0	2.280	3.177	9.8	20.8
5 11	12 20.22	− 7 6.7	2.358	3.171	12.6	21.0

341243 2007 RJ_{179} 4 2.3 111°.02 2°.1/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.63	+ 0 40.8	2.494	3.357	9.7	20.8
3 12	13 2.77	+ 1 16.5	2.440	3.375	6.7	20.7
3 22	12 55.61	+ 1 54.9	2.412	3.392	3.7	20.5
4 1	12 47.77	+ 2 31.9	2.414	3.408	2.1	20.4
4 11	12 39.97	+ 3 3.2	2.446	3.424	4.3	20.6
4 21	12 32.88	+ 3 25.4	2.507	3.440	7.3	20.8
5 1	12 27.07	+ 3 36.4	2.593	3.456	10.0	21.0
5 11	12 22.90	+ 3 35.3	2.702	3.471	12.3	21.2

496942 2001 WJ_{71} 4 2.3 125°.09 1°.8/ 4.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.38	−14 43.3	2.937	3.752	9.7	22.9
3 12	13 1.10	−14 11.9	2.868	3.770	7.3	22.8
3 22	12 54.69	−13 28.7	2.826	3.787	4.6	22.6
4 1	12 47.67	−12 36.1	2.812	3.804	2.1	22.5
4 11	12 40.66	−11 38.0	2.829	3.820	2.6	22.5
4 21	12 34.23	−10 38.7	2.876	3.836	5.1	22.7
5 1	12 28.87	− 9 42.5	2.952	3.851	7.7	22.9
5 11	12 24.94	− 8 53.1	3.052	3.866	10.0	23.1

343104 2009 DV_{64} 4 2.3 29°.79 0°.6/ 2.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.39	− 8 2.6	1.658	2.521	13.7	20.1
3 12	13 2.46	− 7 47.4	1.603	2.535	9.8	19.9
3 22	12 55.64	− 7 19.9	1.572	2.550	5.5	19.7
4 1	12 47.78	− 6 44.2	1.567	2.565	1.0	19.4
4 11	12 39.93	− 6 6.2	1.588	2.581	3.8	19.6
4 21	12 33.07	− 5 31.7	1.636	2.598	8.1	19.9
5 1	12 27.98	− 5 5.8	1.708	2.615	11.9	20.2
5 11	12 25.13	− 4 52.0	1.801	2.633	15.1	20.4

128404 2004 LU_{13} 4 2.3 235°.29 0°.5/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.42	− 6 30.2	2.161	3.015	11.3	20.4
3 12	13 3.05	− 5 42.7	2.073	3.002	8.1	20.1
3 22	12 55.97	− 4 43.9	2.009	2.988	4.4	19.9
4 1	12 47.83	− 3 38.4	1.975	2.974	0.6	19.6
4 11	12 39.48	− 2 32.2	1.970	2.959	3.8	19.8
4 21	12 31.76	− 1 31.2	1.993	2.944	7.7	20.0
5 1	12 25.42	− 0 40.9	2.043	2.928	11.3	20.2
5 11	12 21.01	− 0 4.8	2.114	2.911	14.4	20.4

215041 2009 CA_{60} 4 2.3 332°.46 1°.6/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.02	− 0 14.9	2.112	2.975	11.1	20.1
3 12	13 4.82	− 0 11.5	2.037	2.972	7.9	19.9
3 22	12 56.89	− 0 4.8	1.988	2.968	4.3	19.6
4 1	12 47.94	+ 0 1.7	1.968	2.965	1.6	19.4
4 11	12 38.86	+ 0 4.2	1.977	2.962	4.4	19.6
4 21	12 30.53	− 0 0.3	2.014	2.959	8.0	19.8
5 1	12 23.70	− 0 14.1	2.077	2.957	11.4	20.0
5 11	12 18.88	− 0 38.4	2.161	2.954	14.2	20.2

146110 2000 QH_{152} 4 2.3 146°.63 5°.0/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.95	−24 33.9	2.981	3.732	11.1	19.9
3 12	13 5.21	−25 7.3	2.898	3.742	9.1	19.8
3 22	12 57.02	−25 25.4	2.839	3.750	7.1	19.7
4 1	12 47.96	−25 27.4	2.808	3.758	5.5	19.6
4 11	12 38.74	−25 14.7	2.806	3.766	5.1	19.5
4 21	12 30.08	−24 50.2	2.834	3.774	6.2	19.6
5 1	12 22.63	−24 17.9	2.889	3.781	8.1	19.8
5 11	12 16.85	−23 43.0	2.969	3.787	10.1	19.9

156489 2002 CY_{93} 4 2.3 43°.27 0°.0/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.66	− 6 20.0	1.725	2.587	13.3	19.7
3 12	13 4.12	− 6 1.7	1.658	2.590	9.5	19.5
3 22	12 56.59	− 5 32.6	1.615	2.594	5.2	19.2
4 1	12 47.90	− 4 56.9	1.598	2.597	0.6	18.9
4 11	12 39.12	− 4 20.3	1.610	2.601	4.1	19.2
4 21	12 31.25	− 3 48.5	1.648	2.605	8.5	19.4
5 1	12 25.17	− 3 26.3	1.711	2.610	12.4	19.7
5 11	12 21.38	− 3 17.0	1.794	2.614	15.7	19.9

154334 2002 VW_{101} 4 2.3 96°.07 2°.0/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.36	− 2 22.7	1.771	2.639	12.7	19.8
3 12	13 4.38	− 1 25.5	1.722	2.660	8.8	19.6
3 22	12 56.61	− 0 21.2	1.699	2.680	4.7	19.4
4 1	12 47.90	+ 0 43.6	1.703	2.700	2.0	19.3
4 11	12 39.30	+ 1 41.8	1.736	2.719	5.1	19.5
4 21	12 31.73	+ 2 27.7	1.796	2.738	9.0	19.8
5 1	12 25.92	+ 2 57.6	1.880	2.757	12.5	20.0
5 11	12 22.30	+ 3 10.0	1.985	2.775	15.4	20.3

308470 2005 TG_{10} 4 2.3 218°.02 4°.4/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.54	−22 32.4	2.696	3.475	11.5	20.8
3 12	13 1.51	−22 32.2	2.604	3.470	9.3	20.6
3 22	12 55.06	−22 15.3	2.535	3.465	6.9	20.4
4 1	12 47.74	−21 41.9	2.493	3.460	4.9	20.3
4 11	12 40.26	−20 54.9	2.480	3.455	4.5	20.3
4 21	12 33.33	−19 58.3	2.495	3.450	6.1	20.3
5 1	12 27.58	−18 57.4	2.537	3.444	8.5	20.5
5 11	12 23.46	−17 57.9	2.603	3.439	10.9	20.6

325996 2010 WH_2 4 2.3 270°.60 4°.1/29.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 10.35	+ 3 22.0	1.634	2.513	12.9	20.8
3 12	13 4.75	+ 4 14.0	1.565	2.507	9.2	20.6
3 22	12 57.01	+ 5 9.1	1.521	2.500	5.6	20.3
4 1	12 47.97	+ 5 59.8	1.504	2.493	4.2	20.2
4 11	12 38.77	+ 6 38.7	1.513	2.486	7.1	20.4
4 21	12 30.50	+ 7 0.3	1.548	2.479	11.1	20.6
5 1	12 24.10	+ 7 1.9	1.606	2.472	14.8	20.8
5 11	12 20.14	+ 6 43.3	1.682	2.465	18.0	21.0

380247 2001 UT_{178} 4 2.3 84°.44 5°.4/27.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.87	+10 49.8	2.269	3.142	10.1	20.5
3 12	13 2.32	+11 55.0	2.232	3.162	7.5	20.4
3 22	12 55.40	+12 55.2	2.220	3.182	5.6	20.3
4 1	12 47.77	+13 44.3	2.237	3.201	5.6	20.3
4 11	12 40.25	+14 17.7	2.282	3.221	7.4	20.5
4 21	12 33.54	+14 32.9	2.353	3.240	9.8	20.7
5 1	12 28.21	+14 29.4	2.447	3.259	12.1	20.8
5 11	12 24.64	+14 8.4	2.560	3.277	14.1	21.0

370056 2000 UC_{76} 4 2.3 202°.98 2°.2/31.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.73	+ 1 5.9	2.429	3.288	10.0	21.7
3 12	13 5.16	+ 1 33.2	2.350	3.283	7.1	21.5
3 22	12 57.03	+ 2 3.3	2.299	3.277	4.0	21.2
4 1	12 47.98	+ 2 32.3	2.277	3.271	2.2	21.1
4 11	12 38.81	+ 2 55.8	2.285	3.264	4.6	21.3
4 21	12 30.29	+ 3 10.5	2.323	3.256	7.8	21.4
5 1	12 23.10	+ 3 13.9	2.387	3.248	10.8	21.6
5 11	12 17.72	+ 3 4.9	2.473	3.239	13.4	21.8

122679 2000 RQ_{104} 4 2.3 195°.78 5°.2/ 7.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.67	−22 21.6	2.304	3.084	13.2	20.8
3 12	13 5.39	−22 42.2	2.215	3.081	10.7	20.6
3 22	12 57.28	−22 44.3	2.149	3.079	8.0	20.5
4 1	12 48.03	−22 27.5	2.109	3.075	5.8	20.3
4 11	12 38.52	−21 53.8	2.098	3.072	5.4	20.3
4 21	12 29.69	−21 7.8	2.115	3.067	7.2	20.4
5 1	12 22.35	−20 15.4	2.159	3.062	9.9	20.5
5 11	12 17.06	−19 23.2	2.226	3.057	12.6	20.7

13988 1992 YG_2 4 2.3 162°.35 2°.1/ 4.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.14	−12 43.9	1.681	2.519	14.7	19.4
3 12	13 6.71	−12 25.0	1.609	2.525	11.0	19.1
3 22	12 58.07	−11 48.2	1.561	2.530	6.7	18.9
4 1	12 48.11	−10 56.7	1.539	2.535	2.6	18.6
4 11	12 38.03	− 9 56.6	1.546	2.538	4.0	18.7
4 21	12 28.95	− 8 55.5	1.580	2.541	8.3	19.0
5 1	12 21.84	− 8 0.8	1.639	2.544	12.5	19.2
5 11	12 17.27	− 7 18.1	1.719	2.545	16.0	19.5

417560 2006 UU_{118} 4 2.3 102°.01 2°.7/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 15.43	+ 1 45.8	1.858	2.722	12.4	22.0
3 12	13 7.85	+ 2 10.4	1.810	2.745	8.7	21.8
3 22	12 58.45	+ 2 37.1	1.789	2.767	4.8	21.6
4 1	12 48.14	+ 3 0.8	1.796	2.789	2.7	21.5
4 11	12 37.98	+ 3 16.5	1.832	2.811	5.4	21.7
4 21	12 28.94	+ 3 21.0	1.896	2.832	9.1	22.0
5 1	12 21.77	+ 3 12.4	1.985	2.852	12.4	22.2
5 11	12 16.89	+ 2 50.5	2.095	2.872	15.1	22.4

241126 2007 PG_{31} 4 2.3 220°.53 0°.0/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.47	− 8 13.7	1.727	2.583	13.6	20.9
3 12	13 4.84	− 7 27.8	1.646	2.576	9.8	20.7
3 22	12 57.08	− 6 26.8	1.590	2.568	5.4	20.4
4 1	12 48.01	− 5 15.7	1.560	2.559	0.6	20.0
4 11	12 38.69	− 4 2.0	1.559	2.550	4.2	20.3
4 21	12 30.23	− 2 53.5	1.585	2.540	8.9	20.5
5 1	12 23.55	− 1 57.3	1.636	2.530	13.1	20.7
5 11	12 19.26	− 1 17.7	1.707	2.520	16.6	21.0

279372 2010 AZ_{77} 4 2.3 195°.72 1°.7/31.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.25	− 1 57.6	2.144	3.009	10.9	21.3
3 12	13 2.84	− 1 13.0	2.071	3.007	7.7	21.1
3 22	12 55.82	− 0 21.9	2.025	3.005	4.1	20.9
4 1	12 47.85	+ 0 30.7	2.007	3.003	1.7	20.7
4 11	12 39.79	+ 1 19.1	2.018	3.001	4.5	20.9
4 21	12 32.43	+ 1 58.4	2.057	2.998	8.1	21.1
5 1	12 26.49	+ 2 24.9	2.121	2.996	11.4	21.3
5 11	12 22.43	+ 2 36.7	2.207	2.992	14.2	21.5

377321 2004 JN_{28} 4 2.3 255°.90 8°.3/22.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.40	+18 4.8	2.153	3.018	10.9	21.0
3 12	13 3.86	+19 54.9	2.084	2.995	9.1	20.9
3 22	12 56.48	+21 37.7	2.041	2.971	8.3	20.8
4 1	12 47.94	+23 4.1	2.025	2.947	9.0	20.8
4 11	12 39.14	+24 6.6	2.036	2.922	11.0	20.9
4 21	12 31.00	+24 41.4	2.070	2.897	13.4	21.0
5 1	12 24.34	+24 47.5	2.125	2.870	15.8	21.1
5 11	12 19.73	+24 27.3	2.196	2.843	17.9	21.2

173961 2001 XJ_{34} 4 2.3 157°.68 3°.3/ 6.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.15	−18 23.7	2.736	3.533	10.9	20.4
3 12	13 2.56	−18 25.1	2.654	3.539	8.5	20.2
3 22	12 55.59	−18 12.4	2.597	3.544	5.9	20.1
4 1	12 47.83	−17 46.8	2.568	3.548	3.7	19.9
4 11	12 39.96	−17 10.8	2.569	3.552	3.6	19.9
4 21	12 32.68	−16 28.6	2.598	3.556	5.7	20.1
5 1	12 26.57	−15 44.5	2.655	3.560	8.3	20.3
5 11	12 22.07	−15 3.2	2.737	3.563	10.7	20.4

460057 2014 OP_{203} 4 2.3 123°.47 0°.3/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.32	− 8 17.3	1.724	2.576	13.8	21.8
3 12	13 5.93	− 7 43.9	1.664	2.591	9.9	21.6
3 22	12 57.54	− 6 57.4	1.628	2.605	5.5	21.4
4 1	12 48.05	− 6 2.5	1.620	2.619	0.8	21.1
4 11	12 38.57	− 5 5.9	1.640	2.632	4.0	21.3
4 21	12 30.15	− 4 14.4	1.688	2.644	8.4	21.6
5 1	12 23.60	− 3 33.5	1.760	2.656	12.2	21.9
5 11	12 19.42	− 3 6.8	1.854	2.667	15.5	22.1

65362 2002 OG_{22} 4 2.3 234°.45 0°.5/ 2.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.81	− 8 54.0	1.830	2.682	13.1	20.5
3 12	13 4.30	− 8 18.8	1.746	2.673	9.5	20.3
3 22	12 56.78	− 7 29.2	1.686	2.663	5.4	20.0
4 1	12 47.98	− 6 29.3	1.653	2.652	0.9	19.7
4 11	12 38.94	− 5 25.6	1.649	2.641	3.9	19.9
4 21	12 30.67	− 4 25.0	1.672	2.630	8.3	20.1
5 1	12 24.07	− 3 34.0	1.721	2.618	12.4	20.3
5 11	12 19.75	− 2 57.4	1.790	2.606	15.8	20.5

127368 2002 JC_{136} 4 2.3 36°.82 3°.1/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.45	−15 8.9	1.399	2.247	16.7	20.1
3 12	13 3.70	−14 44.9	1.332	2.251	12.6	19.8
3 22	12 56.54	−13 57.1	1.287	2.254	8.0	19.6
4 1	12 47.95	−12 49.1	1.265	2.259	3.7	19.3
4 11	12 39.22	−11 28.7	1.270	2.263	4.5	19.4
4 21	12 31.60	−10 5.8	1.300	2.268	9.0	19.7
5 1	12 26.11	− 8 50.3	1.353	2.272	13.5	19.9
5 11	12 23.35	− 7 49.8	1.426	2.277	17.4	20.2

467659 2008 TD_{163} 4 2.3 174°.44 3°.5/28.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.43	+ 5 23.6	2.572	3.439	9.3	22.2
3 12	13 2.70	+ 6 19.7	2.508	3.442	6.6	22.0
3 22	12 55.65	+ 7 16.1	2.472	3.445	4.2	21.8
4 1	12 47.84	+ 8 7.6	2.465	3.446	3.7	21.8
4 11	12 40.00	+ 8 49.4	2.487	3.448	5.6	21.9
4 21	12 32.79	+ 9 18.1	2.538	3.448	8.3	22.1
5 1	12 26.79	+ 9 31.9	2.614	3.448	10.8	22.3
5 11	12 22.41	+ 9 30.4	2.712	3.448	13.0	22.4

99631 2002 GG_{102} 4 2.3 210°.18 3°.9/28.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.79	+ 4 32.9	2.136	3.010	10.6	19.8
3 12	13 2.53	+ 5 39.2	2.068	3.006	7.5	19.6
3 22	12 55.66	+ 6 47.4	2.027	3.002	4.8	19.4
4 1	12 47.85	+ 7 50.8	2.014	2.998	4.1	19.4
4 11	12 39.95	+ 8 43.1	2.030	2.993	6.4	19.5
4 21	12 32.76	+ 9 19.9	2.073	2.988	9.6	19.7
5 1	12 26.98	+ 9 38.4	2.139	2.983	12.5	19.9
5 11	12 23.08	+ 9 38.5	2.226	2.978	15.1	20.0

497146 2004 RN_{89} 4 2.3 177°.50 2°.2/30.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.32	− 0 47.7	2.514	3.377	9.6	22.6
3 12	13 1.97	+ 0 26.8	2.444	3.379	6.7	22.4
3 22	12 55.27	+ 1 47.0	2.402	3.381	3.7	22.2
4 1	12 47.80	+ 3 7.2	2.389	3.382	2.3	22.1
4 11	12 40.28	+ 4 21.6	2.408	3.383	4.6	22.3
4 21	12 33.37	+ 5 24.9	2.455	3.382	7.7	22.4
5 1	12 27.66	+ 6 13.8	2.528	3.381	10.5	22.6
5 11	12 23.57	+ 6 46.4	2.623	3.380	12.9	22.8

500986 2013 RK_5 4 2.3 253°.73 1°.1/ 3.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.93	− 9 43.2	1.836	2.685	13.2	22.4
3 12	13 4.41	− 9 26.2	1.751	2.675	9.7	22.2
3 22	12 56.85	− 8 55.3	1.691	2.665	5.6	21.9
4 1	12 48.00	− 8 13.6	1.657	2.655	1.5	21.6
4 11	12 38.89	− 7 26.6	1.651	2.644	3.7	21.8
4 21	12 30.55	− 6 40.2	1.673	2.633	8.1	22.0
5 1	12 23.87	− 6 0.7	1.720	2.622	12.1	22.2
5 11	12 19.48	− 5 32.7	1.788	2.611	15.6	22.4

502428 2015 BH_{259} 4 2.3 65°.05 2°.8/30.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.56	− 0 7.5	1.759	2.636	12.3	21.6
3 12	13 2.52	+ 0 54.7	1.704	2.645	8.6	21.4
3 22	12 55.68	+ 2 2.4	1.674	2.655	4.8	21.1
4 1	12 47.85	+ 3 8.8	1.672	2.666	2.9	21.0
4 11	12 40.03	+ 4 6.4	1.697	2.676	5.8	21.2
4 21	12 33.14	+ 4 49.6	1.749	2.686	9.6	21.5
5 1	12 27.93	+ 5 14.8	1.824	2.696	13.0	21.7
5 11	12 24.84	+ 5 21.2	1.919	2.707	15.9	21.9

35559 1998 FO_{127} 4 2.3 170°.73 2°.2/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.65	− 0 55.7	2.104	2.971	11.0	19.4
3 12	13 3.12	− 0 3.1	2.037	2.973	7.7	19.2
3 22	12 55.97	+ 0 55.3	1.995	2.976	4.2	18.9
4 1	12 47.90	+ 1 54.0	1.983	2.977	2.2	18.8
4 11	12 39.75	+ 2 46.9	1.999	2.979	4.9	19.0
4 21	12 32.37	+ 3 29.0	2.043	2.980	8.4	19.2
5 1	12 26.43	+ 3 56.8	2.112	2.980	11.7	19.4
5 11	12 22.41	+ 4 8.6	2.202	2.981	14.4	19.6

380021 2013 QD_2 4 2.3 198°.79 1°.6/ 3.9 17

3 2	13 10.69	−11 38.8	2.204	3.037	11.9	22.0
3 12	13 4.63	−11 27.3	2.120	3.034	8.8	21.7
3 22	12 56.85	−11 2.9	2.061	3.030	5.3	21.5
4 1	12 48.01	−10 27.9	2.031	3.026	2.0	21.3
4 11	12 38.99	− 9 46.5	2.029	3.021	3.3	21.4
4 21	12 30.66	− 9 3.7	2.057	3.016	6.9	21.6
5 1	12 23.79	− 8 24.6	2.111	3.010	10.3	21.8
5 11	12 18.88	− 7 53.7	2.188	3.004	13.3	22.0

118762 2000 QM_{222} 4 2.3 216°.22 3°.9/28.7 18

3 2	13 9.78	+ 6 2.1	2.465	3.332	9.6	19.5
3 12	13 3.80	+ 6 59.8	2.389	3.322	6.9	19.3
3 22	12 56.33	+ 7 57.9	2.340	3.311	4.5	19.1
4 1	12 47.95	+ 8 51.0	2.320	3.300	4.0	19.1
4 11	12 39.44	+ 9 33.8	2.330	3.288	6.1	19.2
4 21	12 31.54	+10 2.4	2.367	3.275	8.9	19.3
5 1	12 24.90	+10 14.7	2.430	3.261	11.6	19.5
5 11	12 20.00	+10 10.4	2.514	3.247	14.0	19.7

498272 2007 VB_{15} 4 2.3 204°.25 1°.8/31.2 17

3 2	13 6.90	− 1 14.1	2.374	3.239	10.0	21.7
3 12	13 1.78	− 0 28.1	2.300	3.236	7.0	21.5
3 22	12 55.22	+ 0 23.4	2.253	3.233	3.8	21.3
4 1	12 47.82	+ 1 15.6	2.235	3.230	1.8	21.1
4 11	12 40.34	+ 2 3.4	2.246	3.227	4.3	21.3
4 21	12 33.47	+ 2 42.4	2.285	3.223	7.6	21.5
5 1	12 27.85	+ 3 9.3	2.349	3.219	10.6	21.7
5 11	12 23.93	+ 3 22.3	2.436	3.215	13.2	21.8

501053 2013 RQ_{97} 4 2.3 284°.29 5°.6/ 7.4 17

3 2	13 8.16	−21 41.7	1.726	2.533	15.8	21.2
3 12	13 3.45	−21 41.1	1.632	2.517	12.8	20.9
3 22	12 56.47	−21 15.4	1.558	2.501	9.4	20.7
4 1	12 47.99	−20 24.3	1.510	2.486	6.3	20.5
4 11	12 39.12	−19 11.7	1.487	2.470	5.8	20.4
4 21	12 31.02	−17 45.0	1.490	2.454	8.6	20.5
5 1	12 24.73	−16 14.0	1.519	2.438	12.3	20.7
5 11	12 20.95	−14 48.5	1.569	2.422	15.9	20.9

519589 2012 TC_{328} 4 2.3 170°.11 2°.9/29.3 17

3 2	13 6.11	+ 3 0.4	2.698	3.565	8.9	22.1
3 12	13 1.05	+ 4 6.4	2.633	3.569	6.2	21.9
3 22	12 54.75	+ 5 14.5	2.596	3.572	3.8	21.8
4 1	12 47.77	+ 6 19.6	2.589	3.575	3.0	21.7
4 11	12 40.75	+ 7 16.8	2.611	3.577	5.0	21.9
4 21	12 34.30	+ 8 2.2	2.662	3.579	7.7	22.0
5 1	12 28.96	+ 8 33.3	2.739	3.580	10.2	22.2
5 11	12 25.10	+ 8 49.1	2.837	3.581	12.3	22.4

250038 2002 CC_{152} 4 2.3 345°.53 3°.6/ 5.4 18

3 2	13 10.68	−15 17.4	2.166	2.985	12.6	19.8
3 12	13 4.73	−15 50.2	2.082	2.982	9.7	19.6
3 22	12 56.96	−16 9.6	2.023	2.979	6.6	19.4
4 1	12 48.04	−16 15.7	1.991	2.976	3.9	19.2
4 11	12 38.89	−16 10.5	1.987	2.974	4.2	19.2
4 21	12 30.41	−15 57.6	2.012	2.971	7.0	19.4
5 1	12 23.41	−15 41.5	2.062	2.970	10.2	19.6
5 11	12 18.46	−15 27.2	2.136	2.968	13.1	19.8

2669 Shostakovich 4 2.3 161°.42 3°.2/ 6.2 18

3 2	13 9.12	−18 14.4	2.552	3.352	11.5	18.5
3 12	13 3.32	−18 5.6	2.471	3.358	8.9	18.3
3 22	12 56.06	−17 41.5	2.415	3.364	6.1	18.1
4 1	12 47.93	−17 3.3	2.387	3.369	3.7	18.0
4 11	12 39.72	−16 14.6	2.388	3.374	3.7	18.0
4 21	12 32.15	−15 19.9	2.418	3.378	6.0	18.1
5 1	12 25.86	−14 24.7	2.476	3.381	8.8	18.3
5 11	12 21.30	−13 33.8	2.559	3.384	11.4	18.5

205827 2002 CA_{290} 4 2.3 136°.64 0°.8/ 1.7 18

3 2	13 15.36	− 4 3.6	1.700	2.558	13.6	20.6
3 12	13 8.15	− 3 47.3	1.638	2.569	9.7	20.4
3 22	12 58.81	− 3 22.5	1.600	2.580	5.2	20.1
4 1	12 48.26	− 2 53.8	1.591	2.590	0.9	19.8
4 11	12 37.69	− 2 26.6	1.610	2.599	4.5	20.1
4 21	12 28.21	− 2 6.1	1.657	2.608	8.9	20.4
5 1	12 20.71	− 1 56.2	1.728	2.616	12.9	20.6
5 11	12 15.73	− 1 59.2	1.820	2.624	16.1	20.9

165405 2000 XB_{48} 4 2.3 146°.72 2°.1/ 4.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 13.38	−11 57.4	1.728	2.567	14.4	20.5
3 12	13 6.84	−11 53.7	1.658	2.574	10.7	20.3
3 22	12 58.15	−11 34.3	1.611	2.581	6.5	20.1
4 1	12 48.19	−11 1.7	1.592	2.587	2.6	19.9
4 11	12 38.10	−10 20.9	1.600	2.593	3.9	20.0
4 21	12 29.01	− 9 38.3	1.636	2.598	8.1	20.2
5 1	12 21.83	− 9 0.1	1.697	2.603	12.1	20.5
5 11	12 17.13	− 8 31.6	1.780	2.607	15.5	20.7

491651 2012 TR_{239} 4 2.3 117°.90 0°.7/ 1.5 17

3 2	13 6.58	− 5 20.0	2.326	3.183	10.5	21.7
3 12	13 1.52	− 4 34.3	2.262	3.193	7.4	21.5
3 22	12 55.05	− 3 40.4	2.223	3.202	3.9	21.3
4 1	12 47.82	− 2 42.7	2.213	3.212	0.7	21.1
4 11	12 40.56	− 1 46.6	2.232	3.221	3.6	21.3
4 21	12 33.99	− 0 57.0	2.281	3.229	7.0	21.6
5 1	12 28.70	− 0 17.7	2.355	3.238	10.1	21.8
5 11	12 25.11	+ 0 8.7	2.451	3.246	12.7	22.0

117315 2004 VO_{55} 4 2.3 116°.88 1°.4/31.6 18

3 2	13 6.91	− 0 47.4	2.752	3.612	9.0	19.7
3 12	13 1.58	− 0 25.0	2.685	3.618	6.3	19.5
3 22	12 55.04	+ 0 0.8	2.644	3.624	3.4	19.3
4 1	12 47.82	+ 0 26.7	2.633	3.629	1.4	19.2
4 11	12 40.57	+ 0 49.2	2.652	3.635	3.6	19.4
4 21	12 33.89	+ 1 5.3	2.700	3.640	6.5	19.6
5 1	12 28.31	+ 1 12.8	2.774	3.646	9.1	19.7
5 11	12 24.21	+ 1 10.3	2.871	3.651	11.4	19.9

381695 2009 CQ_{55} 4 2.3 12°.21 9°.9/21.7 17

3 2	13 5.35	+19 35.8	1.717	2.595	12.5	20.3
3 12	13 1.09	+21 28.0	1.682	2.598	10.6	20.2
3 22	12 54.96	+23 6.4	1.671	2.601	9.9	20.1
4 1	12 47.81	+24 21.1	1.685	2.605	10.7	20.2
4 11	12 40.67	+25 5.4	1.722	2.610	12.6	20.3
4 21	12 34.50	+25 17.2	1.781	2.615	14.9	20.5
5 1	12 30.06	+24 57.9	1.858	2.621	17.2	20.6
5 11	12 27.79	+24 11.6	1.950	2.627	19.0	20.8

30745 1981 EB_{22} 4 2.3 31°.90 1°.2/ 1.1 18

3 2	13 6.28	− 3 44.9	1.947	2.816	11.7	18.8
3 12	13 1.54	− 3 6.3	1.885	2.822	8.2	18.6
3 22	12 55.15	− 2 19.8	1.848	2.829	4.4	18.4
4 1	12 47.83	− 1 30.3	1.838	2.837	1.2	18.2
4 11	12 40.49	− 0 43.9	1.857	2.844	4.3	18.4
4 21	12 33.93	− 0 5.5	1.902	2.852	8.1	18.6
5 1	12 28.88	+ 0 20.6	1.972	2.861	11.5	18.9
5 11	12 25.77	+ 0 32.4	2.064	2.869	14.4	19.1

502397 2015 BV_{250} 4 2.3 116°.60 1°.6/31.7 17

3 2	13 8.12	− 2 51.0	1.913	2.780	11.9	21.5
3 12	13 2.88	− 2 3.3	1.847	2.785	8.4	21.2
3 22	12 55.90	− 1 7.9	1.808	2.789	4.5	21.0
4 1	12 47.93	− 0 10.3	1.795	2.793	1.6	20.8
4 11	12 39.89	+ 0 43.1	1.812	2.797	4.7	21.0
4 21	12 32.68	+ 1 26.7	1.855	2.800	8.6	21.3
5 1	12 27.04	+ 1 56.3	1.923	2.804	12.1	21.5
5 11	12 23.44	+ 2 9.8	2.012	2.808	15.0	21.7

78523 2002 RV_{96} 4 2.3 262°.59 0°.6/ 1.8 17

3 2	13 9.62	− 6 20.1	1.792	2.652	13.0	20.5
3 12	13 4.30	− 5 36.1	1.700	2.633	9.3	20.3
3 22	12 56.87	− 4 38.9	1.634	2.613	5.1	20.0
4 1	12 48.06	− 3 33.2	1.594	2.593	0.7	19.6
4 11	12 38.90	− 2 26.2	1.583	2.572	4.5	19.8
4 21	12 30.44	− 1 25.3	1.598	2.551	9.1	20.1
5 1	12 23.65	− 0 36.8	1.639	2.530	13.3	20.3
5 11	12 19.18	− 0 5.1	1.700	2.508	16.9	20.4

299511 2006 CQ_{17} 4 2.3 301°.74 5°.2/12.4 18

3 2	13 5.04	−33 58.3	4.461	5.133	8.7	19.9
3 12	13 0.15	−34 29.7	4.362	5.129	7.7	19.8
3 22	12 54.26	−34 48.0	4.285	5.125	6.6	19.7
4 1	12 47.75	−34 52.4	4.234	5.121	5.7	19.6
4 11	12 41.09	−34 43.5	4.209	5.117	5.2	19.6
4 21	12 34.73	−34 22.9	4.212	5.113	5.5	19.6
5 1	12 29.13	−33 53.0	4.241	5.109	6.3	19.7
5 11	12 24.63	−33 17.4	4.295	5.105	7.4	19.7

429127 2009 SS_{335} 4 2.3 89°.56 1°.2/31.9 18

3 2	13 8.58	− 4 59.5	1.928	2.790	12.1	21.7
3 12	13 3.04	− 3 52.3	1.879	2.814	8.4	21.5
3 22	12 55.89	− 2 36.0	1.856	2.837	4.4	21.3
4 1	12 47.93	− 1 17.0	1.862	2.860	1.2	21.1
4 11	12 40.07	− 0 2.6	1.897	2.883	4.4	21.4
4 21	12 33.13	+ 1 1.1	1.959	2.905	8.2	21.6
5 1	12 27.79	+ 1 49.6	2.047	2.927	11.5	21.9
5 11	12 24.43	+ 2 20.9	2.156	2.948	14.3	22.1

245054 2004 FW_{97} 4 2.3 39°.76 5°.9/28.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.19	+ 8 45.1	1.592	2.477	12.9	19.4
3 12	13 3.65	+9 43.0	1.561	2.500	9.4	19.3
3 22	12 56.26	+10 36.0	1.553	2.524	6.6	19.2
4 1	12 47.97	+11 16.3	1.572	2.548	6.2	19.2
4 11	12 39.89	+11 38.0	1.617	2.573	8.4	19.4
4 21	12 32.97	+11 38.5	1.686	2.598	11.6	19.6
5 1	12 27.93	+11 18.0	1.777	2.624	14.5	19.9
5 11	12 25.17	+10 38.6	1.886	2.650	17.0	20.1

188604 2005 PO_{13} 4 2.3 116°.48 3°.2/30.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.31	+ 1 45.8	1.968	2.839	11.5	20.9
3 12	13 4.27	+ 2 45.2	1.917	2.855	8.1	20.8
3 22	12 56.59	+ 3 47.6	1.892	2.871	4.6	20.6
4 1	12 48.02	+ 4 46.6	1.896	2.886	3.2	20.5
4 11	12 39.52	+ 5 35.8	1.928	2.901	5.8	20.7
4 21	12 31.94	+ 6 10.9	1.988	2.916	9.2	20.9
5 1	12 25.96	+ 6 29.1	2.071	2.930	12.3	21.2
5 11	12 22.01	+ 6 30.0	2.176	2.943	14.9	21.4

374079 2004 RD_{154} 4 2.3 162°.06 4°.5/ 6.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.57	−20 7.9	2.048	2.850	13.8	20.7
3 12	13 4.01	−20 10.1	1.968	2.852	11.0	20.5
3 22	12 56.59	−19 52.7	1.910	2.855	7.8	20.3
4 1	12 48.04	−19 16.2	1.879	2.857	5.1	20.2
4 11	12 39.33	−18 24.3	1.876	2.858	4.8	20.2
4 21	12 31.40	−17 23.0	1.900	2.860	7.3	20.3
5 1	12 25.07	−16 19.2	1.950	2.861	10.4	20.5
5 11	12 20.86	−15 19.8	2.023	2.863	13.4	20.7

65306 2002 JL_{63} 4 2.3 265°.26 2°.2/31.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.05	− 2 12.6	1.664	2.535	13.2	19.9
3 12	13 4.70	− 1 19.2	1.579	2.518	9.4	19.6
3 22	12 57.14	− 0 15.5	1.519	2.500	5.1	19.3
4 1	12 48.13	+ 0 51.9	1.485	2.482	2.3	19.1
4 11	12 38.78	+ 1 54.8	1.480	2.463	5.8	19.3
4 21	12 30.22	+ 2 46.0	1.500	2.444	10.3	19.5
5 1	12 23.45	+ 3 19.7	1.544	2.425	14.5	19.7
5 11	12 19.14	+ 3 33.3	1.607	2.406	18.1	19.9

57928 2002 GD_{77} 4 2.3 115°.79 2°.9/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.69	+ 1 32.2	1.907	2.779	11.7	19.2
3 12	13 3.99	+ 2 14.8	1.846	2.784	8.3	19.0
3 22	12 56.52	+ 3 0.9	1.809	2.789	4.7	18.8
4 1	12 48.05	+ 3 44.6	1.801	2.793	3.0	18.7
4 11	12 39.54	+ 4 20.0	1.821	2.798	5.7	18.9
4 21	12 31.89	+ 4 42.6	1.867	2.802	9.2	19.1
5 1	12 25.87	+ 4 49.8	1.938	2.806	12.6	19.3
5 11	12 21.93	+ 4 40.8	2.029	2.811	15.4	19.5

135585 2002 GU_{102} 4 2.3 265°.79 5°.4/27.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.10	+ 8 47.7	1.991	2.867	11.1	19.6
3 12	13 3.65	+ 9 50.5	1.919	2.854	8.3	19.4
3 22	12 56.39	+10 51.7	1.873	2.841	5.9	19.2
4 1	12 48.04	+11 43.9	1.855	2.827	5.7	19.2
4 11	12 39.53	+12 20.9	1.863	2.814	7.9	19.3
4 21	12 31.75	+12 38.4	1.898	2.801	11.0	19.4
5 1	12 25.51	+12 34.8	1.956	2.787	14.0	19.6
5 11	12 21.33	+12 10.7	2.032	2.773	16.6	19.7

520928 2014 WD_{534} 4 2.3 4°.43 4°.4/ 6.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.60	−18 57.2	1.617	2.444	15.8	20.5
3 12	13 2.25	−18 42.4	1.542	2.444	12.4	20.3
3 22	12 55.76	−18 3.2	1.489	2.444	8.5	20.1
4 1	12 47.97	−17 1.5	1.459	2.444	5.1	19.9
4 11	12 40.01	−15 43.4	1.456	2.445	4.9	19.9
4 21	12 32.97	−14 17.4	1.479	2.447	8.2	20.1
5 1	12 27.79	−12 53.0	1.527	2.449	12.1	20.3
5 11	12 25.05	−11 38.7	1.596	2.451	15.6	20.5

425830 2011 ET_{18} 4 2.3 15°.15 4°.7/ 5.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.71	−14 2.9	1.448	2.288	16.6	19.8
3 12	13 8.26	−15 6.7	1.380	2.292	12.8	19.6
3 22	12 59.16	−15 54.1	1.335	2.296	8.6	19.3
4 1	12 48.39	−16 23.8	1.315	2.302	5.2	19.1
4 11	12 37.34	−16 37.2	1.321	2.308	5.6	19.2
4 21	12 27.42	−16 38.7	1.353	2.316	9.3	19.4
5 1	12 19.79	−16 34.5	1.408	2.324	13.3	19.6
5 11	12 15.14	−16 31.3	1.484	2.332	16.9	19.9

107287 2001 BE_{79} 4 2.3 133°.65 1°.3/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.28	− 4 8.4	1.809	2.671	12.8	20.7
3 12	13 5.16	− 3 16.8	1.749	2.683	9.0	20.5
3 22	12 57.17	− 2 15.9	1.715	2.695	4.8	20.2
4 1	12 48.15	− 1 11.7	1.708	2.706	1.4	20.0
4 11	12 39.13	− 0 11.3	1.731	2.717	4.7	20.3
4 21	12 31.08	+ 0 39.1	1.780	2.727	8.8	20.5
5 1	12 24.78	+ 1 15.0	1.855	2.736	12.4	20.8
5 11	12 20.71	+ 1 34.2	1.950	2.745	15.5	21.0

247838 2003 SF_{275} 4 2.3 254°.28 0°.5/ 1.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.66	− 6 35.1	1.552	2.419	14.3	20.7
3 12	13 4.45	− 5 52.2	1.478	2.413	10.2	20.4
3 22	12 56.99	− 4 55.1	1.427	2.407	5.5	20.1
4 1	12 48.14	− 3 49.6	1.402	2.401	0.7	19.8
4 11	12 39.07	− 2 43.6	1.405	2.395	4.7	20.0
4 21	12 30.94	− 1 45.1	1.433	2.389	9.6	20.3
5 1	12 24.73	− 1 0.8	1.485	2.383	13.9	20.5
5 11	12 21.07	− 0 34.6	1.557	2.377	17.6	20.8

212672 2006 UP_{332} 4 2.3 313°.19 3°.1/29.7 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.99	+ 1 25.1	2.159	3.034	10.4	20.4
3 12	13 0.57	+ 2 35.7	2.091	3.031	7.3	20.2
3 22	12 54.65	+ 3 50.8	2.049	3.028	4.3	20.0
4 1	12 47.86	+ 5 4.2	2.035	3.025	3.2	20.0
4 11	12 40.97	+ 6 9.2	2.051	3.022	5.6	20.1
4 21	12 34.75	+ 7 0.6	2.093	3.020	8.9	20.3
5 1	12 29.85	+ 7 35.0	2.159	3.017	11.9	20.5
5 11	12 26.71	+ 7 51.2	2.246	3.014	14.5	20.7

331546 2000 UG_{68} 4 2.3 261°.65 6°.5/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.67	−26 28.5	2.073	2.841	14.8	20.4
3 12	13 3.61	−26 29.6	1.970	2.824	12.4	20.2
3 22	12 56.52	−26 6.0	1.889	2.806	9.7	20.0
4 1	12 48.10	−25 16.6	1.832	2.788	7.3	19.8
4 11	12 39.32	−24 3.8	1.801	2.770	6.5	19.7
4 21	12 31.21	−22 33.6	1.797	2.752	8.1	19.7
5 1	12 24.68	−20 54.6	1.820	2.733	11.0	19.9
5 11	12 20.39	−19 16.2	1.866	2.713	14.0	20.0

386962 2011 SD_{239} 4 2.3 275°.56 0°.4/ 1.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.95	− 6 42.1	2.277	3.134	10.7	21.0
3 12	13 0.50	− 5 49.6	2.201	3.132	7.6	20.8
3 22	12 54.60	− 4 46.9	2.151	3.130	4.1	20.6
4 1	12 47.86	− 3 38.5	2.129	3.128	0.5	20.3
4 11	12 41.02	− 2 30.2	2.137	3.126	3.5	20.6
4 21	12 34.81	− 1 27.7	2.173	3.124	7.1	20.8
5 1	12 29.85	− 0 35.7	2.234	3.122	10.3	21.0
5 11	12 26.60	+ 0 2.5	2.319	3.121	13.1	21.2

45840 2000 RU_{44} 4 2.3 128°.42 2°.8/ 5.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.88	−15 48.7	2.449	3.258	11.6	20.1
3 12	13 5.26	−15 46.3	2.381	3.276	8.9	20.0
3 22	12 57.13	−15 30.0	2.338	3.294	5.8	19.8
4 1	12 48.16	−15 1.2	2.323	3.310	3.2	19.6
4 11	12 39.18	−14 23.5	2.339	3.327	3.4	19.7
4 21	12 30.94	−13 41.3	2.383	3.342	6.1	19.9
5 1	12 24.11	−12 59.7	2.456	3.357	9.0	20.1
5 11	12 19.12	−12 23.0	2.553	3.371	11.6	20.3

294327 2007 VL_{62} 4 2.3 149°.35 2°.9/30.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.73	+ 3 22.4	2.412	3.280	9.8	21.2
3 12	13 3.03	+ 3 59.6	2.349	3.285	6.9	21.1
3 22	12 55.92	+ 4 38.0	2.312	3.289	4.1	20.9
4 1	12 48.02	+ 5 13.1	2.305	3.294	3.0	20.8
4 11	12 40.10	+ 5 40.3	2.326	3.298	5.1	20.9
4 21	12 32.85	+ 5 56.4	2.376	3.302	8.0	21.1
5 1	12 26.90	+ 5 59.6	2.451	3.305	10.8	21.3
5 11	12 22.65	+ 5 49.2	2.547	3.309	13.1	21.5

18919 2000 OJ_{52} 4 2.3 284°.63 2°.0/ 4.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.92	−12 8.6	2.060	2.890	12.7	19.7
3 12	13 6.76	−12 3.2	1.938	2.850	9.6	19.4
3 22	12 58.37	−11 43.3	1.841	2.808	6.0	19.1
4 1	12 48.36	−11 9.9	1.771	2.766	2.5	18.8
4 11	12 37.67	−10 26.7	1.730	2.722	3.8	18.8
4 21	12 27.36	− 9 38.8	1.719	2.678	8.0	19.0
5 1	12 18.48	− 8 52.8	1.733	2.633	12.2	19.1
5 11	12 11.83	− 8 14.7	1.770	2.586	16.0	19.3

499755 2011 BA_{105} 4 2.3 201°.33 7°.5/10.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.54	−29 33.3	2.277	3.013	14.6	22.5
3 12	13 6.23	−30 4.4	2.185	3.009	12.4	22.3
3 22	12 57.91	−30 12.6	2.113	3.004	10.1	22.2
4 1	12 48.28	−29 55.9	2.066	2.999	8.2	22.0
4 11	12 38.35	−29 15.4	2.046	2.994	7.5	22.0
4 21	12 29.11	−28 15.5	2.052	2.988	8.5	22.0
5 1	12 21.49	−27 3.1	2.084	2.981	10.6	22.1
5 11	12 16.10	−25 46.5	2.140	2.973	13.0	22.3

269768 1999 TM_{61} 4 2.3 165°.36 0°.9/ 3.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.07	− 9 31.6	2.022	2.869	12.3	21.4
3 12	13 3.59	− 9 10.4	1.948	2.870	8.9	21.1
3 22	12 56.35	− 8 36.9	1.898	2.872	5.1	20.9
4 1	12 48.09	− 7 54.3	1.875	2.873	1.3	20.6
4 11	12 39.70	− 7 7.8	1.882	2.874	3.4	20.8
4 21	12 32.08	− 6 22.8	1.916	2.875	7.3	21.0
5 1	12 25.98	− 5 44.6	1.976	2.876	10.9	21.3
5 11	12 21.91	− 5 17.2	2.058	2.877	14.0	21.5

380062 2013 SC_{10} 4 2.3 150°.92 0°.6/ 1.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.74	− 6 38.4	2.310	3.161	10.8	21.6
3 12	13 2.39	− 5 37.2	2.241	3.170	7.6	21.4
3 22	12 55.59	− 4 26.1	2.200	3.179	4.1	21.2
4 1	12 47.99	− 3 10.0	2.187	3.186	0.6	20.9
4 11	12 40.36	− 1 54.9	2.205	3.193	3.6	21.2
4 21	12 33.43	− 0 46.8	2.252	3.200	7.1	21.4
5 1	12 27.82	+ 0 9.9	2.325	3.206	10.3	21.6
5 11	12 23.95	+ 0 52.0	2.421	3.211	12.9	21.8

462252 2008 CB_{211} 4 2.3 141°.75 1°.9/ 3.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 15.11	−10 32.7	1.895	2.731	13.4	20.7
3 12	13 7.98	−10 48.1	1.823	2.738	9.9	20.5
3 22	12 58.79	−10 51.2	1.776	2.745	6.0	20.3
4 1	12 48.38	−10 43.6	1.756	2.752	2.3	20.1
4 11	12 37.84	−10 28.8	1.766	2.758	3.7	20.2
4 21	12 28.22	−10 11.3	1.804	2.764	7.7	20.4
5 1	12 20.41	− 9 56.0	1.868	2.769	11.4	20.7
5 11	12 14.95	− 9 47.2	1.954	2.774	14.6	20.9

377147 2003 RW_{18} 4 2.3 140°.31 1°.7/ 4.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.98	−12 12.9	2.234	3.067	11.8	20.9
3 12	13 3.37	−11 55.7	2.161	3.074	8.7	20.7
3 22	12 56.17	−11 25.3	2.113	3.081	5.3	20.5
4 1	12 48.07	−10 44.6	2.093	3.088	2.1	20.3
4 11	12 39.89	− 9 57.9	2.102	3.095	3.1	20.4
4 21	12 32.43	− 9 10.2	2.140	3.101	6.6	20.6
5 1	12 26.38	− 8 26.8	2.204	3.106	9.8	20.8
5 11	12 22.20	− 7 51.8	2.292	3.112	12.7	21.0

251064 2006 SK_{23} 4 2.3 86°.45 1°.6/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 16.08	− 1 14.7	1.723	2.585	13.3	20.0
3 12	13 8.48	− 1 1.7	1.677	2.610	9.3	19.8
3 22	12 58.92	− 0 43.8	1.655	2.635	5.0	19.6
4 1	12 48.38	− 0 25.5	1.662	2.660	1.6	19.4
4 11	12 38.02	− 0 11.7	1.698	2.684	4.8	19.7
4 21	12 28.86	− 0 6.2	1.761	2.708	8.9	20.0
5 1	12 21.70	− 0 11.8	1.850	2.731	12.5	20.3
5 11	12 16.96	− 0 29.2	1.959	2.754	15.4	20.5

303006 2003 WZ_{88} 4 2.3 59°.23 2°.4/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.45	− 1 56.5	1.389	2.269	14.8	19.9
3 12	13 4.95	− 1 7.1	1.340	2.282	10.3	19.7
3 22	12 57.19	− 0 9.4	1.314	2.296	5.6	19.4
4 1	12 48.19	+ 0 48.9	1.313	2.309	2.4	19.3
4 11	12 39.25	+ 1 39.6	1.338	2.323	6.0	19.5
4 21	12 31.54	+ 2 15.9	1.389	2.337	10.6	19.8
5 1	12 25.96	+ 2 33.7	1.462	2.352	14.6	20.1
5 11	12 22.99	+ 2 32.0	1.553	2.366	18.0	20.4

62813 2000 UH_{43} 4 2.3 254°.82 1°.2/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.75	− 3 55.4	1.972	2.836	11.8	19.4
3 12	13 3.48	− 3 14.0	1.889	2.823	8.4	19.1
3 22	12 56.37	− 2 23.3	1.830	2.811	4.5	18.9
4 1	12 48.11	− 1 28.2	1.800	2.798	1.2	18.6
4 11	12 39.63	− 0 35.0	1.798	2.785	4.4	18.8
4 21	12 31.85	+ 0 10.6	1.823	2.771	8.5	19.0
5 1	12 25.57	+ 0 43.7	1.874	2.758	12.2	19.2
5 11	12 21.36	+ 1 1.4	1.945	2.744	15.4	19.4

94449 2001 TJ_{101} 4 2.3 215°.44 0°.6/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.07	− 6 49.8	1.784	2.641	13.2	20.4
3 12	13 5.27	− 5 56.8	1.703	2.634	9.4	20.2
3 22	12 57.40	− 4 50.0	1.647	2.626	5.1	19.9
4 1	12 48.24	− 3 35.0	1.618	2.617	0.7	19.6
4 11	12 38.84	− 2 19.3	1.617	2.607	4.4	19.8
4 21	12 30.27	− 1 10.6	1.645	2.596	9.0	20.1
5 1	12 23.43	− 0 15.5	1.697	2.585	13.0	20.3
5 11	12 18.93	+ 0 22.0	1.770	2.573	16.5	20.5

39299 2001 HF_{5} 4 2.3 86°.47 1°.5/31.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.37	− 4 16.6	1.945	2.809	11.9	18.2
3 12	13 2.91	− 3 4.3	1.898	2.833	8.3	18.0
3 22	12 55.87	− 1 43.7	1.877	2.858	4.4	17.8
4 1	12 48.03	− 0 21.4	1.885	2.882	1.5	17.7
4 11	12 40.30	+ 0 55.3	1.922	2.906	4.5	17.9
4 21	12 33.49	+ 2 0.3	1.986	2.930	8.2	18.2
5 1	12 28.25	+ 2 49.4	2.076	2.953	11.5	18.4
5 11	12 24.96	+ 3 20.6	2.187	2.975	14.2	18.7

278988 2008 UU_{209} 4 2.3 284°.59 0°.0/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.07	− 6 43.5	1.888	2.746	12.5	20.9
3 12	13 3.87	− 6 19.9	1.795	2.725	9.0	20.7
3 22	12 56.67	− 5 44.9	1.727	2.705	5.0	20.4
4 1	12 48.16	− 5 2.2	1.685	2.684	0.6	20.0
4 11	12 39.30	− 4 17.1	1.672	2.664	4.0	20.2
4 21	12 31.09	− 3 35.7	1.686	2.643	8.4	20.4
5 1	12 24.45	− 3 3.5	1.725	2.622	12.4	20.6
5 11	12 20.00	− 2 44.4	1.785	2.601	15.9	20.8

1173 Anchises 4 2.3 244°.33 1°.5/ 5.5 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 0.25	−15 10.2	4.901	5.707	6.3	16.6
3 12	12 56.62	−14 57.8	4.805	5.699	4.7	16.5
3 22	12 52.32	−14 38.4	4.735	5.691	3.1	16.4
4 1	12 47.63	−14 13.1	4.695	5.683	1.7	16.2
4 11	12 42.87	−13 43.5	4.686	5.674	1.8	16.2
4 21	12 38.37	−13 11.7	4.706	5.666	3.3	16.3
5 1	12 34.43	−12 39.9	4.755	5.658	5.0	16.5
5 11	12 31.27	−12 10.2	4.831	5.649	6.5	16.6

250244 2003 AG 4 2.3 113°.80 13°.2/15.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.91	−37 49.9	1.275	2.008	24.1	19.7
3 12	13 7.67	−38 19.3	1.207	2.017	21.3	19.5
3 22	12 59.10	−38 2.6	1.154	2.025	18.2	19.3
4 1	12 48.45	−36 53.8	1.118	2.034	15.3	19.1
4 11	12 37.60	−34 54.7	1.103	2.042	13.4	19.0
4 21	12 28.36	−32 16.5	1.111	2.050	13.6	19.1
5 1	12 22.12	−29 17.2	1.140	2.058	15.6	19.2
5 11	12 19.53	−26 17.0	1.191	2.065	18.6	19.4

432595 2010 RL_{166} 4 2.3 255°.30 1°.5/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.31	− 3 55.7	1.769	2.634	12.9	21.9
3 12	13 4.83	− 3 3.5	1.680	2.616	9.2	21.6
3 22	12 57.23	− 1 59.8	1.617	2.598	4.9	21.3
4 1	12 48.23	− 0 50.4	1.581	2.578	1.5	21.1
4 11	12 38.90	+ 0 17.0	1.573	2.559	5.1	21.2
4 21	12 30.29	+ 1 15.0	1.592	2.539	9.6	21.5
5 1	12 23.39	+ 1 57.8	1.635	2.518	13.7	21.7
5 11	12 18.82	+ 2 22.0	1.698	2.497	17.3	21.8

332610 2008 TA_{12} 4 2.3 193°.28 0°.0/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.35	− 8 4.2	2.070	2.923	11.8	21.3
3 12	13 2.34	− 7 18.7	1.994	2.922	8.4	21.1
3 22	12 55.68	− 6 21.1	1.944	2.921	4.6	20.9
4 1	12 48.04	− 5 15.9	1.921	2.920	0.6	20.6
4 11	12 40.29	− 4 9.2	1.927	2.919	3.6	20.8
4 21	12 33.25	− 3 7.2	1.962	2.917	7.5	21.0
5 1	12 27.65	− 2 15.4	2.022	2.915	11.0	21.2
5 11	12 23.97	− 1 37.4	2.104	2.913	14.0	21.4

213402 2001 VH_{111} 4 2.3 124°.12 3°.1/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.84	+ 4 44.3	2.509	3.376	9.5	20.8
3 12	13 3.04	+ 5 20.5	2.451	3.386	6.7	20.6
3 22	12 55.91	+ 5 56.7	2.420	3.395	4.1	20.4
4 1	12 48.06	+ 6 28.4	2.419	3.405	3.2	20.4
4 11	12 40.23	+ 6 51.5	2.447	3.414	5.2	20.5
4 21	12 33.08	+ 7 3.3	2.503	3.423	7.9	20.7
5 1	12 27.18	+ 7 2.1	2.584	3.432	10.5	20.9
5 11	12 22.93	+ 6 47.7	2.687	3.441	12.7	21.1

333659 2008 SD_{146} 4 2.3 237°.39 2°.8/ 5.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.56	−15 10.5	2.043	2.869	13.0	21.5
3 12	13 3.33	−14 57.8	1.957	2.863	9.9	21.3
3 22	12 56.29	−14 28.5	1.895	2.857	6.4	21.1
4 1	12 48.13	−13 44.2	1.860	2.851	3.3	20.8
4 11	12 39.75	−12 49.6	1.853	2.844	3.7	20.9
4 21	12 32.08	−11 50.6	1.874	2.838	7.1	21.1
5 1	12 25.92	−10 53.6	1.921	2.831	10.7	21.3
5 11	12 21.82	−10 4.6	1.991	2.824	13.8	21.4

497373 2005 UL_{334} 4 2.3 221°.18 5°.8/27.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.84	+11 35.7	2.170	3.038	10.7	22.3
3 12	13 5.48	+12 33.4	2.102	3.029	8.1	22.1
3 22	12 57.38	+13 26.8	2.060	3.019	6.2	21.9
4 1	12 48.25	+14 9.1	2.046	3.009	6.1	21.9
4 11	12 39.01	+14 34.8	2.060	2.999	8.1	22.0
4 21	12 30.51	+14 40.9	2.100	2.988	10.8	22.2
5 1	12 23.53	+14 26.5	2.164	2.976	13.5	22.3
5 11	12 18.56	+13 53.0	2.248	2.964	15.9	22.5

146885 2002 CB_{27} 4 2.3 162°.57 2°.0/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.82	− 0 10.6	2.407	3.273	9.9	20.2
3 12	13 1.74	+ 0 28.0	2.338	3.274	6.9	20.0
3 22	12 55.26	+ 1 10.7	2.295	3.275	3.8	19.8
4 1	12 48.00	+ 1 53.1	2.281	3.276	2.0	19.7
4 11	12 40.66	+ 2 30.5	2.296	3.276	4.4	19.9
4 21	12 33.96	+ 2 59.0	2.339	3.277	7.5	20.1
5 1	12 28.48	+ 3 15.8	2.408	3.278	10.4	20.2
5 11	12 24.66	+ 3 19.5	2.499	3.278	12.9	20.4

503885 2001 SU_{166} 4 2.3 245°.32 1°.0/ 3.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.63	− 8 57.6	2.308	3.149	11.1	20.7
3 12	13 3.89	− 8 54.4	2.222	3.142	8.1	20.5
3 22	12 56.53	− 8 41.5	2.161	3.135	4.7	20.3
4 1	12 48.16	− 8 20.9	2.129	3.127	1.3	20.0
4 11	12 39.60	− 7 56.3	2.127	3.119	3.1	20.1
4 21	12 31.65	− 7 31.8	2.153	3.111	6.7	20.3
5 1	12 25.03	− 7 11.3	2.205	3.103	10.0	20.5
5 11	12 20.27	− 6 58.3	2.281	3.095	12.9	20.7

244689 2003 PW_5 4 2.3 294°.02 1°.9/ 3.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.91	−11 49.9	1.458	2.312	15.7	20.7
3 12	13 5.19	−11 27.5	1.354	2.280	11.8	20.4
3 22	12 57.76	−10 43.8	1.273	2.246	7.2	20.0
4 1	12 48.35	− 9 40.9	1.216	2.213	2.4	19.6
4 11	12 38.18	− 8 25.5	1.185	2.179	4.6	19.7
4 21	12 28.66	− 7 6.7	1.179	2.145	10.1	19.9
5 1	12 21.13	− 5 54.9	1.197	2.110	15.4	20.1
5 11	12 16.51	− 4 58.8	1.234	2.076	20.0	20.2

144069 2004 BQ_{45} 4 2.3 36°.97 5°.9/28.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.74	+ 5 44.4	1.379	2.269	14.1	19.3
3 12	13 3.81	+ 7 6.4	1.331	2.276	10.2	19.1
3 22	12 56.61	+ 8 28.8	1.307	2.282	6.7	18.9
4 1	12 48.16	+ 9 41.0	1.308	2.289	6.2	18.9
4 11	12 39.72	+10 33.8	1.334	2.297	9.1	19.0
4 21	12 32.46	+11 1.6	1.383	2.305	12.9	19.3
5 1	12 27.29	+11 2.7	1.454	2.313	16.5	19.5
5 11	12 24.70	+10 38.9	1.541	2.321	19.5	19.8

174136 2002 NR_{15} 4 2.3 209°.70 2°.2/ 4.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.17	−12 47.5	1.924	2.756	13.4	20.7
3 12	13 6.00	−12 41.5	1.839	2.751	10.1	20.5
3 22	12 57.80	−12 20.1	1.779	2.746	6.2	20.2
4 1	12 48.32	−11 45.4	1.746	2.740	2.7	20.0
4 11	12 38.60	−11 1.9	1.741	2.733	3.7	20.0
4 21	12 29.65	−10 15.2	1.765	2.726	7.7	20.3
5 1	12 22.39	− 9 31.8	1.814	2.718	11.5	20.5
5 11	12 17.40	− 8 56.9	1.886	2.710	14.8	20.7

316378 2010 TG_{12} 4 2.3 2°.55 3°.0/ 4.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.34	−12 47.9	1.429	2.279	16.2	20.3
3 12	13 5.87	−13 0.1	1.358	2.278	12.2	20.1
3 22	12 57.89	−12 54.0	1.309	2.278	7.7	19.8
4 1	12 48.34	−12 31.2	1.285	2.278	3.6	19.6
4 11	12 38.53	−11 56.7	1.286	2.279	4.6	19.6
4 21	12 29.79	−11 17.5	1.313	2.280	9.1	19.9
5 1	12 23.22	−10 41.3	1.363	2.281	13.5	20.1
5 11	12 19.48	−10 14.6	1.434	2.283	17.4	20.4

181027 2005 OR_6 4 2.3 189°.19 2°.1/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.05	+ 1 27.1	3.041	3.903	8.1	21.3
3 12	13 0.97	+ 2 11.8	2.967	3.902	5.7	21.2
3 22	12 54.78	+ 2 59.1	2.922	3.900	3.2	21.0
4 1	12 47.95	+ 3 45.1	2.907	3.898	2.1	20.9
4 11	12 41.06	+ 4 25.9	2.922	3.895	4.0	21.0
4 21	12 34.66	+ 4 58.4	2.966	3.892	6.6	21.2
5 1	12 29.22	+ 5 20.2	3.036	3.889	9.0	21.4
5 11	12 25.12	+ 5 30.2	3.129	3.885	11.0	21.5

294840 2008 CH_{153} 4 2.3 270°.52 1°.8/ 4.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.30	−11 36.1	2.452	3.283	10.9	20.5
3 12	13 3.64	−11 43.9	2.360	3.272	8.2	20.3
3 22	12 56.39	−11 41.0	2.294	3.261	5.1	20.1
4 1	12 48.16	−11 28.9	2.256	3.250	2.2	19.9
4 11	12 39.70	−11 10.4	2.247	3.239	3.1	19.9
4 21	12 31.79	−10 49.1	2.268	3.228	6.3	20.1
5 1	12 25.12	−10 29.0	2.315	3.217	9.5	20.3
5 11	12 20.22	−10 14.0	2.386	3.205	12.2	20.5

419591 2010 RC_{107} 4 2.3 306°.67 0°.3/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.30	− 5 50.8	1.366	2.240	15.4	20.8
3 12	13 5.37	− 5 35.2	1.282	2.220	11.2	20.5
3 22	12 57.77	− 5 6.2	1.220	2.201	6.2	20.1
4 1	12 48.35	− 4 28.2	1.183	2.182	0.7	19.7
4 11	12 38.42	− 3 48.4	1.171	2.163	5.1	19.9
4 21	12 29.39	− 3 14.2	1.184	2.145	10.6	20.2
5 1	12 22.49	− 2 52.5	1.219	2.127	15.6	20.4
5 11	12 18.54	− 2 47.6	1.272	2.110	19.8	20.6

305519 2008 FE_{17} 4 2.3 137°.22 0°.5/ 1.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.61	− 6 21.0	2.445	3.301	10.1	21.4
3 12	13 0.18	− 5 26.2	2.372	3.302	7.1	21.2
3 22	12 54.43	− 4 22.1	2.325	3.304	3.8	21.0
4 1	12 47.92	− 3 13.2	2.307	3.306	0.6	20.7
4 11	12 41.34	− 2 5.1	2.318	3.307	3.4	21.0
4 21	12 35.35	− 1 2.8	2.358	3.308	6.7	21.2
5 1	12 30.54	− 0 10.8	2.425	3.310	9.8	21.4
5 11	12 27.30	+ 0 28.0	2.514	3.311	12.3	21.5

425677 2011 AQ_5 4 2.3 106°.17 5°.7/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.18	−22 44.0	1.939	2.727	15.0	21.3
3 12	13 5.95	−23 2.4	1.870	2.741	12.1	21.1
3 22	12 57.72	−22 58.8	1.823	2.755	9.0	20.9
4 1	12 48.32	−22 33.0	1.802	2.769	6.4	20.8
4 11	12 38.83	−21 48.5	1.808	2.783	5.9	20.8
4 21	12 30.27	−20 51.1	1.840	2.796	7.9	20.9
5 1	12 23.51	−19 48.4	1.899	2.809	10.7	21.1
5 11	12 19.08	−18 48.1	1.980	2.822	13.6	21.3

401084 2011 UZ_{128} 4 2.3 168°.39 3°.3/ 5.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 11.79	−16 34.8	1.804	2.626	14.6	21.5
3 12	13 5.77	−16 17.0	1.728	2.630	11.2	21.3
3 22	12 57.67	−15 38.9	1.674	2.634	7.3	21.1
4 1	12 48.32	−14 42.7	1.647	2.637	3.9	20.8
4 11	12 38.82	−13 33.9	1.648	2.639	4.2	20.9
4 21	12 30.23	−12 20.1	1.677	2.640	7.8	21.1
5 1	12 23.46	−11 9.4	1.732	2.641	11.6	21.3
5 11	12 19.08	−10 8.5	1.808	2.642	15.0	21.5

276975 Heller 4 2.3 14°.43 5°.7/ 7.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.52	−22 8.9	1.738	2.543	15.8	20.4
3 12	13 2.88	−22 13.9	1.662	2.545	12.7	20.2
3 22	12 56.15	−21 54.5	1.607	2.547	9.4	20.0
4 1	12 48.14	−21 11.2	1.576	2.549	6.5	19.8
4 11	12 39.95	−20 8.0	1.571	2.552	5.9	19.8
4 21	12 32.65	−18 52.2	1.592	2.555	8.2	19.9
5 1	12 27.15	−17 32.8	1.638	2.558	11.5	20.1
5 11	12 24.03	−16 18.4	1.706	2.562	14.7	20.3

375989 2009 XU_3 4 2.3 116°.87 1°.7/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.13	−12 48.0	2.064	2.898	12.6	21.3
3 12	13 3.56	−12 20.9	1.997	2.911	9.3	21.1
3 22	12 56.32	−11 39.0	1.955	2.923	5.6	20.9
4 1	12 48.16	−10 45.6	1.940	2.935	2.2	20.7
4 11	12 39.97	− 9 46.0	1.954	2.947	3.3	20.8
4 21	12 32.59	− 8 46.3	1.997	2.958	6.9	21.1
5 1	12 26.73	− 7 52.3	2.065	2.969	10.3	21.3
5 11	12 22.86	− 7 8.7	2.157	2.980	13.3	21.5

195291 2002 EN_{83} 4 2.3 263°.18 0°.2/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.85	− 5 53.7	1.883	2.742	12.5	20.2
3 12	13 4.31	− 5 33.5	1.805	2.736	9.0	20.0
3 22	12 56.86	− 5 3.3	1.751	2.730	4.9	19.7
4 1	12 48.24	− 4 27.1	1.725	2.724	0.6	19.4
4 11	12 39.42	− 3 50.1	1.727	2.718	3.9	19.6
4 21	12 31.37	− 3 17.7	1.756	2.712	8.2	19.9
5 1	12 24.94	− 2 54.6	1.811	2.706	12.0	20.1
5 11	12 20.69	− 2 44.0	1.886	2.699	15.2	20.3

331011 Peccioli 4 2.3 262°.22 0°.2/ 2.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.21	− 9 18.4	1.843	2.698	12.9	20.6
3 12	13 2.52	− 8 23.9	1.759	2.687	9.4	20.4
3 22	12 55.92	− 7 13.5	1.698	2.676	5.2	20.1
4 1	12 48.13	− 5 52.2	1.665	2.664	0.8	19.8
4 11	12 40.11	− 4 27.3	1.661	2.653	3.9	20.0
4 21	12 32.83	− 3 6.8	1.683	2.641	8.3	20.2
5 1	12 27.13	− 1 57.9	1.731	2.629	12.3	20.4
5 11	12 23.59	− 1 5.7	1.800	2.617	15.7	20.6

199999 2007 JZ_{39} 4 2.4 245°.08 2°.1/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.62	− 1 32.9	2.065	2.933	11.2	20.7
3 12	13 2.59	− 0 35.5	1.986	2.924	7.8	20.5
3 22	12 55.87	+ 0 29.3	1.933	2.914	4.3	20.2
4 1	12 48.13	+ 1 35.8	1.908	2.904	2.2	20.1
4 11	12 40.21	+ 2 37.5	1.912	2.893	5.0	20.2
4 21	12 32.96	+ 3 28.5	1.944	2.883	8.7	20.4
5 1	12 27.14	+ 4 4.5	2.000	2.872	12.1	20.6
5 11	12 23.24	+ 4 23.5	2.077	2.861	15.0	20.8

499796 2011 CX_{76} 4 2.4 163°.37 5°.2/27.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.99	+ 7 45.8	2.008	2.884	11.1	21.6
3 12	13 3.49	+ 9 3.6	1.952	2.887	8.1	21.4
3 22	12 56.30	+10 20.1	1.922	2.890	5.7	21.3
4 1	12 48.17	+11 27.8	1.920	2.893	5.5	21.3
4 11	12 40.01	+12 19.9	1.945	2.895	7.7	21.4
4 21	12 32.66	+12 52.4	1.997	2.898	10.6	21.6
5 1	12 26.85	+13 3.4	2.072	2.899	13.5	21.8
5 11	12 23.03	+12 53.8	2.166	2.901	15.9	22.0

303343 2004 TA_{213} 4 2.4 17°.34 1°.1/ 3.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.49	−10 40.0	1.297	2.164	16.5	20.3
3 12	13 3.92	−10 2.3	1.233	2.165	12.1	20.1
3 22	12 56.85	− 9 3.8	1.190	2.167	7.0	19.8
4 1	12 48.26	− 7 50.2	1.171	2.169	1.7	19.4
4 11	12 39.51	− 6 30.9	1.178	2.172	4.5	19.6
4 21	12 31.91	− 5 15.9	1.209	2.175	9.9	19.9
5 1	12 26.53	− 4 14.4	1.263	2.178	14.6	20.2
5 11	12 23.98	− 3 32.1	1.336	2.182	18.6	20.5

381491 2008 SA_{88} 4 2.4 198°.96 1°.5/ 3.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.22	−11 48.4	2.389	3.220	11.2	22.2
3 12	13 3.56	−11 28.2	2.304	3.216	8.3	22.0
3 22	12 56.35	−10 55.5	2.244	3.213	5.0	21.8
4 1	12 48.20	−10 12.8	2.213	3.208	1.8	21.6
4 11	12 39.89	− 9 24.4	2.211	3.203	3.0	21.7
4 21	12 32.20	− 8 35.1	2.239	3.198	6.4	21.9
5 1	12 25.82	− 7 49.9	2.293	3.192	9.7	22.1
5 11	12 21.22	− 7 13.0	2.371	3.186	12.5	22.2

121954 2000 EQ_{50} 4 2.4 237°.18 0°.4/ 2.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 13.13	− 7 31.4	1.455	2.317	15.3	20.0
3 12	13 7.14	− 7 16.6	1.381	2.312	11.1	19.7
3 22	12 58.62	− 6 47.7	1.329	2.307	6.2	19.4
4 1	12 48.49	− 6 8.7	1.303	2.302	1.0	19.0
4 11	12 38.06	− 5 26.4	1.304	2.296	4.6	19.3
4 21	12 28.68	− 4 47.8	1.330	2.290	9.7	19.6
5 1	12 21.44	− 4 19.5	1.380	2.285	14.4	19.8
5 11	12 17.04	− 4 5.9	1.449	2.278	18.3	20.0

259580 2003 UQ_{208} 4 2.4 152°.50 0°.4/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.27	− 6 31.5	1.927	2.781	12.5	21.6
3 12	13 5.16	− 5 48.5	1.860	2.789	8.9	21.4
3 22	12 57.25	− 4 54.6	1.818	2.797	4.8	21.1
4 1	12 48.30	− 3 54.5	1.805	2.804	0.6	20.8
4 11	12 39.30	− 2 54.9	1.821	2.811	4.0	21.1
4 21	12 31.18	− 2 1.7	1.865	2.816	8.1	21.4
5 1	12 24.71	− 1 20.1	1.934	2.822	11.7	21.6
5 11	12 20.38	− 0 53.1	2.025	2.826	14.8	21.8

508304 2015 KT_{53} 4 2.4 290°.32 4°.2/28.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.56	+ 6 43.6	2.223	3.096	10.3	20.8
3 12	13 3.21	+ 7 25.6	2.142	3.077	7.5	20.6
3 22	12 56.21	+ 8 7.2	2.086	3.059	4.9	20.4
4 1	12 48.19	+ 8 42.9	2.059	3.040	4.3	20.4
4 11	12 39.97	+ 9 7.4	2.060	3.021	6.5	20.5
4 21	12 32.37	+ 9 17.1	2.087	3.003	9.5	20.6
5 1	12 26.11	+ 9 10.2	2.139	2.984	12.5	20.8
5 11	12 21.71	+ 8 46.4	2.211	2.965	15.1	20.9

148674 2001 SZ_{186} 4 2.4 4°.45 0°.7/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.58	− 6 18.3	1.452	2.326	14.6	19.7
3 12	13 3.05	− 5 33.8	1.387	2.325	10.4	19.4
3 22	12 56.29	− 4 35.3	1.344	2.325	5.6	19.1
4 1	12 48.20	− 3 28.9	1.327	2.326	0.8	18.8
4 11	12 39.97	− 2 23.3	1.336	2.327	4.8	19.1
4 21	12 32.76	− 1 26.6	1.370	2.329	9.7	19.4
5 1	12 27.51	− 0 45.2	1.428	2.331	14.1	19.6
5 11	12 24.79	− 0 22.7	1.504	2.333	17.7	19.9

334749 2003 QB_{50} 4 2.4 211°.98 3°.1/29.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.76	+ 3 3.2	2.505	3.373	9.5	22.0
3 12	13 2.43	+ 4 7.0	2.430	3.365	6.7	21.8
3 22	12 55.70	+ 5 13.6	2.381	3.357	4.1	21.6
4 1	12 48.13	+ 6 17.7	2.362	3.349	3.2	21.5
4 11	12 40.44	+ 7 13.7	2.373	3.340	5.4	21.6
4 21	12 33.33	+ 7 57.3	2.412	3.330	8.3	21.8
5 1	12 27.41	+ 8 25.6	2.477	3.320	11.0	22.0
5 11	12 23.13	+ 8 37.7	2.562	3.309	13.4	22.1

104429 2000 FE_{63} 4 2.4 133°.82 1°.5/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.52	−13 5.1	2.217	3.051	11.8	19.5
3 12	13 1.69	−12 25.3	2.142	3.056	8.7	19.3
3 22	12 55.32	−11 30.6	2.092	3.060	5.3	19.1
4 1	12 48.08	−10 24.5	2.069	3.065	2.0	18.8
4 11	12 40.77	− 9 12.6	2.076	3.069	3.1	18.9
4 21	12 34.15	− 8 0.9	2.112	3.074	6.6	19.2
5 1	12 28.89	− 6 55.5	2.174	3.078	9.9	19.4
5 11	12 25.42	− 6 1.0	2.259	3.082	12.8	19.6

109409 2001 QM_{184} 4 2.4 230°.05 2°.2/ 5.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.24	−15 13.8	2.413	3.234	11.4	20.1
3 12	13 1.47	−14 40.9	2.323	3.227	8.6	19.9
3 22	12 55.22	−13 52.6	2.258	3.220	5.5	19.7
4 1	12 48.08	−12 51.3	2.221	3.213	2.6	19.4
4 11	12 40.78	−11 41.6	2.213	3.205	3.1	19.5
4 21	12 34.06	−10 29.2	2.234	3.197	6.2	19.6
5 1	12 28.59	− 9 20.1	2.283	3.189	9.4	19.8
5 11	12 24.82	− 8 19.3	2.355	3.180	12.2	20.0

972 Cohnia 4 2.4 181°.59 3°.0/ 6.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.30	−18 39.1	2.980	3.773	10.2	15.5
3 12	13 1.98	−18 28.2	2.892	3.774	7.9	15.3
3 22	12 55.41	−18 3.8	2.829	3.775	5.5	15.2
4 1	12 48.10	−17 27.0	2.794	3.774	3.4	15.0
4 11	12 40.69	−16 40.6	2.789	3.774	3.3	15.0
4 21	12 33.78	−15 48.7	2.814	3.773	5.3	15.2
5 1	12 27.93	−14 55.7	2.867	3.771	7.7	15.3
5 11	12 23.55	−14 5.9	2.944	3.769	10.0	15.5

324512 2006 VD_{46} 4 2.4 278°.45 3°.2/ 5.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.12	−15 31.2	1.655	2.491	15.1	20.5
3 12	13 4.19	−15 18.8	1.567	2.478	11.6	20.3
3 22	12 56.99	−14 45.5	1.502	2.465	7.6	20.0
4 1	12 48.31	−13 53.1	1.461	2.452	3.8	19.7
4 11	12 39.28	−12 47.0	1.447	2.439	4.4	19.7
4 21	12 31.05	−11 34.9	1.460	2.426	8.4	19.9
5 1	12 24.66	−10 25.6	1.497	2.413	12.7	20.1
5 11	12 20.79	− 9 26.7	1.556	2.400	16.5	20.3

147291 2003 AD_{38} 4 2.4 104°.16 4°.1/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.94	+ 3 22.5	1.803	2.679	12.1	20.1
3 12	13 4.20	+ 4 37.3	1.756	2.695	8.5	20.0
3 22	12 56.69	+ 5 54.0	1.734	2.711	5.2	19.8
4 1	12 48.26	+ 7 4.8	1.741	2.727	4.3	19.8
4 11	12 39.88	+ 8 2.4	1.775	2.742	6.8	19.9
4 21	12 32.49	+ 8 41.9	1.836	2.757	10.2	20.2
5 1	12 26.81	+ 9 1.0	1.920	2.771	13.4	20.4
5 11	12 23.27	+ 9 0.0	2.023	2.786	16.0	20.6

370759 2004 RR_{253} 4 2.4 122°.64 4°.1/28.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.17	+ 5 15.7	2.314	3.186	10.0	21.6
3 12	13 2.65	+ 6 45.9	2.268	3.204	7.1	21.4
3 22	12 55.76	+ 8 16.3	2.250	3.222	4.7	21.3
4 1	12 48.15	+ 9 39.9	2.261	3.239	4.4	21.3
4 11	12 40.58	+10 50.4	2.302	3.256	6.4	21.5
4 21	12 33.76	+11 43.6	2.370	3.272	9.1	21.7
5 1	12 28.29	+12 17.5	2.463	3.287	11.7	21.9
5 11	12 24.53	+12 32.2	2.575	3.302	13.8	22.0

67902 2000 WY_{92} 4 2.4 228°.45 3°.6/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.47	+ 2 11.8	1.717	2.590	12.8	19.6
3 12	13 6.35	+ 3 1.1	1.643	2.582	9.1	19.3
3 22	12 58.07	+ 3 54.6	1.595	2.573	5.3	19.1
4 1	12 48.47	+ 4 45.4	1.573	2.564	3.7	19.0
4 11	12 38.65	+ 5 26.4	1.579	2.555	6.6	19.1
4 21	12 29.72	+ 5 52.0	1.612	2.545	10.6	19.3
5 1	12 22.62	+ 5 59.1	1.668	2.534	14.4	19.5
5 11	12 17.95	+ 5 46.8	1.744	2.524	17.6	19.7

497849 2006 UG_{82} 4 2.4 137°.24 0°.7/ 1.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.78	− 3 50.8	2.515	3.369	9.9	21.6
3 12	13 3.10	− 3 32.9	2.445	3.375	7.0	21.4
3 22	12 56.04	− 3 9.1	2.402	3.381	3.8	21.2
4 1	12 48.21	− 2 42.8	2.387	3.386	0.7	21.0
4 11	12 40.31	− 2 17.6	2.403	3.391	3.3	21.2
4 21	12 33.06	− 1 57.1	2.448	3.397	6.6	21.4
5 1	12 27.03	− 1 44.2	2.519	3.402	9.5	21.6
5 11	12 22.65	− 1 40.8	2.613	3.406	12.0	21.8

57164 2001 QO_{17} 4 2.4 100°.28 4°.3/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.98	+ 3 57.3	1.798	2.675	12.1	18.8
3 12	13 4.23	+ 5 13.8	1.753	2.692	8.6	18.7
3 22	12 56.72	+ 6 31.4	1.733	2.709	5.3	18.5
4 1	12 48.28	+ 7 42.4	1.742	2.726	4.5	18.5
4 11	12 39.93	+ 8 39.4	1.778	2.743	7.0	18.7
4 21	12 32.56	+ 9 17.7	1.840	2.759	10.4	18.9
5 1	12 26.92	+ 9 35.2	1.926	2.775	13.5	19.1
5 11	12 23.41	+ 9 32.4	2.030	2.790	16.1	19.3

152331 2005 UW_{29} 4 2.4 59°.65 4°.4/29.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.54	+ 9 3.3	2.311	3.179	10.1	19.7
3 12	13 4.35	+ 9 29.1	2.259	3.190	7.4	19.5
3 22	12 56.70	+ 9 51.1	2.232	3.200	5.1	19.4
4 1	12 48.29	+10 4.7	2.235	3.211	4.5	19.4
4 11	12 39.92	+10 6.4	2.266	3.222	6.3	19.5
4 21	12 32.34	+ 9 54.1	2.324	3.233	9.0	19.7
5 1	12 26.18	+ 9 27.5	2.407	3.244	11.5	19.9
5 11	12 21.83	+ 8 47.4	2.511	3.255	13.7	20.0

146180 2000 SY_{312} 4 2.4 141°.22 4°.8/ 9.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.45	−25 21.4	2.999	3.751	11.0	20.3
3 12	13 2.83	−25 30.1	2.918	3.761	9.1	20.2
3 22	12 55.89	−25 22.4	2.860	3.772	7.0	20.1
4 1	12 48.19	−24 58.6	2.829	3.781	5.3	20.0
4 11	12 40.41	−24 20.8	2.827	3.791	4.8	20.0
4 21	12 33.20	−23 32.4	2.853	3.800	5.9	20.0
5 1	12 27.11	−22 38.3	2.908	3.808	7.8	20.2
5 11	12 22.58	−21 43.5	2.987	3.816	9.8	20.3

112682 2002 PX_{97} 4 2.4 178°.02 2°.1/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.38	− 0 59.1	1.881	2.746	12.2	19.9
3 12	13 6.05	− 0 24.5	1.812	2.747	8.6	19.7
3 22	12 57.81	+ 0 16.0	1.768	2.748	4.7	19.4
4 1	12 48.44	+ 0 57.0	1.753	2.749	2.1	19.3
4 11	12 38.97	+ 1 32.7	1.766	2.749	5.0	19.5
4 21	12 30.37	+ 1 58.1	1.807	2.749	9.0	19.7
5 1	12 23.47	+ 2 9.9	1.872	2.748	12.6	19.9
5 11	12 18.79	+ 2 6.6	1.958	2.747	15.6	20.1

12298 Brecht 4 2.4 180°.05 3°.8/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.40	−18 35.8	2.202	3.002	13.1	19.4
3 12	13 6.00	−18 33.8	2.117	3.004	10.2	19.2
3 22	12 57.78	−18 13.9	2.057	3.005	7.1	19.0
4 1	12 48.45	−17 37.2	2.024	3.006	4.3	18.8
4 11	12 38.94	−16 47.2	2.020	3.005	4.3	18.8
4 21	12 30.17	−15 49.3	2.045	3.004	6.9	19.0
5 1	12 22.94	−14 50.1	2.096	3.002	10.1	19.1
5 11	12 17.78	−13 55.7	2.172	2.999	13.0	19.3

150717 2001 QT_7 4 2.4 200°.83 1°.4/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 10.84	−11 34.2	2.322	3.152	11.5	21.0
3 12	13 4.79	−11 14.4	2.235	3.147	8.5	20.8
3 22	12 57.08	−10 42.0	2.173	3.142	5.1	20.6
4 1	12 48.37	− 9 59.3	2.141	3.136	1.8	20.4
4 11	12 39.47	− 9 10.8	2.138	3.130	3.1	20.4
4 21	12 31.22	− 8 21.4	2.164	3.123	6.7	20.7
5 1	12 24.33	− 7 36.3	2.217	3.114	10.0	20.8
5 11	12 19.32	− 6 59.8	2.294	3.106	12.9	21.0

452674 2005 WU_{161} 4 2.4 185°.92 1°.4/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.84	− 4 31.2	1.416	2.288	15.0	21.5
3 12	13 6.18	− 3 46.9	1.350	2.288	10.7	21.2
3 22	12 58.08	− 2 50.2	1.307	2.288	5.7	20.9
4 1	12 48.50	− 1 47.7	1.289	2.288	1.4	20.6
4 11	12 38.75	− 0 48.2	1.298	2.287	5.4	20.9
4 21	12 30.11	+ 0 0.5	1.333	2.286	10.4	21.2
5 1	12 23.61	+ 0 32.4	1.390	2.286	14.9	21.4
5 11	12 19.88	+ 0 44.6	1.467	2.284	18.6	21.7

375927 2009 WY_{52} 4 2.4 79°.28 5°.5/ 8.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.82	−23 43.4	1.872	2.664	15.3	20.1
3 12	13 2.97	−23 29.4	1.797	2.671	12.4	19.9
3 22	12 56.18	−22 50.2	1.743	2.678	9.2	19.8
4 1	12 48.26	−21 46.9	1.715	2.685	6.4	19.6
4 11	12 40.24	−20 24.4	1.713	2.692	5.6	19.6
4 21	12 33.10	−18 50.4	1.738	2.699	7.7	19.7
5 1	12 27.68	−17 14.1	1.788	2.707	10.8	19.9
5 11	12 24.49	−15 44.3	1.862	2.714	13.9	20.1

89972 2002 RB_{108} 4 2.4 107°.51 2°.2/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.43	−14 49.3	1.953	2.780	13.5	20.2
3 12	13 4.52	−14 9.0	1.893	2.802	10.0	20.0
3 22	12 56.89	−13 11.2	1.858	2.823	6.2	19.8
4 1	12 48.34	−11 59.8	1.850	2.843	2.7	19.6
4 11	12 39.84	−10 41.2	1.871	2.863	3.4	19.7
4 21	12 32.29	− 9 22.7	1.920	2.883	7.1	19.9
5 1	12 26.39	− 8 11.3	1.996	2.901	10.6	20.2
5 11	12 22.59	− 7 12.1	2.095	2.919	13.6	20.4

224544 2005 WD_{134} 4 2.4 104°.25 3°.4/30.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.44	+ 2 16.7	1.852	2.727	11.9	20.4
3 12	13 3.92	+ 3 11.5	1.795	2.734	8.4	20.2
3 22	12 56.61	+ 4 9.4	1.762	2.741	4.9	20.0
4 1	12 48.31	+ 5 3.7	1.758	2.748	3.5	20.0
4 11	12 39.99	+ 5 47.9	1.781	2.755	6.1	20.1
4 21	12 32.57	+ 6 17.3	1.831	2.762	9.7	20.4
5 1	12 26.78	+ 6 29.3	1.905	2.768	13.0	20.6
5 11	12 23.11	+ 6 23.3	1.998	2.775	15.8	20.8

79422 1997 MF_6 4 2.4 82°.05 3°.3/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.59	− 1 19.6	1.619	2.498	13.1	19.4
3 12	13 2.73	+ 0 26.2	1.571	2.513	9.1	19.2
3 22	12 55.99	+ 2 20.0	1.548	2.529	5.1	19.0
4 1	12 48.24	+ 4 12.1	1.552	2.544	3.5	18.9
4 11	12 40.54	+ 5 52.0	1.584	2.559	6.6	19.1
4 21	12 33.85	+ 7 12.0	1.643	2.575	10.5	19.4
5 1	12 28.95	+ 8 7.8	1.725	2.590	14.1	19.7
5 11	12 26.26	+ 8 38.5	1.826	2.605	17.0	19.9

101890 1999 NK_{55} 4 2.4 171°.17 8°.8/16.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.17	−43 42.6	3.291	3.883	12.8	19.3
3 12	13 5.76	−44 27.2	3.200	3.886	11.7	19.2
3 22	12 57.65	−44 50.5	3.127	3.889	10.6	19.1
4 1	12 48.46	−44 49.9	3.076	3.892	9.6	19.0
4 11	12 39.01	−44 25.2	3.047	3.894	8.9	19.0
4 21	12 30.17	−43 38.7	3.043	3.895	8.9	19.0
5 1	12 22.68	−42 34.6	3.064	3.896	9.4	19.0
5 11	12 17.08	−41 19.3	3.107	3.897	10.4	19.1

496820 1995 FM_{15} 4 2.4 352°.40 2°.7/31.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.45	+ 0 57.2	1.529	2.405	13.9	21.0
3 12	13 6.47	+ 1 13.5	1.463	2.403	9.8	20.8
3 22	12 58.19	+ 1 33.5	1.420	2.401	5.5	20.5
4 1	12 48.52	+ 1 51.8	1.404	2.400	2.7	20.3
4 11	12 38.71	+ 2 2.5	1.415	2.399	5.9	20.5
4 21	12 29.94	+ 2 1.1	1.451	2.398	10.4	20.8
5 1	12 23.20	+ 1 45.1	1.511	2.398	14.4	21.0
5 11	12 19.08	+ 1 13.7	1.590	2.398	17.8	21.2

473198 2015 KV_{83} 4 2.4 289°.06 5°.1/27.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.11	+ 8 41.2	2.202	3.080	10.2	21.0
3 12	13 1.44	+ 9 54.0	2.138	3.073	7.5	20.8
3 22	12 55.24	+11 5.3	2.100	3.066	5.4	20.7
4 1	12 48.16	+12 8.4	2.089	3.060	5.4	20.7
4 11	12 40.97	+12 57.2	2.107	3.053	7.4	20.8
4 21	12 34.45	+13 27.7	2.150	3.047	10.2	20.9
5 1	12 29.25	+13 38.1	2.216	3.040	12.8	21.1
5 11	12 25.83	+13 28.7	2.302	3.034	15.1	21.3

212634 2006 TB_{105} 4 2.4 293°.81 1°.7/31.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.05	− 1 43.8	2.149	3.016	10.8	20.5
3 12	13 2.18	− 1 5.9	2.069	3.006	7.6	20.3
3 22	12 55.70	− 0 21.7	2.015	2.996	4.1	20.1
4 1	12 48.23	+ 0 24.2	1.990	2.986	1.7	19.9
4 11	12 40.60	+ 1 6.2	1.992	2.976	4.5	20.1
4 21	12 33.61	+ 1 39.7	2.023	2.967	8.1	20.3
5 1	12 27.97	+ 2 1.0	2.078	2.957	11.4	20.4
5 11	12 24.18	+ 2 8.0	2.155	2.948	14.3	20.6

251539 2008 XQ_{43} 4 2.4 90°.46 16°.6/14.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 20.27	−37 9.0	1.186	1.922	25.4	20.1
3 12	13 13.67	−39 15.5	1.127	1.931	22.8	19.9
3 22	13 2.89	−40 41.5	1.083	1.941	20.1	19.7
4 1	12 49.17	−41 15.9	1.055	1.950	17.9	19.6
4 11	12 34.72	−40 54.7	1.046	1.959	16.6	19.5
4 21	12 21.95	−39 44.0	1.056	1.967	16.9	19.6
5 1	12 12.80	−37 58.3	1.086	1.976	18.5	19.7
5 11	12 8.22	−35 57.0	1.132	1.985	20.8	19.9

431484 2007 TU_{40} 4 2.4 262°.96 0°.4/ 2.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.10	− 8 57.7	2.243	3.091	11.2	21.4
3 12	13 2.24	− 8 20.1	2.150	3.074	8.1	21.2
3 22	12 55.75	− 7 30.3	2.082	3.058	4.6	20.9
4 1	12 48.24	− 6 31.7	2.043	3.041	0.8	20.6
4 11	12 40.50	− 5 29.6	2.032	3.024	3.3	20.8
4 21	12 33.33	− 4 29.7	2.050	3.007	7.1	21.0
5 1	12 27.45	− 3 37.5	2.094	2.990	10.6	21.2
5 11	12 23.39	− 2 57.2	2.161	2.972	13.6	21.3

468697 2009 VZ_{112} 4 2.4 345°.36 6°.4/ 8.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.69	−24 48.1	1.798	2.586	16.0	20.9
3 12	13 3.07	−24 50.0	1.716	2.585	13.1	20.7
3 22	12 56.34	−24 25.6	1.654	2.583	10.0	20.5
4 1	12 48.32	−23 34.9	1.617	2.582	7.3	20.3
4 11	12 40.07	−22 21.5	1.605	2.581	6.5	20.3
4 21	12 32.68	−20 53.0	1.620	2.580	8.3	20.4
5 1	12 27.07	−19 18.6	1.659	2.579	11.4	20.6
5 11	12 23.84	−17 48.1	1.721	2.578	14.6	20.8

184071 2004 GD_{17} 4 2.4 33°.41 10°.6/24.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.74	+15 24.9	1.201	2.096	15.4	19.3
3 12	13 3.27	+17 24.5	1.178	2.111	12.4	19.1
3 22	12 56.40	+19 9.1	1.176	2.127	10.7	19.1
4 1	12 48.31	+20 25.6	1.197	2.144	11.4	19.1
4 11	12 40.43	+21 5.6	1.240	2.162	13.8	19.3
4 21	12 33.96	+21 7.5	1.304	2.181	16.7	19.6
5 1	12 29.77	+20 34.4	1.385	2.200	19.5	19.8
5 11	12 28.29	+19 32.3	1.480	2.220	21.9	20.0

245465 2005 MN_{45} 4 2.4 270°.87 0°.6/ 1.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.07	− 5 24.6	2.359	3.215	10.4	21.3
3 12	13 2.16	− 4 48.7	2.266	3.196	7.4	21.0
3 22	12 55.70	− 4 3.8	2.198	3.177	4.0	20.8
4 1	12 48.26	− 3 13.6	2.159	3.158	0.6	20.5
4 11	12 40.59	− 2 23.3	2.149	3.138	3.5	20.7
4 21	12 33.45	− 1 37.6	2.168	3.119	7.2	20.9
5 1	12 27.53	− 1 1.1	2.213	3.099	10.5	21.0
5 11	12 23.33	− 0 36.7	2.280	3.079	13.4	21.2

127364 2002 JN_{134} 4 2.4 272°.29 0°.2/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.30	− 6 43.7	1.923	2.781	12.3	20.7
3 12	13 3.25	− 6 11.2	1.843	2.773	8.8	20.4
3 22	12 56.36	− 5 27.4	1.787	2.765	4.8	20.2
4 1	12 48.34	− 4 36.5	1.759	2.758	0.6	19.8
4 11	12 40.13	− 3 44.4	1.758	2.750	3.8	20.1
4 21	12 32.64	− 2 57.2	1.786	2.742	8.0	20.3
5 1	12 26.69	− 2 20.0	1.838	2.734	11.8	20.5
5 11	12 22.82	− 1 56.5	1.912	2.726	15.0	20.7

60156 1999 UK_{18} 4 2.4 229°.52 1°.2/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.27	− 4 6.3	2.034	2.897	11.5	19.8
3 12	13 3.11	− 3 22.2	1.958	2.892	8.2	19.5
3 22	12 56.23	− 2 29.2	1.906	2.887	4.4	19.3
4 1	12 48.33	− 1 32.3	1.883	2.881	1.2	19.0
4 11	12 40.27	− 0 37.5	1.889	2.876	4.2	19.3
4 21	12 32.93	+ 0 9.6	1.922	2.870	8.1	19.5
5 1	12 27.04	+ 0 44.4	1.980	2.864	11.7	19.7
5 11	12 23.12	+ 1 4.2	2.060	2.858	14.7	19.9

236024 2005 GQ_{128} 4 2.4 95°.71 4°.8/ 1.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 31.75	+ 6 24.0	0.978	1.853	19.9	18.9
3 12	13 21.03	+ 5 50.9	0.930	1.866	14.5	18.6
3 22	13 6.39	+ 5 11.0	0.902	1.879	8.5	18.3
4 1	12 49.58	+ 4 18.7	0.899	1.892	4.8	18.2
4 11	12 32.99	+ 3 11.7	0.922	1.905	8.4	18.4
4 21	12 18.80	+ 1 51.3	0.970	1.917	14.1	18.7
5 1	12 8.46	+ 0 20.3	1.039	1.929	19.2	19.1
5 11	12 2.46	− 1 18.4	1.126	1.941	23.3	19.4

153464 2001 RW_6 4 2.4 238°.61 0°.3/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 1.13	− 4 6.5	4.674	5.523	5.8	19.9
3 12	12 57.31	− 3 49.0	4.591	5.518	4.1	19.8
3 22	12 52.80	− 3 28.2	4.535	5.513	2.2	19.6
4 1	12 47.90	− 3 5.7	4.510	5.508	0.4	19.5
4 11	12 42.95	− 2 43.7	4.515	5.503	1.9	19.6
4 21	12 38.28	− 2 24.0	4.550	5.498	3.8	19.7
5 1	12 34.17	− 2 8.2	4.614	5.493	5.6	19.9
5 11	12 30.88	− 1 57.7	4.702	5.488	7.2	20.0

213015 1995 SE_{50} 4 2.4 285°.18 0°.8/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.13	−10 16.0	1.593	2.449	14.5	20.8
3 12	13 4.39	− 9 37.4	1.495	2.423	10.7	20.5
3 22	12 57.26	− 8 39.7	1.421	2.397	6.2	20.1
4 1	12 48.49	− 7 26.6	1.372	2.371	1.4	19.8
4 11	12 39.20	− 6 5.5	1.351	2.344	4.3	19.9
4 21	12 30.61	− 4 45.6	1.356	2.317	9.4	20.1
5 1	12 23.84	− 3 35.9	1.384	2.290	14.2	20.3
5 11	12 19.67	− 2 43.2	1.433	2.263	18.4	20.5

193099 2000 GW_{119} 4 2.4 165°.01 0°.1/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 15.07	− 6 53.7	1.713	2.565	13.9	21.2
3 12	13 8.17	− 6 35.7	1.644	2.571	10.0	21.0
3 22	12 59.08	− 6 6.1	1.598	2.575	5.5	20.7
4 1	12 48.69	− 5 29.0	1.580	2.579	0.7	20.4
4 11	12 38.18	− 4 50.0	1.591	2.582	4.1	20.6
4 21	12 28.67	− 4 15.3	1.629	2.585	8.7	20.9
5 1	12 21.09	− 3 49.9	1.693	2.587	12.7	21.2
5 11	12 16.03	− 3 37.4	1.777	2.588	16.1	21.4

126048 2001 YZ_{72} 4 2.4 92°.89 3°.0/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.92	+ 1 5.9	1.778	2.652	12.3	20.3
3 12	13 4.35	+ 1 54.8	1.719	2.659	8.7	20.1
3 22	12 56.91	+ 2 47.9	1.686	2.665	4.9	19.9
4 1	12 48.42	+ 3 38.8	1.679	2.672	3.1	19.8
4 11	12 39.90	+ 4 20.7	1.701	2.679	5.9	20.0
4 21	12 32.30	+ 4 48.9	1.749	2.685	9.7	20.2
5 1	12 26.42	+ 5 0.2	1.820	2.692	13.1	20.4
5 11	12 22.73	+ 4 54.0	1.912	2.698	16.0	20.6

356935 2012 TV_{56} 4 2.4 86°.91 0°.6/ 1.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.36	− 4 47.1	2.272	3.129	10.7	20.9
3 12	13 2.91	− 4 22.0	2.210	3.141	7.6	20.8
3 22	12 56.01	− 3 49.8	2.174	3.153	4.1	20.6
4 1	12 48.30	− 3 14.2	2.167	3.165	0.6	20.3
4 11	12 40.59	− 2 39.6	2.188	3.178	3.5	20.5
4 21	12 33.59	− 2 10.3	2.238	3.190	6.9	20.8
5 1	12 27.94	− 1 49.6	2.314	3.202	10.1	21.0
5 11	12 24.06	− 1 39.8	2.412	3.213	12.7	21.2

238295 2003 WA_{160} 4 2.4 139°.35 1°.3/ 1.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.39	− 3 10.5	2.123	2.986	11.1	21.1
3 12	13 3.07	− 2 32.6	2.055	2.989	7.8	20.9
3 22	12 56.16	− 1 47.7	2.013	2.993	4.2	20.7
4 1	12 48.33	− 1 0.4	1.998	2.996	1.3	20.5
4 11	12 40.43	− 0 16.0	2.013	2.999	4.1	20.7
4 21	12 33.25	+ 0 20.5	2.056	3.002	7.8	20.9
5 1	12 27.50	+ 0 45.6	2.123	3.005	11.1	21.1
5 11	12 23.63	+ 0 57.0	2.213	3.008	13.9	21.3

221142 2005 TP_{12} 4 2.4 126°.57 0°.5/ 1.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.13	− 6 8.8	2.254	3.104	11.1	21.9
3 12	13 4.14	− 5 23.4	2.194	3.122	7.8	21.7
3 22	12 56.66	− 4 29.1	2.161	3.139	4.2	21.5
4 1	12 48.39	− 3 30.5	2.156	3.155	0.6	21.3
4 11	12 40.15	− 2 33.0	2.182	3.171	3.5	21.5
4 21	12 32.69	− 1 41.8	2.237	3.187	7.1	21.8
5 1	12 26.64	− 1 1.0	2.318	3.201	10.2	22.0
5 11	12 22.42	− 0 33.1	2.422	3.215	12.9	22.2

230649 2003 SM_{27} 4 2.4 157°.90 1°.4/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.95	−11 29.9	2.239	3.075	11.7	21.1
3 12	13 3.45	−11 8.6	2.164	3.079	8.6	20.9
3 22	12 56.37	−10 34.5	2.113	3.083	5.1	20.7
4 1	12 48.36	− 9 50.6	2.091	3.087	1.8	20.5
4 11	12 40.26	− 9 1.3	2.097	3.090	3.1	20.6
4 21	12 32.85	− 8 11.8	2.133	3.093	6.6	20.8
5 1	12 26.83	− 7 27.4	2.195	3.096	9.9	21.0
5 11	12 22.66	− 6 52.0	2.279	3.098	12.8	21.2

238210 2003 UO_{55} 4 2.4 64°.61 3°.6/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.64	−17 52.0	1.894	2.713	14.2	20.1
3 12	13 3.38	−17 37.4	1.835	2.733	10.9	19.9
3 22	12 56.35	−17 3.3	1.798	2.753	7.3	19.7
4 1	12 48.35	−16 12.1	1.788	2.773	4.2	19.6
4 11	12 40.37	−15 9.1	1.805	2.794	4.1	19.6
4 21	12 33.32	−14 1.4	1.850	2.814	7.1	19.8
5 1	12 27.93	−12 55.9	1.920	2.835	10.4	20.0
5 11	12 24.65	−11 58.8	2.013	2.855	13.4	20.3

227468 2005 WJ_{135} 4 2.4 13°.03 8°.8/24.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.34	+14 57.6	1.550	2.434	13.3	19.4
3 12	13 3.47	+16 28.3	1.507	2.436	10.5	19.2
3 22	12 56.50	+17 49.2	1.487	2.438	8.9	19.1
4 1	12 48.38	+18 50.1	1.492	2.441	9.4	19.1
4 11	12 40.25	+19 23.6	1.521	2.445	11.6	19.3
4 21	12 33.20	+19 26.8	1.572	2.448	14.4	19.4
5 1	12 28.08	+19 0.6	1.643	2.453	17.2	19.6
5 11	12 25.36	+18 8.8	1.730	2.458	19.6	19.8

149760 2004 PR_{71} 4 2.4 330°.37 1°.3/ 3.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.05	− 9 13.5	1.377	2.245	15.6	19.6
3 12	13 3.77	− 9 9.2	1.296	2.229	11.5	19.3
3 22	12 56.96	− 8 48.8	1.237	2.214	6.8	19.0
4 1	12 48.47	− 8 15.3	1.202	2.199	1.8	18.6
4 11	12 39.55	− 7 35.0	1.192	2.186	4.4	18.8
4 21	12 31.55	− 6 55.2	1.206	2.174	9.7	19.0
5 1	12 25.61	− 6 23.5	1.244	2.162	14.5	19.3
5 11	12 22.49	− 6 5.6	1.300	2.151	18.7	19.5

234785 2002 PS_{188} 4 2.4 122°.85 1°.0/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.50	− 4 5.6	2.042	2.904	11.5	21.4
3 12	13 3.22	− 3 32.6	1.972	2.906	8.2	21.2
3 22	12 56.28	− 2 51.6	1.927	2.907	4.4	20.9
4 1	12 48.36	− 2 7.1	1.911	2.909	1.0	20.7
4 11	12 40.34	− 1 24.5	1.923	2.911	4.0	20.9
4 21	12 33.08	− 0 48.9	1.962	2.912	7.8	21.1
5 1	12 27.29	− 0 24.1	2.027	2.914	11.3	21.4
5 11	12 23.44	− 0 12.7	2.113	2.915	14.2	21.6

417568 2006 UB_{199} 4 2.4 263°.91 2°.7/31.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.93	+ 0 15.7	1.685	2.558	13.0	20.8
3 12	13 6.07	+ 0 50.3	1.608	2.546	9.3	20.6
3 22	12 58.02	+ 1 30.6	1.555	2.535	5.2	20.3
4 1	12 48.59	+ 2 10.5	1.529	2.524	2.7	20.1
4 11	12 38.89	+ 2 43.6	1.530	2.512	5.9	20.3
4 21	12 30.05	+ 3 4.3	1.558	2.500	10.2	20.5
5 1	12 23.04	+ 3 8.9	1.609	2.488	14.1	20.7
5 11	12 18.47	+ 2 56.1	1.680	2.476	17.5	20.9

42829 1999 NN_{39} 4 2.4 111°.92 1°.8/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.31	−11 29.5	1.669	2.512	14.6	18.4
3 12	13 6.90	−11 18.8	1.607	2.526	10.8	18.2
3 22	12 58.37	−10 52.3	1.568	2.539	6.4	18.0
4 1	12 48.62	−10 13.1	1.556	2.552	2.3	17.8
4 11	12 38.84	− 9 27.0	1.572	2.565	3.9	17.9
4 21	12 30.12	− 8 40.6	1.615	2.577	8.1	18.2
5 1	12 23.36	− 8 0.3	1.683	2.589	12.1	18.4
5 11	12 19.08	− 7 31.0	1.772	2.600	15.5	18.7

336534 2008 YO_{156} 4 2.4 101°.01 1°.2/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.86	− 3 38.1	2.303	3.162	10.5	21.7
3 12	13 2.50	− 2 47.1	2.248	3.181	7.3	21.5
3 22	12 55.76	− 1 49.5	2.220	3.200	3.9	21.3
4 1	12 48.29	− 0 50.2	2.221	3.218	1.2	21.1
4 11	12 40.86	+ 0 5.6	2.251	3.236	3.9	21.4
4 21	12 34.17	+ 0 53.0	2.310	3.254	7.2	21.6
5 1	12 28.81	+ 1 28.6	2.395	3.272	10.2	21.8
5 11	12 25.15	+ 1 50.4	2.502	3.289	12.7	22.0

3107 Weaver 4 2.4 251°.69 1°.1/ 3.3 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.37	−10 17.7	1.627	2.476	14.6	17.2
3 12	13 6.64	− 9 50.5	1.535	2.459	10.8	17.0
3 22	12 58.47	− 9 5.8	1.466	2.441	6.3	16.7
4 1	12 48.67	− 8 7.1	1.424	2.422	1.6	16.3
4 11	12 38.42	− 7 1.1	1.409	2.402	4.2	16.4
4 21	12 28.94	− 5 55.6	1.421	2.382	9.2	16.7
5 1	12 21.36	− 4 58.9	1.458	2.361	13.8	16.9
5 11	12 16.42	− 4 17.0	1.515	2.340	17.8	17.1

84092 2002 QR_{46} 4 2.4 201°.48 0°.0/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.57	− 7 10.4	2.161	3.007	11.6	20.7
3 12	13 5.41	− 6 39.4	2.078	3.002	8.3	20.5
3 22	12 57.51	− 5 57.7	2.021	2.997	4.6	20.2
4 1	12 48.54	− 5 9.3	1.992	2.991	0.6	19.9
4 11	12 39.38	− 4 19.2	1.994	2.984	3.5	20.1
4 21	12 30.93	− 3 32.9	2.024	2.977	7.4	20.3
5 1	12 23.94	− 2 55.2	2.080	2.969	11.0	20.5
5 11	12 18.93	− 2 29.5	2.159	2.960	14.0	20.7

402173 2004 SU_{44} 4 2.4 201°.45 3°.2/ 4.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.99	−14 43.8	1.751	2.579	14.7	21.7
3 12	13 7.57	−14 46.5	1.669	2.576	11.2	21.5
3 22	12 58.87	−14 31.1	1.610	2.572	7.3	21.2
4 1	12 48.72	−13 59.0	1.577	2.568	3.7	21.0
4 11	12 38.27	−13 14.6	1.572	2.563	4.3	21.0
4 21	12 28.70	−12 24.3	1.595	2.558	8.2	21.2
5 1	12 21.03	−11 35.4	1.643	2.551	12.2	21.4
5 11	12 15.89	−10 54.4	1.713	2.545	15.8	21.7

91484 1999 RL_{112} 4 2.4 231.°13 10.°5/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 16.47	−38 15.0	2.411	3.071	15.6	19.5
3 12	13 9.48	−39 29.1	2.311	3.060	14.1	19.4
3 22	13 0.05	−40 19.5	2.231	3.049	12.5	19.2
4 1	12 48.89	−40 41.3	2.173	3.037	11.2	19.1
4 11	12 37.11	−40 32.6	2.139	3.025	10.5	19.0
4 21	12 25.92	−39 55.6	2.129	3.013	10.9	19.0
5 1	12 16.46	−38 56.0	2.144	3.000	12.0	19.1
5 11	12 9.53	−37 42.5	2.180	2.986	13.7	19.2

503720 2016 JP_{28} 4 2.4 279.°00 6.°9/26.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.59	+10 43.2	1.801	2.681	11.9	21.4
3 12	13 3.63	+12 15.5	1.729	2.663	9.1	21.2
3 22	12 56.67	+13 45.9	1.682	2.644	7.1	21.1
4 1	12 48.45	+15 4.9	1.662	2.625	7.4	21.0
4 11	12 39.97	+16 4.1	1.669	2.606	9.8	21.1
4 21	12 32.25	+16 38.0	1.700	2.587	12.9	21.3
5 1	12 26.19	+16 44.7	1.752	2.567	16.0	21.4
5 11	12 22.37	+16 25.4	1.821	2.548	18.7	21.6

6801 Střekov 4 2.4 170.°36 1.°9/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.38	− 2 20.2	1.617	2.483	13.8	17.4
3 12	13 7.77	− 1 42.1	1.551	2.487	9.8	17.2
3 22	12 58.91	− 0 55.8	1.509	2.490	5.3	16.9
4 1	12 48.73	− 0 7.2	1.495	2.492	1.9	16.7
4 11	12 38.43	+ 0 36.5	1.508	2.494	5.4	16.9
4 21	12 29.18	+ 1 9.2	1.548	2.495	9.8	17.2
5 1	12 21.93	+ 1 26.8	1.612	2.495	13.9	17.4
5 11	12 17.24	+ 1 27.2	1.696	2.495	17.3	17.6

427919 2005 UF_{397} 4 2.4 164.°93 3.°1/30.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.76	+ 3 27.6	2.193	3.057	10.8	21.6
3 12	13 6.10	+ 4 2.6	2.128	3.062	7.6	21.4
3 22	12 57.81	+ 4 38.7	2.090	3.066	4.5	21.2
4 1	12 48.58	+ 5 11.1	2.081	3.070	3.2	21.1
4 11	12 39.32	+ 5 34.8	2.102	3.074	5.5	21.3
4 21	12 30.85	+ 5 46.6	2.150	3.077	8.7	21.5
5 1	12 23.88	+ 5 44.4	2.224	3.079	11.7	21.7
5 11	12 18.87	+ 5 27.9	2.319	3.081	14.3	21.9

69998 1998 XD 4 2.4 66.°97 4.°6/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.53	+ 6 7.3	1.904	2.780	11.5	19.1
3 12	13 3.80	+ 7 14.2	1.870	2.808	8.2	19.0
3 22	12 56.49	+ 8 19.3	1.862	2.835	5.4	18.9
4 1	12 48.41	+ 9 15.5	1.882	2.862	4.8	18.9
4 11	12 40.49	+ 9 57.0	1.930	2.890	7.0	19.1
4 21	12 33.56	+10 20.4	2.004	2.917	10.0	19.3
5 1	12 28.25	+10 24.7	2.101	2.944	12.8	19.5
5 11	12 24.94	+10 10.9	2.218	2.970	15.1	19.7

414892 2010 XS_{15} 4 2.4 33.°98 2.°1/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.86	− 2 6.7	1.435	2.314	14.4	20.7
3 12	13 4.67	− 1 28.1	1.379	2.320	10.2	20.5
3 22	12 57.24	− 0 41.1	1.345	2.327	5.5	20.2
4 1	12 48.52	+ 0 7.6	1.338	2.335	2.1	20.0
4 11	12 39.76	+ 0 50.1	1.356	2.343	5.7	20.3
4 21	12 32.11	+ 1 20.2	1.400	2.351	10.3	20.5
5 1	12 26.51	+ 1 33.7	1.466	2.360	14.4	20.8
5 11	12 23.48	+ 1 29.0	1.551	2.368	17.8	21.1

120279 2004 HG_{18} 4 2.4 27.°60 16.°4/28.0 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 30.85	+27 15.1	0.950	1.808	21.8	18.4
3 12	13 20.54	+27 47.0	0.912	1.812	18.9	18.3
3 22	13 6.12	+27 42.2	0.891	1.816	16.8	18.1
4 1	12 49.61	+26 46.9	0.891	1.820	16.6	18.1
4 11	12 33.64	+24 57.4	0.911	1.825	18.4	18.3
4 21	12 20.43	+22 22.1	0.952	1.831	21.3	18.4
5 1	12 11.32	+19 15.2	1.011	1.837	24.5	18.7
5 11	12 6.63	+15 51.4	1.085	1.843	27.3	18.9

29329 Knobelsdorff 4 2.4 83.°67 0.°9/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.01	− 4 40.0	1.372	2.242	15.6	18.5
3 12	13 7.66	− 4 15.2	1.318	2.255	11.0	18.3
3 22	12 58.88	− 3 39.3	1.288	2.268	5.9	18.0
4 1	12 48.73	− 2 58.3	1.283	2.282	1.0	17.7
4 11	12 38.60	− 2 19.5	1.305	2.295	5.1	18.0
4 21	12 29.76	− 1 49.5	1.352	2.308	10.0	18.3
5 1	12 23.22	− 1 33.3	1.422	2.321	14.4	18.6
5 11	12 19.48	− 1 33.3	1.511	2.334	17.9	18.9

485138 2010 OD 4 2.4 242.°37 4.°1/ 7.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.36	−21 22.2	2.885	3.663	10.8	21.8
3 12	13 2.96	−21 31.3	2.782	3.649	8.7	21.6
3 22	12 56.13	−21 25.7	2.703	3.635	6.4	21.5
4 1	12 48.39	−21 5.5	2.651	3.620	4.5	21.3
4 11	12 40.42	−20 32.6	2.629	3.605	4.2	21.3
4 21	12 32.89	−19 50.4	2.635	3.590	5.9	21.3
5 1	12 26.45	−19 3.5	2.670	3.574	8.3	21.5
5 11	12 21.57	−18 16.7	2.728	3.558	10.6	21.6

25797 2000 CG_{82} 4 2.4 220.°05 1.°6/ 4.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 6.55	−12 31.1	3.006	3.829	9.3	18.9
3 12	13 1.51	−12 21.7	2.916	3.823	7.0	18.8
3 22	12 55.26	−12 2.5	2.852	3.817	4.3	18.6
4 1	12 48.28	−11 35.1	2.817	3.810	1.9	18.4
4 11	12 41.17	−11 2.3	2.812	3.803	2.5	18.4
4 21	12 34.51	−10 27.5	2.836	3.796	5.2	18.6
5 1	12 28.83	− 9 54.5	2.889	3.789	7.8	18.8
5 11	12 24.55	− 9 26.4	2.966	3.782	10.2	18.9

148913 2001 XE_{34} 4 2.4 71.°45 6.°4/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.12	−22 35.4	1.737	2.533	16.2	19.5
3 12	13 6.23	−23 5.7	1.669	2.544	13.1	19.3
3 22	12 58.11	−23 12.5	1.621	2.555	9.8	19.1
4 1	12 48.64	−22 55.2	1.598	2.566	7.1	19.0
4 11	12 39.02	−22 16.7	1.602	2.577	6.5	19.0
4 21	12 30.39	−21 23.3	1.631	2.588	8.6	19.1
5 1	12 23.72	−20 23.3	1.685	2.599	11.6	19.3
5 11	12 19.58	−19 25.1	1.761	2.610	14.6	19.5

54427 2000 LG_{27} 4 2.4 256.°42 3.°5/ 6.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.71	−17 23.6	2.365	3.173	12.0	18.6
3 12	13 3.40	−17 29.6	2.272	3.164	9.4	18.4
3 22	12 56.44	−17 20.4	2.204	3.155	6.5	18.2
4 1	12 48.44	−16 56.7	2.163	3.146	3.9	18.0
4 11	12 40.20	−16 21.4	2.150	3.137	3.9	18.0
4 21	12 32.54	−15 38.9	2.166	3.127	6.5	18.1
5 1	12 26.19	−14 54.5	2.208	3.117	9.5	18.3
5 11	12 21.68	−14 13.5	2.274	3.108	12.3	18.5

379185 2009 RP_{52} 4 2.4 209.°42 0.°4/ 2.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.35	− 8 55.4	1.770	2.629	13.2	20.6
3 12	13 1.94	− 7 35.5	1.697	2.629	9.4	20.4
3 22	12 55.68	− 5 59.0	1.650	2.629	5.1	20.1
4 1	12 48.34	− 4 12.7	1.629	2.628	0.6	19.8
4 11	12 40.88	− 2 25.8	1.638	2.628	4.2	20.0
4 21	12 34.24	− 0 47.4	1.674	2.628	8.6	20.3
5 1	12 29.23	+ 0 35.1	1.735	2.628	12.5	20.5
5 11	12 26.34	+ 1 37.0	1.817	2.628	15.8	20.8

202418 2005 UV_{179} 4 2.4 123.°20 0.°5/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.18	− 9 56.6	1.548	2.401	15.0	21.5
3 12	13 6.19	− 9 5.6	1.488	2.415	10.8	21.3
3 22	12 58.02	− 7 57.4	1.452	2.428	6.1	21.0
4 1	12 48.63	− 6 38.0	1.442	2.441	1.1	20.7
4 11	12 39.23	− 5 16.2	1.461	2.453	4.2	20.9
4 21	12 30.97	− 4 0.7	1.506	2.465	8.9	21.3
5 1	12 24.73	− 2 58.8	1.575	2.476	13.1	21.5
5 11	12 21.04	− 2 15.0	1.665	2.486	16.6	21.8

109795 2001 RM_{92} 4 2.4 234.°18 0.°0/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.96	− 6 44.0	2.363	3.213	10.6	20.0
3 12	13 2.75	− 6 18.0	2.280	3.206	7.6	19.8
3 22	12 56.03	− 5 43.0	2.222	3.199	4.2	19.5
4 1	12 48.39	− 5 2.3	2.193	3.192	0.5	19.2
4 11	12 40.59	− 4 20.3	2.193	3.184	3.2	19.4
4 21	12 33.38	− 3 41.7	2.222	3.176	6.8	19.7
5 1	12 27.44	− 3 10.6	2.277	3.168	10.0	19.8
5 11	12 23.22	− 2 50.0	2.355	3.160	12.8	20.0

497728 2006 SH_{171} 4 2.4 143.°88 0.°0/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.11	− 7 52.7	2.722	3.566	9.6	22.3
3 12	13 1.19	− 7 6.5	2.651	3.575	6.8	22.1
3 22	12 55.06	− 6 11.4	2.607	3.584	3.7	21.9
4 1	12 48.26	− 5 11.0	2.593	3.592	0.5	21.6
4 11	12 41.42	− 4 10.0	2.608	3.599	2.8	21.9
4 21	12 35.15	− 3 13.0	2.654	3.607	5.9	22.1
5 1	12 29.97	− 2 23.7	2.726	3.613	8.7	22.3
5 11	12 26.26	− 1 45.2	2.823	3.620	11.1	22.4

12629 Jandeboer 4 2.4 195.°58 1.°1/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.78	− 6 15.1	1.866	2.727	12.5	18.4
3 12	13 3.61	− 4 59.5	1.792	2.725	8.9	18.1
3 22	12 56.59	− 3 30.6	1.742	2.723	4.7	17.9
4 1	12 48.46	− 1 54.9	1.721	2.720	1.1	17.6
4 11	12 40.20	− 0 21.1	1.729	2.716	4.6	17.9
4 21	12 32.74	+ 1 3.0	1.765	2.713	8.8	18.1
5 1	12 26.87	+ 2 11.0	1.826	2.708	12.6	18.3
5 11	12 23.13	+ 2 59.4	1.908	2.704	15.7	18.5

467835 2010 SS_3 4 2.4 285.°25 0.°1/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.66	−21 1.8	0.836	1.699	23.6	22.8
3 12	13 3.54	−17 44.6	0.738	1.668	18.1	22.3
3 22	12 57.61	−12 52.8	0.659	1.637	10.7	21.7
4 1	12 48.68	− 6 28.4	0.605	1.604	1.6	21.0
4 11	12 38.54	+ 0 54.6	0.579	1.571	8.6	21.3
4 21	12 29.38	+ 8 16.0	0.580	1.537	18.7	21.6
5 1	12 23.28	+14 37.8	0.604	1.503	27.6	21.9
5 11	12 21.52	+19 31.4	0.644	1.470	34.8	22.2

244092 2001 UV_{78} 4 2.4 225°.96 0°.1/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 5.84	− 7 59.3	2.454	3.303	10.3	21.2
3 12	13 1.20	− 7 8.4	2.371	3.297	7.4	21.0
3 22	12 55.16	− 6 6.8	2.313	3.290	4.1	20.8
4 1	12 48.28	− 4 58.5	2.285	3.284	0.5	20.5
4 11	12 41.28	− 3 48.8	2.286	3.277	3.1	20.7
4 21	12 34.84	− 2 43.1	2.316	3.269	6.6	20.9
5 1	12 29.58	− 1 46.4	2.373	3.262	9.8	21.1
5 11	12 25.93	− 1 2.2	2.453	3.254	12.5	21.3

252958 2002 PM_{116} 4 2.4 208°.85 3°.1/ 5.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.89	−16 9.6	1.954	2.775	13.7	20.8
3 12	13 5.18	−15 56.4	1.868	2.770	10.5	20.5
3 22	12 57.50	−15 24.7	1.806	2.765	6.9	20.3
4 1	12 48.59	−14 36.3	1.770	2.760	3.7	20.1
4 11	12 39.44	−13 35.8	1.763	2.753	4.0	20.1
4 21	12 31.05	−12 29.9	1.783	2.747	7.4	20.3
5 1	12 24.29	−11 25.6	1.830	2.739	11.1	20.5
5 11	12 19.74	−10 29.7	1.899	2.732	14.4	20.7

334893 2003 WT_{31} 4 2.4 160°.59 3°.4/ 6.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.01	−18 28.3	2.294	3.101	12.4	21.6
3 12	13 2.84	−18 9.7	2.213	3.104	9.6	21.4
3 22	12 56.09	−17 33.5	2.156	3.107	6.6	21.2
4 1	12 48.40	−16 41.6	2.127	3.110	3.9	21.1
4 11	12 40.61	−15 38.2	2.125	3.113	3.8	21.1
4 21	12 33.49	−14 28.9	2.153	3.115	6.4	21.2
5 1	12 27.75	−13 20.2	2.207	3.117	9.4	21.4
5 11	12 23.84	−12 17.8	2.285	3.119	12.2	21.6

328305 Jackmcdevitt 4 2.4 277°.92 3°.6/29.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.65	+ 1 43.9	1.830	2.705	12.0	20.9
3 12	13 4.46	+ 2 47.8	1.740	2.679	8.6	20.6
3 22	12 57.20	+ 3 58.3	1.674	2.653	5.1	20.4
4 1	12 48.56	+ 5 8.5	1.636	2.627	3.7	20.2
4 11	12 39.55	+ 6 10.2	1.626	2.600	6.6	20.3
4 21	12 31.18	+ 6 56.8	1.643	2.573	10.6	20.5
5 1	12 24.40	+ 7 23.8	1.683	2.545	14.5	20.7
5 11	12 19.88	+ 7 29.4	1.742	2.517	17.8	20.8

408402 2013 GE_{112} 4 2.4 20°.43 1°.2/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.47	− 3 16.1	1.335	2.210	15.6	20.6
3 12	13 7.50	− 3 5.4	1.273	2.212	11.1	20.3
3 22	12 58.92	− 2 45.5	1.232	2.214	6.0	20.1
4 1	12 48.77	− 2 21.6	1.217	2.216	1.2	19.7
4 11	12 38.47	− 2 0.2	1.228	2.218	5.3	20.0
4 21	12 29.37	− 1 47.4	1.264	2.221	10.5	20.3
5 1	12 22.57	− 1 47.5	1.322	2.225	15.0	20.6
5 11	12 18.71	− 2 2.8	1.399	2.228	18.8	20.8

187466 2005 YR_{171} 4 2.4 237°.65 1°.6/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.65	− 2 48.7	2.380	3.237	10.3	21.1
3 12	13 4.01	− 1 53.3	2.287	3.219	7.3	20.9
3 22	12 56.77	− 0 49.8	2.220	3.199	3.9	20.6
4 1	12 48.51	+ 0 17.0	2.183	3.179	1.6	20.4
4 11	12 40.00	+ 1 21.2	2.176	3.158	4.3	20.6
4 21	12 32.03	+ 2 17.6	2.198	3.137	7.8	20.7
5 1	12 25.32	+ 3 1.5	2.246	3.114	11.1	20.9
5 11	12 20.37	+ 3 30.4	2.316	3.091	13.9	21.1

142081 2002 QD_{46} 4 2.4 306°.09 0°.9/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.66	− 8 52.2	1.395	2.261	15.6	19.9
3 12	13 5.03	− 8 38.9	1.307	2.239	11.5	19.6
3 22	12 57.75	− 8 8.9	1.240	2.217	6.7	19.3
4 1	12 48.66	− 7 25.4	1.198	2.196	1.5	18.9
4 11	12 39.01	− 6 35.3	1.181	2.175	4.6	19.0
4 21	12 30.19	− 5 46.5	1.189	2.154	10.1	19.3
5 1	12 23.44	− 5 7.2	1.220	2.134	15.1	19.5
5 11	12 19.58	− 4 43.4	1.270	2.114	19.4	19.7

272389 2005 SY_{269} 4 2.4 168°.10 4°.6/ 7.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.48	−21 25.3	2.283	3.068	13.1	21.6
3 12	13 5.37	−21 30.7	2.200	3.073	10.5	21.4
3 22	12 57.51	−21 17.3	2.140	3.076	7.6	21.2
4 1	12 48.60	−20 45.5	2.108	3.080	5.2	21.1
4 11	12 39.52	−19 58.4	2.104	3.082	4.8	21.1
4 21	12 31.16	−19 1.1	2.128	3.084	6.9	21.2
5 1	12 24.29	−18 0.0	2.179	3.086	9.7	21.4
5 11	12 19.42	−17 1.5	2.254	3.087	12.4	21.6

418380 2008 HF_{9} 4 2.4 32°.92 4°.9/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.38	+ 2 10.6	1.378	2.269	14.1	20.6
3 12	13 2.22	+ 3 52.8	1.330	2.277	9.9	20.3
3 22	12 55.91	+ 5 40.2	1.306	2.285	6.1	20.1
4 1	12 48.39	+ 7 21.6	1.307	2.294	5.2	20.1
4 11	12 40.87	+ 8 45.8	1.334	2.303	8.3	20.3
4 21	12 34.45	+ 9 45.4	1.386	2.313	12.4	20.6
5 1	12 30.01	+10 17.0	1.458	2.324	16.1	20.8
5 11	12 28.03	+10 21.1	1.548	2.335	19.2	21.1

428752 2008 SG_{46} 4 2.4 192°.09 0°.4/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.72	− 6 36.5	2.258	3.111	10.9	21.6
3 12	13 2.61	− 5 47.6	2.181	3.109	7.8	21.4
3 22	12 55.96	− 4 48.6	2.129	3.108	4.2	21.2
4 1	12 48.41	− 3 43.8	2.107	3.106	0.6	20.9
4 11	12 40.75	− 2 39.1	2.114	3.104	3.5	21.1
4 21	12 33.74	− 1 39.9	2.150	3.101	7.2	21.3
5 1	12 28.05	− 0 51.0	2.211	3.098	10.5	21.5
5 11	12 24.14	− 0 15.7	2.296	3.094	13.3	21.7

43901 1995 VX_{2} 4 2.4 267°.14 0°.2/ 2.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.11	− 8 15.4	1.696	2.553	13.7	20.3
3 12	13 4.92	− 7 38.8	1.606	2.535	10.0	20.0
3 22	12 57.50	− 6 46.8	1.540	2.517	5.6	19.7
4 1	12 48.63	− 5 43.9	1.500	2.499	0.8	19.3
4 11	12 39.37	− 4 37.0	1.487	2.480	4.2	19.5
4 21	12 30.85	− 3 33.8	1.502	2.460	9.0	19.7
5 1	12 24.08	− 2 41.6	1.541	2.441	13.4	20.0
5 11	12 19.75	− 2 5.4	1.600	2.421	17.2	20.1

255642 2006 QG_{12} 4 2.4 208°.88 1°.3/ 1.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.57	− 3 37.0	2.063	2.921	11.6	21.5
3 12	13 5.50	− 2 54.9	1.983	2.914	8.2	21.3
3 22	12 57.62	− 2 4.4	1.928	2.907	4.4	21.0
4 1	12 48.64	− 1 10.3	1.902	2.899	1.3	20.8
4 11	12 39.46	− 0 18.5	1.905	2.891	4.3	21.0
4 21	12 31.00	+ 0 25.6	1.936	2.882	8.3	21.2
5 1	12 24.06	+ 0 57.4	1.993	2.872	11.8	21.4
5 11	12 19.17	+ 1 14.4	2.072	2.861	14.9	21.6

42069 2000 YG_{135} 4 2.4 82°.97 3°.6/30.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.01	+ 0 10.8	1.451	2.333	14.1	18.6
3 12	13 4.71	+ 1 28.8	1.401	2.344	9.9	18.3
3 22	12 57.25	+ 2 53.5	1.374	2.355	5.6	18.1
4 1	12 48.58	+ 4 15.6	1.374	2.366	3.8	18.0
4 11	12 39.93	+ 5 25.5	1.400	2.377	7.0	18.2
4 21	12 32.43	+ 6 16.2	1.451	2.388	11.2	18.5
5 1	12 26.94	+ 6 43.9	1.525	2.399	15.1	18.8
5 11	12 23.97	+ 6 48.2	1.617	2.410	18.2	19.0

295851 2008 VJ_{59} 4 2.4 196°.15 1°.0/ 3.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.36	−10 30.0	1.705	2.551	14.2	21.8
3 12	13 6.39	− 9 55.6	1.627	2.549	10.4	21.6
3 22	12 58.23	− 9 4.6	1.572	2.546	6.0	21.3
4 1	12 48.72	− 8 1.1	1.545	2.543	1.5	21.0
4 11	12 39.00	− 6 52.0	1.546	2.539	3.9	21.1
4 21	12 30.18	− 5 45.1	1.574	2.534	8.5	21.4
5 1	12 23.22	− 4 47.7	1.628	2.529	12.8	21.6
5 11	12 18.72	− 4 5.0	1.702	2.523	16.3	21.8

92561 2000 OK_{46} 4 2.4 202°.62 2°.9/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.76	− 0 44.7	1.786	2.656	12.5	19.0
3 12	13 5.10	+ 0 27.1	1.715	2.653	8.8	18.8
3 22	12 57.46	+ 1 46.9	1.669	2.649	4.9	18.5
4 1	12 48.62	+ 3 7.3	1.650	2.644	2.9	18.4
4 11	12 39.62	+ 4 20.1	1.661	2.639	6.0	18.6
4 21	12 31.47	+ 5 18.3	1.698	2.633	10.0	18.8
5 1	12 25.02	+ 5 57.4	1.759	2.626	13.7	19.0
5 11	12 20.84	+ 6 15.6	1.840	2.619	16.8	19.2

327381 2005 UW_{371} 4 2.4 255°.66 3°.4/30.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.84	+ 2 49.4	1.934	2.804	11.7	21.2
3 12	13 5.84	+ 3 28.5	1.852	2.789	8.4	20.9
3 22	12 57.88	+ 4 10.6	1.796	2.774	4.9	20.7
4 1	12 48.68	+ 4 50.0	1.767	2.758	3.4	20.6
4 11	12 39.22	+ 5 20.5	1.767	2.742	6.1	20.7
4 21	12 30.49	+ 5 37.6	1.794	2.726	9.8	20.9
5 1	12 23.36	+ 5 38.3	1.846	2.709	13.3	21.1
5 11	12 18.42	+ 5 22.0	1.917	2.692	16.4	21.2

132089 2002 CG_{173} 4 2.4 4°.22 3°.0/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.52	− 0 31.3	1.185	2.075	16.1	19.4
3 12	13 5.59	+ 0 3.5	1.128	2.074	11.4	19.1
3 22	12 57.96	+ 0 46.1	1.091	2.074	6.3	18.9
4 1	12 48.69	+ 1 28.7	1.078	2.075	3.0	18.7
4 11	12 39.27	+ 2 2.4	1.090	2.076	6.8	18.9
4 21	12 31.12	+ 2 20.3	1.125	2.078	12.0	19.2
5 1	12 25.38	+ 2 18.5	1.181	2.081	16.6	19.4
5 11	12 22.65	+ 1 56.0	1.255	2.085	20.5	19.7

175839 1999 TA_{178} 4 2.4 143°.87 0°.5/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.18	− 9 32.4	1.758	2.609	13.6	20.6
3 12	13 4.66	− 8 47.2	1.690	2.616	9.8	20.4
3 22	12 57.19	− 7 46.8	1.646	2.622	5.5	20.1
4 1	12 48.58	− 6 36.4	1.629	2.628	1.0	19.8
4 11	12 39.89	− 5 23.1	1.640	2.633	3.8	20.0
4 21	12 32.12	− 4 14.5	1.679	2.638	8.2	20.3
5 1	12 26.10	− 3 17.2	1.743	2.643	12.2	20.5
5 11	12 22.34	− 2 35.5	1.829	2.647	15.5	20.8

350164 2011 TB_6 4 2.4 187°.68 3°.1/29.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 6.61	+ 5 13.4	3.004	3.870	8.1	22.1
3 12	13 1.49	+ 6 5.2	2.936	3.869	5.8	21.9
3 22	12 55.23	+ 6 57.4	2.895	3.868	3.7	21.8
4 1	12 48.34	+ 7 45.7	2.884	3.866	3.2	21.8
4 11	12 41.38	+ 8 26.1	2.903	3.864	4.9	21.9
4 21	12 34.92	+ 8 55.5	2.950	3.861	7.2	22.0
5 1	12 29.46	+ 9 12.2	3.024	3.858	9.5	22.2
5 11	12 25.34	+ 9 15.4	3.119	3.854	11.5	22.3

502764 2015 DZ_{73} 4 2.4 72°.15 1°.0/ 3.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.36	− 9 41.1	1.891	2.740	12.9	21.5
3 12	13 4.01	− 9 24.1	1.820	2.743	9.4	21.3
3 22	12 56.83	− 8 54.0	1.772	2.747	5.5	21.1
4 1	12 48.55	− 8 14.3	1.752	2.750	1.5	20.8
4 11	12 40.15	− 7 30.2	1.760	2.753	3.5	21.0
4 21	12 32.57	− 6 47.4	1.796	2.757	7.5	21.2
5 1	12 26.60	− 6 11.4	1.856	2.760	11.3	21.4
5 11	12 22.76	− 5 46.3	1.939	2.764	14.4	21.7

463137 2011 WZ_{90} 4 2.4 88°.68 4°.9/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.13	+ 4 0.2	1.504	2.385	13.8	21.5
3 12	13 6.05	+ 5 17.6	1.463	2.404	9.8	21.3
3 22	12 57.90	+ 6 36.0	1.447	2.424	6.1	21.1
4 1	12 48.67	+ 7 46.2	1.457	2.443	5.0	21.1
4 11	12 39.58	+ 8 39.8	1.495	2.462	7.8	21.3
4 21	12 31.71	+ 9 12.0	1.557	2.480	11.6	21.5
5 1	12 25.89	+ 9 20.8	1.641	2.499	15.0	21.8
5 11	12 22.55	+ 9 7.6	1.744	2.516	17.9	22.0

469400 2001 UU_{63} 4 2.4 126°.25 0°.9/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.21	−10 21.8	2.260	3.095	11.6	22.9
3 12	13 4.96	− 9 52.5	2.197	3.113	8.4	22.8
3 22	12 57.19	− 9 11.5	2.160	3.131	4.9	22.6
4 1	12 48.59	− 8 22.2	2.151	3.149	1.3	22.3
4 11	12 40.00	− 7 29.5	2.173	3.165	3.0	22.5
4 21	12 32.21	− 6 38.7	2.223	3.181	6.6	22.7
5 1	12 25.87	− 5 54.4	2.301	3.196	9.8	23.0
5 11	12 21.39	− 5 20.3	2.402	3.210	12.5	23.2

203366 2001 VD_{125} 4 2.4 138°.28 1°.7/ 1.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.87	− 2 20.4	1.757	2.618	13.1	20.7
3 12	13 7.90	− 1 45.3	1.698	2.631	9.3	20.5
3 22	12 58.92	− 1 3.0	1.663	2.643	5.0	20.2
4 1	12 48.81	− 0 19.1	1.657	2.655	1.7	20.0
4 11	12 38.71	+ 0 20.2	1.680	2.665	4.9	20.3
4 21	12 29.65	+ 0 49.5	1.730	2.675	9.1	20.5
5 1	12 22.48	+ 1 5.2	1.805	2.685	12.8	20.8
5 11	12 17.70	+ 1 5.7	1.900	2.693	15.9	21.0

285438 1999 VP_{151} 4 2.4 124°.25 0°.9/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.76	− 4 5.5	2.163	3.020	11.2	21.2
3 12	13 4.02	− 3 32.0	2.100	3.031	7.9	21.0
3 22	12 56.72	− 2 51.2	2.062	3.042	4.2	20.8
4 1	12 48.54	− 2 7.4	2.053	3.052	0.9	20.5
4 11	12 40.34	− 1 25.7	2.074	3.061	3.8	20.8
4 21	12 32.91	− 0 50.7	2.122	3.071	7.4	21.0
5 1	12 26.91	− 0 26.2	2.197	3.080	10.7	21.2
5 11	12 22.79	− 0 14.1	2.293	3.089	13.4	21.4

382763 2003 OS_{30} 4 2.4 180°.05 2°.3/ 5.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.62	−15 23.0	2.813	3.621	10.3	22.2
3 12	13 3.76	−15 11.6	2.727	3.623	7.8	22.0
3 22	12 56.54	−14 47.8	2.667	3.624	5.1	21.9
4 1	12 48.53	−14 13.0	2.635	3.624	2.7	21.7
4 11	12 40.40	−13 30.5	2.634	3.624	3.0	21.7
4 21	12 32.82	−12 44.3	2.663	3.623	5.5	21.9
5 1	12 26.37	−11 58.7	2.720	3.621	8.2	22.0
5 11	12 21.49	−11 18.0	2.802	3.619	10.7	22.2

145438 2005 QM_{94} 4 2.4 238°.57 0°.2/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.84	− 6 36.6	2.639	3.487	9.7	20.9
3 12	13 1.88	− 6 3.5	2.550	3.476	6.9	20.7
3 22	12 55.56	− 5 22.0	2.487	3.465	3.8	20.4
4 1	12 48.42	− 4 35.2	2.454	3.453	0.5	20.1
4 11	12 41.12	− 3 47.5	2.450	3.441	3.0	20.3
4 21	12 34.32	− 3 3.1	2.476	3.428	6.3	20.5
5 1	12 28.62	− 2 26.0	2.528	3.416	9.3	20.7
5 11	12 24.46	− 1 59.0	2.604	3.403	11.9	20.9

372536 2009 TR_3 4 2.4 118°.93 0°.5/ 2.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.82	− 9 11.7	2.069	2.915	12.1	21.7
3 12	13 4.13	− 8 36.3	2.006	2.929	8.7	21.5
3 22	12 56.80	− 7 49.0	1.967	2.942	4.9	21.3
4 1	12 48.57	− 6 53.7	1.957	2.956	1.0	21.1
4 11	12 40.33	− 5 56.1	1.976	2.969	3.3	21.3
4 21	12 32.90	− 5 2.1	2.023	2.981	7.1	21.5
5 1	12 26.99	− 4 16.6	2.097	2.993	10.5	21.8
5 11	12 23.04	− 3 43.2	2.193	3.005	13.4	22.0

488570 2001 XH_{138} 4 2.4 93°.91 2°.7/30.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 11.32	+ 0 19.9	1.927	2.794	11.9	21.8
3 12	13 5.12	+ 1 18.6	1.884	2.820	8.3	21.6
3 22	12 57.28	+ 2 21.1	1.866	2.846	4.6	21.4
4 1	12 48.62	+ 3 21.1	1.878	2.870	2.8	21.4
4 11	12 40.10	+ 4 12.1	1.918	2.895	5.4	21.6
4 21	12 32.55	+ 4 49.6	1.985	2.919	8.9	21.8
5 1	12 26.65	+ 5 11.0	2.077	2.942	12.0	22.1
5 11	12 22.80	+ 5 15.5	2.190	2.965	14.6	22.3

390929 2005 GP_{21} 4 2.4 182°.36 2°.0/ 2.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 49.56	− 3 50.8	0.734	1.593	26.4	22.0
3 12	13 36.31	− 5 22.5	0.671	1.599	19.7	21.6
3 22	13 16.25	− 6 51.2	0.625	1.601	11.5	21.2
4 1	12 51.18	− 8 12.0	0.604	1.602	2.7	20.7
4 11	12 24.91	− 9 21.1	0.608	1.600	8.3	21.0
4 21	12 1.68	−10 18.7	0.636	1.595	17.2	21.4
5 1	11 44.46	−11 10.5	0.684	1.587	24.8	21.8
5 11	11 34.12	−12 4.2	0.747	1.578	30.7	22.2

457756 2009 HL_{83} 4 2.4 305°.84 8°.6/26.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.68	+11 33.7	1.379	2.266	14.4	20.4
3 12	13 6.63	+12 56.5	1.294	2.230	11.2	20.1
3 22	12 58.76	+14 17.5	1.231	2.195	8.9	19.9
4 1	12 48.88	+15 24.7	1.193	2.159	9.1	19.8
4 11	12 38.32	+16 6.4	1.179	2.124	12.1	19.8
4 21	12 28.57	+16 15.6	1.186	2.088	16.2	19.9
5 1	12 20.96	+15 50.0	1.213	2.053	20.3	20.1
5 11	12 16.38	+14 51.9	1.255	2.019	24.0	20.2

81630 2000 HT_{76} 4 2.4 303°.86 5°.9/28.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.35	+ 6 57.8	1.522	2.407	13.4	18.7
3 12	13 5.25	+ 7 58.2	1.446	2.386	9.9	18.4
3 22	12 57.77	+ 8 59.1	1.392	2.366	6.7	18.2
4 1	12 48.73	+ 9 51.7	1.365	2.345	6.1	18.1
4 11	12 39.33	+10 27.2	1.362	2.325	8.9	18.2
4 21	12 30.80	+10 40.1	1.384	2.306	12.9	18.4
5 1	12 24.21	+10 27.7	1.428	2.286	16.8	18.6
5 11	12 20.25	+ 9 51.1	1.488	2.267	20.2	18.7

146207 2000 UH_{71} 4 2.4 142°.74 1°.6/ 4.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.63	−13 13.5	2.805	3.628	9.9	20.7
3 12	13 1.60	−12 49.1	2.730	3.637	7.4	20.5
3 22	12 55.34	−12 13.3	2.680	3.645	4.6	20.3
4 1	12 48.39	−11 28.4	2.659	3.652	1.9	20.2
4 11	12 41.39	−10 38.3	2.667	3.660	2.6	20.2
4 21	12 34.94	− 9 47.1	2.706	3.667	5.4	20.4
5 1	12 29.57	− 8 59.1	2.772	3.673	8.1	20.6
5 11	12 25.67	− 8 17.9	2.862	3.679	10.5	20.8

82181 2001 HV_{19} 4 2.4 163°.21 0°.6/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.13	− 5 47.7	1.957	2.812	12.3	20.8
3 12	13 5.19	− 5 7.5	1.887	2.817	8.7	20.6
3 22	12 57.46	− 4 17.0	1.843	2.821	4.7	20.4
4 1	12 48.68	− 3 21.2	1.826	2.825	0.7	20.1
4 11	12 39.80	− 2 26.1	1.839	2.829	4.0	20.3
4 21	12 31.76	− 1 37.6	1.880	2.831	8.0	20.6
5 1	12 25.31	− 1 0.5	1.946	2.834	11.7	20.8
5 11	12 20.97	− 0 37.8	2.034	2.835	14.7	21.0

491015 2011 LS_{14} 4 2.4 297°.48 2°.5/ 3.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 15.82	−10 44.6	1.312	2.167	17.1	22.2
3 12	13 10.22	−10 57.5	1.199	2.123	13.1	21.8
3 22	13 1.16	−10 53.0	1.106	2.079	8.1	21.4
4 1	12 49.25	−10 31.1	1.037	2.033	3.1	20.9
4 11	12 35.88	− 9 55.4	0.994	1.987	5.4	20.9
4 21	12 22.80	− 9 13.1	0.975	1.940	11.7	21.1
5 1	12 11.88	− 8 33.7	0.978	1.893	17.9	21.3
5 11	12 4.47	− 8 6.5	0.999	1.845	23.4	21.4

469838 2005 TR_8 4 2.4 222°.42 3°.3/29.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.93	+ 7 5.5	2.894	3.752	8.6	22.4
3 12	13 5.32	+ 7 24.8	2.815	3.743	6.3	22.2
3 22	12 57.39	+ 7 42.3	2.763	3.734	4.0	22.0
4 1	12 48.68	+ 7 54.6	2.742	3.724	3.3	22.0
4 11	12 39.87	+ 7 58.3	2.752	3.714	5.0	22.1
4 21	12 31.60	+ 7 51.6	2.791	3.704	7.5	22.2
5 1	12 24.46	+ 7 33.2	2.857	3.693	9.9	22.4
5 11	12 18.86	+ 7 3.3	2.945	3.682	12.0	22.5

371918 2008 DX_{81} 4 2.4 255°.83 0°.5/ 1.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.37	− 3 24.4	4.389	5.239	6.1	20.9
3 12	12 58.27	− 3 10.4	4.307	5.235	4.3	20.7
3 22	12 53.44	− 2 53.3	4.253	5.232	2.3	20.6
4 1	12 48.18	− 2 34.9	4.230	5.228	0.5	20.4
4 11	12 42.87	− 2 17.1	4.237	5.224	2.1	20.6
4 21	12 37.85	− 2 1.9	4.274	5.221	4.1	20.7
5 1	12 33.45	− 1 51.0	4.339	5.217	5.9	20.8
5 11	12 29.93	− 1 45.6	4.428	5.213	7.6	21.0

203307 2001 SP_{319} 4 2.4 267.°52 0.°0/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 13.10	− 6 57.5	1.496	2.358	15.0	20.9
3 12	13 7.38	− 6 36.1	1.407	2.339	10.9	20.6
3 22	12 59.05	− 6 0.3	1.342	2.320	6.1	20.2
4 1	12 48.94	− 5 14.3	1.302	2.301	0.8	19.8
4 11	12 38.30	− 4 25.1	1.289	2.281	4.7	20.0
4 21	12 28.50	− 3 40.1	1.302	2.261	10.0	20.3
5 1	12 20.74	− 3 6.5	1.338	2.240	14.9	20.5
5 11	12 15.81	− 2 49.1	1.394	2.220	19.0	20.7

148820 2001 UW_{127} 4 2.4 164.°33 1.°2/31.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.64	− 3 31.6	2.471	3.325	10.1	20.4
3 12	13 3.82	− 2 40.3	2.401	3.332	7.1	20.2
3 22	12 56.60	− 1 42.1	2.359	3.338	3.8	20.0
4 1	12 48.59	− 0 41.5	2.346	3.343	1.2	19.8
4 11	12 40.53	+ 0 16.0	2.363	3.348	3.8	20.0
4 21	12 33.12	+ 1 6.0	2.410	3.352	7.1	20.3
5 1	12 26.97	+ 1 44.8	2.484	3.355	10.1	20.5
5 11	12 22.50	+ 2 10.1	2.580	3.358	12.6	20.6

507421 2012 PS_{30} 4 2.4 266.°32 0.°2/ 2.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.06	− 6 19.7	2.183	3.029	11.5	21.1
3 12	13 6.71	− 6 14.7	2.081	3.004	8.4	20.9
3 22	12 58.44	− 6 1.2	2.003	2.979	4.7	20.6
4 1	12 48.86	− 5 41.6	1.955	2.954	0.7	20.2
4 11	12 38.87	− 5 19.7	1.936	2.928	3.5	20.4
4 21	12 29.41	− 4 59.8	1.946	2.901	7.6	20.6
5 1	12 21.35	− 4 45.9	1.983	2.874	11.3	20.8
5 11	12 15.33	− 4 41.5	2.042	2.846	14.6	20.9

75403 1999 XH_{102} 4 2.4 185.°76 3.°0/ 5.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.46	−15 45.9	1.973	2.794	13.6	19.7
3 12	13 5.58	−15 32.5	1.891	2.794	10.4	19.5
3 22	12 57.76	−15 1.3	1.834	2.794	6.8	19.3
4 1	12 48.75	−14 14.2	1.803	2.793	3.5	19.0
4 11	12 39.56	−13 15.8	1.800	2.791	3.9	19.1
4 21	12 31.15	−12 12.7	1.826	2.789	7.3	19.3
5 1	12 24.38	−11 11.8	1.878	2.786	10.9	19.5
5 11	12 19.81	−10 19.2	1.953	2.783	14.2	19.7

458785 2011 SH_{128} 4 2.5 131.°03 0.°3/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.54	− 9 56.4	1.622	2.475	14.4	21.8
3 12	13 5.04	− 8 57.5	1.558	2.485	10.4	21.6
3 22	12 57.47	− 7 41.6	1.518	2.494	5.8	21.4
4 1	12 48.71	− 6 14.6	1.504	2.503	0.9	21.0
4 11	12 39.90	− 4 45.4	1.519	2.511	4.1	21.3
4 21	12 32.11	− 3 22.8	1.561	2.519	8.7	21.6
5 1	12 26.21	− 2 14.3	1.627	2.527	12.9	21.8
5 11	12 22.70	− 1 24.3	1.715	2.534	16.3	22.1

489596 2007 TN_{160} 4 2.5 127.°59 2.°7/30.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.50	+ 4 10.5	2.761	3.619	9.0	21.7
3 12	13 4.93	+ 4 36.0	2.705	3.636	6.4	21.6
3 22	12 57.12	+ 5 1.4	2.677	3.652	3.8	21.4
4 1	12 48.66	+ 5 23.2	2.679	3.667	2.7	21.3
4 11	12 40.24	+ 5 37.9	2.711	3.682	4.5	21.5
4 21	12 32.49	+ 5 43.2	2.773	3.696	7.1	21.7
5 1	12 25.95	+ 5 37.7	2.862	3.710	9.6	21.9
5 11	12 20.98	+ 5 21.2	2.973	3.723	11.7	22.0

150961 2001 TL_{158} 4 2.5 216.°13 0.°0/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.44	− 7 48.9	1.959	2.811	12.4	20.9
3 12	13 4.11	− 7 6.7	1.878	2.806	8.9	20.7
3 22	12 56.94	− 6 11.9	1.823	2.800	4.9	20.5
4 1	12 48.66	− 5 8.9	1.795	2.794	0.6	20.1
4 11	12 40.19	− 4 4.0	1.797	2.788	3.7	20.3
4 21	12 32.46	− 3 3.8	1.826	2.781	7.9	20.6
5 1	12 26.27	− 2 14.1	1.880	2.774	11.7	20.8
5 11	12 22.15	− 1 38.7	1.956	2.767	14.9	21.0

466103 2012 CF_{34} 4 2.5 129.°21 0.°4/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.32	− 8 34.9	1.836	2.684	13.2	22.1
3 12	13 6.10	− 8 2.5	1.773	2.698	9.5	21.9
3 22	12 57.98	− 7 17.4	1.735	2.710	5.3	21.7
4 1	12 48.79	− 6 23.9	1.724	2.723	0.9	21.4
4 11	12 39.58	− 5 28.2	1.742	2.734	3.7	21.6
4 21	12 31.32	− 4 36.8	1.788	2.746	7.9	21.9
5 1	12 24.82	− 3 55.1	1.860	2.756	11.7	22.2
5 11	12 20.55	− 3 26.7	1.953	2.766	14.8	22.4

288768 2004 RD_{95} 4 2.5 120.°84 1.°0/ 3.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.21	−11 36.1	1.928	2.763	13.3	21.4
3 12	13 6.56	−10 44.3	1.871	2.788	9.6	21.2
3 22	12 58.15	− 9 37.3	1.839	2.811	5.6	21.0
4 1	12 48.81	− 8 19.9	1.836	2.833	1.5	20.8
4 11	12 39.55	− 6 59.3	1.862	2.854	3.4	21.0
4 21	12 31.30	− 5 42.7	1.917	2.875	7.4	21.2
5 1	12 24.78	− 4 36.4	1.998	2.894	11.0	21.5
5 11	12 20.42	− 3 44.7	2.103	2.912	14.0	21.7

154699 2004 JT_8 4 2.5 240.°37 1.°6/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.01	− 0 57.3	2.513	3.372	9.7	20.4
3 12	13 3.47	− 0 32.7	2.430	3.363	6.9	20.2
3 22	12 56.48	− 0 3.8	2.374	3.353	3.7	20.0
4 1	12 48.61	+ 0 25.7	2.347	3.344	1.6	19.8
4 11	12 40.59	+ 0 51.9	2.350	3.334	3.9	19.9
4 21	12 33.13	+ 1 11.0	2.382	3.323	7.2	20.1
5 1	12 26.86	+ 1 20.5	2.439	3.313	10.1	20.3
5 11	12 22.25	+ 1 18.5	2.520	3.302	12.7	20.5

428836 2008 TZ_{182} 4 2.5 200.°33 1.°8/31.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.21	− 1 19.2	2.060	2.924	11.3	21.3
3 12	13 4.52	− 0 48.2	1.988	2.923	8.0	21.1
3 22	12 57.12	− 0 11.5	1.941	2.921	4.4	20.9
4 1	12 48.70	+ 0 26.0	1.923	2.920	1.8	20.7
4 11	12 40.16	+ 0 59.2	1.934	2.918	4.6	20.9
4 21	12 32.36	+ 1 23.7	1.972	2.916	8.2	21.1
5 1	12 26.05	+ 1 36.0	2.035	2.913	11.6	21.3
5 11	12 21.73	+ 1 34.7	2.120	2.911	14.5	21.5

113280 2002 RQ_{159} 4 2.5 278.°64 0.°5/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.14	− 8 37.6	2.034	2.885	12.1	20.2
3 12	13 3.14	− 8 12.4	1.954	2.880	8.7	19.9
3 22	12 56.40	− 7 35.3	1.900	2.875	5.0	19.7
4 1	12 48.61	− 6 49.9	1.872	2.871	1.0	19.4
4 11	12 40.65	− 6 1.4	1.873	2.866	3.4	19.6
4 21	12 33.38	− 5 15.2	1.902	2.861	7.4	19.8
5 1	12 27.57	− 4 36.7	1.956	2.856	11.0	20.0
5 11	12 23.73	− 4 9.7	2.032	2.852	14.1	20.2

332144 2005 XC_{42} 4 2.5 143.°10 2.°4/ 4.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.82	−14 44.3	2.045	2.871	13.0	21.9
3 12	13 4.28	−14 21.1	1.972	2.879	9.8	21.7
3 22	12 56.99	−13 41.2	1.923	2.886	6.2	21.5
4 1	12 48.69	−12 47.5	1.900	2.893	2.9	21.3
4 11	12 40.30	−11 45.0	1.907	2.899	3.5	21.3
4 21	12 32.69	−10 40.2	1.942	2.905	6.9	21.6
5 1	12 26.63	− 9 39.4	2.003	2.910	10.4	21.8
5 11	12 22.60	− 8 48.1	2.087	2.915	13.4	22.0

81552 2000 HH_{25} 4 2.5 356.°55 0.°1/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.13	− 7 13.4	2.020	2.875	11.9	19.9
3 12	13 3.10	− 6 47.5	1.946	2.874	8.6	19.7
3 22	12 56.36	− 6 11.0	1.897	2.874	4.7	19.5
4 1	12 48.61	− 5 27.8	1.875	2.874	0.6	19.2
4 11	12 40.74	− 4 43.1	1.882	2.874	3.5	19.4
4 21	12 33.59	− 4 2.2	1.916	2.874	7.5	19.6
5 1	12 27.91	− 3 29.9	1.976	2.874	11.0	19.9
5 11	12 24.19	− 3 9.5	2.058	2.874	14.0	20.1

51303 2000 KR_{56} 4 2.5 287.°05 3.°1/ 6.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.38	−17 33.0	2.142	2.959	12.8	18.2
3 12	13 1.88	−17 8.0	2.056	2.954	9.9	18.0
3 22	12 55.72	−16 24.5	1.992	2.948	6.6	17.7
4 1	12 48.53	−15 24.5	1.956	2.943	3.7	17.5
4 11	12 41.18	−14 12.8	1.947	2.937	3.7	17.5
4 21	12 34.47	−12 55.8	1.967	2.932	6.7	17.7
5 1	12 29.16	−11 40.4	2.012	2.926	10.0	17.9
5 11	12 25.75	−10 33.1	2.082	2.921	13.1	18.1

363298 2002 KL_3 4 2.5 163.°52 7.°8/24.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 21.38	+20 26.8	2.524	3.357	10.6	23.4
3 12	13 12.09	+21 59.3	2.481	3.371	8.8	23.3
3 22	13 1.10	+23 20.3	2.467	3.382	7.8	23.3
4 1	12 49.22	+24 22.2	2.483	3.392	8.2	23.3
4 11	12 37.39	+25 0.2	2.528	3.400	9.7	23.4
4 21	12 26.51	+25 12.9	2.601	3.406	11.6	23.5
5 1	12 17.30	+25 1.6	2.696	3.410	13.5	23.7
5 11	12 10.21	+24 29.5	2.810	3.412	15.1	23.8

194080 2001 SE_{156} 4 2.5 79.°16 2.°7/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.97	−15 54.3	1.373	2.214	17.3	20.0
3 12	13 6.20	−15 3.9	1.325	2.240	12.9	19.8
3 22	12 58.12	−13 48.7	1.298	2.265	8.0	19.6
4 1	12 48.83	−12 14.5	1.297	2.291	3.4	19.4
4 11	12 39.70	−10 31.5	1.322	2.315	4.3	19.5
4 21	12 31.92	− 8 50.9	1.373	2.340	8.8	19.8
5 1	12 26.39	− 7 22.7	1.449	2.364	13.1	20.1
5 11	12 23.55	− 6 13.3	1.545	2.388	16.7	20.4

375960 2009 WO_{195} 4 2.5 177.°33 2.°2/ 4.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.77	−14 19.2	2.198	3.022	12.3	21.6
3 12	13 4.20	−13 58.3	2.118	3.024	9.2	21.4
3 22	12 56.95	−13 22.0	2.062	3.025	5.8	21.2
4 1	12 48.70	−12 32.8	2.034	3.026	2.7	21.0
4 11	12 40.32	−11 35.4	2.035	3.026	3.3	21.1
4 21	12 32.64	−10 35.4	2.064	3.026	6.7	21.3
5 1	12 26.38	− 9 38.7	2.120	3.026	10.0	21.5
5 11	12 22.05	− 8 50.5	2.200	3.025	13.0	21.7

508722 2017 UF_{27} 4 2.5 45°.51 3°.4/30.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 12.47	+ 5 18.4	2.129	2.996	10.9	20.3
3 12	13 5.98	+ 5 30.6	2.069	3.003	7.8	20.1
3 22	12 57.85	+ 5 41.6	2.035	3.010	4.7	19.9
4 1	12 48.81	+ 5 47.2	2.029	3.017	3.4	19.9
4 11	12 39.77	+ 5 43.6	2.053	3.025	5.6	20.0
4 21	12 31.57	+ 5 28.6	2.104	3.033	8.7	20.2
5 1	12 24.89	+ 5 1.1	2.180	3.041	11.7	20.4
5 11	12 20.20	+ 4 21.6	2.278	3.049	14.2	20.6

139235 2001 HY_{20} 4 2.5 300°.43 0°.6/ 2.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.77	− 5 12.2	1.482	2.352	14.6	19.8
3 12	13 5.68	− 4 51.3	1.398	2.334	10.5	19.5
3 22	12 58.11	− 4 18.4	1.337	2.317	5.8	19.2
4 1	12 48.88	− 3 38.1	1.301	2.300	0.8	18.8
4 11	12 39.22	− 2 57.2	1.292	2.283	4.9	19.1
4 21	12 30.41	− 2 22.8	1.308	2.267	10.0	19.3
5 1	12 23.58	− 2 1.0	1.347	2.250	14.7	19.5
5 11	12 19.48	− 1 55.7	1.405	2.235	18.7	19.7

497266 2005 JB_{155} 4 2.5 250°.67 0°.4/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.14	− 6 13.8	1.864	2.720	12.7	22.3
3 12	13 5.52	− 5 39.7	1.775	2.705	9.2	22.0
3 22	12 57.85	− 4 53.9	1.710	2.688	5.0	21.7
4 1	12 48.84	− 4 0.6	1.673	2.672	0.7	21.4
4 11	12 39.51	− 3 6.1	1.664	2.655	4.1	21.6
4 21	12 30.87	− 2 16.7	1.683	2.637	8.6	21.8
5 1	12 23.86	− 1 38.3	1.727	2.619	12.7	22.0
5 11	12 19.10	− 1 14.6	1.792	2.600	16.1	22.2

472225 2014 FD_{51} 4 2.5 305°.77 0°.4/ 2.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.08	− 4 35.0	2.265	3.121	10.8	21.1
3 12	13 3.64	− 4 22.2	2.188	3.118	7.7	20.9
3 22	12 56.62	− 4 2.5	2.137	3.115	4.2	20.7
4 1	12 48.67	− 3 39.1	2.113	3.112	0.6	20.4
4 11	12 40.58	− 3 16.0	2.119	3.110	3.4	20.6
4 21	12 33.13	− 2 57.0	2.154	3.107	7.1	20.8
5 1	12 27.02	− 2 45.7	2.214	3.104	10.3	21.0
5 11	12 22.72	− 2 44.2	2.297	3.102	13.1	21.2

311278 2005 EW_{255} 4 2.5 132°.04 0°.7/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.09	− 9 43.4	1.839	2.685	13.4	21.3
3 12	13 5.95	− 9 6.0	1.776	2.698	9.7	21.1
3 22	12 57.92	− 8 14.5	1.737	2.711	5.5	20.9
4 1	12 48.83	− 7 13.5	1.725	2.723	1.2	20.6
4 11	12 39.72	− 6 9.5	1.742	2.735	3.6	20.8
4 21	12 31.55	− 5 9.2	1.788	2.746	7.8	21.1
5 1	12 25.13	− 4 18.8	1.859	2.757	11.6	21.4
5 11	12 20.93	− 3 42.1	1.951	2.766	14.8	21.6

388348 2006 TR_{108} 4 2.5 167°.27 2°.7/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.73	+ 2 56.8	2.850	3.715	8.5	22.0
3 12	13 1.66	+ 3 50.1	2.785	3.719	6.0	21.8
3 22	12 55.42	+ 4 45.2	2.747	3.723	3.6	21.7
4 1	12 48.52	+ 5 37.6	2.738	3.726	2.7	21.6
4 11	12 41.58	+ 6 23.1	2.760	3.729	4.6	21.8
4 21	12 35.17	+ 6 58.3	2.811	3.731	7.1	21.9
5 1	12 29.80	+ 7 20.9	2.887	3.733	9.6	22.1
5 11	12 25.84	+ 7 30.0	2.985	3.735	11.6	22.2

125045 2001 TK_{211} 4 2.5 314°.31 3°.4/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.47	−23 55.0	4.408	5.158	7.8	19.5
3 12	12 59.87	−24 12.7	4.314	5.157	6.4	19.4
3 22	12 54.39	−24 20.1	4.245	5.156	4.9	19.3
4 1	12 48.39	−24 17.4	4.204	5.156	3.8	19.2
4 11	12 42.29	−24 5.6	4.193	5.155	3.4	19.2
4 21	12 36.48	−23 46.6	4.210	5.154	4.2	19.3
5 1	12 31.36	−23 22.8	4.256	5.153	5.6	19.4
5 11	12 27.23	−22 57.1	4.327	5.153	7.1	19.5

410411 2007 YS_{36} 4 2.5 150°.67 2°.9/ 5.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.61	−15 0.0	1.865	2.691	14.1	21.8
3 12	13 6.44	−14 51.8	1.792	2.698	10.7	21.6
3 22	12 58.27	−14 26.1	1.743	2.705	6.9	21.4
4 1	12 48.90	−13 44.8	1.720	2.711	3.4	21.2
4 11	12 39.40	−12 52.9	1.725	2.716	3.9	21.2
4 21	12 30.79	−11 56.8	1.758	2.721	7.5	21.4
5 1	12 23.94	−11 3.3	1.817	2.726	11.2	21.7
5 11	12 19.39	−10 18.3	1.899	2.730	14.5	21.9

383324 2006 JU_{18} 4 2.5 25°.44 8°.0/26.7 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.47	+15 41.5	1.727	2.599	12.8	20.5
3 12	13 6.29	+16 32.8	1.680	2.603	10.1	20.4
3 22	12 58.12	+17 13.4	1.657	2.607	8.2	20.3
4 1	12 48.87	+17 35.8	1.659	2.612	8.3	20.3
4 11	12 39.67	+17 34.7	1.688	2.617	10.2	20.4
4 21	12 31.55	+17 8.6	1.740	2.623	12.9	20.6
5 1	12 25.32	+16 19.1	1.814	2.628	15.6	20.7
5 11	12 21.44	+15 9.7	1.905	2.635	17.9	20.9

327337 2005 UN_{154} 4 2.5 283°.83 1°.4/ 3.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.99	−11 5.6	1.749	2.598	13.8	20.6
3 12	13 4.15	−10 39.7	1.657	2.579	10.2	20.3
3 22	12 57.18	− 9 56.9	1.587	2.560	6.1	20.0
4 1	12 48.78	− 9 0.4	1.544	2.541	1.9	19.7
4 11	12 40.00	− 7 56.1	1.528	2.522	3.8	19.8
4 21	12 31.92	− 6 51.5	1.540	2.503	8.4	20.0
5 1	12 25.51	− 5 54.1	1.575	2.483	12.7	20.2
5 11	12 21.45	− 5 9.7	1.632	2.464	16.4	20.4

225570 2000 TL_{63} 4 2.5 266°.95 5°.8/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.48	−24 37.1	1.982	2.764	14.9	19.9
3 12	13 3.70	−24 27.4	1.882	2.748	12.3	19.7
3 22	12 56.88	−23 52.5	1.803	2.732	9.3	19.5
4 1	12 48.74	−22 52.0	1.749	2.715	6.7	19.3
4 11	12 40.25	−21 29.4	1.721	2.698	5.9	19.2
4 21	12 32.44	−19 51.6	1.721	2.681	7.9	19.3
5 1	12 26.24	−18 7.7	1.747	2.664	11.1	19.4
5 11	12 22.29	−16 27.3	1.796	2.647	14.4	19.6

435909 2009 BB_{50} 4 2.5 70°.18 4°.6/28.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.01	+ 6 8.9	1.996	2.873	11.0	21.5
3 12	13 2.84	+ 7 21.1	1.955	2.892	7.9	21.3
3 22	12 56.13	+ 8 32.3	1.939	2.911	5.3	21.2
4 1	12 48.61	+ 9 35.2	1.951	2.930	4.8	21.2
4 11	12 41.17	+10 23.9	1.991	2.949	7.0	21.4
4 21	12 34.60	+10 54.6	2.057	2.968	9.9	21.6
5 1	12 29.52	+11 5.8	2.147	2.987	12.6	21.8
5 11	12 26.33	+10 58.1	2.256	3.005	14.9	22.0

415881 2001 ST_{337} 4 2.5 138°.49 0°.4/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.48	− 6 1.0	2.036	2.888	12.0	21.7
3 12	13 5.39	− 5 30.3	1.971	2.899	8.5	21.5
3 22	12 57.59	− 4 50.1	1.931	2.909	4.6	21.2
4 1	12 48.82	− 4 4.7	1.919	2.918	0.6	21.0
4 11	12 40.00	− 3 19.5	1.937	2.927	3.7	21.2
4 21	12 32.01	− 2 39.8	1.982	2.935	7.6	21.5
5 1	12 25.58	− 2 9.8	2.054	2.943	11.1	21.7
5 11	12 21.18	− 1 52.3	2.148	2.950	14.0	21.9

306336 2011 SU_{121} 4 2.5 257°.02 0°.0/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.39	− 7 4.4	1.547	2.406	14.7	21.7
3 12	13 7.54	− 6 40.2	1.459	2.390	10.7	21.4
3 22	12 59.15	− 6 1.7	1.394	2.373	6.0	21.1
4 1	12 49.05	− 5 13.3	1.356	2.355	0.8	20.7
4 11	12 38.49	− 4 21.7	1.345	2.337	4.6	20.9
4 21	12 28.75	− 3 34.4	1.360	2.318	9.8	21.1
5 1	12 21.00	− 2 58.4	1.399	2.299	14.5	21.4
5 11	12 16.00	− 2 38.4	1.457	2.279	18.5	21.6

33097 1997 YB_{7} 4 2.5 188°.02 5°.5/28.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.73	+ 6 41.9	1.764	2.640	12.3	18.6
3 12	13 5.83	+ 8 7.3	1.703	2.640	9.0	18.4
3 22	12 57.94	+ 9 33.0	1.668	2.639	6.2	18.2
4 1	12 48.87	+10 50.2	1.661	2.638	5.8	18.2
4 11	12 39.71	+11 50.5	1.681	2.636	8.3	18.3
4 21	12 31.46	+12 28.8	1.727	2.633	11.7	18.5
5 1	12 24.99	+12 42.9	1.795	2.630	14.9	18.7
5 11	12 20.81	+12 33.6	1.881	2.626	17.7	18.9

315997 2009 DQ_{117} 4 2.5 282°.96 0°.3/ 2.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.37	− 8 29.0	1.551	2.411	14.6	20.9
3 12	13 5.42	− 7 54.3	1.457	2.387	10.7	20.6
3 22	12 58.02	− 7 2.6	1.385	2.363	6.1	20.3
4 1	12 48.92	− 5 57.9	1.340	2.339	0.9	19.8
4 11	12 39.29	− 4 47.9	1.321	2.314	4.5	20.0
4 21	12 30.40	− 3 41.1	1.329	2.289	9.7	20.3
5 1	12 23.38	− 2 45.7	1.360	2.264	14.5	20.5
5 11	12 19.03	− 2 7.8	1.410	2.239	18.7	20.7

122271 2000 OD_{61} 4 2.5 169°.76 6°.7/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.59	−26 59.8	2.171	2.928	14.6	19.3
3 12	13 5.72	−27 20.5	2.087	2.931	12.2	19.2
3 22	12 57.90	−27 18.5	2.024	2.933	9.6	19.0
4 1	12 48.88	−26 52.8	1.986	2.935	7.5	18.9
4 11	12 39.64	−26 5.5	1.975	2.936	6.7	18.8
4 21	12 31.15	−25 1.7	1.991	2.938	8.0	18.9
5 1	12 24.28	−23 48.6	2.032	2.938	10.4	19.0
5 11	12 19.59	−22 34.4	2.098	2.939	12.9	19.2

501312 2013 WJ_{86} 4 2.5 151°.76 2°.2/ 5.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.84	−16 45.8	2.406	3.218	11.7	22.0
3 12	13 2.68	−15 55.2	2.328	3.226	8.9	21.8
3 22	12 56.06	−14 47.7	2.275	3.234	5.7	21.6
4 1	12 48.63	−13 26.4	2.250	3.241	2.8	21.4
4 11	12 41.16	−11 56.9	2.256	3.248	3.1	21.4
4 21	12 34.35	−10 25.6	2.291	3.254	6.1	21.6
5 1	12 28.85	− 8 59.2	2.354	3.259	9.2	21.8
5 11	12 25.06	− 7 43.1	2.442	3.264	11.9	22.0

396689 2002 TA_{98} 4 2.5 271.°92 1.°6/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 11.93	− 4 25.1	1.328	2.204	15.6	21.5
3 12	13 6.71	− 3 41.0	1.251	2.190	11.2	21.2
3 22	12 58.77	− 2 42.6	1.195	2.177	6.1	20.9
4 1	12 49.03	− 1 36.8	1.165	2.163	1.6	20.5
4 11	12 38.86	− 0 33.0	1.160	2.149	5.8	20.7
4 21	12 29.69	+ 0 19.8	1.180	2.135	11.3	21.0
5 1	12 22.75	+ 0 54.4	1.222	2.121	16.2	21.2
5 11	12 18.79	+ 1 7.1	1.282	2.107	20.4	21.5

365181 2009 FC_{9} 4 2.5 334.°53 0.°3/ 2.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.98	− 9 15.0	1.197	2.075	16.8	20.5
3 12	13 2.57	− 8 31.5	1.124	2.063	12.2	20.2
3 22	12 56.52	− 7 26.2	1.072	2.052	6.9	19.8
4 1	12 48.73	− 6 5.2	1.043	2.042	1.1	19.4
4 11	12 40.58	− 4 38.9	1.038	2.032	5.0	19.6
4 21	12 33.48	− 3 18.8	1.057	2.024	10.8	19.9
5 1	12 28.62	− 2 15.1	1.097	2.016	15.9	20.2
5 11	12 26.72	− 1 34.1	1.155	2.010	20.3	20.4

159548 2001 SB_{72} 4 2.5 196.°26 2.°1/31.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.51	− 1 54.4	1.841	2.703	12.6	21.4
3 12	13 7.10	− 1 6.6	1.767	2.701	8.9	21.2
3 22	12 58.67	− 0 11.0	1.718	2.697	4.9	20.9
4 1	12 49.01	+ 0 46.5	1.697	2.693	2.1	20.7
4 11	12 39.16	+ 1 39.0	1.705	2.688	5.2	20.9
4 21	12 30.18	+ 2 20.7	1.740	2.682	9.3	21.2
5 1	12 22.92	+ 2 47.1	1.801	2.676	13.1	21.4
5 11	12 17.96	+ 2 56.4	1.882	2.668	16.3	21.6

292677 2006 US_{83} 4 2.5 308.°20 3.°4/ 5.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.15	−15 2.8	1.497	2.340	16.0	20.5
3 12	13 4.55	−14 57.4	1.414	2.329	12.3	20.2
3 22	12 57.52	−14 30.3	1.352	2.317	8.0	19.9
4 1	12 48.88	−13 43.4	1.314	2.306	4.0	19.7
4 11	12 39.85	−12 42.2	1.302	2.295	4.6	19.7
4 21	12 31.70	−11 34.7	1.315	2.284	8.9	19.9
5 1	12 25.52	−10 30.2	1.352	2.273	13.4	20.1
5 11	12 22.05	− 9 36.8	1.410	2.263	17.4	20.3

13731 1998 RG_{49} 4 2.5 275.°96 0.°4/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.50	− 7 31.7	1.387	2.255	15.5	18.4
3 12	13 5.65	− 6 45.3	1.304	2.239	11.3	18.1
3 22	12 58.19	− 5 40.8	1.243	2.223	6.2	17.8
4 1	12 48.98	− 4 24.0	1.207	2.206	0.8	17.4
4 11	12 39.32	− 3 4.0	1.197	2.189	5.1	17.6
4 21	12 30.56	− 1 51.0	1.212	2.172	10.6	17.9
5 1	12 23.90	− 0 53.7	1.250	2.155	15.6	18.1
5 11	12 20.10	− 0 17.5	1.307	2.138	19.8	18.3

412601 2014 OX_{71} 4 2.5 229.°42 0.°7/ 3.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.11	− 9 10.2	1.739	2.587	13.9	22.5
3 12	13 7.07	− 8 46.3	1.653	2.577	10.2	22.2
3 22	12 58.79	− 8 7.6	1.591	2.566	5.8	21.9
4 1	12 49.05	− 7 17.8	1.556	2.554	1.3	21.6
4 11	12 38.98	− 6 23.0	1.549	2.541	3.9	21.7
4 21	12 29.70	− 5 30.0	1.569	2.528	8.6	22.0
5 1	12 22.23	− 4 45.5	1.614	2.514	12.9	22.2
5 11	12 17.23	− 4 14.5	1.681	2.500	16.6	22.4

473910 2016 EN_{150} 4 2.5 228.°88 1.°0/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.60	− 6 54.7	1.921	2.781	12.3	21.7
3 12	13 2.86	− 5 36.2	1.841	2.774	8.7	21.4
3 22	12 56.34	− 4 3.4	1.787	2.767	4.7	21.2
4 1	12 48.72	− 2 22.9	1.761	2.759	1.0	20.9
4 11	12 40.92	− 0 43.0	1.763	2.751	4.4	21.1
4 21	12 33.85	+ 0 48.0	1.794	2.743	8.6	21.3
5 1	12 28.28	+ 2 3.5	1.851	2.735	12.3	21.6
5 11	12 24.76	+ 2 59.3	1.928	2.726	15.5	21.8

461552 2003 WH_{32} 4 2.5 129.°39 3.°7/30.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 15.01	+ 4 2.9	1.945	2.811	11.9	21.9
3 12	13 7.86	+ 4 46.2	1.894	2.827	8.4	21.7
3 22	12 58.92	+ 5 30.0	1.868	2.843	5.1	21.6
4 1	12 49.04	+ 6 8.5	1.871	2.859	3.8	21.5
4 11	12 39.23	+ 6 36.0	1.903	2.873	6.1	21.7
4 21	12 30.42	+ 6 49.0	1.962	2.887	9.5	21.9
5 1	12 23.34	+ 6 46.0	2.046	2.900	12.6	22.1
5 11	12 18.45	+ 6 27.2	2.151	2.912	15.2	22.3

37440 2612 $P–L$ 4 2.5 176.°18 0.°1/ 2.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.49	− 7 45.1	3.112	3.952	8.6	21.0
3 12	13 1.46	− 7 11.5	3.033	3.954	6.2	20.9
3 22	12 55.34	− 6 30.2	2.981	3.956	3.4	20.7
4 1	12 48.58	− 5 44.2	2.958	3.957	0.5	20.4
4 11	12 41.75	− 4 57.0	2.966	3.958	2.5	20.6
4 21	12 35.39	− 4 12.2	3.005	3.958	5.3	20.8
5 1	12 29.98	− 3 33.2	3.071	3.958	7.9	21.0
5 11	12 25.88	− 3 2.5	3.162	3.957	10.1	21.1

15332 CERN 4 2.5 321.°34 3.°2/31.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 11.46	+ 1 20.7	1.580	2.457	13.5	17.0
3 12	13 5.88	+ 1 55.7	1.512	2.452	9.6	16.8
3 22	12 58.09	+ 2 35.1	1.468	2.448	5.4	16.5
4 1	12 48.95	+ 3 12.4	1.450	2.444	3.2	16.4
4 11	12 39.64	+ 3 40.8	1.459	2.440	6.3	16.5
4 21	12 31.28	+ 3 55.1	1.494	2.436	10.5	16.8
5 1	12 24.84	+ 3 52.2	1.552	2.433	14.5	17.0
5 11	12 20.90	+ 3 31.5	1.628	2.429	17.8	17.2

341522 2007 TL_{432} 4 2.5 167.°29 0.°0/ 2.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.48	− 7 41.4	2.340	3.189	10.8	21.4
3 12	13 2.47	− 7 3.5	2.265	3.191	7.7	21.2
3 22	12 55.99	− 6 15.6	2.216	3.193	4.3	21.0
4 1	12 48.67	− 5 21.5	2.195	3.194	0.6	20.7
4 11	12 41.25	− 4 26.1	2.204	3.196	3.1	21.0
4 21	12 34.47	− 3 34.6	2.242	3.197	6.7	21.2
5 1	12 28.96	− 2 51.4	2.306	3.198	9.9	21.4
5 11	12 25.15	− 2 19.7	2.392	3.199	12.6	21.6

244621 2003 BN_{11} 4 2.5 56.°27 7.°6/23.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.50	+15 32.7	2.022	2.898	11.0	19.8
3 12	13 1.87	+17 16.2	1.987	2.910	8.8	19.7
3 22	12 55.67	+18 50.6	1.978	2.922	7.7	19.7
4 1	12 48.62	+20 7.8	1.996	2.934	8.2	19.7
4 11	12 41.61	+21 1.6	2.040	2.946	10.0	19.8
4 21	12 35.42	+21 29.4	2.107	2.959	12.3	20.0
5 1	12 30.71	+21 31.3	2.195	2.971	14.5	20.2
5 11	12 27.89	+21 9.8	2.300	2.984	16.3	20.4

370045 2000 SA_{138} 4 2.5 173.°69 1.°6/ 4.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.39	−14 14.0	2.451	3.273	11.2	21.6
3 12	13 3.07	−13 22.7	2.369	3.276	8.4	21.4
3 22	12 56.31	−12 16.2	2.313	3.279	5.1	21.2
4 1	12 48.72	−10 58.0	2.286	3.281	2.0	21.0
4 11	12 41.04	− 9 33.4	2.290	3.282	2.9	21.1
4 21	12 34.00	− 8 8.8	2.323	3.283	6.1	21.3
5 1	12 28.22	− 6 50.1	2.384	3.283	9.3	21.5
5 11	12 24.14	− 5 42.2	2.469	3.283	12.1	21.7

126141 2001 YP_{128} 4 2.5 235.°67 2.°3/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.51	−13 25.8	2.099	2.926	12.7	20.0
3 12	13 5.66	−13 21.4	2.007	2.915	9.6	19.8
3 22	12 57.91	−13 2.2	1.938	2.903	6.1	19.5
4 1	12 48.95	−12 30.1	1.898	2.890	2.8	19.3
4 11	12 39.68	−11 48.8	1.886	2.878	3.5	19.3
4 21	12 31.05	−11 3.6	1.902	2.864	7.1	19.5
5 1	12 23.91	−10 20.2	1.945	2.851	10.8	19.7
5 11	12 18.86	− 9 44.0	2.011	2.836	14.0	19.9

221922 2009 OJ 4 2.5 287.°30 4.°2/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.75	−16 24.0	1.673	2.500	15.3	20.2
3 12	13 6.45	−16 37.6	1.571	2.475	12.0	19.9
3 22	12 58.65	−16 31.7	1.491	2.449	8.2	19.6
4 1	12 49.07	−16 5.9	1.436	2.423	4.8	19.3
4 11	12 38.86	−15 23.6	1.408	2.397	5.0	19.3
4 21	12 29.28	−14 30.6	1.406	2.370	8.8	19.4
5 1	12 21.52	−13 35.3	1.428	2.344	13.2	19.6
5 11	12 16.42	−12 45.8	1.471	2.318	17.2	19.8

473074 2015 HD_{102} 4 2.5 321.°27 0.°3/ 2.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.43	− 7 49.5	1.921	2.778	12.4	21.4
3 12	13 2.79	− 7 26.2	1.839	2.768	9.0	21.1
3 22	12 56.33	− 6 51.0	1.782	2.759	5.0	20.9
4 1	12 48.74	− 6 7.8	1.751	2.750	0.8	20.6
4 11	12 40.93	− 5 21.8	1.748	2.741	3.6	20.7
4 21	12 33.81	− 4 38.9	1.773	2.733	7.7	21.0
5 1	12 28.20	− 4 4.3	1.822	2.725	11.5	21.2
5 11	12 24.63	− 3 41.9	1.893	2.717	14.8	21.4

25185 1998 SR_{115} 4 2.5 123.°53 0.°9/ 3.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.09	− 8 28.1	2.194	3.035	11.7	17.9
3 12	13 5.79	− 8 26.7	2.124	3.044	8.5	17.7
3 22	12 57.84	− 8 15.6	2.080	3.053	4.9	17.5
4 1	12 48.93	− 7 57.2	2.064	3.062	1.2	17.3
4 11	12 39.94	− 7 35.4	2.077	3.070	3.1	17.4
4 21	12 31.71	− 7 14.1	2.120	3.078	6.8	17.7
5 1	12 24.95	− 6 57.3	2.188	3.086	10.1	17.9
5 11	12 20.14	− 6 48.3	2.280	3.093	12.9	18.1

307750 2003 UT_{316} 4 2.5 78.°31 2.°3/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.40	− 2 10.0	1.492	2.366	14.3	20.4
3 12	13 5.72	− 1 14.9	1.442	2.382	10.0	20.2
3 22	12 57.91	− 0 11.5	1.416	2.398	5.4	20.0
4 1	12 48.93	+ 0 52.5	1.417	2.413	2.3	19.8
4 11	12 40.02	+ 1 49.0	1.444	2.429	5.7	20.1
4 21	12 32.26	+ 2 31.4	1.497	2.444	10.1	20.4
5 1	12 26.51	+ 2 55.6	1.573	2.459	14.0	20.6
5 11	12 23.26	+ 3 0.4	1.669	2.475	17.2	20.9

19262 1995 OB_1 4 2.5 259°.04 3°.4/ 5.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 10.09	−16 59.0	2.085	2.900	13.2	19.8
3 12	13 4.74	−16 53.8	1.986	2.883	10.3	19.5
3 22	12 57.46	−16 30.8	1.910	2.865	7.0	19.3
4 1	12 48.90	−15 51.0	1.860	2.847	4.0	19.1
4 11	12 39.99	−14 58.1	1.839	2.828	4.1	19.1
4 21	12 31.68	−13 57.6	1.846	2.809	7.2	19.2
5 1	12 24.84	−12 56.3	1.879	2.790	10.8	19.4
5 11	12 20.10	−12 1.0	1.935	2.770	14.1	19.5

331784 2003 GB_{56} 4 2.5 312°.79 1°.4/ 1.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.00	− 5 21.7	1.763	2.631	12.8	20.7
3 12	13 2.51	− 4 7.7	1.693	2.630	9.0	20.4
3 22	12 56.17	− 2 41.0	1.648	2.629	4.8	20.2
4 1	12 48.72	− 1 8.7	1.630	2.628	1.4	20.0
4 11	12 41.15	+ 0 20.5	1.640	2.627	4.8	20.2
4 21	12 34.40	+ 1 38.7	1.678	2.626	9.1	20.4
5 1	12 29.26	+ 2 39.7	1.739	2.626	12.9	20.7
5 11	12 26.25	+ 3 20.4	1.822	2.625	16.1	20.9

123195 2000 UU_{18} 4 2.5 165°.86 1°.7/31.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.42	− 0 45.7	2.329	3.185	10.5	20.3
3 12	13 5.93	− 0 21.1	2.259	3.190	7.4	20.1
3 22	12 57.89	+ 0 7.6	2.216	3.194	4.0	19.9
4 1	12 48.95	+ 0 36.5	2.202	3.198	1.7	19.8
4 11	12 39.94	+ 1 1.3	2.218	3.201	4.2	19.9
4 21	12 31.65	+ 1 18.3	2.263	3.204	7.5	20.1
5 1	12 24.74	+ 1 25.0	2.335	3.206	10.6	20.3
5 11	12 19.68	+ 1 20.0	2.429	3.208	13.2	20.5

433870 2015 BU_{307} 4 2.5 130°.08 3°.4/ 5.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.56	−16 19.3	2.148	2.958	13.0	22.1
3 12	13 6.94	−16 31.6	2.076	2.970	10.0	21.9
3 22	12 58.52	−16 28.3	2.028	2.982	6.7	21.7
4 1	12 49.04	−16 10.3	2.008	2.994	3.9	21.6
4 11	12 39.46	−15 40.9	2.017	3.004	4.0	21.6
4 21	12 30.69	−15 4.8	2.055	3.015	6.8	21.8
5 1	12 23.51	−14 27.6	2.119	3.025	10.0	22.0
5 11	12 18.42	−13 54.6	2.207	3.034	12.8	22.2

240818 2006 AW_{19} 4 2.5 98°.11 1°.0/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.36	− 4 47.5	1.420	2.288	15.3	21.2
3 12	13 7.97	− 4 15.0	1.367	2.302	10.8	21.0
3 22	12 59.21	− 3 31.2	1.336	2.316	5.8	20.7
4 1	12 49.13	− 2 42.4	1.331	2.330	1.1	20.4
4 11	12 39.07	− 1 56.2	1.354	2.344	5.0	20.7
4 21	12 30.27	− 1 19.5	1.402	2.357	9.9	21.0
5 1	12 23.68	− 0 57.2	1.473	2.370	14.1	21.3
5 11	12 19.83	− 0 51.8	1.564	2.383	17.6	21.6

341319 2007 TL_4 4 2.5 192°.42 1°.3/ 1.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.92	− 3 8.9	2.286	3.147	10.5	21.6
3 12	13 2.82	− 2 26.2	2.212	3.146	7.4	21.4
3 22	12 56.22	− 1 36.6	2.165	3.145	4.0	21.1
4 1	12 48.74	− 0 44.6	2.146	3.143	1.3	20.9
4 11	12 41.16	+ 0 4.6	2.156	3.142	4.0	21.1
4 21	12 34.22	+ 0 46.3	2.195	3.140	7.4	21.3
5 1	12 28.57	+ 1 16.7	2.259	3.138	10.6	21.5
5 11	12 24.66	+ 1 33.5	2.345	3.136	13.3	21.7

61421 2000 QU_{14} 4 2.5 175°.81 0°.2/ 2.7 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.36	− 7 55.6	2.165	3.012	11.6	19.8
3 12	13 4.64	− 7 25.6	2.090	3.014	8.4	19.6
3 22	12 57.26	− 6 44.8	2.039	3.015	4.7	19.3
4 1	12 48.89	− 5 57.0	2.018	3.016	0.7	19.0
4 11	12 40.41	− 5 7.2	2.025	3.017	3.3	19.3
4 21	12 32.64	− 4 20.7	2.061	3.017	7.1	19.5
5 1	12 26.30	− 3 42.3	2.124	3.017	10.6	19.7
5 11	12 21.88	− 3 15.3	2.208	3.016	13.5	19.9

508202 2015 FJ_{396} 4 2.5 357°.32 0°.8/ 1.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.02	− 7 7.5	1.866	2.731	12.3	20.9
3 12	13 0.33	− 5 54.1	1.794	2.729	8.7	20.6
3 22	12 54.96	− 4 27.1	1.747	2.728	4.7	20.4
4 1	12 48.59	− 2 52.8	1.728	2.727	0.8	20.1
4 11	12 42.12	− 1 19.5	1.737	2.726	4.2	20.4
4 21	12 36.37	+ 0 4.9	1.773	2.726	8.3	20.6
5 1	12 32.08	+ 1 14.2	1.834	2.727	12.0	20.8
5 11	12 29.72	+ 2 4.4	1.916	2.728	15.1	21.0

20888 Siyueguo 4 2.5 209°.68 0°.8/ 3.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.66	− 9 30.5	2.070	2.915	12.1	19.6
3 12	13 4.26	− 9 4.2	1.989	2.911	8.8	19.4
3 22	12 57.11	− 8 25.4	1.933	2.907	5.1	19.2
4 1	12 48.89	− 7 37.4	1.905	2.903	1.2	18.9
4 11	12 40.49	− 6 45.4	1.906	2.899	3.3	19.0
4 21	12 32.80	− 5 55.2	1.935	2.894	7.3	19.3
5 1	12 26.57	− 5 12.0	1.990	2.889	10.9	19.5
5 11	12 22.33	− 4 40.0	2.067	2.884	14.0	19.7

87525 2000 QV_{197} 4 2.5 249°.09 1°.7/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.38	− 2 55.8	1.837	2.704	12.4	19.6
3 12	13 4.21	− 2 9.1	1.762	2.699	8.7	19.4
3 22	12 57.13	− 1 13.6	1.712	2.693	4.7	19.1
4 1	12 48.89	− 0 15.0	1.690	2.687	1.7	18.9
4 11	12 40.47	+ 0 39.9	1.695	2.681	4.9	19.1
4 21	12 32.83	+ 1 25.0	1.727	2.674	9.0	19.3
5 1	12 26.80	+ 1 55.6	1.784	2.668	12.7	19.5
5 11	12 22.93	+ 2 9.3	1.861	2.662	15.9	19.7

309805 2009 BO_{78} 4 2.5 24°.07 0°.8/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.01	− 8 22.3	1.114	1.992	17.7	20.5
3 12	13 5.41	− 8 10.7	1.061	2.000	12.9	20.2
3 22	12 58.03	− 7 41.4	1.029	2.008	7.3	19.9
4 1	12 49.02	− 6 59.7	1.019	2.018	1.5	19.6
4 11	12 39.92	− 6 13.9	1.033	2.028	4.8	19.8
4 21	12 32.19	− 5 32.9	1.071	2.040	10.4	20.2
5 1	12 26.97	− 5 4.1	1.130	2.052	15.4	20.5
5 11	12 24.83	− 4 52.3	1.207	2.065	19.4	20.8

431856 2008 SJ_{94} 4 2.5 277°.42 2°.8/ 4.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.60	−12 49.7	1.884	2.717	13.6	21.1
3 12	13 6.67	−13 7.3	1.794	2.705	10.3	20.9
3 22	12 58.59	−13 11.0	1.729	2.694	6.6	20.6
4 1	12 49.11	−13 1.5	1.690	2.682	3.2	20.4
4 11	12 39.26	−12 41.9	1.679	2.670	4.0	20.4
4 21	12 30.12	−12 16.9	1.696	2.659	7.8	20.6
5 1	12 22.64	−11 52.2	1.738	2.647	11.6	20.8
5 11	12 17.49	−11 33.1	1.802	2.635	15.0	21.0

225529 2000 RG_{96} 4 2.5 248°.67 5°.0/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.75	−23 40.9	2.134	2.916	14.0	20.6
3 12	13 3.78	−23 16.1	2.031	2.900	11.4	20.4
3 22	12 56.93	−22 27.2	1.952	2.885	8.4	20.1
4 1	12 48.89	−21 14.7	1.898	2.869	5.8	19.9
4 11	12 40.55	−19 42.6	1.872	2.852	5.1	19.9
4 21	12 32.86	−17 58.1	1.874	2.835	7.3	20.0
5 1	12 26.66	−16 9.9	1.903	2.818	10.5	20.1
5 11	12 22.54	−14 27.0	1.957	2.800	13.6	20.3

278735 Kamioka 4 2.5 148°.49 0°.3/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.45	− 7 4.3	2.096	2.949	11.6	21.2
3 12	13 3.30	− 6 18.7	2.025	2.954	8.3	21.0
3 22	12 56.52	− 5 22.3	1.980	2.958	4.5	20.7
4 1	12 48.82	− 4 19.6	1.963	2.962	0.6	20.4
4 11	12 41.03	− 3 16.8	1.975	2.966	3.6	20.7
4 21	12 33.97	− 2 19.6	2.016	2.970	7.4	20.9
5 1	12 28.34	− 1 33.0	2.082	2.973	10.8	21.1
5 11	12 24.60	− 1 0.3	2.170	2.976	13.8	21.3

12936 2549 P–L 4 2.5 95°.99 0°.5/ 2.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.26	− 6 11.3	1.976	2.834	12.0	18.2
3 12	13 3.24	− 5 31.0	1.907	2.838	8.5	18.0
3 22	12 56.53	− 4 40.4	1.863	2.842	4.6	17.7
4 1	12 48.82	− 3 44.1	1.847	2.846	0.6	17.4
4 11	12 41.02	− 2 48.2	1.859	2.849	3.8	17.7
4 21	12 33.99	− 1 58.6	1.899	2.853	7.8	17.9
5 1	12 28.46	− 1 19.9	1.964	2.857	11.3	18.1
5 11	12 24.90	− 0 55.4	2.051	2.861	14.3	18.4

83890 2001 US_{130} 4 2.5 297°.17 1°.1/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.01	− 3 41.7	2.060	2.923	11.4	19.9
3 12	13 3.13	− 3 10.7	1.976	2.910	8.1	19.7
3 22	12 56.52	− 2 31.7	1.916	2.896	4.4	19.4
4 1	12 48.83	− 1 48.9	1.885	2.883	1.1	19.1
4 11	12 40.92	− 1 7.7	1.882	2.870	4.1	19.3
4 21	12 33.63	− 0 33.1	1.906	2.857	8.0	19.5
5 1	12 27.75	− 0 9.5	1.956	2.844	11.6	19.7
5 11	12 23.81	+ 0 0.5	2.026	2.831	14.6	19.9

210717 2000 SR_{250} 4 2.5 116°.63 1°.7/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.94	−10 30.6	1.610	2.455	15.0	20.8
3 12	13 8.31	−10 27.4	1.547	2.467	11.0	20.6
3 22	12 59.42	−10 9.1	1.506	2.478	6.5	20.4
4 1	12 49.21	− 9 38.7	1.493	2.489	2.2	20.1
4 11	12 38.93	− 9 1.7	1.507	2.500	3.9	20.2
4 21	12 29.73	− 8 24.4	1.548	2.510	8.4	20.5
5 1	12 22.58	− 7 52.9	1.614	2.520	12.5	20.8
5 11	12 18.03	− 7 32.1	1.700	2.530	16.0	21.0

268439 2005 VH_{113} 4 2.5 76°.10 0°.6/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.14	− 7 30.0	1.767	2.624	13.3	21.5
3 12	13 4.50	− 6 22.5	1.723	2.653	9.3	21.3
3 22	12 57.12	− 5 3.2	1.704	2.683	5.0	21.1
4 1	12 48.89	− 3 38.7	1.713	2.712	0.7	20.9
4 11	12 40.80	− 2 17.2	1.751	2.741	4.1	21.2
4 21	12 33.75	− 1 5.6	1.816	2.770	8.2	21.5
5 1	12 28.44	− 0 9.3	1.907	2.798	11.7	21.7
5 11	12 25.24	+ 0 29.1	2.019	2.825	14.6	22.0

456022 2005 YW_{86} 4 2.5 110°.14 5°.1/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 13.54	−19 7.9	1.481	2.302	17.3	21.7
3 12	13 7.60	−19 14.8	1.414	2.311	13.6	21.5
3 22	12 59.15	−18 56.7	1.369	2.321	9.5	21.2
4 1	12 49.19	−18 14.4	1.347	2.330	5.9	21.0
4 11	12 39.06	−17 13.3	1.352	2.339	5.6	21.0
4 21	12 30.09	−16 2.0	1.382	2.347	8.9	21.3
5 1	12 23.34	−14 50.2	1.436	2.355	12.9	21.5
5 11	12 19.42	−13 46.8	1.512	2.363	16.5	21.8

341581 2007 UN_{77} 4 2.5 155°.38 1°.1/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.64	− 3 53.6	2.429	3.286	10.1	21.2
3 12	13 2.53	− 3 10.6	2.358	3.290	7.1	21.0
3 22	12 56.04	− 2 20.6	2.315	3.294	3.8	20.8
4 1	12 48.76	− 1 27.9	2.300	3.298	1.1	20.6
4 11	12 41.41	− 0 37.5	2.315	3.301	3.6	20.8
4 21	12 34.68	+ 0 6.2	2.358	3.305	6.9	21.0
5 1	12 29.18	+ 0 39.6	2.428	3.308	9.9	21.2
5 11	12 25.32	+ 1 0.3	2.520	3.310	12.5	21.4

499872 2011 FR_{23} 4 2.5 4°.20 4°.6/29.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.91	+ 5 38.9	1.694	2.573	12.6	20.5
3 12	13 5.34	+ 6 21.1	1.634	2.573	9.1	20.3
3 22	12 57.75	+ 7 2.9	1.598	2.573	5.8	20.1
4 1	12 48.99	+ 7 37.5	1.588	2.573	4.7	20.1
4 11	12 40.16	+ 7 58.6	1.605	2.574	7.2	20.2
4 21	12 32.26	+ 8 2.4	1.648	2.575	10.8	20.4
5 1	12 26.17	+ 7 47.2	1.714	2.576	14.2	20.6
5 11	12 22.39	+ 7 13.8	1.799	2.578	17.2	20.8

182469 2001 SD_{96} 4 2.5 234°.90 1°.0/ 3.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.13	− 9 29.5	1.736	2.587	13.8	21.0
3 12	13 5.58	− 9 15.4	1.661	2.585	10.1	20.7
3 22	12 57.95	− 8 47.4	1.609	2.583	5.9	20.5
4 1	12 49.03	− 8 8.8	1.584	2.581	1.5	20.2
4 11	12 39.91	− 7 25.2	1.586	2.579	3.7	20.3
4 21	12 31.64	− 6 42.8	1.615	2.577	8.2	20.6
5 1	12 25.13	− 6 7.6	1.670	2.575	12.2	20.8
5 11	12 20.99	− 5 44.1	1.745	2.573	15.7	21.0

22263 Pignedoli 4 2.5 116°.40 2°.1/31.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.22	− 3 3.9	1.906	2.769	12.2	18.7
3 12	13 5.22	− 1 42.8	1.856	2.790	8.5	18.6
3 22	12 57.53	− 0 13.8	1.831	2.811	4.6	18.4
4 1	12 48.96	+ 1 16.0	1.836	2.831	2.1	18.2
4 11	12 40.46	+ 2 38.4	1.870	2.851	5.1	18.5
4 21	12 32.90	+ 3 47.2	1.932	2.870	8.8	18.7
5 1	12 27.00	+ 4 38.1	2.019	2.888	12.1	19.0
5 11	12 23.15	+ 5 9.5	2.127	2.905	14.9	19.2

261963 2006 PT_{25} 4 2.5 239°.22 2°.1/ 4.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.71	−13 5.5	1.879	2.712	13.6	21.8
3 12	13 6.02	−12 48.8	1.787	2.700	10.3	21.6
3 22	12 58.24	−12 15.2	1.719	2.686	6.4	21.3
4 1	12 49.09	−11 27.1	1.678	2.672	2.7	21.0
4 11	12 39.59	−10 29.3	1.665	2.658	3.7	21.1
4 21	12 30.80	− 9 28.6	1.680	2.643	7.8	21.3
5 1	12 23.66	− 8 32.0	1.721	2.627	11.9	21.5
5 11	12 18.82	− 7 45.6	1.783	2.611	15.4	21.7

38799 2000 RE_{54} 4 2.5 180°.99 3°.1/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.53	+ 2 8.7	1.982	2.852	11.5	19.2
3 12	13 4.85	+ 2 52.9	1.916	2.853	8.1	19.0
3 22	12 57.42	+ 3 40.1	1.875	2.853	4.7	18.7
4 1	12 48.96	+ 4 24.6	1.862	2.853	3.2	18.6
4 11	12 40.41	+ 5 0.6	1.877	2.853	5.7	18.8
4 21	12 32.65	+ 5 23.6	1.920	2.852	9.2	19.0
5 1	12 26.43	+ 5 31.1	1.987	2.852	12.5	19.2
5 11	12 22.26	+ 5 22.2	2.074	2.851	15.2	19.4

316867 2000 QH_{144} 4 2.5 232°.04 1°.9/31.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.95	− 2 51.1	1.894	2.756	12.3	21.5
3 12	13 6.10	− 1 53.4	1.808	2.742	8.7	21.3
3 22	12 58.24	− 0 45.7	1.747	2.727	4.8	21.0
4 1	12 49.09	+ 0 25.8	1.715	2.712	1.9	20.8
4 11	12 39.65	+ 1 33.8	1.712	2.695	5.1	20.9
4 21	12 30.91	+ 2 31.5	1.736	2.678	9.3	21.2
5 1	12 23.79	+ 3 13.6	1.785	2.660	13.2	21.4
5 11	12 18.89	+ 3 37.2	1.855	2.641	16.5	21.5

288653 2004 PH_{51} 4 2.5 239°.88 3°.9/30.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.73	+ 1 16.4	1.611	2.487	13.3	21.2
3 12	13 6.18	+ 2 29.6	1.535	2.475	9.5	20.9
3 22	12 58.37	+ 3 50.1	1.484	2.463	5.6	20.7
4 1	12 49.12	+ 5 9.6	1.460	2.450	4.0	20.5
4 11	12 39.58	+ 6 18.7	1.463	2.437	7.1	20.7
4 21	12 30.90	+ 7 10.0	1.491	2.423	11.4	20.9
5 1	12 24.10	+ 7 39.0	1.543	2.409	15.4	21.1
5 11	12 19.81	+ 7 44.4	1.613	2.394	18.8	21.3

106124 2000 TL_{35} 4 2.5 246°.95 0°.0/ 2.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.31	− 7 15.7	2.567	3.413	10.0	20.8
3 12	13 2.36	− 6 45.0	2.477	3.401	7.2	20.6
3 22	12 56.01	− 6 5.1	2.412	3.389	4.0	20.3
4 1	12 48.79	− 5 19.3	2.377	3.376	0.5	20.0
4 11	12 41.39	− 4 31.9	2.371	3.363	3.0	20.2
4 21	12 34.50	− 3 47.3	2.395	3.349	6.4	20.4
5 1	12 28.73	− 3 9.6	2.445	3.335	9.5	20.6
5 11	12 24.55	− 2 42.0	2.518	3.322	12.1	20.7

211011 2001 YC_{12} 4 2.5 139°.86 0°.5/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.77	− 5 11.5	2.698	3.547	9.5	21.6
3 12	13 2.50	− 4 37.3	2.630	3.557	6.7	21.5
3 22	12 55.99	− 3 56.3	2.588	3.566	3.6	21.3
4 1	12 48.78	− 3 12.1	2.576	3.575	0.6	21.0
4 11	12 41.54	− 2 28.7	2.595	3.584	3.0	21.3
4 21	12 34.87	− 1 50.0	2.643	3.592	6.1	21.5
5 1	12 29.33	− 1 19.4	2.717	3.600	8.9	21.7
5 11	12 25.29	− 0 59.0	2.815	3.607	11.3	21.8

383890 2008 SM_{4} 4 2.5 236°.26 2°.5/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.03	− 0 35.4	2.377	3.241	10.0	21.5
3 12	13 2.97	+ 0 42.1	2.291	3.226	7.1	21.3
3 22	12 56.38	+ 2 6.8	2.231	3.210	4.0	21.0
4 1	12 48.86	+ 3 32.6	2.201	3.193	2.6	20.9
4 11	12 41.12	+ 4 53.1	2.202	3.176	5.0	21.0
4 21	12 33.93	+ 6 2.3	2.231	3.159	8.3	21.2
5 1	12 27.96	+ 6 55.9	2.285	3.140	11.4	21.4
5 11	12 23.69	+ 7 31.6	2.361	3.121	14.1	21.5

425148 2009 SE_{297} 4 2.5 151°.76 2°.9/ 5.9 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.76	−17 5.6	2.457	3.261	11.7	22.6
3 12	13 4.80	−16 48.9	2.380	3.272	9.0	22.5
3 22	12 57.32	−16 16.8	2.328	3.281	6.0	22.3
4 1	12 48.97	−15 31.1	2.304	3.290	3.4	22.1
4 11	12 40.55	−14 35.8	2.310	3.299	3.4	22.1
4 21	12 32.81	−13 36.0	2.345	3.306	6.1	22.3
5 1	12 26.41	−12 37.2	2.408	3.313	9.0	22.5
5 11	12 21.79	−11 44.4	2.495	3.319	11.6	22.7

3216 Harrington 4 2.5 243°.85 2°.6/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.86	− 0 15.0	2.056	2.919	11.4	18.3
3 12	13 5.96	+ 0 42.0	1.965	2.900	8.1	18.0
3 22	12 58.15	+ 1 46.1	1.901	2.879	4.6	17.8
4 1	12 49.11	+ 2 51.4	1.864	2.858	2.6	17.6
4 11	12 39.74	+ 3 51.1	1.858	2.836	5.4	17.8
4 21	12 31.00	+ 4 39.3	1.879	2.813	9.3	17.9
5 1	12 23.72	+ 5 11.5	1.925	2.789	12.9	18.1
5 11	12 18.52	+ 5 25.8	1.992	2.764	15.9	18.3

44201 1998 MS_{28} 4 2.5 226°.56 4°.3/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.46	−21 50.6	2.553	3.333	12.0	19.7
3 12	13 4.03	−21 43.6	2.452	3.321	9.7	19.5
3 22	12 56.99	−21 18.7	2.375	3.309	7.1	19.3
4 1	12 48.95	−20 36.4	2.325	3.296	4.8	19.1
4 11	12 40.66	−19 39.5	2.304	3.283	4.4	19.1
4 21	12 32.91	−18 32.7	2.311	3.269	6.3	19.2
5 1	12 26.41	−17 22.1	2.346	3.255	9.1	19.3
5 11	12 21.67	−16 13.8	2.406	3.239	11.7	19.5

373145 2012 BO_{24} 4 2.5 188°.22 14°.3/10.5 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 24.58	−32 46.5	1.316	2.061	22.9	21.0
3 12	13 16.87	−34 50.0	1.242	2.062	20.2	20.7
3 22	13 5.02	−36 21.4	1.184	2.061	17.4	20.6
4 1	12 50.10	−37 9.6	1.147	2.060	15.2	20.4
4 11	12 34.11	−37 9.6	1.131	2.058	14.3	20.3
4 21	12 19.36	−36 25.1	1.137	2.056	15.3	20.4
5 1	12 7.88	−35 8.4	1.164	2.052	17.7	20.5
5 11	12 0.81	−33 36.7	1.209	2.048	20.6	20.7

165402 2000 XX_{34} 4 2.5 63°.28 1°.8/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 18.77	− 1 6.7	1.320	2.191	16.0	19.3
3 12	13 11.04	− 1 3.3	1.281	2.218	11.3	19.1
3 22	13 0.85	− 0 54.1	1.265	2.245	6.1	18.8
4 1	12 49.44	− 0 44.2	1.275	2.272	1.8	18.6
4 11	12 38.29	− 0 39.5	1.311	2.300	5.5	18.9
4 21	12 28.72	− 0 43.9	1.374	2.327	10.2	19.3
5 1	12 21.66	− 1 0.0	1.460	2.354	14.4	19.6
5 11	12 17.52	− 1 28.7	1.565	2.381	17.7	19.9

169439 2002 AP_{105} 4 2.5 30°.29 2°.9/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.78	−15 30.4	2.157	2.981	12.5	19.6
3 12	13 2.89	−15 27.0	2.081	2.985	9.5	19.4
3 22	12 56.36	−15 8.1	2.029	2.989	6.3	19.2
4 1	12 48.86	−14 35.7	2.004	2.993	3.4	19.0
4 11	12 41.23	−13 53.4	2.007	2.997	3.6	19.0
4 21	12 34.29	−13 6.6	2.037	3.002	6.5	19.2
5 1	12 28.75	−12 20.7	2.094	3.007	9.8	19.4
5 11	12 25.11	−11 40.9	2.174	3.012	12.7	19.6

432925 2011 SN_{203} 4 2.5 127.°66 0.°4/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 5.17	−11 38.7	2.403	3.242	10.9	20.9
3 12	13 0.84	−10 17.9	2.326	3.245	7.9	20.7
3 22	12 55.15	− 8 42.5	2.275	3.248	4.5	20.5
4 1	12 48.69	− 6 57.5	2.253	3.252	0.9	20.3
4 11	12 42.17	− 5 9.9	2.262	3.255	2.9	20.4
4 21	12 36.26	− 3 26.6	2.301	3.258	6.5	20.7
5 1	12 31.55	− 1 54.0	2.368	3.261	9.6	20.9
5 11	12 28.44	− 0 36.5	2.458	3.263	12.4	21.1

113588 2002 TE_{47} 4 2.5 123.°98 0.°9/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.83	−11 22.0	2.276	3.115	11.4	20.2
3 12	13 2.07	−10 34.9	2.204	3.122	8.3	20.0
3 22	12 55.85	− 9 34.4	2.157	3.129	4.8	19.8
4 1	12 48.79	− 8 24.5	2.138	3.136	1.3	19.5
4 11	12 41.67	− 7 10.9	2.149	3.142	2.9	19.6
4 21	12 35.21	− 5 59.4	2.188	3.148	6.5	19.9
5 1	12 30.06	− 4 55.7	2.254	3.154	9.7	20.1
5 11	12 26.63	− 4 4.0	2.344	3.160	12.5	20.3

436706 2011 TZ_{12} 4 2.5 251.°39 4.°0/29.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.21	+ 7 40.3	2.472	3.339	9.6	21.0
3 12	13 4.41	+ 8 14.9	2.397	3.328	7.0	20.8
3 22	12 57.13	+ 8 47.9	2.348	3.318	4.7	20.7
4 1	12 48.97	+ 9 14.4	2.329	3.308	4.2	20.6
4 11	12 40.67	+ 9 30.2	2.338	3.297	6.0	20.7
4 21	12 32.98	+ 9 32.6	2.375	3.286	8.7	20.9
5 1	12 26.54	+ 9 20.1	2.437	3.275	11.4	21.0
5 11	12 21.81	+ 8 53.0	2.520	3.264	13.7	21.2

172276 2002 TP_{111} 4 2.5 265.°69 3.°2/ 5.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.85	−14 43.0	2.149	2.968	12.7	20.3
3 12	13 6.70	−15 6.3	2.054	2.954	9.8	20.1
3 22	12 58.59	−15 16.2	1.982	2.940	6.5	19.8
4 1	12 49.19	−15 12.8	1.938	2.926	3.7	19.6
4 11	12 39.41	−14 58.4	1.923	2.912	4.0	19.6
4 21	12 30.22	−14 36.9	1.936	2.897	7.1	19.8
5 1	12 22.51	−14 13.3	1.976	2.882	10.6	19.9
5 11	12 16.89	−13 52.7	2.038	2.867	13.7	20.1

503661 2016 GR_{237} 4 2.5 185.°32 0.°4/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.46	− 9 52.0	2.453	3.292	10.6	21.7
3 12	13 2.47	− 9 2.3	2.372	3.292	7.7	21.5
3 22	12 56.06	− 8 0.7	2.318	3.292	4.4	21.3
4 1	12 48.83	− 6 51.0	2.292	3.291	0.9	21.0
4 11	12 41.49	− 5 38.6	2.297	3.290	2.9	21.2
4 21	12 34.75	− 4 29.1	2.331	3.288	6.4	21.4
5 1	12 29.22	− 3 27.5	2.392	3.285	9.5	21.6
5 11	12 25.34	− 2 37.8	2.477	3.283	12.3	21.8

358550 2007 TM_{155} 4 2.5 269.°68 2.°8/ 4.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.54	−14 13.8	1.593	2.432	15.4	21.0
3 12	13 6.32	−14 1.5	1.499	2.413	11.8	20.7
3 22	12 58.62	−13 28.6	1.427	2.394	7.5	20.4
4 1	12 49.21	−12 36.8	1.381	2.374	3.5	20.1
4 11	12 39.29	−11 31.5	1.361	2.354	4.3	20.1
4 21	12 30.12	−10 20.7	1.367	2.333	8.9	20.3
5 1	12 22.86	− 9 13.5	1.398	2.312	13.5	20.5
5 11	12 18.29	− 8 17.8	1.449	2.291	17.6	20.7

423895 2006 SX_{68} 4 2.5 213.°40 0.°6/ 1.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.69	− 5 52.9	2.250	3.107	10.8	21.1
3 12	13 2.02	− 5 7.2	2.175	3.106	7.7	20.9
3 22	12 55.85	− 4 12.0	2.126	3.105	4.1	20.7
4 1	12 48.81	− 3 11.9	2.105	3.104	0.7	20.4
4 11	12 41.66	− 2 12.4	2.113	3.103	3.5	20.6
4 21	12 35.14	− 1 18.8	2.150	3.102	7.2	20.8
5 1	12 29.90	− 0 35.7	2.212	3.101	10.4	21.0
5 11	12 26.40	− 0 5.9	2.297	3.099	13.2	21.2

500578 2012 UV_{82} 4 2.5 170.°68 3.°5/ 6.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.21	−19 12.2	2.560	3.356	11.5	21.8
3 12	13 3.03	−19 4.1	2.476	3.359	9.1	21.6
3 22	12 56.39	−18 40.1	2.415	3.360	6.4	21.4
4 1	12 48.89	−18 1.5	2.383	3.362	4.0	21.3
4 11	12 41.26	−17 11.5	2.379	3.363	3.8	21.3
4 21	12 34.21	−16 14.8	2.403	3.364	5.9	21.4
5 1	12 28.39	−15 16.8	2.456	3.365	8.7	21.6
5 11	12 24.25	−14 22.6	2.532	3.366	11.2	21.7

49471 1999 AX_{27} 4 2.5 173.°99 4.°8/27.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.39	+ 8 4.0	2.298	3.172	9.9	19.4
3 12	13 2.45	+ 9 21.9	2.239	3.173	7.3	19.2
3 22	12 56.06	+10 38.5	2.207	3.174	5.2	19.1
4 1	12 48.84	+11 47.2	2.203	3.175	5.1	19.0
4 11	12 41.56	+12 42.1	2.228	3.175	7.1	19.2
4 21	12 34.94	+13 19.3	2.280	3.176	9.7	19.3
5 1	12 29.61	+13 37.0	2.354	3.176	12.3	19.5
5 11	12 26.00	+13 35.4	2.449	3.176	14.4	19.7

144294 2004 CQ_{121} 4 2.5 222.°48 3.°3/30.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 10.07	+ 0 55.1	1.871	2.743	11.9	20.8
3 12	13 4.71	+ 2 3.5	1.798	2.736	8.5	20.5
3 22	12 57.45	+ 3 17.9	1.750	2.729	4.9	20.3
4 1	12 49.04	+ 4 31.3	1.730	2.721	3.4	20.2
4 11	12 40.45	+ 5 36.0	1.739	2.713	6.1	20.3
4 21	12 32.63	+ 6 25.9	1.774	2.705	9.9	20.5
5 1	12 26.40	+ 6 56.8	1.833	2.696	13.4	20.7
5 11	12 22.32	+ 7 7.6	1.912	2.687	16.4	20.9

386217 2007 WZ_{40} 4 2.5 241.°95 1.°6/31.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.71	− 2 23.8	2.220	3.083	10.7	21.9
3 12	13 2.78	− 1 38.7	2.143	3.078	7.5	21.6
3 22	12 56.30	− 0 46.9	2.093	3.073	4.1	21.4
4 1	12 48.88	+ 0 7.0	2.071	3.067	1.6	21.2
4 11	12 41.33	+ 0 57.4	2.077	3.062	4.3	21.4
4 21	12 34.41	+ 1 39.4	2.112	3.056	7.8	21.6
5 1	12 28.80	+ 2 9.2	2.172	3.050	11.0	21.8
5 11	12 24.98	+ 2 24.5	2.254	3.044	13.8	22.0

276482 2003 ON_2 4 2.5 206.°10 1.°2/ 3.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.02	−10 35.8	2.479	3.309	10.8	20.8
3 12	13 5.05	−10 25.5	2.391	3.304	8.0	20.6
3 22	12 57.53	−10 4.4	2.328	3.298	4.8	20.3
4 1	12 49.05	− 9 34.7	2.295	3.291	1.6	20.1
4 11	12 40.39	− 9 0.0	2.292	3.284	2.9	20.2
4 21	12 32.30	− 8 24.5	2.318	3.277	6.3	20.4
5 1	12 25.47	− 7 52.5	2.371	3.269	9.4	20.6
5 11	12 20.39	− 7 27.7	2.448	3.260	12.2	20.7

390291 2013 AD_{27} 4 2.5 157.°38 4.°1/ 7.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.19	−21 46.9	2.844	3.617	11.1	21.6
3 12	13 4.32	−21 56.1	2.760	3.624	8.9	21.4
3 22	12 57.07	−21 50.2	2.701	3.631	6.6	21.3
4 1	12 48.99	−21 29.4	2.669	3.637	4.6	21.1
4 11	12 40.78	−20 56.0	2.667	3.642	4.2	21.1
4 21	12 33.14	−20 13.7	2.694	3.647	5.8	21.2
5 1	12 26.66	−19 27.0	2.748	3.652	8.1	21.4
5 11	12 21.79	−18 41.1	2.827	3.656	10.3	21.5

24453 2000 QG_{173} 4 2.5 276.°29 2.°3/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.97	−19 1.9	4.378	5.163	7.3	18.4
3 12	12 58.16	−18 56.3	4.284	5.159	5.7	18.3
3 22	12 53.57	−18 41.5	4.215	5.155	4.1	18.2
4 1	12 48.52	−18 18.5	4.175	5.151	2.7	18.0
4 11	12 43.39	−17 48.9	4.165	5.146	2.5	18.0
4 21	12 38.55	−17 15.0	4.184	5.142	3.7	18.1
5 1	12 34.35	−16 39.5	4.231	5.138	5.4	18.2
5 11	12 31.06	−16 4.9	4.305	5.134	7.0	18.3

426548 2013 RT_{84} 4 2.5 146.°11 3.°5/ 6.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.93	−18 49.9	2.358	3.158	12.3	21.7
3 12	13 4.30	−18 36.8	2.281	3.167	9.6	21.5
3 22	12 57.10	−18 6.6	2.228	3.176	6.6	21.3
4 1	12 49.00	−17 20.9	2.202	3.184	4.0	21.2
4 11	12 40.80	−16 23.6	2.205	3.191	3.8	21.2
4 21	12 33.30	−15 20.1	2.237	3.198	6.3	21.4
5 1	12 27.17	−14 16.5	2.296	3.205	9.2	21.5
5 11	12 22.88	−13 18.3	2.379	3.211	11.9	21.7

6562 Takoyaki 4 2.5 127.°32 3.°1/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.06	+ 0 13.8	1.716	2.584	13.1	18.0
3 12	13 7.44	+ 1 18.6	1.665	2.601	9.2	17.8
3 22	12 58.86	+ 2 28.6	1.639	2.618	5.2	17.6
4 1	12 49.23	+ 3 36.3	1.641	2.633	3.2	17.5
4 11	12 39.65	+ 4 34.2	1.671	2.648	6.0	17.7
4 21	12 31.15	+ 5 16.5	1.728	2.663	9.9	18.0
5 1	12 24.53	+ 5 40.1	1.810	2.676	13.4	18.2
5 11	12 20.26	+ 5 44.4	1.911	2.689	16.4	18.4

434902 2006 TF_8 4 2.5 193.°81 1.°2/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.07	−12 52.0	2.581	3.410	10.5	21.2
3 12	13 1.46	−12 6.2	2.497	3.409	7.8	21.0
3 22	12 55.51	−11 7.2	2.439	3.407	4.7	20.8
4 1	12 48.78	− 9 58.2	2.410	3.405	1.7	20.6
4 11	12 41.95	− 8 43.9	2.410	3.403	2.7	20.7
4 21	12 35.67	− 7 29.9	2.440	3.401	5.9	20.9
5 1	12 30.52	− 6 21.5	2.497	3.398	8.9	21.0
5 11	12 26.93	− 5 22.9	2.579	3.395	11.5	21.2

79442 1997 UX 4 2.5 245.°89 1.°9/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.26	− 0 59.2	2.107	2.966	11.4	20.2
3 12	13 6.93	− 0 31.1	2.016	2.948	8.1	19.9
3 22	12 58.70	+ 0 2.8	1.951	2.930	4.5	19.7
4 1	12 49.23	+ 0 37.9	1.914	2.910	1.9	19.5
4 11	12 39.45	+ 1 9.0	1.907	2.891	4.7	19.6
4 21	12 30.30	+ 1 31.7	1.928	2.870	8.5	19.8
5 1	12 22.61	+ 1 42.2	1.975	2.849	12.1	20.0
5 11	12 17.00	+ 1 38.8	2.043	2.827	15.2	20.2

472302 2014 WO_{481} 4 2.5 150°.56 8°.4/22.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.92	+16 39.5	1.973	2.845	11.4	21.1
3 12	13 3.06	+18 44.1	1.931	2.848	9.3	21.0
3 22	12 56.48	+20 39.5	1.915	2.851	8.4	21.0
4 1	12 48.91	+22 16.0	1.926	2.854	9.1	21.0
4 11	12 41.29	+23 26.5	1.963	2.856	11.0	21.1
4 21	12 34.48	+24 7.6	2.024	2.858	13.4	21.3
5 1	12 29.22	+24 19.4	2.104	2.860	15.6	21.5
5 11	12 25.98	+24 4.6	2.200	2.862	17.5	21.6

341807 2007 XS_{41} 4 2.5 89°.95 5°.4/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.83	+11 51.1	2.356	3.224	10.0	20.4
3 12	13 4.00	+12 48.9	2.318	3.244	7.5	20.3
3 22	12 56.82	+13 41.1	2.307	3.265	5.7	20.2
4 1	12 48.95	+14 22.0	2.324	3.285	5.7	20.3
4 11	12 41.17	+14 47.3	2.369	3.305	7.3	20.4
4 21	12 34.19	+14 55.0	2.441	3.325	9.6	20.6
5 1	12 28.57	+14 44.7	2.535	3.344	11.8	20.8
5 11	12 24.68	+14 18.0	2.650	3.364	13.8	20.9

370196 2002 CZ_{253} 4 2.5 173°.79 4°.1/ 7.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.12	−21 10.1	2.367	3.154	12.7	21.4
3 12	13 4.50	−20 56.0	2.282	3.157	10.1	21.2
3 22	12 57.25	−20 23.1	2.220	3.159	7.2	21.1
4 1	12 49.03	−19 32.4	2.186	3.161	4.7	20.9
4 11	12 40.67	−18 27.7	2.180	3.163	4.3	20.9
4 21	12 32.98	−17 14.6	2.203	3.163	6.5	21.0
5 1	12 26.68	−15 59.8	2.254	3.163	9.3	21.2
5 11	12 22.25	−14 49.4	2.329	3.163	12.0	21.4

207455 2006 GV_{4} 4 2.5 306°.26 3°.0/31.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.07	− 0 44.5	1.285	2.170	15.4	19.9
3 12	13 6.35	− 0 6.0	1.202	2.146	11.1	19.5
3 22	12 58.81	+ 0 42.3	1.140	2.122	6.2	19.2
4 1	12 49.29	+ 1 33.1	1.103	2.099	3.0	18.9
4 11	12 39.18	+ 2 17.2	1.090	2.076	6.9	19.1
4 21	12 29.95	+ 2 46.2	1.101	2.053	12.3	19.3
5 1	12 22.94	+ 2 54.4	1.133	2.031	17.4	19.5
5 11	12 19.01	+ 2 39.6	1.183	2.009	21.7	19.7

13332 Benkhoff 4 2.5 141°.71 0°.5/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.49	− 5 59.0	2.113	2.969	11.4	18.9
3 12	13 3.36	− 5 18.2	2.043	2.973	8.1	18.7
3 22	12 56.62	− 4 27.7	1.998	2.977	4.4	18.5
4 1	12 48.95	− 3 32.2	1.982	2.981	0.7	18.2
4 11	12 41.20	− 2 37.2	1.994	2.984	3.6	18.4
4 21	12 34.16	− 1 48.2	2.034	2.987	7.4	18.7
5 1	12 28.53	− 1 9.7	2.101	2.991	10.8	18.9
5 11	12 24.77	− 0 44.6	2.189	2.993	13.7	19.1

251943 1999 XY_{8} 4 2.5 179°.71 8°.5/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.71	−30 8.4	1.331	2.108	21.2	20.2
3 12	13 6.79	−29 37.5	1.252	2.110	17.8	19.9
3 22	12 58.95	−28 23.2	1.190	2.110	13.9	19.7
4 1	12 49.29	−26 24.0	1.150	2.111	10.2	19.5
4 11	12 39.39	−23 46.6	1.135	2.110	8.5	19.4
4 21	12 30.79	−20 45.9	1.145	2.110	10.4	19.5
5 1	12 24.73	−17 40.7	1.180	2.108	14.2	19.7
5 11	12 21.87	−14 49.0	1.237	2.107	18.3	19.9

40432 1999 RW_{29} 4 2.5 266°.79 7°.0/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.08	−26 19.2	2.266	3.019	14.1	19.2
3 12	13 7.83	−27 0.4	2.152	2.994	11.9	19.0
3 22	12 59.39	−27 22.1	2.060	2.967	9.6	18.8
4 1	12 49.37	−27 21.4	1.994	2.940	7.6	18.6
4 11	12 38.75	−26 58.4	1.955	2.913	7.1	18.5
4 21	12 28.58	−26 16.3	1.943	2.884	8.5	18.5
5 1	12 19.88	−25 21.1	1.957	2.856	11.0	18.6
5 11	12 13.41	−24 20.7	1.994	2.826	13.8	18.7

278222 2007 ED_{80} 4 2.5 24°.28 3°.5/ 5.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.05	−14 28.3	1.425	2.272	16.5	19.8
3 12	13 5.14	−14 38.7	1.362	2.279	12.5	19.6
3 22	12 57.86	−14 29.0	1.321	2.286	8.1	19.4
4 1	12 49.14	−14 0.8	1.304	2.295	4.2	19.2
4 11	12 40.27	−13 19.7	1.312	2.304	4.6	19.2
4 21	12 32.49	−12 33.0	1.345	2.314	8.7	19.5
5 1	12 26.81	−11 48.7	1.402	2.325	12.9	19.7
5 11	12 23.82	−11 13.6	1.479	2.336	16.5	20.0

335546 2006 BT_{78} 4 2.5 272°.62 2°.3/ 4.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.75	−12 43.0	1.916	2.752	13.3	21.3
3 12	13 5.28	−12 43.8	1.832	2.745	10.0	21.1
3 22	12 57.84	−12 29.9	1.772	2.739	6.3	20.8
4 1	12 49.14	−12 2.9	1.738	2.732	2.8	20.6
4 11	12 40.18	−11 27.1	1.733	2.725	3.7	20.6
4 21	12 31.94	−10 47.8	1.754	2.718	7.5	20.8
5 1	12 25.31	−10 10.9	1.802	2.711	11.2	21.0
5 11	12 20.88	− 9 41.6	1.871	2.705	14.6	21.2

499844 2011 ES_{23} 4 2.5 134°.66 1°.6/ 4.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 12.30	−11 1.0	1.992	2.829	12.8	21.5
3 12	13 6.18	−10 56.2	1.921	2.837	9.5	21.3
3 22	12 58.23	−10 38.4	1.874	2.844	5.7	21.1
4 1	12 49.18	−10 10.1	1.855	2.850	2.1	20.9
4 11	12 40.02	− 9 35.6	1.864	2.857	3.4	21.0
4 21	12 31.68	− 9 0.1	1.901	2.863	7.2	21.2
5 1	12 24.95	− 8 28.8	1.965	2.869	10.8	21.4
5 11	12 20.35	− 8 5.9	2.051	2.874	13.8	21.6

226783 2004 RQ_{153} 4 2.5 122°.84 0°.9/ 3.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.34	−12 11.8	2.148	2.984	12.1	20.5
3 12	13 3.19	−11 11.4	2.081	2.998	8.8	20.3
3 22	12 56.49	− 9 56.0	2.039	3.011	5.1	20.1
4 1	12 48.94	− 8 30.2	2.026	3.023	1.4	19.8
4 11	12 41.37	− 7 0.7	2.043	3.036	3.1	20.0
4 21	12 34.57	− 5 34.6	2.088	3.048	6.8	20.2
5 1	12 29.18	− 4 18.1	2.160	3.059	10.2	20.5
5 11	12 25.64	− 3 15.6	2.256	3.070	13.0	20.7

383972 2008 TF_{83} 4 2.5 191°.28 1°.6/ 4.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.51	−12 26.9	2.058	2.894	12.5	21.4
3 12	13 3.49	−11 57.3	1.979	2.894	9.3	21.2
3 22	12 56.76	−11 12.6	1.924	2.893	5.6	21.0
4 1	12 48.99	−10 16.0	1.897	2.892	2.1	20.7
4 11	12 41.07	− 9 12.8	1.898	2.891	3.2	20.8
4 21	12 33.87	− 8 9.4	1.927	2.890	7.0	21.0
5 1	12 28.12	− 7 11.7	1.983	2.889	10.6	21.3
5 11	12 24.34	− 6 24.9	2.061	2.888	13.7	21.5

377470 2004 XX_{161} 4 2.5 174°.79 1°.9/31.1 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.57	+ 0 34.6	2.925	3.779	8.7	21.6
3 12	13 4.44	+ 1 12.4	2.853	3.783	6.1	21.4
3 22	12 57.08	+ 1 53.1	2.808	3.786	3.4	21.3
4 1	12 49.03	+ 2 33.0	2.795	3.788	1.9	21.2
4 11	12 40.92	+ 3 8.2	2.812	3.789	3.9	21.3
4 21	12 33.35	+ 3 35.7	2.859	3.790	6.6	21.5
5 1	12 26.86	+ 3 52.9	2.934	3.790	9.1	21.6
5 11	12 21.84	+ 3 58.8	3.031	3.789	11.3	21.8

165216 2000 SN_{33} 4 2.5 129°.38 0°.9/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.55	−10 25.7	1.719	2.565	14.1	20.9
3 12	13 6.50	− 9 48.2	1.656	2.578	10.3	20.7
3 22	12 58.43	− 8 54.9	1.617	2.590	5.9	20.5
4 1	12 49.22	− 7 50.7	1.604	2.602	1.4	20.2
4 11	12 39.96	− 6 42.5	1.620	2.613	3.7	20.4
4 21	12 31.70	− 5 37.8	1.663	2.624	8.1	20.7
5 1	12 25.28	− 4 43.3	1.732	2.634	12.1	20.9
5 11	12 21.23	− 4 3.3	1.822	2.643	15.4	21.2

242711 2005 UW_{56} 4 2.5 135°.24 1°.8/ 4.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.12	−12 34.3	1.662	2.500	14.9	21.1
3 12	13 7.70	−12 4.2	1.598	2.514	11.0	20.9
3 22	12 59.12	−11 15.9	1.557	2.526	6.6	20.7
4 1	12 49.31	−10 13.6	1.543	2.539	2.3	20.4
4 11	12 39.45	− 9 4.2	1.557	2.550	3.8	20.5
4 21	12 30.65	− 7 55.7	1.598	2.560	8.2	20.8
5 1	12 23.83	− 6 55.4	1.665	2.570	12.3	21.1
5 11	12 19.50	− 6 8.8	1.753	2.579	15.7	21.3

153770 2001 VO_{29} 4 2.5 146°.06 2°.4/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.97	− 0 2.3	2.084	2.949	11.2	20.6
3 12	13 5.08	+ 0 46.7	2.022	2.957	7.9	20.4
3 22	12 57.55	+ 1 40.3	1.986	2.965	4.4	20.2
4 1	12 49.10	+ 2 33.1	1.979	2.973	2.4	20.1
4 11	12 40.60	+ 3 19.2	2.001	2.980	5.0	20.3
4 21	12 32.90	+ 3 54.0	2.050	2.986	8.5	20.5
5 1	12 26.70	+ 4 14.4	2.125	2.993	11.7	20.7
5 11	12 22.44	+ 4 19.3	2.221	2.998	14.4	20.9

88912 2001 TS_{8} 4 2.5 160°.52 4°.6/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.64	−19 14.2	1.714	2.525	15.8	19.1
3 12	13 7.52	−19 14.8	1.639	2.530	12.4	18.9
3 22	12 59.12	−18 52.8	1.585	2.535	8.6	18.7
4 1	12 49.32	−18 9.0	1.557	2.539	5.4	18.5
4 11	12 39.33	−17 8.1	1.556	2.542	5.1	18.5
4 21	12 30.29	−15 57.6	1.582	2.545	8.2	18.7
5 1	12 23.21	−14 46.1	1.633	2.548	11.9	18.9
5 11	12 18.68	−13 41.9	1.706	2.549	15.3	19.1

472206 2014 EQ_{17} 4 2.5 321°.74 3°.0/30.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.36	+ 1 58.3	2.080	2.953	10.8	20.9
3 12	13 2.64	+ 2 41.9	2.006	2.945	7.7	20.7
3 22	12 56.28	+ 3 29.0	1.958	2.936	4.5	20.5
4 1	12 48.93	+ 4 14.1	1.937	2.928	3.0	20.4
4 11	12 41.43	+ 4 51.5	1.944	2.920	5.5	20.5
4 21	12 34.59	+ 5 16.8	1.978	2.913	8.8	20.7
5 1	12 29.14	+ 5 27.0	2.037	2.905	12.1	20.9
5 11	12 25.55	+ 5 21.1	2.116	2.898	14.8	21.1

104134 2000 EB_{63} 4 2.5 190°.53 0°.9/ 1.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.09	− 4 45.0	2.295	3.152	10.6	20.2
3 12	13 3.01	− 4 3.1	2.220	3.151	7.5	20.0
3 22	12 56.42	− 3 13.0	2.171	3.150	4.1	19.7
4 1	12 48.95	− 2 19.1	2.150	3.149	0.9	19.5
4 11	12 41.37	− 1 26.5	2.159	3.147	3.7	19.7
4 21	12 34.42	− 0 40.2	2.196	3.146	7.2	19.9
5 1	12 28.76	− 0 4.3	2.259	3.144	10.4	20.1
5 11	12 24.84	+ 0 18.6	2.345	3.141	13.1	20.3

313677 2003 SW_{258} 4 2.5 208°.77 5°.1/ 7.5 16

3 2	13 13.87	−22 7.1	2.176	2.957	13.8	21.7
3 12	13 7.46	−22 17.0	2.081	2.950	11.2	21.5
3 22	12 59.04	−22 6.8	2.009	2.942	8.3	21.3
4 1	12 49.33	−21 36.1	1.964	2.933	5.8	21.2
4 11	12 39.30	−20 47.6	1.947	2.924	5.3	21.1
4 21	12 29.93	−19 46.5	1.958	2.913	7.5	21.2
5 1	12 22.14	−18 39.7	1.996	2.902	10.5	21.4
5 11	12 16.53	−17 34.7	2.057	2.890	13.5	21.5

116170 2003 XW_{2} 4 2.5 206°.41 5°.9/26.5 18

3 2	13 9.98	+12 55.2	2.374	3.240	9.9	20.0
3 12	13 4.30	+13 59.4	2.313	3.236	7.7	19.8
3 22	12 57.11	+14 58.5	2.278	3.232	6.1	19.7
4 1	12 49.05	+15 46.3	2.271	3.227	6.2	19.7
4 11	12 40.91	+16 17.6	2.293	3.222	7.9	19.8
4 21	12 33.44	+16 29.9	2.340	3.216	10.3	19.9
5 1	12 27.30	+16 22.1	2.410	3.210	12.7	20.1
5 11	12 22.94	+15 55.8	2.500	3.204	14.7	20.2

196707 2003 SB_{89} 4 2.5 170°.26 3°.4/ 6.4 18

3 2	13 10.25	−18 5.0	2.402	3.204	12.1	20.7
3 12	13 4.57	−18 0.9	2.319	3.207	9.4	20.5
3 22	12 57.31	−17 40.8	2.261	3.210	6.5	20.3
4 1	12 49.08	−17 6.0	2.230	3.212	3.9	20.1
4 11	12 40.71	−16 19.8	2.228	3.214	3.8	20.1
4 21	12 32.99	−15 27.0	2.254	3.215	6.3	20.3
5 1	12 26.60	−14 33.3	2.308	3.216	9.2	20.5
5 11	12 22.04	−13 44.0	2.386	3.217	11.9	20.6

298884 2004 SC_{46} 4 2.6 155°.96 1°.3/ 3.9 18

3 2	13 12.76	−12 12.4	1.983	2.815	13.1	21.7
3 12	13 6.49	−11 33.0	1.911	2.825	9.6	21.5
3 22	12 58.39	−10 37.9	1.864	2.834	5.7	21.3
4 1	12 49.23	− 9 30.9	1.846	2.842	1.9	21.0
4 11	12 39.99	− 8 18.1	1.856	2.849	3.4	21.1
4 21	12 31.61	− 7 6.7	1.896	2.856	7.3	21.4
5 1	12 24.88	− 6 3.0	1.962	2.861	11.0	21.6
5 11	12 20.29	− 5 12.1	2.050	2.865	14.1	21.8

196654 2003 SS_{34} 4 2.6 193°.91 2°.1/ 4.7 17

3 2	13 9.38	−13 35.7	2.203	3.031	12.1	21.0
3 12	13 4.05	−13 18.1	2.121	3.030	9.1	20.8
3 22	12 57.06	−12 45.9	2.063	3.028	5.7	20.5
4 1	12 49.06	−12 1.6	2.033	3.027	2.5	20.3
4 11	12 40.90	−11 9.4	2.032	3.024	3.2	20.4
4 21	12 33.40	−10 14.9	2.059	3.022	6.6	20.6
5 1	12 27.29	− 9 23.8	2.113	3.019	10.0	20.8
5 11	12 23.08	− 8 40.8	2.190	3.016	13.0	21.0

422221 2014 RL_{61} 4 2.6 291°.90 5°.2/29.9 17

3 2	13 13.17	+ 4 3.9	1.330	2.214	15.0	20.4
3 12	13 7.80	+ 4 57.8	1.249	2.192	10.9	20.1
3 22	12 59.59	+ 5 56.1	1.191	2.169	6.8	19.8
4 1	12 49.45	+ 6 49.6	1.157	2.146	5.3	19.6
4 11	12 38.74	+ 7 28.5	1.149	2.122	8.7	19.7
4 21	12 28.96	+ 7 45.4	1.164	2.099	13.5	19.9
5 1	12 21.40	+ 7 36.6	1.200	2.077	18.1	20.1
5 11	12 16.91	+ 7 2.2	1.253	2.054	22.1	20.3

268015 2004 NR_{7} 4 2.6 254°.22 4°.5/27.9 18 R

3 2	13 8.72	+ 5 4.2	2.162	3.035	10.5	20.7
3 12	13 3.68	+ 6 38.7	2.078	3.014	7.6	20.4
3 22	12 56.92	+ 8 17.2	2.020	2.992	5.1	20.2
4 1	12 49.06	+ 9 52.1	1.992	2.970	4.8	20.2
4 11	12 40.93	+11 15.3	1.993	2.947	7.2	20.3
4 21	12 33.37	+12 20.6	2.021	2.924	10.4	20.4
5 1	12 27.15	+13 4.4	2.072	2.900	13.5	20.6
5 11	12 22.81	+13 25.6	2.143	2.875	16.1	20.7

170811 2004 DY_{51} 4 2.6 82°.66 3°.1/29.8 17

3 2	13 6.52	+ 1 21.9	2.125	2.999	10.7	19.8
3 12	13 1.92	+ 2 36.7	2.067	3.006	7.5	19.6
3 22	12 55.82	+ 3 55.4	2.035	3.014	4.4	19.4
4 1	12 48.89	+ 5 11.6	2.032	3.021	3.2	19.4
4 11	12 41.92	+ 6 18.6	2.057	3.029	5.6	19.5
4 21	12 35.67	+ 7 11.3	2.110	3.036	8.8	19.7
5 1	12 30.76	+ 7 46.5	2.186	3.044	11.8	19.9
5 11	12 27.63	+ 8 3.2	2.284	3.051	14.3	20.1

35321 1997 CU_{9} 4 2.6 265°.89 5°.1/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 11.38	−21 52.7	2.462	3.241	12.5	19.5
3 12	13 5.55	−22 25.9	2.365	3.230	10.1	19.3
3 22	12 57.96	−22 43.0	2.291	3.219	7.7	19.1
4 1	12 49.21	−22 43.2	2.244	3.208	5.6	18.9
4 11	12 40.13	−22 27.8	2.225	3.197	5.2	18.9
4 21	12 31.57	−21 59.9	2.234	3.186	6.9	19.0
5 1	12 24.33	−21 24.7	2.270	3.175	9.5	19.1
5 11	12 18.97	−20 47.7	2.330	3.163	12.1	19.3

67385 2000 OU_{21} 4 2.6 37°.37 14°.4/17.6 18

3 2	13 4.95	+18 45.7	1.023	1.925	16.9	17.1
3 12	13 1.88	+22 49.4	1.015	1.941	14.7	17.0
3 22	12 56.12	+26 25.0	1.030	1.959	14.6	17.0
4 1	12 48.93	+29 11.9	1.068	1.978	16.3	17.2
4 11	12 41.90	+30 59.5	1.125	1.998	18.9	17.4
4 21	12 36.37	+31 48.3	1.199	2.018	21.6	17.7
5 1	12 33.27	+31 45.1	1.287	2.039	23.9	17.9
5 11	12 33.02	+31 0.3	1.384	2.061	25.7	18.1

473143 2015 KL_{6} 4 2.6 240°.95 4°.6/27.7 17

3 2	13 6.81	+ 8 19.8	2.409	3.283	9.6	21.4
3 12	13 2.05	+ 9 27.0	2.345	3.279	7.0	21.2
3 22	12 55.89	+10 32.7	2.308	3.274	5.0	21.1
4 1	12 48.92	+11 31.1	2.298	3.270	4.9	21.1
4 11	12 41.86	+12 16.8	2.317	3.266	6.8	21.2
4 21	12 35.40	+12 46.3	2.363	3.261	9.3	21.4
5 1	12 30.15	+12 57.6	2.433	3.257	11.8	21.5
5 11	12 26.54	+12 51.1	2.522	3.252	14.0	21.7

261948 2006 PS_{1} 4 2.6 248°.57 3°.3/ 5.4 17

3 2	13 12.48	−15 47.0	1.855	2.678	14.2	21.5
3 12	13 6.74	−15 43.2	1.759	2.662	11.0	21.2
3 22	12 58.79	−15 20.7	1.686	2.646	7.3	21.0
4 1	12 49.35	−14 40.6	1.639	2.629	3.9	20.7
4 11	12 39.48	−13 46.9	1.620	2.611	4.2	20.7
4 21	12 30.29	−12 46.1	1.629	2.593	7.9	20.9
5 1	12 22.80	−11 45.8	1.663	2.574	12.0	21.1
5 11	12 17.69	−10 53.0	1.719	2.555	15.6	21.3

417624 2006 WP_{150} 4 2.6 142°.36 3°.2/30.1 18

3 2	13 11.60	+ 2 23.1	2.181	3.046	10.8	21.5
3 12	13 5.44	+ 3 24.0	2.125	3.059	7.6	21.3
3 22	12 57.73	+ 4 27.4	2.095	3.072	4.5	21.1
4 1	12 49.17	+ 5 27.3	2.095	3.084	3.3	21.1
4 11	12 40.61	+ 6 17.9	2.124	3.095	5.6	21.2
4 21	12 32.85	+ 6 54.9	2.181	3.105	8.7	21.4
5 1	12 26.56	+ 7 15.8	2.263	3.115	11.6	21.7
5 11	12 22.15	+ 7 20.0	2.366	3.124	14.1	21.8

382888 2004 PD_{40} 4 2.6 206°.45 2°.6/ 5.6 17

3 2	13 11.52	−16 1.9	2.680	3.483	10.9	22.5
3 12	13 5.40	−15 56.7	2.584	3.476	8.4	22.3
3 22	12 57.77	−15 38.1	2.514	3.468	5.6	22.2
4 1	12 49.19	−15 7.3	2.473	3.460	3.1	22.0
4 11	12 40.40	−14 27.2	2.462	3.450	3.2	22.0
4 21	12 32.14	−13 41.9	2.481	3.440	5.9	22.1
5 1	12 25.07	−12 56.3	2.528	3.429	8.8	22.3
5 11	12 19.68	−12 14.9	2.599	3.418	11.4	22.4

315394 2007 VY_{118} 4 2.6 38°.19 1°.9/ 1.1 18

3 2	13 9.49	− 3 51.9	1.265	2.147	15.8	20.6
3 12	13 4.79	− 2 58.0	1.214	2.157	11.1	20.4
3 22	12 57.66	− 1 52.2	1.186	2.168	6.0	20.1
4 1	12 49.17	− 0 42.6	1.182	2.179	1.9	19.9
4 11	12 40.67	+ 0 20.7	1.203	2.191	5.8	20.2
4 21	12 33.40	+ 1 9.8	1.249	2.204	10.8	20.5
5 1	12 28.34	+ 1 39.1	1.316	2.217	15.2	20.8
5 11	12 26.01	+ 1 46.8	1.402	2.230	18.8	21.0

65902 1998 DW_{17} 4 2.6 173°.01 1°.1/ 1.5 18

3 2	13 13.12	− 4 14.8	2.030	2.884	11.9	20.8
3 12	13 6.73	− 3 35.4	1.958	2.888	8.5	20.5
3 22	12 58.54	− 2 47.5	1.913	2.891	4.6	20.3
4 1	12 49.29	− 1 55.8	1.895	2.894	1.1	20.1
4 11	12 39.94	− 1 6.2	1.908	2.895	4.1	20.3
4 21	12 31.38	− 0 24.0	1.948	2.896	8.1	20.5
5 1	12 24.41	+ 0 6.5	2.015	2.896	11.6	20.7
5 11	12 19.52	+ 0 22.8	2.103	2.895	14.6	20.9

151883 2003 WQ_{25} 4 2.6 166°.33 1°.2/31.2 18

3 2	13 1.49	+ 0 3.5	4.496	5.354	5.8	20.3
3 12	12 57.78	+ 0 31.3	4.423	5.355	4.0	20.1
3 22	12 53.37	+ 1 1.1	4.377	5.356	2.2	20.0
4 1	12 48.58	+ 1 30.5	4.362	5.357	1.2	19.9
4 11	12 43.75	+ 1 57.5	4.378	5.357	2.5	20.0
4 21	12 39.21	+ 2 20.1	4.423	5.358	4.3	20.2
5 1	12 35.26	+ 2 36.6	4.495	5.359	6.1	20.3
5 11	12 32.14	+ 2 46.0	4.592	5.359	7.6	20.4

379325 2009 WM_{42} 4 2.6 166°.69 2°.7/31.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 10.92	+ 0 57.3	1.942	2.811	11.7	20.8
3 12	13 5.22	+ 1 36.8	1.876	2.812	8.3	20.6
3 22	12 57.73	+ 2 20.2	1.834	2.813	4.7	20.4
4 1	12 49.19	+ 3 2.2	1.821	2.814	2.8	20.2
4 11	12 40.55	+ 3 36.8	1.836	2.815	5.4	20.4
4 21	12 32.72	+ 3 59.6	1.878	2.816	9.0	20.6
5 1	12 26.46	+ 4 7.7	1.945	2.816	12.4	20.8
5 11	12 22.29	+ 4 0.0	2.032	2.817	15.3	21.0

20368 1998 KF_{10} 4 2.6 207°.63 0°.9/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.39	− 5 37.0	2.002	2.861	11.8	18.8
3 12	13 3.43	− 4 45.8	1.927	2.859	8.4	18.6
3 22	12 56.76	− 3 44.0	1.878	2.857	4.5	18.3
4 1	12 49.06	− 2 36.7	1.856	2.854	0.9	18.1
4 11	12 41.22	− 1 30.5	1.863	2.852	4.0	18.3
4 21	12 34.09	− 0 31.7	1.898	2.849	8.0	18.5
5 1	12 28.44	+ 0 14.6	1.958	2.846	11.6	18.7
5 11	12 24.74	+ 0 45.3	2.039	2.843	14.6	18.9

63657 2001 QV_{114} 4 2.6 118°.67 2°.1/ 4.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.99	−14 33.2	1.587	2.424	15.5	19.4
3 12	13 6.26	−13 43.2	1.525	2.439	11.6	19.2
3 22	12 58.37	−12 31.5	1.486	2.454	7.1	18.9
4 1	12 49.27	−11 3.1	1.473	2.468	2.7	18.7
4 11	12 40.16	− 9 26.7	1.487	2.481	3.9	18.8
4 21	12 32.14	− 7 52.0	1.530	2.494	8.3	19.1
5 1	12 26.11	− 6 27.9	1.597	2.506	12.4	19.4
5 11	12 22.56	− 5 20.7	1.686	2.518	16.0	19.6

325108 2008 EQ_{33} 4 2.6 134°.08 0°.6/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.47	− 9 6.0	1.974	2.817	12.7	22.0
3 12	13 6.26	− 8 35.4	1.909	2.831	9.2	21.8
3 22	12 58.26	− 7 52.3	1.869	2.843	5.2	21.6
4 1	12 49.26	− 7 0.8	1.857	2.856	1.1	21.3
4 11	12 40.22	− 6 6.7	1.875	2.867	3.4	21.5
4 21	12 32.05	− 5 15.8	1.920	2.878	7.4	21.8
5 1	12 25.52	− 4 33.4	1.992	2.889	11.0	22.0
5 11	12 21.09	− 4 3.2	2.086	2.898	14.0	22.2

28024 1998 BT_{14} 4 2.6 309°.18 4°.6/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.41	−20 26.5	2.149	2.949	13.4	17.3
3 12	13 3.52	−20 33.1	2.062	2.944	10.7	17.1
3 22	12 56.86	−20 20.9	1.998	2.939	7.7	16.9
4 1	12 49.08	−19 50.4	1.959	2.935	5.2	16.7
4 11	12 41.07	−19 4.6	1.948	2.930	4.8	16.7
4 21	12 33.72	−18 8.7	1.965	2.926	7.0	16.8
5 1	12 27.80	−17 9.2	2.007	2.922	10.0	17.0
5 11	12 23.88	−16 12.7	2.072	2.918	12.9	17.2

90825 Lizhensheng 4 2.6 181°.89 0°.0/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.47	− 7 32.3	2.193	3.041	11.4	20.3
3 12	13 4.07	− 6 53.7	2.116	3.042	8.2	20.1
3 22	12 57.07	− 6 4.3	2.066	3.042	4.5	19.9
4 1	12 49.11	− 5 8.3	2.043	3.042	0.6	19.6
4 11	12 41.02	− 4 11.0	2.050	3.041	3.4	19.8
4 21	12 33.62	− 3 17.9	2.086	3.041	7.1	20.0
5 1	12 27.59	− 2 33.9	2.147	3.039	10.5	20.2
5 11	12 23.43	− 2 2.4	2.231	3.037	13.4	20.4

506279 2016 SC_{6} 4 2.6 337°.70 5°.5/ 9.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.94	−24 36.4	2.020	2.806	14.6	20.1
3 12	13 1.17	−24 20.1	1.930	2.798	11.9	19.9
3 22	12 55.60	−23 39.2	1.860	2.790	9.0	19.7
4 1	12 48.91	−22 34.1	1.816	2.783	6.4	19.5
4 11	12 42.01	−21 9.1	1.798	2.776	5.6	19.4
4 21	12 35.80	−19 31.1	1.807	2.770	7.4	19.5
5 1	12 31.08	−17 48.8	1.842	2.764	10.3	19.7
5 11	12 28.40	−16 11.1	1.900	2.759	13.4	19.9

241179 2007 RK_{241} 4 2.6 276°.88 5°.4/28.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.78	+ 4 8.2	1.477	2.361	13.8	20.7
3 12	13 5.80	+ 5 33.3	1.399	2.341	10.0	20.4
3 22	12 58.37	+ 7 4.4	1.345	2.321	6.5	20.2
4 1	12 49.31	+ 8 31.3	1.317	2.301	5.7	20.1
4 11	12 39.85	+ 9 43.3	1.315	2.281	8.8	20.2
4 21	12 31.24	+10 32.2	1.337	2.260	13.1	20.4
5 1	12 24.61	+10 53.5	1.381	2.240	17.2	20.6
5 11	12 20.66	+10 47.2	1.441	2.219	20.8	20.7

63725 2001 QP_{235} 4 2.6 162°.35 1°.0/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.85	−11 30.6	2.478	3.312	10.7	19.5
3 12	13 2.07	−10 49.4	2.400	3.316	7.8	19.4
3 22	12 55.91	− 9 55.7	2.348	3.318	4.6	19.2
4 1	12 48.95	− 8 53.0	2.324	3.321	1.4	18.9
4 11	12 41.90	− 7 46.1	2.330	3.323	2.7	19.0
4 21	12 35.45	− 6 40.5	2.365	3.325	6.1	19.3
5 1	12 30.18	− 5 41.1	2.428	3.327	9.2	19.4
5 11	12 26.54	− 4 51.9	2.514	3.329	11.8	19.6

294240 2007 UN_{40} 4 2.6 244°.18 0°.8/ 3.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.54	− 9 44.0	2.314	3.154	11.1	21.5
3 12	13 3.44	− 9 18.6	2.224	3.144	8.2	21.3
3 22	12 56.75	− 8 41.6	2.160	3.133	4.7	21.1
4 1	12 49.07	− 7 55.9	2.125	3.122	1.2	20.8
4 11	12 41.19	− 7 6.1	2.118	3.111	3.0	20.9
4 21	12 33.87	− 6 17.1	2.140	3.100	6.7	21.1
5 1	12 27.83	− 5 34.0	2.189	3.088	10.0	21.3
5 11	12 23.57	− 5 0.7	2.261	3.076	13.0	21.5

302832 2003 FK_{13} 4 2.6 61°.88 1°.3/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.20	− 5 18.2	2.181	3.043	10.9	20.6
3 12	13 0.99	− 3 59.7	2.115	3.050	7.6	20.4
3 22	12 55.34	− 2 31.3	2.076	3.056	4.1	20.2
4 1	12 48.87	− 0 59.0	2.065	3.063	1.3	20.0
4 11	12 42.35	+ 0 29.9	2.084	3.069	4.1	20.2
4 21	12 36.49	+ 1 49.2	2.131	3.076	7.6	20.4
5 1	12 31.92	+ 2 53.8	2.203	3.083	10.8	20.6
5 11	12 29.06	+ 3 40.9	2.298	3.090	13.5	20.8

53234 1999 CU_{117} 4 2.6 346°.46 8°.5/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.00	−24 59.0	1.288	2.104	19.7	17.7
3 12	13 2.09	−25 28.6	1.209	2.092	16.4	17.4
3 22	12 56.49	−25 25.8	1.147	2.082	12.8	17.1
4 1	12 49.06	−24 47.7	1.107	2.073	9.6	16.9
4 11	12 41.19	−23 37.4	1.089	2.066	8.5	16.8
4 21	12 34.30	−22 3.8	1.093	2.060	10.5	16.9
5 1	12 29.68	−20 19.5	1.119	2.055	14.2	17.1
5 11	12 28.10	−18 38.3	1.165	2.052	18.0	17.3

34483 2000 SW_{123} 4 2.6 153°.10 3°.3/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.85	+ 4 47.0	2.483	3.350	9.5	18.8
3 12	13 3.42	+ 5 25.9	2.418	3.353	6.8	18.7
3 22	12 56.62	+ 6 5.1	2.381	3.355	4.2	18.5
4 1	12 49.05	+ 6 39.9	2.372	3.358	3.4	18.4
4 11	12 41.42	+ 7 6.0	2.393	3.360	5.3	18.6
4 21	12 34.42	+ 7 20.4	2.441	3.362	8.0	18.7
5 1	12 28.65	+ 7 21.2	2.514	3.364	10.7	18.9
5 11	12 24.51	+ 7 8.3	2.609	3.366	13.0	19.1

248348 2005 QH_{114} 4 2.6 261°.52 0°.7/ 3.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.95	− 8 12.7	2.460	3.301	10.6	20.6
3 12	13 4.38	− 8 8.6	2.369	3.289	7.7	20.4
3 22	12 57.25	− 7 55.8	2.303	3.276	4.4	20.2
4 1	12 49.15	− 7 36.5	2.266	3.264	1.1	19.9
4 11	12 40.82	− 7 13.8	2.259	3.251	2.9	20.0
4 21	12 33.02	− 6 51.6	2.280	3.239	6.4	20.2
5 1	12 26.43	− 6 33.6	2.329	3.226	9.6	20.4
5 11	12 21.57	− 6 23.0	2.400	3.213	12.4	20.6

1719 Jens 4 2.6 175°.79 5°.2/ 8.2 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.13	−23 25.7	2.473	3.240	12.7	17.0
3 12	13 6.71	−23 45.2	2.386	3.243	10.4	16.8
3 22	12 58.56	−23 46.7	2.322	3.245	7.9	16.6
4 1	12 49.33	−23 29.7	2.285	3.246	5.8	16.5
4 11	12 39.90	−22 56.2	2.277	3.247	5.3	16.5
4 21	12 31.10	−22 10.4	2.297	3.247	6.9	16.6
5 1	12 23.71	−21 17.9	2.344	3.247	9.3	16.7
5 11	12 18.26	−20 25.0	2.416	3.246	11.8	16.9

501267 2013 WV_{13} 4 2.6 227°.20 3°.2/30.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.34	+ 1 30.5	2.014	2.887	11.2	21.4
3 12	13 3.37	+ 2 31.6	1.946	2.884	7.9	21.2
3 22	12 56.72	+ 3 37.2	1.903	2.882	4.6	21.0
4 1	12 49.08	+ 4 40.8	1.888	2.879	3.2	20.9
4 11	12 41.31	+ 5 35.9	1.902	2.876	5.8	21.0
4 21	12 34.27	+ 6 17.3	1.942	2.873	9.2	21.2
5 1	12 28.68	+ 6 41.6	2.007	2.870	12.4	21.4
5 11	12 25.03	+ 6 47.8	2.092	2.867	15.2	21.6

196139 2002 TW_{261} 4 2.6 163°.78 1°.4/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.54	− 2 28.0	2.407	3.265	10.1	20.9
3 12	13 3.26	− 1 46.5	2.336	3.269	7.1	20.7
3 22	12 56.57	− 0 59.1	2.293	3.272	3.8	20.5
4 1	12 49.05	− 0 10.2	2.278	3.275	1.4	20.4
4 11	12 41.46	+ 0 35.5	2.293	3.277	3.9	20.5
4 21	12 34.50	+ 1 13.5	2.336	3.279	7.2	20.7
5 1	12 28.79	+ 1 40.6	2.405	3.281	10.2	20.9
5 11	12 24.74	+ 1 54.8	2.497	3.283	12.7	21.1

186876 2004 HR_{61} 4 2.6 267°.25 6°.2/28.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.98	+10 20.4	1.798	2.670	12.3	20.2
3 12	13 7.67	+11 8.7	1.725	2.656	9.3	20.0
3 22	12 59.22	+11 53.0	1.677	2.642	6.8	19.8
4 1	12 49.44	+12 25.8	1.656	2.627	6.4	19.8
4 11	12 39.42	+12 40.5	1.661	2.613	8.7	19.9
4 21	12 30.25	+12 33.8	1.692	2.598	11.9	20.0
5 1	12 22.87	+12 4.9	1.746	2.583	15.2	20.2
5 11	12 17.88	+11 15.5	1.819	2.567	18.0	20.4

168750 2000 QZ_{162} 4 2.6 213°.63 3°.6/ 7.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.19	−19 46.2	2.629	3.421	11.4	20.5
3 12	13 3.08	−19 41.3	2.537	3.416	9.0	20.3
3 22	12 56.52	−19 20.6	2.469	3.411	6.4	20.1
4 1	12 49.06	−18 45.1	2.428	3.405	4.2	20.0
4 11	12 41.42	−17 57.6	2.417	3.400	3.9	19.9
4 21	12 34.32	−17 2.5	2.434	3.394	5.9	20.1
5 1	12 28.39	−16 5.2	2.478	3.387	8.6	20.2
5 11	12 24.11	−15 10.8	2.547	3.381	11.1	20.4

23841 1998 QG_{102} 4 2.6 106°.17 2°.3/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.34	− 1 2.7	2.018	2.887	11.3	18.2
3 12	13 3.30	− 0 4.5	1.957	2.894	8.0	18.0
3 22	12 56.65	+ 0 59.7	1.921	2.901	4.4	17.8
4 1	12 49.07	+ 2 3.9	1.913	2.908	2.3	17.7
4 11	12 41.45	+ 3 1.8	1.934	2.915	5.0	17.9
4 21	12 34.59	+ 3 47.8	1.982	2.922	8.5	18.1
5 1	12 29.19	+ 4 18.6	2.055	2.928	11.8	18.3
5 11	12 25.71	+ 4 32.5	2.149	2.935	14.5	18.5

410078 2007 DJ_{15} 4 2.6 90°.53 1°.3/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.61	− 3 25.8	1.861	2.720	12.6	21.4
3 12	13 6.97	− 2 48.4	1.816	2.747	8.9	21.2
3 22	12 58.59	− 2 3.9	1.795	2.775	4.7	21.0
4 1	12 49.33	− 1 17.4	1.803	2.801	1.3	20.8
4 11	12 40.19	− 0 35.0	1.840	2.827	4.3	21.1
4 21	12 32.10	− 0 1.6	1.905	2.853	8.2	21.3
5 1	12 25.76	+ 0 19.3	1.995	2.878	11.6	21.6
5 11	12 21.58	+ 0 26.2	2.106	2.902	14.4	21.8

344033 2012 LS_{23} 4 2.6 319°.03 0°.4/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.47	− 7 24.3	1.558	2.426	14.2	20.6
3 12	13 3.26	− 6 36.3	1.481	2.416	10.2	20.3
3 22	12 56.88	− 5 32.8	1.426	2.406	5.6	20.0
4 1	12 49.13	− 4 19.4	1.397	2.396	0.7	19.7
4 11	12 41.11	− 3 4.4	1.395	2.387	4.5	19.9
4 21	12 33.92	− 1 56.3	1.419	2.379	9.3	20.2
5 1	12 28.54	− 1 2.5	1.466	2.370	13.7	20.4
5 11	12 25.59	− 0 27.4	1.533	2.362	17.4	20.6

37696 1995 WE_{27} 4 2.6 282°.94 6°.4/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.36	−26 57.2	2.472	3.224	13.1	19.0
3 12	13 4.22	−27 24.3	2.366	3.205	11.1	18.8
3 22	12 57.30	−27 32.1	2.282	3.187	8.9	18.6
4 1	12 49.19	−27 19.1	2.223	3.168	7.0	18.5
4 11	12 40.71	−26 46.4	2.191	3.149	6.4	18.4
4 21	12 32.71	−25 57.4	2.186	3.131	7.5	18.4
5 1	12 26.02	−24 57.7	2.207	3.112	9.7	18.5
5 11	12 21.23	−23 54.3	2.252	3.093	12.2	18.6

233663 2008 QM_{47} 4 2.6 147°.40 1°.2/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.28	− 3 57.7	2.020	2.881	11.7	20.9
3 12	13 4.02	− 3 15.0	1.951	2.885	8.2	20.7
3 22	12 57.07	− 2 24.1	1.908	2.888	4.4	20.5
4 1	12 49.14	− 1 29.7	1.893	2.891	1.2	20.3
4 11	12 41.12	− 0 38.0	1.906	2.893	4.2	20.5
4 21	12 33.84	+ 0 5.7	1.947	2.896	8.0	20.7
5 1	12 28.05	+ 0 37.3	2.013	2.898	11.4	20.9
5 11	12 24.22	+ 0 54.2	2.101	2.900	14.4	21.1

494250 2016 QM_{17} 4 2.6 252°.33 2°.8/ 5.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.65	−16 53.7	2.452	3.265	11.5	21.7
3 12	13 2.05	−16 33.4	2.363	3.259	8.9	21.5
3 22	12 55.97	−15 57.4	2.298	3.254	5.9	21.3
4 1	12 49.00	−15 7.6	2.261	3.248	3.3	21.2
4 11	12 41.86	−14 8.0	2.252	3.242	3.3	21.1
4 21	12 35.28	−13 3.7	2.272	3.236	6.0	21.3
5 1	12 29.92	−12 0.4	2.320	3.230	9.0	21.5
5 11	12 26.22	−11 3.3	2.391	3.224	11.8	21.7

379859 2012 GV_{31} 4 2.6 299°.88 0°.2/ 2.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.22	− 5 22.7	1.587	2.451	14.1	20.6
3 12	13 6.83	− 5 15.4	1.496	2.429	10.3	20.3
3 22	12 58.98	− 4 57.5	1.427	2.406	5.7	19.9
4 1	12 49.45	− 4 32.6	1.385	2.384	0.8	19.5
4 11	12 39.40	− 4 6.3	1.370	2.362	4.5	19.7
4 21	12 30.07	− 3 44.3	1.380	2.340	9.5	20.0
5 1	12 22.60	− 3 32.3	1.414	2.318	14.2	20.2
5 11	12 17.77	− 3 34.0	1.468	2.296	18.1	20.4

371252 2006 BT_{172} 4 2.6 158°.90 4°.7/27.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.35	+ 7 46.5	2.358	3.227	9.9	21.4
3 12	13 3.84	+ 9 7.0	2.302	3.234	7.2	21.3
3 22	12 56.88	+10 26.2	2.274	3.241	5.1	21.2
4 1	12 49.12	+11 37.6	2.275	3.247	4.9	21.2
4 11	12 41.33	+12 35.3	2.305	3.252	6.9	21.3
4 21	12 34.22	+13 15.5	2.362	3.257	9.5	21.5
5 1	12 28.43	+13 36.4	2.444	3.261	12.0	21.6
5 11	12 24.36	+13 38.4	2.545	3.265	14.1	21.8

70856 1999 VD_{121} 4 2.6 291°.05 3°.3/31.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 14.08	+ 3 15.3	1.819	2.688	12.4	19.3
3 12	13 7.82	+ 3 32.6	1.732	2.668	8.9	19.0
3 22	12 59.37	+ 3 51.3	1.671	2.648	5.3	18.8
4 1	12 49.50	+ 4 6.3	1.636	2.628	3.3	18.6
4 11	12 39.25	+ 4 12.3	1.630	2.608	6.0	18.7
4 21	12 29.75	+ 4 5.5	1.651	2.588	10.0	18.9
5 1	12 21.95	+ 3 43.4	1.695	2.568	13.9	19.1
5 11	12 16.52	+ 3 5.9	1.761	2.549	17.2	19.3

344226 2001 RE_{138} 4 2.6 213°.00 0°.4/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.89	− 5 33.2	2.397	3.248	10.4	21.1
3 12	13 3.59	− 5 6.9	2.317	3.244	7.5	20.9
3 22	12 56.80	− 4 32.6	2.262	3.240	4.1	20.7
4 1	12 49.12	− 3 53.9	2.237	3.236	0.6	20.4
4 11	12 41.30	− 3 15.0	2.241	3.231	3.3	20.6
4 21	12 34.06	− 2 40.4	2.274	3.226	6.8	20.8
5 1	12 28.07	− 2 13.8	2.333	3.221	9.9	21.0
5 11	12 23.79	− 1 57.8	2.415	3.216	12.7	21.2

464944 2005 UY_{509} 4 2.6 161°.76 0°.3/ 2.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.68	− 7 12.6	2.410	3.248	10.9	21.9
3 12	13 6.92	− 7 1.8	2.336	3.255	7.8	21.8
3 22	12 58.60	− 6 42.7	2.288	3.262	4.4	21.6
4 1	12 49.37	− 6 17.8	2.269	3.268	0.8	21.3
4 11	12 40.04	− 5 50.9	2.281	3.273	3.0	21.5
4 21	12 31.41	− 5 26.0	2.323	3.278	6.5	21.7
5 1	12 24.15	− 5 6.7	2.392	3.281	9.7	21.9
5 11	12 18.73	− 4 55.7	2.485	3.284	12.4	22.1

506020 2015 HV_{89} 4 2.6 237°.48 4°.3/28.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.75	+ 8 15.7	2.384	3.251	9.9	21.6
3 12	13 4.88	+ 8 51.3	2.315	3.245	7.3	21.4
3 22	12 57.49	+ 9 24.7	2.271	3.240	5.0	21.3
4 1	12 49.22	+ 9 50.8	2.257	3.234	4.4	21.2
4 11	12 40.85	+10 5.3	2.271	3.228	6.3	21.3
4 21	12 33.13	+10 5.5	2.312	3.222	9.0	21.5
5 1	12 26.73	+ 9 50.3	2.379	3.216	11.6	21.6
5 11	12 22.09	+ 9 20.1	2.466	3.209	14.0	21.8

163591 2002 TO_{202} 4 2.6 170°.36 2°.9/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.02	+ 3 17.1	2.319	3.183	10.2	20.3
3 12	13 5.06	+ 3 49.2	2.251	3.185	7.3	20.1
3 22	12 57.58	+ 4 22.6	2.211	3.187	4.3	19.9
4 1	12 49.23	+ 4 52.6	2.199	3.188	3.0	19.8
4 11	12 40.81	+ 5 14.9	2.216	3.190	5.1	20.0
4 21	12 33.07	+ 5 26.1	2.261	3.190	8.2	20.2
5 1	12 26.69	+ 5 24.3	2.332	3.191	11.1	20.3
5 11	12 22.10	+ 5 9.0	2.425	3.191	13.6	20.5

264676 2001 XG_{256} 4 2.6 110°.54 1°.0/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.88	− 5 18.7	2.212	3.063	11.2	22.1
3 12	13 4.88	− 4 17.7	2.160	3.089	7.8	22.0
3 22	12 57.42	− 3 8.4	2.135	3.113	4.2	21.8
4 1	12 49.20	− 1 56.2	2.139	3.137	1.0	21.6
4 11	12 41.06	− 0 47.3	2.174	3.161	3.8	21.8
4 21	12 33.74	+ 0 13.0	2.237	3.183	7.3	22.1
5 1	12 27.87	+ 1 0.6	2.327	3.205	10.4	22.3
5 11	12 23.81	+ 1 33.3	2.439	3.226	13.0	22.5

425958 2011 HC_{14} 4 2.6 246°.90 2°.8/30.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.38	+ 0 23.6	2.088	2.957	11.0	21.0
3 12	13 3.42	+ 1 24.1	2.011	2.948	7.8	20.8
3 22	12 56.79	+ 2 30.3	1.960	2.939	4.4	20.6
4 1	12 49.14	+ 3 36.3	1.937	2.929	2.8	20.5
4 11	12 41.31	+ 4 35.4	1.942	2.919	5.4	20.6
4 21	12 34.13	+ 5 22.2	1.975	2.909	8.9	20.8
5 1	12 28.34	+ 5 52.9	2.033	2.899	12.2	21.0
5 11	12 24.45	+ 6 5.9	2.111	2.888	15.0	21.2

206306 2003 HT_{6} 4 2.6 262°.75 0°.6/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.47	− 9 57.5	1.658	2.509	14.3	20.3
3 12	13 6.22	− 9 15.2	1.563	2.488	10.5	20.0
3 22	12 58.62	− 8 14.5	1.490	2.466	6.1	19.7
4 1	12 49.42	− 6 59.5	1.444	2.443	1.3	19.3
4 11	12 39.73	− 5 37.7	1.426	2.419	4.1	19.5
4 21	12 30.74	− 4 17.9	1.435	2.395	9.2	19.7
5 1	12 23.54	− 3 8.7	1.468	2.370	13.8	19.9
5 11	12 18.87	− 2 16.4	1.522	2.345	17.8	20.1

450977 2008 SM_{7} 4 2.6 170°.08 1°.4/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 15.86	− 3 7.3	1.577	2.440	14.3	20.9
3 12	13 9.14	− 2 42.0	1.510	2.444	10.2	20.7
3 22	13 0.08	− 2 7.9	1.466	2.446	5.5	20.4
4 1	12 49.60	− 1 30.4	1.450	2.448	1.4	20.1
4 11	12 38.97	− 0 56.1	1.461	2.449	5.0	20.4
4 21	12 29.39	− 0 30.8	1.499	2.450	9.7	20.7
5 1	12 21.87	− 0 18.9	1.561	2.451	13.9	20.9
5 11	12 17.00	− 0 22.5	1.643	2.451	17.4	21.1

490269 2008 YP_{17} 4 2.6 52.°50 4.°8/ 7.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.59	−20 35.2	2.020	2.820	14.1	21.5
3 12	13 4.40	−20 46.8	1.945	2.827	11.2	21.3
3 22	12 57.37	−20 38.7	1.893	2.834	8.1	21.1
4 1	12 49.23	−20 11.4	1.867	2.841	5.5	21.0
4 11	12 40.94	−19 28.4	1.867	2.849	5.0	21.0
4 21	12 33.43	−18 35.0	1.895	2.856	7.2	21.1
5 1	12 27.49	−17 38.1	1.948	2.864	10.2	21.3
5 11	12 23.65	−16 44.4	2.025	2.871	13.1	21.5

124650 2001 ST_{70} 4 2.6 104.°72 7.°2/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.94	+13 34.8	1.792	2.662	12.5	18.9
3 12	13 7.42	+14 31.4	1.745	2.670	9.6	18.8
3 22	12 58.95	+15 19.7	1.722	2.678	7.5	18.7
4 1	12 49.44	+15 52.2	1.727	2.685	7.5	18.7
4 11	12 39.97	+16 3.2	1.757	2.693	9.4	18.8
4 21	12 31.56	+15 50.9	1.813	2.700	12.2	19.0
5 1	12 24.99	+15 16.0	1.890	2.708	15.0	19.2
5 11	12 20.73	+14 21.3	1.986	2.715	17.3	19.4

133731 2003 UF_{275} 4 2.6 195.°99 0.°0/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.38	− 7 3.0	2.207	3.057	11.3	20.4
3 12	13 4.05	− 6 34.5	2.129	3.055	8.1	20.2
3 22	12 57.10	− 5 56.2	2.077	3.054	4.5	20.0
4 1	12 49.20	− 5 11.6	2.053	3.052	0.6	19.7
4 11	12 41.15	− 4 25.8	2.058	3.050	3.3	19.9
4 21	12 33.76	− 3 43.7	2.092	3.048	7.1	20.1
5 1	12 27.73	− 3 9.8	2.152	3.045	10.4	20.3
5 11	12 23.54	− 2 47.2	2.234	3.042	13.3	20.5

388280 2006 RQ_{100} 4 2.6 155.°99 0.°2/ 2.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.84	− 6 40.6	2.827	3.665	9.4	21.8
3 12	13 4.74	− 6 32.3	2.752	3.672	6.8	21.6
3 22	12 57.35	− 6 17.2	2.704	3.678	3.8	21.4
4 1	12 49.23	− 5 57.7	2.686	3.684	0.6	21.2
4 11	12 41.03	− 5 36.9	2.699	3.690	2.6	21.4
4 21	12 33.39	− 5 17.8	2.741	3.695	5.7	21.6
5 1	12 26.87	− 5 3.3	2.812	3.700	8.5	21.8
5 11	12 21.88	− 4 55.9	2.907	3.704	10.8	21.9

388385 2006 US_{268} 4 2.6 264.°73 0.°3/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.84	− 5 59.5	2.294	3.148	10.8	21.5
3 12	13 2.91	− 5 31.2	2.217	3.145	7.7	21.3
3 22	12 56.46	− 4 54.3	2.164	3.142	4.2	21.0
4 1	12 49.11	− 4 12.5	2.141	3.139	0.6	20.7
4 11	12 41.62	− 3 30.3	2.146	3.137	3.3	21.0
4 21	12 34.75	− 2 52.4	2.179	3.134	6.9	21.2
5 1	12 29.15	− 2 22.9	2.239	3.131	10.1	21.4
5 11	12 25.29	− 2 4.5	2.320	3.128	12.9	21.6

159552 2001 SK_{232} 4 2.6 217.°12 0.°4/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.74	− 6 57.2	1.661	2.518	14.0	21.1
3 12	13 6.95	− 6 16.0	1.582	2.512	10.1	20.8
3 22	12 58.91	− 5 21.1	1.527	2.505	5.6	20.6
4 1	12 49.46	− 4 17.3	1.499	2.498	0.7	20.2
4 11	12 39.74	− 3 12.3	1.499	2.490	4.4	20.4
4 21	12 30.89	− 2 13.6	1.525	2.481	9.2	20.7
5 1	12 23.89	− 1 27.7	1.576	2.472	13.4	20.9
5 11	12 19.38	− 0 58.8	1.648	2.462	17.1	21.1

192638 1999 RC_{10} 4 2.6 274.°08 15.°5/15.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 22.53	−48 5.3	2.187	2.763	18.9	20.3
3 12	13 15.23	−50 12.3	2.089	2.745	17.9	20.1
3 22	13 4.26	−51 52.7	2.006	2.727	16.9	20.0
4 1	12 50.31	−52 57.7	1.941	2.709	16.0	19.9
4 11	12 34.85	−53 21.4	1.895	2.690	15.5	19.8
4 21	12 19.81	−53 3.1	1.869	2.672	15.5	19.7
5 1	12 7.14	−52 7.8	1.862	2.653	16.1	19.7
5 11	11 58.20	−50 46.3	1.873	2.634	17.2	19.8

468702 2009 WY_{213} 4 2.6 266.°16 13.°4/18.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.38	−46 3.6	2.113	2.724	18.7	20.5
3 12	13 7.95	−46 54.7	2.008	2.706	17.4	20.3
3 22	12 59.75	−47 13.7	1.918	2.688	16.0	20.1
4 1	12 49.61	−46 54.2	1.846	2.670	14.6	20.0
4 11	12 38.88	−45 53.5	1.793	2.652	13.6	19.9
4 21	12 29.01	−44 14.0	1.762	2.633	13.4	19.8
5 1	12 21.31	−42 3.1	1.754	2.613	14.1	19.8
5 11	12 16.62	−39 32.7	1.767	2.594	15.6	19.9

423754 2006 DT_{21} 4 2.6 258.°10 1.°2/ 3.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.71	− 9 39.1	2.078	2.918	12.2	21.0
3 12	13 5.94	− 9 36.0	1.987	2.905	9.0	20.8
3 22	12 58.27	− 9 21.5	1.920	2.892	5.4	20.6
4 1	12 49.39	− 8 57.6	1.881	2.878	1.7	20.3
4 11	12 40.19	− 8 28.3	1.871	2.864	3.3	20.4
4 21	12 31.61	− 7 58.3	1.890	2.850	7.3	20.6
5 1	12 24.51	− 7 32.4	1.934	2.836	11.0	20.8
5 11	12 19.48	− 7 15.0	2.001	2.822	14.2	21.0

344280 2001 TV_{174} 4 2.6 217.°25 1.°1/ 1.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.82	− 3 33.4	2.610	3.464	9.6	21.2
3 12	13 2.76	− 2 52.1	2.527	3.457	6.8	21.0
3 22	12 56.34	− 2 4.2	2.471	3.450	3.7	20.8
4 1	12 49.10	− 1 13.5	2.445	3.442	1.1	20.6
4 11	12 41.73	− 0 24.6	2.448	3.434	3.5	20.8
4 21	12 34.88	+ 0 18.1	2.480	3.426	6.7	21.0
5 1	12 29.15	+ 0 51.2	2.539	3.417	9.6	21.1
5 11	12 24.96	+ 1 12.4	2.621	3.407	12.2	21.3

321179 2008 WE_{45} 4 2.6 103.°62 0.°4/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.99	− 8 37.6	2.054	2.902	12.0	21.3
3 12	13 3.83	− 8 9.3	1.983	2.908	8.7	21.1
3 22	12 57.00	− 7 29.5	1.938	2.913	4.9	20.9
4 1	12 49.19	− 6 41.8	1.920	2.918	1.0	20.6
4 11	12 41.29	− 5 51.7	1.931	2.923	3.3	20.8
4 21	12 34.13	− 5 4.5	1.969	2.929	7.2	21.0
5 1	12 28.44	− 4 25.4	2.034	2.934	10.7	21.3
5 11	12 24.67	− 3 57.8	2.120	2.939	13.6	21.5

480546 2015 MR_{55} 4 2.6 308.°77 0.°4/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.81	−10 48.3	2.152	2.999	11.6	21.1
3 12	13 0.88	− 9 42.2	2.066	2.990	8.5	20.8
3 22	12 55.40	− 8 20.6	2.006	2.981	4.8	20.6
4 1	12 48.98	− 6 48.2	1.973	2.972	1.0	20.3
4 11	12 42.39	− 5 11.9	1.970	2.963	3.2	20.5
4 21	12 36.41	− 3 39.1	1.996	2.955	7.1	20.7
5 1	12 31.71	− 2 16.6	2.047	2.946	10.6	20.9
5 11	12 28.79	− 1 9.2	2.122	2.938	13.7	21.1

54933 2001 OV_{103} 4 2.6 274.°06 6.°6/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.67	−22 57.5	1.818	2.608	15.8	18.6
3 12	13 7.11	−23 32.4	1.721	2.592	13.0	18.4
3 22	12 59.15	−23 45.2	1.646	2.576	9.9	18.2
4 1	12 49.53	−23 34.0	1.595	2.560	7.3	18.0
4 11	12 39.37	−23 0.0	1.570	2.544	6.8	17.9
4 21	12 29.89	−22 8.3	1.571	2.527	8.9	18.0
5 1	12 22.20	−21 6.6	1.597	2.510	12.2	18.1
5 11	12 17.08	−20 4.0	1.644	2.494	15.5	18.3

199337 2006 BE_{147} 4 2.6 200.°17 2.°1/31.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.33	− 2 3.5	1.984	2.852	11.6	20.4
3 12	13 3.41	− 1 1.9	1.914	2.851	8.1	20.2
3 22	12 56.79	+ 0 7.5	1.869	2.849	4.4	19.9
4 1	12 49.17	+ 1 18.6	1.852	2.848	2.1	19.8
4 11	12 41.42	+ 2 24.4	1.864	2.846	4.9	19.9
4 21	12 34.40	+ 3 18.9	1.903	2.845	8.7	20.2
5 1	12 28.85	+ 3 57.9	1.967	2.843	12.1	20.4
5 11	12 25.26	+ 4 19.1	2.052	2.841	15.0	20.6

217968 2001 VW_{23} 4 2.6 171.°08 0.°1/ 2.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.32	− 7 35.2	2.215	3.060	11.4	21.4
3 12	13 5.39	− 7 6.2	2.140	3.064	8.2	21.2
3 22	12 57.83	− 6 26.9	2.091	3.067	4.6	20.9
4 1	12 49.31	− 5 41.1	2.070	3.069	0.7	20.6
4 11	12 40.68	− 4 53.6	2.079	3.071	3.3	20.8
4 21	12 32.75	− 4 9.6	2.117	3.072	7.0	21.1
5 1	12 26.23	− 3 33.5	2.181	3.073	10.4	21.3
5 11	12 21.61	− 3 8.7	2.268	3.073	13.3	21.5

340732 2006 SK_{163} 4 2.6 104.°95 0.°6/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.31	− 4 59.8	2.531	3.382	9.9	21.5
3 12	13 3.00	− 4 26.9	2.470	3.398	7.0	21.3
3 22	12 56.41	− 3 47.1	2.435	3.413	3.8	21.2
4 1	12 49.11	− 3 4.3	2.430	3.429	0.7	20.9
4 11	12 41.80	− 2 22.7	2.454	3.444	3.2	21.2
4 21	12 35.14	− 1 46.3	2.508	3.458	6.4	21.4
5 1	12 29.67	− 1 18.3	2.588	3.473	9.2	21.6
5 11	12 25.78	− 1 1.1	2.691	3.487	11.6	21.8

500926 2013 PR_{38} 4 2.6 338.°48 3.°9/30.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.16	− 2 6.7	1.158	2.055	15.6	19.8
3 12	13 0.69	− 0 26.6	1.089	2.040	11.1	19.5
3 22	12 55.69	+ 1 30.2	1.042	2.026	6.2	19.2
4 1	12 49.04	+ 3 31.9	1.019	2.014	4.1	19.0
4 11	12 42.07	+ 5 23.6	1.021	2.002	8.2	19.2
4 21	12 36.11	+ 6 52.5	1.044	1.992	13.4	19.5
5 1	12 32.29	+ 7 50.5	1.088	1.983	18.1	19.7
5 11	12 31.30	+ 8 15.0	1.148	1.975	22.2	19.9

308424 2005 SG_{129} 4 2.6 221.°95 0.°5/ 3.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.15	−10 5.8	2.951	3.785	9.2	21.5
3 12	13 1.48	− 9 24.2	2.859	3.776	6.7	21.3
3 22	12 55.61	− 8 32.5	2.794	3.766	3.9	21.1
4 1	12 49.02	− 7 33.6	2.758	3.756	0.9	20.8
4 11	12 42.30	− 6 31.6	2.753	3.745	2.5	20.9
4 21	12 36.02	− 5 30.8	2.777	3.734	5.5	21.1
5 1	12 30.70	− 4 35.5	2.830	3.723	8.2	21.3
5 11	12 26.76	− 3 49.1	2.907	3.711	10.7	21.4

122412 2000 QV_{91} 4 2.6 176°.37 4°.6/ 7.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 12.65	−21 11.4	2.342	3.125	12.9	20.9
3 12	13 6.44	−21 24.0	2.256	3.128	10.3	20.7
3 22	12 58.48	−21 18.9	2.194	3.129	7.6	20.5
4 1	12 49.43	−20 56.0	2.159	3.130	5.2	20.4
4 11	12 40.17	−20 18.0	2.153	3.131	4.8	20.4
4 21	12 31.58	−19 29.5	2.175	3.131	6.8	20.5
5 1	12 24.43	−18 36.3	2.224	3.131	9.6	20.6
5 11	12 19.26	−17 44.7	2.297	3.129	12.2	20.8

497310 2005 TO_{58} 4 2.6 187°.16 0°.7/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.61	− 4 47.6	2.339	3.188	10.7	23.0
3 12	13 5.56	− 4 15.5	2.261	3.188	7.6	22.8
3 22	12 57.92	− 3 35.5	2.209	3.187	4.1	22.6
4 1	12 49.35	− 2 51.6	2.186	3.185	0.8	22.3
4 11	12 40.65	− 2 8.5	2.194	3.183	3.5	22.6
4 21	12 32.59	− 1 30.8	2.230	3.180	7.1	22.8
5 1	12 25.87	− 1 2.3	2.294	3.176	10.4	23.0
5 11	12 20.97	− 0 45.5	2.379	3.171	13.1	23.2

303271 2004 RE_{170} 4 2.6 296°.22 4°.7/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.61	+ 1 53.7	1.297	2.184	15.1	20.5
3 12	13 5.98	+ 3 3.9	1.221	2.166	10.8	20.2
3 22	12 58.64	+ 4 22.4	1.167	2.147	6.5	19.9
4 1	12 49.49	+ 5 39.5	1.138	2.129	4.8	19.7
4 11	12 39.88	+ 6 44.0	1.135	2.111	8.4	19.9
4 21	12 31.23	+ 7 26.9	1.154	2.093	13.3	20.1
5 1	12 24.76	+ 7 43.0	1.194	2.075	17.9	20.3
5 11	12 21.26	+ 7 31.7	1.251	2.058	21.8	20.5

497073 2003 UO_{358} 4 2.6 132°.26 0°.2/ 2.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.06	− 8 19.5	2.454	3.296	10.5	22.9
3 12	13 3.61	− 7 40.7	2.387	3.309	7.6	22.7
3 22	12 56.78	− 6 52.0	2.347	3.322	4.2	22.5
4 1	12 49.19	− 5 57.4	2.336	3.334	0.7	22.3
4 11	12 41.57	− 5 1.5	2.354	3.346	2.9	22.5
4 21	12 34.61	− 4 9.3	2.402	3.357	6.3	22.7
5 1	12 28.91	− 3 24.8	2.477	3.368	9.3	22.9
5 11	12 24.86	− 2 51.3	2.575	3.379	11.9	23.1

35188 1993 VP_{3} 4 2.6 129°.10 1°.5/ 4.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.09	−11 49.1	2.071	2.904	12.6	18.7
3 12	13 5.99	−11 29.2	2.004	2.918	9.3	18.6
3 22	12 58.18	−10 55.7	1.962	2.931	5.6	18.3
4 1	12 49.39	−10 11.5	1.948	2.943	2.0	18.1
4 11	12 40.55	− 9 21.6	1.962	2.955	3.2	18.2
4 21	12 32.53	− 8 31.6	2.006	2.967	6.9	18.5
5 1	12 26.07	− 7 46.9	2.075	2.978	10.3	18.7
5 11	12 21.64	− 7 11.9	2.168	2.988	13.3	18.9

280171 2002 RD_{20} 4 2.6 212°.41 2°.8/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.51	+ 2 11.8	2.723	3.587	8.9	21.9
3 12	13 2.50	+ 3 21.3	2.645	3.579	6.3	21.7
3 22	12 56.20	+ 4 34.3	2.594	3.571	3.8	21.5
4 1	12 49.12	+ 5 45.7	2.574	3.561	2.9	21.4
4 11	12 41.92	+ 6 50.1	2.584	3.552	4.9	21.5
4 21	12 35.22	+ 7 43.2	2.623	3.541	7.7	21.7
5 1	12 29.59	+ 8 22.0	2.687	3.531	10.3	21.8
5 11	12 25.43	+ 8 45.1	2.773	3.519	12.5	22.0

280853 2005 UY_{282} 4 2.6 266°.65 1°.5/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.20	− 4 42.5	1.504	2.370	14.6	21.6
3 12	13 7.70	− 3 53.0	1.411	2.347	10.6	21.3
3 22	12 59.58	− 2 48.9	1.342	2.322	5.8	20.9
4 1	12 49.64	− 1 36.2	1.299	2.297	1.5	20.6
4 11	12 39.11	− 0 23.8	1.283	2.271	5.5	20.8
4 21	12 29.33	+ 0 39.3	1.293	2.245	10.8	21.0
5 1	12 21.52	+ 1 25.4	1.326	2.218	15.7	21.2
5 11	12 16.50	+ 1 50.1	1.378	2.190	19.9	21.4

67993 2000 XD_{24} 4 2.6 204°.46 5°.6/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.30	−20 31.1	1.655	2.463	16.4	19.2
3 12	13 7.53	−20 50.6	1.575	2.461	13.1	19.0
3 22	12 59.34	−20 46.9	1.516	2.459	9.5	18.8
4 1	12 49.59	−20 19.5	1.481	2.457	6.4	18.6
4 11	12 39.50	−19 31.7	1.473	2.455	5.9	18.6
4 21	12 30.32	−18 30.3	1.490	2.453	8.7	18.7
5 1	12 23.13	−17 24.2	1.533	2.450	12.4	18.9
5 11	12 18.62	−16 22.2	1.597	2.447	15.8	19.1

289585 2005 FG_{4} 4 2.6 336°.84 3°.2/31.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.69	− 1 16.6	1.204	2.095	15.7	20.0
3 12	13 3.91	− 0 22.4	1.136	2.083	11.2	19.7
3 22	12 57.48	+ 0 43.0	1.089	2.072	6.2	19.3
4 1	12 49.34	+ 1 50.7	1.067	2.062	3.2	19.1
4 11	12 40.87	+ 2 50.1	1.068	2.053	7.1	19.3
4 21	12 33.46	+ 3 32.3	1.092	2.045	12.3	19.6
5 1	12 28.28	+ 3 51.4	1.137	2.038	17.0	19.8
5 11	12 26.03	+ 3 45.6	1.199	2.032	21.1	20.1

347221 2011 HV_{73} 4 2.6 267°.45 5°.2/28.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 10.23	+ 8 40.0	2.120	2.991	10.7	21.1
3 12	13 4.81	+ 9 40.9	2.041	2.974	8.0	20.9
3 22	12 57.64	+10 40.5	1.989	2.955	5.7	20.7
4 1	12 49.36	+11 32.3	1.964	2.937	5.4	20.6
4 11	12 40.85	+12 9.9	1.967	2.918	7.6	20.7
4 21	12 32.98	+12 29.2	1.996	2.899	10.5	20.9
5 1	12 26.52	+12 28.3	2.049	2.879	13.5	21.0
5 11	12 22.03	+12 7.6	2.121	2.860	16.1	21.2

392861 2012 UL_{81} 4 2.6 109°.72 0°.1/ 2.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.24	− 7 35.1	2.473	3.319	10.4	22.0
3 12	13 3.03	− 7 2.8	2.409	3.332	7.4	21.9
3 22	12 56.48	− 6 21.7	2.370	3.346	4.1	21.7
4 1	12 49.19	− 5 35.3	2.360	3.359	0.6	21.4
4 11	12 41.87	− 4 48.0	2.380	3.372	2.9	21.6
4 21	12 35.20	− 4 4.3	2.429	3.385	6.2	21.9
5 1	12 29.74	− 3 28.0	2.505	3.397	9.2	22.1
5 11	12 25.91	− 3 1.9	2.604	3.409	11.7	22.3

197332 2003 WM_{169} 4 2.6 98°.62 20°.2/21.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 28.74	+36 48.5	1.089	1.913	22.0	19.6
3 12	13 18.97	+38 26.8	1.076	1.925	20.7	19.5
3 22	13 5.52	+39 20.2	1.080	1.937	20.2	19.5
4 1	12 50.41	+39 16.1	1.101	1.949	20.8	19.6
4 11	12 36.10	+38 11.9	1.139	1.960	22.2	19.7
4 21	12 24.51	+36 15.3	1.193	1.971	23.9	19.9
5 1	12 16.73	+33 38.6	1.261	1.982	25.7	20.1
5 11	12 12.99	+30 35.5	1.341	1.993	27.3	20.3

151099 2001 VX_{113} 4 2.6 193°.12 1°.1/ 3.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.99	−10 19.4	2.043	2.884	12.4	20.5
3 12	13 5.36	− 9 56.8	1.964	2.882	9.1	20.3
3 22	12 57.94	− 9 21.0	1.909	2.881	5.4	20.0
4 1	12 49.42	− 8 35.2	1.881	2.879	1.5	19.8
4 11	12 40.71	− 7 44.5	1.883	2.876	3.3	19.9
4 21	12 32.73	− 6 54.5	1.913	2.874	7.2	20.1
5 1	12 26.27	− 6 10.9	1.969	2.870	10.9	20.3
5 11	12 21.84	− 5 38.0	2.047	2.867	14.0	20.5

522663 2016 GQ_{264} 4 2.6 227°.68 0°.8/ 1.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.83	− 4 40.6	1.920	2.780	12.3	21.7
3 12	13 5.33	− 4 9.4	1.843	2.775	8.8	21.4
3 22	12 57.95	− 3 29.1	1.791	2.770	4.8	21.2
4 1	12 49.42	− 2 43.9	1.767	2.765	0.9	20.9
4 11	12 40.70	− 1 59.9	1.771	2.760	4.1	21.1
4 21	12 32.73	− 1 22.3	1.802	2.755	8.2	21.4
5 1	12 26.33	− 0 55.9	1.859	2.749	12.0	21.6
5 11	12 22.04	− 0 43.4	1.936	2.744	15.1	21.8

335567 2006 CK_{5} 4 2.6 268°.23 4°.7/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.73	−32 0.2	4.628	5.313	8.3	20.3
3 12	13 0.99	−32 27.2	4.526	5.308	7.2	20.2
3 22	12 55.31	−32 42.1	4.448	5.302	6.1	20.1
4 1	12 49.04	−32 44.3	4.395	5.297	5.1	20.1
4 11	12 42.63	−32 34.4	4.370	5.291	4.7	20.0
4 21	12 36.49	−32 14.0	4.373	5.286	5.0	20.0
5 1	12 31.04	−31 45.6	4.402	5.280	5.9	20.1
5 11	12 26.61	−31 12.2	4.458	5.274	7.0	20.2

217034 2001 PM_{57} 4 2.6 183°.86 2°.6/30.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.18	+ 1 7.8	2.364	3.225	10.2	21.1
3 12	13 5.22	+ 2 1.2	2.292	3.225	7.2	20.9
3 22	12 57.75	+ 2 58.4	2.248	3.225	4.1	20.7
4 1	12 49.38	+ 3 54.2	2.233	3.224	2.7	20.6
4 11	12 40.92	+ 4 43.3	2.248	3.223	4.9	20.7
4 21	12 33.11	+ 5 21.2	2.291	3.220	8.1	20.9
5 1	12 26.62	+ 5 45.0	2.361	3.217	11.0	21.1
5 11	12 21.90	+ 5 53.5	2.452	3.213	13.6	21.3

364590 2007 RO_{141} 4 2.6 157°.33 0°.0/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.59	− 8 2.8	2.007	2.852	12.4	22.5
3 12	13 6.42	− 7 17.4	1.937	2.861	8.9	22.3
3 22	12 58.47	− 6 19.9	1.893	2.869	4.9	22.1
4 1	12 49.49	− 5 14.8	1.878	2.876	0.7	21.8
4 11	12 40.43	− 4 8.7	1.892	2.883	3.6	22.0
4 21	12 32.21	− 3 7.8	1.934	2.889	7.6	22.3
5 1	12 25.58	− 2 17.5	2.003	2.893	11.2	22.5
5 11	12 21.02	− 1 41.4	2.094	2.897	14.3	22.7

472646 2015 DR_{212} 4 2.6 211°.57 4°.4/28.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.46	+ 8 13.8	2.504	3.373	9.4	21.3
3 12	13 3.24	+ 9 8.4	2.438	3.369	6.9	21.1
3 22	12 56.64	+10 1.4	2.398	3.365	4.8	20.9
4 1	12 49.23	+10 47.4	2.388	3.361	4.5	20.9
4 11	12 41.73	+11 21.7	2.405	3.357	6.3	21.0
4 21	12 34.83	+11 41.2	2.450	3.352	8.9	21.2
5 1	12 29.13	+11 44.2	2.520	3.348	11.4	21.3
5 11	12 25.05	+11 31.0	2.610	3.343	13.5	21.5

227879 2007 EG_{25} 4 2.6 64°.33 0°.0/ 2.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 13.51	− 6 8.6	1.653	2.511	14.0	20.2
3 12	13 7.30	− 6 3.2	1.596	2.525	10.0	20.0
3 22	12 59.02	− 5 47.7	1.562	2.539	5.6	19.7
4 1	12 49.57	− 5 25.7	1.555	2.554	0.8	19.4
4 11	12 40.09	− 5 2.5	1.575	2.568	3.9	19.7
4 21	12 31.65	− 4 43.2	1.623	2.582	8.4	20.0
5 1	12 25.13	− 4 32.1	1.695	2.597	12.3	20.3
5 11	12 21.03	− 4 32.3	1.788	2.611	15.6	20.5

292755 2006 UU_{185} 4 2.6 247°.28 3°.3/ 6.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.18	−18 9.6	2.392	3.198	12.0	20.8
3 12	13 3.26	−17 59.8	2.299	3.189	9.4	20.6
3 22	12 56.76	−17 33.7	2.230	3.180	6.5	20.4
4 1	12 49.27	−16 52.3	2.187	3.170	3.9	20.3
4 11	12 41.55	−15 59.2	2.174	3.161	3.7	20.2
4 21	12 34.40	−14 59.4	2.188	3.152	6.3	20.4
5 1	12 28.51	−13 58.6	2.230	3.142	9.3	20.5
5 11	12 24.39	−13 2.5	2.296	3.132	12.1	20.7

59558 1999 JR_{41} 4 2.6 249°.60 1°.4/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.02	−13 1.9	2.221	3.051	11.9	19.7
3 12	13 3.98	−12 17.5	2.120	3.032	8.9	19.4
3 22	12 57.21	−11 16.6	2.045	3.013	5.4	19.2
4 1	12 49.34	−10 2.3	1.998	2.994	1.9	18.9
4 11	12 41.17	− 8 40.2	1.980	2.973	3.1	19.0
4 21	12 33.56	− 7 17.0	1.991	2.953	6.9	19.2
5 1	12 27.28	− 5 59.5	2.030	2.931	10.6	19.3
5 11	12 22.88	− 4 53.5	2.091	2.909	13.8	19.5

327449 2005 WB_{131} 4 2.6 254°.97 1°.4/ 1.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.93	− 3 26.3	1.970	2.830	11.9	21.7
3 12	13 5.46	− 2 47.5	1.882	2.815	8.5	21.4
3 22	12 58.08	− 1 59.9	1.819	2.798	4.7	21.1
4 1	12 49.47	− 1 8.2	1.784	2.782	1.4	20.9
4 11	12 40.56	− 0 18.4	1.778	2.765	4.5	21.1
4 21	12 32.30	+ 0 23.5	1.799	2.748	8.6	21.3
5 1	12 25.55	+ 0 52.9	1.846	2.730	12.4	21.5
5 11	12 20.90	+ 1 7.0	1.914	2.712	15.6	21.6

204550 2005 EE_{193} 4 2.6 150°.60 0°.4/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.88	− 8 38.6	2.204	3.050	11.4	20.9
3 12	13 3.71	− 8 8.4	2.130	3.054	8.3	20.7
3 22	12 56.97	− 7 27.2	2.082	3.057	4.7	20.5
4 1	12 49.30	− 6 38.6	2.061	3.060	0.9	20.2
4 11	12 41.52	− 5 47.6	2.070	3.063	3.1	20.4
4 21	12 34.43	− 4 59.3	2.107	3.065	6.8	20.7
5 1	12 28.69	− 4 18.6	2.170	3.068	10.2	20.9
5 11	12 24.77	− 3 49.0	2.256	3.070	13.0	21.1

325247 2008 GZ_{78} 4 2.6 258°.17 1°.1/ 3.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.72	−12 16.6	1.981	2.820	12.8	21.3
3 12	13 3.93	−11 22.5	1.884	2.802	9.5	21.0
3 22	12 57.25	−10 10.1	1.812	2.784	5.7	20.8
4 1	12 49.36	− 8 43.3	1.768	2.765	1.6	20.5
4 11	12 41.15	− 7 8.9	1.752	2.746	3.4	20.5
4 21	12 33.57	− 5 35.0	1.765	2.726	7.7	20.8
5 1	12 27.46	− 4 9.6	1.804	2.706	11.7	21.0
5 11	12 23.41	− 2 58.8	1.865	2.685	15.1	21.1

157353 2004 TW_{75} 4 2.6 154°.79 2°.7/30.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.93	+ 2 8.6	2.247	3.110	10.6	20.5
3 12	13 5.78	+ 2 45.2	2.183	3.116	7.5	20.3
3 22	12 58.06	+ 3 24.1	2.145	3.122	4.3	20.1
4 1	12 49.46	+ 4 0.4	2.136	3.128	2.8	20.0
4 11	12 40.80	+ 4 29.4	2.157	3.133	5.0	20.2
4 21	12 32.88	+ 4 47.3	2.206	3.137	8.2	20.4
5 1	12 26.38	+ 4 52.1	2.280	3.142	11.2	20.6
5 11	12 21.73	+ 4 42.9	2.376	3.145	13.7	20.8

349486 2008 EW_{143} 4 2.6 282°.64 3°.4/ 6.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.51	−18 9.3	2.401	3.207	11.9	20.8
3 12	13 2.76	−18 3.3	2.313	3.203	9.3	20.6
3 22	12 56.47	−17 41.3	2.250	3.200	6.5	20.4
4 1	12 49.25	−17 4.5	2.213	3.196	3.9	20.2
4 11	12 41.84	−16 16.4	2.205	3.192	3.7	20.2
4 21	12 35.02	−15 21.6	2.225	3.188	6.2	20.3
5 1	12 29.44	−14 25.8	2.272	3.185	9.1	20.5
5 11	12 25.61	−13 34.5	2.343	3.181	11.8	20.7

286679 2002 EK_{147} 4 2.6 113°.32 0°.6/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 15.27	− 7 43.5	1.539	2.395	15.0	21.1
3 12	13 8.80	− 7 38.0	1.475	2.402	10.9	20.8
3 22	12 59.97	− 7 19.8	1.434	2.410	6.2	20.6
4 1	12 49.74	− 6 52.4	1.419	2.418	1.2	20.3
4 11	12 39.39	− 6 21.5	1.432	2.425	4.1	20.5
4 21	12 30.13	− 5 53.3	1.471	2.432	8.9	20.8
5 1	12 22.95	− 5 33.2	1.534	2.439	13.2	21.0
5 11	12 18.45	− 5 25.1	1.618	2.445	16.7	21.3

136949 1998 QE_{110} 4 2.6 167°.93 1°.7/31.8 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 11.79	− 2 26.3	2.131	2.989	11.3	20.9
3 12	13 5.79	− 1 36.2	2.062	2.994	8.0	20.7
3 22	12 58.11	− 0 39.2	2.020	2.999	4.3	20.5
4 1	12 49.48	+ 0 19.6	2.006	3.003	1.7	20.3
4 11	12 40.76	+ 1 14.2	2.022	3.006	4.4	20.5
4 21	12 32.79	+ 1 59.3	2.066	3.008	8.1	20.7
5 1	12 26.29	+ 2 31.1	2.136	3.010	11.4	20.9
5 11	12 21.73	+ 2 47.8	2.228	3.010	14.2	21.1

95790 2003 FA_{16} 4 2.6 273°.79 3°.5/ 5.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.03	−15 7.9	1.929	2.751	13.8	19.8
3 12	13 7.21	−15 25.5	1.830	2.732	10.7	19.6
3 22	12 59.19	−15 27.6	1.754	2.713	7.2	19.3
4 1	12 49.68	−15 14.1	1.705	2.693	4.0	19.1
4 11	12 39.69	−14 47.9	1.684	2.673	4.3	19.1
4 21	12 30.29	−14 13.8	1.690	2.653	7.8	19.2
5 1	12 22.50	−13 37.8	1.722	2.633	11.6	19.4
5 11	12 17.04	−13 6.3	1.777	2.613	15.1	19.6

338760 2003 UZ_{205} 4 2.6 262°.87 1°.5/ 1.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.39	− 1 42.5	2.342	3.197	10.5	20.9
3 12	13 6.34	− 1 16.0	2.241	3.171	7.5	20.7
3 22	12 58.54	− 0 43.6	2.166	3.145	4.2	20.4
4 1	12 49.58	− 0 9.2	2.120	3.117	1.5	20.2
4 11	12 40.26	+ 0 22.6	2.105	3.089	4.2	20.3
4 21	12 31.43	+ 0 47.5	2.118	3.061	7.8	20.5
5 1	12 23.87	+ 1 1.9	2.157	3.032	11.2	20.7
5 11	12 18.16	+ 1 3.7	2.219	3.002	14.2	20.8

134867 2000 QA_{18} 4 2.6 182°.60 0°.2/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.86	− 6 12.1	2.893	3.738	9.1	20.5
3 12	13 2.70	− 5 41.0	2.814	3.738	6.5	20.3
3 22	12 56.33	− 5 2.7	2.762	3.738	3.5	20.1
4 1	12 49.25	− 4 20.4	2.739	3.738	0.5	19.8
4 11	12 42.08	− 3 37.7	2.746	3.737	2.7	20.0
4 21	12 35.41	− 2 58.5	2.784	3.735	5.7	20.2
5 1	12 29.76	− 2 25.9	2.848	3.734	8.5	20.4
5 11	12 25.51	− 2 2.5	2.937	3.732	10.8	20.6

468704 2010 AL_{9} 4 2.6 140°.33 1°.6/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.32	− 2 43.6	2.056	2.919	11.4	21.9
3 12	13 4.08	− 1 55.7	1.989	2.924	8.0	21.7
3 22	12 57.21	− 1 0.6	1.948	2.928	4.4	21.5
4 1	12 49.38	− 0 3.5	1.935	2.932	1.6	21.3
4 11	12 41.47	+ 0 49.5	1.951	2.936	4.4	21.5
4 21	12 34.31	+ 1 33.3	1.995	2.940	8.1	21.7
5 1	12 28.59	+ 2 3.9	2.064	2.944	11.4	21.9
5 11	12 24.79	+ 2 19.2	2.154	2.947	14.2	22.1

238056 2003 BD_{74} 4 2.6 29°.93 2°.5/ 4.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.17	−12 38.3	2.111	2.939	12.5	20.0
3 12	13 6.21	−12 58.7	2.034	2.942	9.5	19.8
3 22	12 58.44	−13 6.7	1.981	2.945	6.0	19.6
4 1	12 49.57	−13 3.4	1.956	2.947	2.9	19.4
4 11	12 40.51	−12 51.5	1.959	2.950	3.5	19.4
4 21	12 32.16	−12 35.1	1.991	2.954	6.8	19.7
5 1	12 25.32	−12 18.6	2.049	2.957	10.2	19.9
5 11	12 20.52	−12 6.4	2.130	2.960	13.1	20.1

31723 1999 JT_{61} 4 2.6 69°.06 8°.5/27.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 17.23	+16 40.6	1.655	2.520	13.6	17.1
3 12	13 9.63	+17 40.3	1.634	2.552	10.7	17.0
3 22	13 0.12	+18 26.3	1.638	2.583	8.8	16.9
4 1	12 49.76	+18 51.2	1.667	2.614	8.8	17.0
4 11	12 39.78	+18 50.6	1.723	2.645	10.5	17.2
4 21	12 31.18	+18 24.5	1.802	2.676	13.0	17.4
5 1	12 24.69	+17 35.7	1.904	2.706	15.4	17.6
5 11	12 20.65	+16 28.5	2.023	2.736	17.5	17.8

65252 2002 FP_{24} 4 2.6 226°.73 6°.1/25.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.67	+16 48.0	2.739	3.597	9.1	19.2
3 12	13 4.05	+17 42.3	2.677	3.589	7.3	19.0
3 22	12 57.10	+18 29.4	2.642	3.581	6.2	19.0
4 1	12 49.37	+19 4.0	2.635	3.573	6.4	19.0
4 11	12 41.57	+19 22.3	2.656	3.565	7.9	19.0
4 21	12 34.35	+19 22.2	2.702	3.556	9.8	19.2
5 1	12 28.30	+19 3.5	2.772	3.547	11.8	19.3
5 11	12 23.83	+18 27.7	2.861	3.538	13.5	19.4

435637 2008 SB_{164} 4 2.6 186°.90 0°.3/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.06	− 6 48.5	2.406	3.253	10.5	21.9
3 12	13 3.77	− 6 5.0	2.327	3.253	7.5	21.7
3 22	12 57.00	− 5 11.9	2.275	3.252	4.1	21.5
4 1	12 49.37	− 4 13.2	2.251	3.250	0.6	21.2
4 11	12 41.62	− 3 14.1	2.258	3.248	3.2	21.4
4 21	12 34.47	− 2 19.7	2.294	3.246	6.7	21.7
5 1	12 28.57	− 1 34.3	2.356	3.243	9.9	21.9
5 11	12 24.36	− 1 1.1	2.441	3.240	12.6	22.0

46107 2001 FP_{17} 4 2.6 14.°62 1.°6/ 3.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 13.16	− 9 24.7	1.375	2.235	16.2	18.4
3 12	13 7.61	− 9 33.8	1.308	2.236	11.9	18.2
3 22	12 59.47	− 9 27.7	1.264	2.238	7.1	17.9
4 1	12 49.74	− 9 9.2	1.244	2.241	2.2	17.6
4 11	12 39.77	− 8 43.6	1.249	2.244	4.3	17.7
4 21	12 30.90	− 8 17.4	1.280	2.247	9.3	18.0
5 1	12 24.25	− 7 57.2	1.335	2.251	13.9	18.3
5 11	12 20.46	− 7 48.0	1.408	2.255	17.8	18.5

351583 2005 UQ_{428} 4 2.6 300.°22 2.°1/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.22	−12 24.7	1.314	2.170	17.0	21.0
3 12	13 6.39	−12 3.4	1.241	2.166	12.7	20.7
3 22	12 58.89	−11 20.1	1.188	2.161	7.8	20.4
4 1	12 49.67	−10 18.3	1.160	2.156	2.8	20.1
4 11	12 40.11	− 9 6.1	1.157	2.152	4.4	20.2
4 21	12 31.60	− 7 53.2	1.179	2.147	9.7	20.5
5 1	12 25.35	− 6 49.4	1.224	2.143	14.6	20.7
5 11	12 22.04	− 6 2.2	1.288	2.139	18.8	21.0

466778 2015 AN_{258} 4 2.6 344.°41 1.°5/ 3.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.90	−10 9.6	1.651	2.503	14.3	21.3
3 12	13 5.70	−10 5.2	1.577	2.500	10.6	21.0
3 22	12 58.32	− 9 46.4	1.525	2.498	6.3	20.8
4 1	12 49.58	− 9 15.9	1.499	2.496	2.0	20.5
4 11	12 40.60	− 8 38.9	1.500	2.494	3.8	20.6
4 21	12 32.48	− 8 1.6	1.527	2.492	8.3	20.9
5 1	12 26.19	− 7 30.1	1.579	2.491	12.4	21.1
5 11	12 22.32	− 7 9.4	1.651	2.490	16.0	21.3

181098 2005 QW_{64} 4 2.6 198.°08 1.°4/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.67	−11 33.0	2.859	3.682	9.8	20.7
3 12	13 4.06	−11 29.5	2.771	3.679	7.3	20.6
3 22	12 57.13	−11 16.4	2.710	3.676	4.4	20.4
4 1	12 49.40	−10 55.4	2.678	3.672	1.8	20.2
4 11	12 41.52	−10 29.3	2.676	3.669	2.6	20.2
4 21	12 34.13	−10 1.5	2.704	3.664	5.4	20.4
5 1	12 27.81	− 9 35.4	2.760	3.660	8.2	20.6
5 11	12 22.98	− 9 14.5	2.841	3.655	10.6	20.8

150947 2001 TP_{112} 4 2.6 192.°77 2.°0/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.27	−13 26.8	2.146	2.973	12.4	20.5
3 12	13 5.57	−13 9.4	2.063	2.971	9.3	20.3
3 22	12 58.10	−12 37.0	2.004	2.969	5.9	20.0
4 1	12 49.55	−11 52.0	1.973	2.967	2.5	19.8
4 11	12 40.81	−10 59.0	1.971	2.963	3.3	19.9
4 21	12 32.75	−10 3.7	1.997	2.960	6.8	20.1
5 1	12 26.16	− 9 11.8	2.051	2.956	10.3	20.3
5 11	12 21.55	− 8 28.6	2.127	2.951	13.4	20.5

497702 2006 SS_{85} 4 2.6 247.°93 0.°3/ 2.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.47	− 8 39.1	1.896	2.744	12.9	22.7
3 12	13 5.99	− 8 2.0	1.803	2.728	9.4	22.5
3 22	12 58.48	− 7 10.7	1.735	2.710	5.4	22.2
4 1	12 49.62	− 6 9.1	1.694	2.693	0.9	21.8
4 11	12 40.41	− 5 3.5	1.682	2.674	3.7	22.0
4 21	12 31.86	− 4 0.7	1.698	2.655	8.2	22.2
5 1	12 24.89	− 3 7.4	1.739	2.636	12.3	22.4
5 11	12 20.14	− 2 28.4	1.801	2.616	15.8	22.6

435896 2009 AA_{34} 4 2.6 139.°34 4.°7/28.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.79	+ 7 52.9	2.239	3.112	10.2	21.5
3 12	13 3.59	+ 8 56.9	2.182	3.116	7.5	21.3
3 22	12 56.91	+ 9 59.2	2.152	3.120	5.2	21.2
4 1	12 49.38	+10 53.7	2.150	3.124	4.9	21.2
4 11	12 41.80	+11 34.9	2.175	3.128	6.9	21.3
4 21	12 34.93	+11 59.2	2.228	3.131	9.6	21.4
5 1	12 29.40	+12 5.1	2.304	3.135	12.2	21.6
5 11	12 25.64	+11 53.1	2.400	3.138	14.4	21.8

20880 Yiyideng 4 2.6 240.°53 0.°4/ 3.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.08	− 7 52.2	1.922	2.772	12.7	19.2
3 12	13 5.57	− 7 35.8	1.843	2.769	9.2	19.0
3 22	12 58.16	− 7 8.0	1.789	2.765	5.2	18.7
4 1	12 49.58	− 6 32.2	1.762	2.761	1.0	18.4
4 11	12 40.78	− 5 53.5	1.764	2.757	3.5	18.6
4 21	12 32.73	− 5 17.3	1.793	2.752	7.7	18.8
5 1	12 26.26	− 4 48.6	1.847	2.748	11.5	19.0
5 11	12 21.93	− 4 31.1	1.923	2.744	14.7	19.2

424086 2007 DY_{71} 4 2.6 335.°66 0.°4/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.59	− 5 41.5	1.635	2.499	13.8	21.4
3 12	13 5.45	− 5 18.9	1.562	2.496	9.9	21.2
3 22	12 58.18	− 4 45.1	1.513	2.492	5.4	20.9
4 1	12 49.58	− 4 4.9	1.490	2.489	0.8	20.6
4 11	12 40.77	− 3 24.3	1.495	2.486	4.3	20.8
4 21	12 32.83	− 2 49.7	1.525	2.484	8.9	21.1
5 1	12 26.70	− 2 26.3	1.580	2.482	13.0	21.3
5 11	12 22.96	− 2 17.4	1.654	2.479	16.5	21.6

348843 2006 SB_{24} 4 2.6 84.°49 5.°9/27.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 10.84	+13 27.1	2.318	3.184	10.2	20.5
3 12	13 4.92	+14 16.8	2.276	3.199	7.8	20.4
3 22	12 57.56	+14 59.5	2.260	3.214	6.1	20.3
4 1	12 49.47	+15 30.0	2.272	3.228	6.1	20.3
4 11	12 41.44	+15 44.0	2.311	3.243	7.7	20.4
4 21	12 34.21	+15 39.9	2.377	3.258	10.0	20.6
5 1	12 28.38	+15 17.6	2.465	3.272	12.2	20.8
5 11	12 24.33	+14 39.0	2.574	3.287	14.1	20.9

244791 2003 SV_{212} 4 2.6 186.°84 2.°9/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.21	+ 1 2.0	1.823	2.689	12.5	20.6
3 12	13 7.80	+ 1 44.0	1.754	2.689	8.9	20.4
3 22	12 59.38	+ 2 30.5	1.710	2.688	5.1	20.1
4 1	12 49.76	+ 3 15.4	1.694	2.687	3.0	20.0
4 11	12 39.98	+ 3 52.3	1.706	2.685	5.7	20.2
4 21	12 31.09	+ 4 16.2	1.746	2.683	9.6	20.4
5 1	12 23.95	+ 4 24.2	1.810	2.680	13.2	20.6
5 11	12 19.10	+ 4 15.2	1.894	2.677	16.3	20.8

416092 2002 OH_{34} 4 2.6 213.°61 7.°4/ 9.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.71	−27 6.7	2.057	2.812	15.3	22.4
3 12	13 8.41	−27 41.2	1.964	2.806	12.9	22.2
3 22	12 59.88	−27 52.7	1.892	2.799	10.3	22.0
4 1	12 49.85	−27 38.9	1.845	2.791	8.1	21.8
4 11	12 39.41	−27 0.9	1.823	2.783	7.4	21.8
4 21	12 29.67	−26 3.3	1.829	2.774	8.7	21.8
5 1	12 21.66	−24 53.7	1.861	2.765	11.3	22.0
5 11	12 16.06	−23 40.9	1.915	2.755	14.0	22.1

145040 2005 FB_{2} 4 2.6 300.°34 2.°2/ 1.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.68	− 0 36.2	1.438	2.311	14.7	20.0
3 12	13 8.78	− 0 24.9	1.358	2.297	10.6	19.7
3 22	13 0.22	− 0 7.7	1.302	2.282	5.9	19.4
4 1	12 49.91	+ 0 10.2	1.271	2.268	2.2	19.2
4 11	12 39.16	+ 0 22.5	1.266	2.254	5.8	19.3
4 21	12 29.34	+ 0 23.8	1.287	2.240	10.8	19.6
5 1	12 21.64	+ 0 10.5	1.331	2.226	15.4	19.8
5 11	12 16.83	− 0 18.9	1.393	2.213	19.3	20.0

285617 2000 RC_{8} 4 2.6 201.°72 11.°8/15.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 22.48	−44 12.0	2.568	3.163	16.0	21.3
3 12	13 14.34	−45 45.1	2.474	3.158	14.8	21.2
3 22	13 3.39	−46 53.6	2.398	3.154	13.6	21.1
4 1	12 50.39	−47 31.4	2.343	3.148	12.5	21.0
4 11	12 36.58	−47 35.7	2.310	3.142	11.9	20.9
4 21	12 23.36	−47 7.6	2.300	3.135	12.0	20.9
5 1	12 12.05	−46 12.7	2.314	3.128	12.7	20.9
5 11	12 3.58	−44 59.8	2.348	3.120	13.8	21.0

153685 2001 TW_{229} 4 2.7 142.°88 2.°5/30.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.09	+ 0 31.0	2.309	3.170	10.4	21.0
3 12	13 5.15	+ 1 31.0	2.251	3.184	7.3	20.8
3 22	12 57.74	+ 2 34.9	2.219	3.197	4.1	20.6
4 1	12 49.52	+ 3 37.2	2.217	3.209	2.6	20.5
4 11	12 41.30	+ 4 32.2	2.244	3.220	4.9	20.7
4 21	12 33.81	+ 5 15.5	2.300	3.230	8.0	20.9
5 1	12 27.67	+ 5 44.3	2.382	3.240	10.9	21.1
5 11	12 23.31	+ 5 57.4	2.486	3.249	13.4	21.3

71882 2000 VR_{53} 4 2.7 299.°07 2.°0/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.35	− 1 31.7	1.408	2.282	15.0	18.6
3 12	13 8.52	− 1 15.8	1.334	2.272	10.8	18.3
3 22	13 0.05	− 0 52.4	1.282	2.263	5.9	18.0
4 1	12 49.89	− 0 27.1	1.256	2.253	2.0	17.7
4 11	12 39.37	− 0 6.6	1.256	2.244	5.7	17.9
4 21	12 29.85	+ 0 3.3	1.282	2.236	10.7	18.2
5 1	12 22.50	− 0 1.4	1.330	2.227	15.3	18.4
5 11	12 18.03	− 0 22.7	1.396	2.219	19.2	18.6

382944 2004 TA_{316} 4 2.7 350.°11 0.°4/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.53	−11 29.9	1.615	2.472	14.3	20.2
3 12	13 1.85	−10 9.2	1.540	2.469	10.4	20.0
3 22	12 56.19	− 8 27.4	1.490	2.466	5.9	19.7
4 1	12 49.32	− 6 31.2	1.465	2.464	1.1	19.4
4 11	12 42.30	− 4 30.9	1.469	2.462	4.0	19.6
4 21	12 36.11	− 2 37.3	1.499	2.461	8.7	19.8
5 1	12 31.62	− 0 59.6	1.555	2.460	13.0	20.1
5 11	12 29.37	+ 0 16.1	1.631	2.460	16.6	20.3

472585 2015 DU_{120} 4 2.7 300.°58 5.°6/27.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.18	+ 7 46.7	1.861	2.740	11.7	20.9
3 12	13 4.43	+ 8 58.7	1.774	2.710	8.7	20.7
3 22	12 57.67	+10 11.9	1.712	2.681	6.2	20.5
4 1	12 49.57	+11 18.0	1.677	2.652	5.9	20.4
4 11	12 41.08	+12 9.2	1.669	2.623	8.4	20.5
4 21	12 33.21	+12 39.7	1.685	2.593	11.8	20.6
5 1	12 26.88	+12 46.5	1.725	2.564	15.2	20.8
5 11	12 22.72	+12 29.5	1.782	2.535	18.2	20.9

390702 2003 BF_{87} 4 2.7 321.°41 4.°1/28.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 6.45	+ 4 45.7	2.172	3.048	10.3	20.6
3 12	13 2.04	+ 6 2.4	2.108	3.046	7.4	20.4
3 22	12 56.12	+ 7 20.9	2.071	3.044	4.8	20.2
4 1	12 49.32	+ 8 34.4	2.061	3.042	4.3	20.2
4 11	12 42.42	+ 9 36.4	2.080	3.041	6.5	20.3
4 21	12 36.17	+10 22.1	2.125	3.039	9.4	20.5
5 1	12 31.22	+10 48.9	2.194	3.037	12.3	20.7
5 11	12 28.01	+10 56.2	2.283	3.035	14.7	20.8

336498 2008 WU_{48} 4 2.7 156.°72 1.°5/ 1.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.56	− 2 31.2	2.230	3.090	10.8	21.6
3 12	13 4.19	− 1 48.8	2.161	3.094	7.6	21.4
3 22	12 57.29	− 1 0.1	2.119	3.098	4.1	21.2
4 1	12 49.49	− 0 9.7	2.105	3.102	1.5	21.0
4 11	12 41.61	+ 0 37.2	2.120	3.105	4.1	21.2
4 21	12 34.41	+ 1 15.8	2.163	3.108	7.6	21.4
5 1	12 28.56	+ 1 42.6	2.232	3.110	10.8	21.6
5 11	12 24.50	+ 1 55.6	2.323	3.113	13.4	21.8

207914 2008 VK_{18} 4 2.7 135.°36 2.°1/31.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.00	− 0 42.8	2.212	3.075	10.7	21.2
3 12	13 4.48	+ 0 0.6	2.148	3.083	7.5	21.0
3 22	12 57.42	+ 0 48.9	2.111	3.090	4.2	20.8
4 1	12 49.51	+ 1 37.0	2.103	3.098	2.1	20.7
4 11	12 41.54	+ 2 19.7	2.123	3.105	4.5	20.9
4 21	12 34.29	+ 2 52.7	2.172	3.111	7.9	21.1
5 1	12 28.41	+ 3 12.9	2.246	3.118	10.9	21.3
5 11	12 24.35	+ 3 18.9	2.341	3.124	13.6	21.5

98545 2000 VE_{55} 4 2.7 79.°19 1.°6/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.63	−11 32.0	1.463	2.312	16.0	19.5
3 12	13 7.60	−11 6.8	1.411	2.334	11.7	19.3
3 22	12 59.30	−10 23.6	1.382	2.355	6.9	19.1
4 1	12 49.78	− 9 27.1	1.379	2.376	2.2	18.8
4 11	12 40.31	− 8 24.8	1.403	2.397	4.0	19.0
4 21	12 32.07	− 7 24.8	1.453	2.418	8.6	19.3
5 1	12 25.97	− 6 34.6	1.527	2.438	12.8	19.6
5 11	12 22.49	− 5 58.8	1.622	2.458	16.3	19.9

410192 2007 RF_{128} 4 2.7 74.°65 0.°5/ 2.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.97	− 5 0.1	1.447	2.312	15.2	21.7
3 12	13 8.76	− 4 51.3	1.383	2.316	10.9	21.4
3 22	13 0.08	− 4 31.9	1.342	2.321	6.0	21.1
4 1	12 49.92	− 4 6.5	1.327	2.326	0.9	20.8
4 11	12 39.59	− 3 41.2	1.338	2.330	4.6	21.1
4 21	12 30.38	− 3 21.8	1.375	2.335	9.6	21.4
5 1	12 23.34	− 3 13.2	1.436	2.339	14.0	21.6
5 11	12 19.08	− 3 18.3	1.517	2.344	17.7	21.9

428354 2007 PZ_{49} 4 2.7 128.°01 1.°2/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.76	− 3 59.1	2.151	3.011	11.1	21.5
3 12	13 3.67	− 3 15.1	2.084	3.016	7.9	21.3
3 22	12 57.02	− 2 23.2	2.042	3.021	4.2	21.1
4 1	12 49.47	− 1 28.2	2.028	3.026	1.2	20.9
4 11	12 41.83	− 0 35.8	2.043	3.031	3.9	21.1
4 21	12 34.90	+ 0 9.0	2.087	3.035	7.5	21.4
5 1	12 29.34	+ 0 42.1	2.156	3.040	10.8	21.6
5 11	12 25.61	+ 1 1.2	2.246	3.044	13.6	21.8

375997 2009 YD_{10} 4 2.7 81.°53 0.°6/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.47	− 5 22.5	1.890	2.749	12.5	21.1
3 12	13 5.04	− 4 52.6	1.827	2.758	8.9	20.9
3 22	12 57.82	− 4 13.3	1.789	2.767	4.8	20.7
4 1	12 49.58	− 3 29.3	1.778	2.777	0.8	20.4
4 11	12 41.28	− 2 46.2	1.795	2.786	3.9	20.7
4 21	12 33.83	− 2 9.4	1.840	2.795	7.9	20.9
5 1	12 27.97	− 1 43.3	1.910	2.804	11.5	21.2
5 11	12 24.19	− 1 30.4	2.001	2.814	14.5	21.4

396678 2002 RP_{192} 4 2.7 208.°96 1.°9/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.30	− 3 57.9	1.527	2.394	14.4	22.0
3 12	13 7.56	− 2 59.5	1.454	2.390	10.3	21.8
3 22	12 59.44	− 1 48.8	1.405	2.385	5.6	21.5
4 1	12 49.84	− 0 32.8	1.382	2.380	1.9	21.2
4 11	12 39.98	+ 0 39.4	1.387	2.374	5.5	21.4
4 21	12 31.09	+ 1 39.5	1.418	2.368	10.3	21.7
5 1	12 24.19	+ 2 21.5	1.473	2.361	14.7	21.9
5 11	12 19.93	+ 2 42.3	1.547	2.353	18.3	22.2

385393 2002 VZ_{2} 4 2.7 154.°01 0.°3/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.22	− 8 52.2	2.814	3.650	9.5	22.4
3 12	13 2.98	− 8 13.8	2.741	3.659	6.9	22.2
3 22	12 56.54	− 7 26.3	2.694	3.667	3.9	22.0
4 1	12 49.40	− 6 32.9	2.676	3.675	0.7	21.8
4 11	12 42.21	− 5 37.7	2.690	3.682	2.6	22.0
4 21	12 35.56	− 4 45.1	2.733	3.689	5.6	22.2
5 1	12 29.99	− 3 59.0	2.804	3.695	8.4	22.4
5 11	12 25.86	− 3 22.2	2.899	3.700	10.8	22.5

195132 2002 CT_{163} 4 2.7 334.°85 6.°9/ 6.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 12.78	−17 15.2	1.337	2.174	17.9	18.6
3 12	13 7.97	−18 35.7	1.248	2.152	14.5	18.3
3 22	13 0.11	−19 39.1	1.180	2.132	10.6	18.0
4 1	12 50.00	−20 21.3	1.134	2.112	7.5	17.7
4 11	12 39.01	−20 41.6	1.112	2.094	7.4	17.7
4 21	12 28.77	−20 42.8	1.114	2.078	10.7	17.8
5 1	12 20.79	−20 31.9	1.138	2.062	15.0	18.0
5 11	12 16.11	−20 17.9	1.180	2.049	19.1	18.2

133120 2003 OO_{31} 4 2.7 245.°89 0.°2/ 2.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.99	− 7 40.9	1.912	2.762	12.7	20.9
3 12	13 6.40	− 6 53.7	1.817	2.743	9.2	20.6
3 22	12 58.76	− 5 52.3	1.747	2.723	5.2	20.3
4 1	12 49.76	− 4 41.2	1.704	2.703	0.7	19.9
4 11	12 40.38	− 3 27.3	1.691	2.682	4.0	20.1
4 21	12 31.64	− 2 17.8	1.705	2.660	8.5	20.4
5 1	12 24.46	− 1 19.5	1.746	2.637	12.6	20.6
5 11	12 19.50	− 0 37.1	1.807	2.614	16.1	20.7

406359 2007 RA_{193} 4 2.7 82.°90 0.°2/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.57	− 8 39.5	1.458	2.321	15.2	21.2
3 12	13 5.48	− 7 36.6	1.402	2.334	10.9	21.0
3 22	12 58.18	− 6 16.9	1.369	2.348	6.0	20.7
4 1	12 49.65	− 4 47.6	1.362	2.361	0.8	20.4
4 11	12 41.10	− 3 18.6	1.382	2.374	4.5	20.7
4 21	12 33.67	− 1 59.2	1.428	2.387	9.3	21.0
5 1	12 28.24	− 0 56.5	1.498	2.400	13.6	21.3
5 11	12 25.32	− 0 14.6	1.588	2.413	17.1	21.5

522741 2016 LP_{64} 4 2.7 276.°16 7.°5/ 9.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.78	−27 0.0	2.011	2.773	15.4	21.5
3 12	13 6.47	−27 33.0	1.908	2.754	13.1	21.3
3 22	12 58.92	−27 43.0	1.825	2.734	10.5	21.1
4 1	12 49.80	−27 27.2	1.766	2.714	8.3	20.9
4 11	12 40.15	−26 46.6	1.732	2.694	7.5	20.8
4 21	12 31.09	−25 45.4	1.725	2.673	8.9	20.8
5 1	12 23.66	−24 31.2	1.743	2.653	11.6	20.9
5 11	12 18.63	−23 13.2	1.784	2.632	14.5	21.1

85865 1999 BW_{8} 4 2.7 108.°78 5.°5/27.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.11	+ 6 35.4	1.812	2.690	12.0	19.3
3 12	13 4.77	+ 8 12.9	1.767	2.704	8.7	19.1
3 22	12 57.65	+ 9 49.6	1.747	2.717	6.0	19.0
4 1	12 49.57	+11 16.5	1.756	2.731	5.8	19.0
4 11	12 41.51	+12 25.7	1.792	2.744	8.1	19.1
4 21	12 34.37	+13 12.4	1.853	2.756	11.2	19.3
5 1	12 28.89	+13 34.7	1.937	2.769	14.1	19.5
5 11	12 25.52	+13 33.9	2.040	2.781	16.6	19.8

29850 Tanakagyou 4 2.7 208.°74 0.°3/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.10	− 6 12.5	1.781	2.639	13.1	18.5
3 12	13 5.69	− 5 45.1	1.708	2.639	9.4	18.3
3 22	12 58.29	− 5 6.7	1.660	2.638	5.2	18.0
4 1	12 49.68	− 4 21.7	1.638	2.637	0.7	17.7
4 11	12 40.90	− 3 36.2	1.645	2.637	4.0	18.0
4 21	12 32.94	− 2 56.2	1.678	2.636	8.3	18.2
5 1	12 26.68	− 2 26.7	1.737	2.635	12.3	18.4
5 11	12 22.66	− 2 11.1	1.816	2.634	15.6	18.7

222363 2000 XH_{27} 4 2.7 127.°22 3.°2/ 6.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.31	−16 56.9	2.252	3.059	12.6	20.3
3 12	13 6.20	−16 56.1	2.181	3.073	9.7	20.2
3 22	12 58.43	−16 39.3	2.134	3.086	6.5	20.0
4 1	12 49.69	−16 8.2	2.114	3.099	3.8	19.8
4 11	12 40.88	−15 26.4	2.124	3.112	3.7	19.9
4 21	12 32.81	−14 38.8	2.162	3.123	6.4	20.0
5 1	12 26.22	−13 51.0	2.227	3.135	9.5	20.2
5 11	12 21.56	−13 8.4	2.315	3.146	12.2	20.4

365444 2010 MK_{61} 4 2.7 289.°15 0.°5/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.96	− 7 34.4	1.495	2.361	14.8	21.4
3 12	13 5.46	− 6 44.0	1.401	2.335	10.8	21.1
3 22	12 58.47	− 5 35.2	1.329	2.309	6.0	20.7
4 1	12 49.74	− 4 13.5	1.283	2.282	0.8	20.3
4 11	12 40.45	− 2 47.7	1.264	2.256	4.9	20.5
4 21	12 31.86	− 1 27.7	1.270	2.229	10.3	20.7
5 1	12 25.16	− 0 22.5	1.299	2.202	15.2	20.9
5 11	12 21.15	+ 0 21.8	1.348	2.176	19.4	21.1

208653 2002 FU_{3} 4 2.7 312.°60 6.°9/27.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.78	+ 5 39.5	1.263	2.158	14.8	19.5
3 12	13 4.07	+ 7 23.5	1.191	2.137	10.9	19.2
3 22	12 57.73	+ 9 13.5	1.141	2.116	7.6	19.0
4 1	12 49.63	+10 56.7	1.116	2.096	7.4	18.9
4 11	12 41.09	+12 19.7	1.115	2.076	10.7	19.0
4 21	12 33.48	+13 12.9	1.136	2.056	15.1	19.2
5 1	12 28.01	+13 31.7	1.176	2.038	19.4	19.4
5 11	12 25.44	+13 17.0	1.231	2.020	23.1	19.6

351961 2006 TQ_{117} 4 2.7 172°.43 6°.3/25.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 10.59	+16 18.1	2.562	3.421	9.6	20.5
3 12	13 4.76	+17 12.0	2.509	3.423	7.6	20.4
3 22	12 57.55	+17 58.1	2.482	3.424	6.4	20.3
4 1	12 49.57	+18 31.1	2.484	3.425	6.6	20.3
4 11	12 41.56	+18 47.0	2.513	3.426	8.0	20.4
4 21	12 34.23	+18 44.0	2.567	3.427	10.1	20.6
5 1	12 28.17	+18 22.1	2.645	3.427	12.1	20.7
5 11	12 23.79	+17 43.1	2.742	3.427	13.9	20.9

206913 2004 PH_{20} 4 2.7 112°.50 8°.6/24.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.44	+16 26.9	1.865	2.730	12.3	20.6
3 12	13 7.72	+18 31.8	1.843	2.757	9.9	20.5
3 22	12 59.21	+20 24.6	1.847	2.784	8.6	20.4
4 1	12 49.80	+21 55.3	1.879	2.809	9.1	20.5
4 11	12 40.55	+22 57.6	1.937	2.833	11.0	20.7
4 21	12 32.41	+23 29.3	2.019	2.856	13.3	20.9
5 1	12 26.09	+23 32.0	2.121	2.879	15.5	21.1
5 11	12 22.00	+23 9.6	2.240	2.900	17.3	21.3

129770 1999 HV 4 2.7 255°.63 12°.1/21.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 19.80	+26 55.7	1.784	2.621	14.1	19.5
3 12	13 12.16	+28 18.1	1.724	2.602	12.7	19.3
3 22	13 1.98	+29 21.6	1.687	2.582	12.1	19.2
4 1	12 50.24	+29 55.6	1.674	2.561	12.8	19.2
4 11	12 38.27	+29 53.5	1.685	2.540	14.5	19.3
4 21	12 27.41	+29 14.3	1.717	2.518	16.8	19.4
5 1	12 18.72	+28 1.0	1.767	2.496	19.1	19.5
5 11	12 12.84	+26 20.1	1.833	2.473	21.1	19.6

327436 2005 WF_{95} 4 2.7 256°.71 6°.8/26.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.08	+13 28.8	2.134	2.999	11.0	21.4
3 12	13 6.99	+14 41.2	2.054	2.976	8.6	21.2
3 22	12 59.01	+15 49.0	2.000	2.952	7.0	21.1
4 1	12 49.81	+16 44.5	1.975	2.928	7.1	21.0
4 11	12 40.32	+17 21.2	1.976	2.903	9.1	21.1
4 21	12 31.47	+17 35.1	2.003	2.877	11.9	21.2
5 1	12 24.11	+17 25.2	2.053	2.851	14.6	21.4
5 11	12 18.81	+16 52.8	2.121	2.824	17.0	21.5

43552 2001 FT_{34} 4 2.7 249°.68 3°.6/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.49	+ 1 55.4	2.295	3.165	10.1	19.7
3 12	13 2.83	+ 3 36.0	2.211	3.148	7.2	19.4
3 22	12 56.63	+ 5 22.9	2.155	3.131	4.4	19.2
4 1	12 49.46	+ 7 9.0	2.129	3.114	3.8	19.2
4 11	12 42.07	+ 8 46.4	2.133	3.096	6.2	19.3
4 21	12 35.21	+10 8.6	2.165	3.078	9.3	19.4
5 1	12 29.58	+11 11.2	2.222	3.060	12.3	19.6
5 11	12 25.67	+11 52.4	2.299	3.040	14.9	19.8

230039 2000 QR_{156} 4 2.7 180°.58 6°.6/ 9.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.05	−26 42.0	2.239	2.993	14.3	20.6
3 12	13 7.01	−27 7.0	2.152	2.994	11.9	20.5
3 22	12 59.03	−27 10.4	2.087	2.995	9.4	20.3
4 1	12 49.82	−26 50.9	2.047	2.995	7.3	20.2
4 11	12 40.34	−26 10.4	2.033	2.994	6.6	20.1
4 21	12 31.56	−25 13.5	2.047	2.994	7.8	20.2
5 1	12 24.34	−24 6.9	2.088	2.992	10.2	20.3
5 11	12 19.27	−22 58.4	2.151	2.991	12.7	20.5

157304 2004 SR_{24} 4 2.7 241°.34 0°.2/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.72	− 7 12.4	2.149	2.999	11.5	21.1
3 12	13 4.54	− 6 29.0	2.059	2.985	8.3	20.8
3 22	12 57.62	− 5 34.0	1.994	2.971	4.6	20.6
4 1	12 49.61	− 4 31.5	1.958	2.957	0.6	20.2
4 11	12 41.35	− 3 27.3	1.951	2.942	3.5	20.4
4 21	12 33.69	− 2 27.5	1.973	2.927	7.5	20.6
5 1	12 27.39	− 1 37.5	2.020	2.911	11.1	20.8
5 11	12 22.99	− 1 1.2	2.090	2.895	14.2	21.0

180888 2005 JW_{125} 4 2.7 307°.33 0°.4/ 2.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.51	− 7 56.4	1.432	2.297	15.3	20.5
3 12	13 5.87	− 7 38.2	1.347	2.280	11.2	20.2
3 22	12 58.70	− 7 4.5	1.285	2.263	6.4	19.9
4 1	12 49.80	− 6 19.2	1.247	2.246	1.2	19.5
4 11	12 40.42	− 5 29.3	1.235	2.229	4.4	19.7
4 21	12 31.87	− 4 42.5	1.248	2.212	9.8	19.9
5 1	12 25.33	− 4 6.4	1.284	2.197	14.6	20.2
5 11	12 21.56	− 3 46.3	1.339	2.181	18.8	20.4

317124 2001 UW_{28} 4 2.7 100°.65 1°.5/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.38	− 1 49.1	2.362	3.221	10.3	21.1
3 12	13 3.94	− 1 13.4	2.303	3.235	7.2	20.9
3 22	12 57.12	− 0 32.8	2.270	3.250	3.9	20.7
4 1	12 49.53	+ 0 8.5	2.267	3.264	1.5	20.5
4 11	12 41.93	+ 0 45.7	2.293	3.277	3.9	20.7
4 21	12 35.02	+ 1 15.2	2.347	3.291	7.1	21.0
5 1	12 29.39	+ 1 33.8	2.427	3.304	10.1	21.2
5 11	12 25.46	+ 1 40.3	2.530	3.317	12.5	21.4

495856 2003 KM_{11} 4 2.7 274°.30 1°.0/ 3.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 13.38	−11 20.9	1.893	2.729	13.4	23.8
3 12	13 7.67	−10 36.7	1.775	2.692	10.0	23.5
3 22	12 59.66	− 9 33.3	1.682	2.653	6.0	23.2
4 1	12 49.96	− 8 13.7	1.616	2.614	1.6	22.8
4 11	12 39.58	− 6 44.1	1.579	2.572	3.8	22.9
4 21	12 29.64	− 5 12.9	1.571	2.530	8.7	23.1
5 1	12 21.23	− 3 49.0	1.590	2.487	13.3	23.3
5 11	12 15.17	− 2 39.6	1.630	2.442	17.3	23.4

426416 2013 QY_{3} 4 2.7 228°.95 2°.3/ 4.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.27	−13 36.8	2.101	2.926	12.7	22.6
3 12	13 6.46	−13 26.5	2.009	2.915	9.6	22.4
3 22	12 58.74	−13 0.9	1.940	2.904	6.1	22.1
4 1	12 49.79	−12 22.0	1.899	2.892	2.8	21.9
4 11	12 40.54	−11 33.9	1.887	2.879	3.4	21.9
4 21	12 31.92	−10 42.1	1.903	2.866	7.1	22.1
5 1	12 24.77	− 9 52.7	1.946	2.852	10.7	22.3
5 11	12 19.70	− 9 11.1	2.012	2.838	14.0	22.5

236233 2005 YT_{4} 4 2.7 204°.60 2°.2/ 4.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.66	−13 8.6	1.791	2.622	14.3	21.7
3 12	13 8.39	−12 51.2	1.706	2.617	10.8	21.4
3 22	12 59.89	−12 16.2	1.645	2.611	6.7	21.2
4 1	12 49.97	−11 26.2	1.610	2.605	2.7	20.9
4 11	12 39.74	−10 26.4	1.605	2.598	3.8	21.0
4 21	12 30.33	− 9 24.1	1.627	2.590	8.0	21.2
5 1	12 22.72	− 8 26.6	1.674	2.581	12.2	21.4
5 11	12 17.56	− 7 40.1	1.744	2.571	15.7	21.6

209367 2004 EN_{8} 4 2.7 304°.14 0°.7/ 3.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.86	− 8 46.5	2.027	2.877	12.1	20.1
3 12	13 4.04	− 8 32.1	1.938	2.862	8.9	19.8
3 22	12 57.40	− 8 6.0	1.872	2.847	5.2	19.6
4 1	12 49.60	− 7 31.0	1.834	2.832	1.2	19.3
4 11	12 41.51	− 6 52.0	1.824	2.818	3.3	19.4
4 21	12 34.03	− 6 13.9	1.842	2.804	7.4	19.6
5 1	12 27.97	− 5 42.1	1.885	2.790	11.1	19.8
5 11	12 23.91	− 5 20.6	1.950	2.776	14.4	20.0

90112 2002 XZ_{44} 4 2.7 28°.47 5°.2/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.94	−21 52.8	2.023	2.818	14.2	19.4
3 12	13 4.09	−22 5.3	1.946	2.823	11.5	19.2
3 22	12 57.40	−21 57.2	1.892	2.827	8.5	19.0
4 1	12 49.59	−21 28.8	1.862	2.833	5.9	18.9
4 11	12 41.60	−20 43.4	1.859	2.838	5.3	18.9
4 21	12 34.36	−19 46.4	1.883	2.844	7.3	19.0
5 1	12 28.67	−18 44.8	1.933	2.850	10.2	19.2
5 11	12 25.07	−17 45.8	2.006	2.857	13.1	19.4

25169 1998 SR_{65} 4 2.7 201°.36 1°.4/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.77	− 3 20.9	2.083	2.940	11.5	19.5
3 12	13 5.96	− 2 35.2	2.005	2.936	8.2	19.3
3 22	12 58.39	− 1 41.3	1.952	2.931	4.5	19.1
4 1	12 49.74	− 0 44.2	1.929	2.926	1.4	18.9
4 11	12 40.91	+ 0 10.1	1.934	2.920	4.3	19.0
4 21	12 32.79	+ 0 56.1	1.968	2.914	8.1	19.3
5 1	12 26.14	+ 1 29.4	2.028	2.907	11.6	19.5
5 11	12 21.48	+ 1 47.7	2.109	2.899	14.6	19.7

361112 2006 ER_{2} 4 2.7 343°.74 1°.8/ 1.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.37	− 4 2.4	1.038	1.932	17.4	20.1
3 12	13 4.10	− 3 26.7	0.972	1.921	12.5	19.8
3 22	12 57.88	− 2 35.8	0.926	1.910	6.8	19.5
4 1	12 49.71	− 1 37.5	0.903	1.901	1.8	19.1
4 11	12 41.13	− 0 42.5	0.902	1.894	6.3	19.3
4 21	12 33.73	− 0 0.8	0.923	1.887	12.3	19.6
5 1	12 28.82	+ 0 20.1	0.963	1.882	17.6	19.9
5 11	12 27.16	+ 0 16.9	1.020	1.879	22.1	20.2

88995 2001 TR_{75} 4 2.7 109°.79 2°.1/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.73	+ 0 36.8	2.304	3.166	10.4	19.9
3 12	13 4.98	+ 1 1.9	2.240	3.173	7.3	19.7
3 22	12 57.74	+ 1 30.0	2.201	3.180	4.1	19.5
4 1	12 49.65	+ 1 57.1	2.192	3.186	2.1	19.4
4 11	12 41.51	+ 2 18.8	2.212	3.193	4.4	19.5
4 21	12 34.06	+ 2 31.8	2.259	3.199	7.6	19.7
5 1	12 27.95	+ 2 33.7	2.333	3.206	10.6	19.9
5 11	12 23.61	+ 2 23.5	2.429	3.212	13.1	20.1

239519 2008 DJ_{54} 4 2.7 89°.59 1°.1/ 3.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.31	− 9 30.6	2.358	3.195	11.1	20.1
3 12	13 4.72	− 9 27.6	2.285	3.203	8.1	19.9
3 22	12 57.62	− 9 14.8	2.239	3.210	4.8	19.7
4 1	12 49.64	− 8 54.4	2.220	3.217	1.5	19.5
4 11	12 41.56	− 8 29.9	2.231	3.224	2.8	19.6
4 21	12 34.13	− 8 5.4	2.271	3.231	6.2	19.8
5 1	12 28.01	− 7 44.6	2.337	3.239	9.4	20.0
5 11	12 23.64	− 7 30.9	2.427	3.246	12.1	20.2

292052 2006 RC_4 4 2.7 174.°80 0.°7/ 2.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 11.67	− 6 1.9	2.123	2.973	11.6	22.3
3 12	13 5.82	− 5 14.4	2.050	2.977	8.3	22.1
3 22	12 58.28	− 4 16.7	2.002	2.979	4.5	21.9
4 1	12 49.74	− 3 13.7	1.982	2.981	0.8	21.6
4 11	12 41.08	− 2 11.3	1.993	2.982	3.7	21.8
4 21	12 33.15	− 1 15.3	2.032	2.982	7.6	22.1
5 1	12 26.68	− 0 30.6	2.097	2.982	11.0	22.3
5 11	12 22.16	− 0 0.1	2.184	2.981	14.0	22.5

480796 2016 PT_{54} 4 2.7 312.°13 1.°4/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.05	− 1 22.4	2.147	3.008	11.1	20.7
3 12	13 5.42	− 1 10.9	2.069	3.001	7.9	20.5
3 22	12 58.09	− 0 54.9	2.016	2.995	4.3	20.3
4 1	12 49.72	− 0 37.8	1.991	2.988	1.4	20.1
4 11	12 41.16	− 0 24.0	1.995	2.982	4.1	20.2
4 21	12 33.27	− 0 16.9	2.027	2.976	7.7	20.5
5 1	12 26.78	− 0 19.4	2.085	2.970	11.1	20.7
5 11	12 22.21	− 0 33.0	2.165	2.964	14.0	20.8

247916 2003 WO_{34} 4 2.7 262.°45 3.°0/ 5.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.55	−16 32.6	2.237	3.051	12.4	20.6
3 12	13 4.49	−16 18.2	2.135	3.032	9.6	20.4
3 22	12 57.67	−15 46.8	2.057	3.013	6.4	20.2
4 1	12 49.68	−14 59.9	2.005	2.993	3.5	19.9
4 11	12 41.35	−14 1.2	1.983	2.973	3.6	19.9
4 21	12 33.56	−12 56.3	1.989	2.953	6.7	20.0
5 1	12 27.10	−11 51.5	2.021	2.932	10.2	20.2
5 11	12 22.56	−10 53.2	2.077	2.911	13.3	20.4

206237 2002 WG_{15} 4 2.7 78.°94 4.°4/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.52	+ 6 18.0	2.122	2.995	10.7	20.3
3 12	13 4.12	+ 7 21.3	2.080	3.015	7.7	20.1
3 22	12 57.24	+ 8 23.3	2.064	3.035	5.1	20.0
4 1	12 49.58	+ 9 17.7	2.076	3.055	4.5	20.0
4 11	12 41.99	+ 9 59.0	2.116	3.075	6.5	20.2
4 21	12 35.22	+10 23.9	2.183	3.095	9.3	20.4
5 1	12 29.88	+10 30.9	2.274	3.115	12.0	20.6
5 11	12 26.36	+10 20.6	2.385	3.134	14.2	20.8

252928 2002 NH_{62} 4 2.7 279.°86 2.°0/ 1.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.44	− 2 43.1	1.560	2.431	13.9	20.9
3 12	13 6.32	− 1 59.4	1.479	2.417	10.0	20.6
3 22	12 58.85	− 1 5.3	1.421	2.402	5.5	20.3
4 1	12 49.86	− 0 7.0	1.390	2.387	2.0	20.0
4 11	12 40.49	+ 0 47.5	1.385	2.372	5.5	20.2
4 21	12 31.94	+ 1 30.8	1.406	2.357	10.3	20.5
5 1	12 25.27	+ 1 57.5	1.450	2.342	14.7	20.7
5 11	12 21.16	+ 2 4.6	1.514	2.326	18.4	20.9

246771 2009 CZ_{48} 4 2.7 261.°25 3.°6/29.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.72	+ 3 6.5	2.151	3.024	10.6	20.9
3 12	13 3.02	+ 4 12.6	2.080	3.018	7.5	20.7
3 22	12 56.75	+ 5 22.0	2.035	3.011	4.6	20.5
4 1	12 49.53	+ 6 28.2	2.018	3.005	3.7	20.5
4 11	12 42.17	+ 7 25.0	2.030	2.999	6.0	20.6
4 21	12 35.45	+ 8 7.3	2.069	2.992	9.1	20.8
5 1	12 30.06	+ 8 32.2	2.132	2.986	12.2	21.0
5 11	12 26.47	+ 8 38.8	2.215	2.979	14.8	21.1

507743 2013 XU_{17} 4 2.7 162.°88 5.°0/ 9.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.48	−24 51.0	2.494	3.258	12.7	21.9
3 12	13 4.21	−24 42.9	2.409	3.263	10.4	21.7
3 22	12 57.38	−24 14.8	2.346	3.267	7.9	21.6
4 1	12 49.62	−23 27.3	2.309	3.270	5.7	21.4
4 11	12 41.73	−22 23.5	2.301	3.273	5.0	21.4
4 21	12 34.48	−21 8.6	2.321	3.276	6.5	21.5
5 1	12 28.55	−19 49.1	2.368	3.279	8.9	21.7
5 11	12 24.40	−18 31.7	2.440	3.281	11.4	21.8

498625 2008 RP_{121} 4 2.7 151.°22 0.°3/ 2.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.07	− 7 9.1	2.109	2.961	11.6	22.2
3 12	13 3.98	− 6 23.3	2.037	2.965	8.3	22.0
3 22	12 57.27	− 5 26.7	1.992	2.969	4.6	21.8
4 1	12 49.61	− 4 23.7	1.974	2.973	0.6	21.5
4 11	12 41.86	− 3 20.4	1.985	2.976	3.5	21.7
4 21	12 34.81	− 2 22.7	2.024	2.979	7.3	21.9
5 1	12 29.17	− 1 35.4	2.090	2.982	10.8	22.2
5 11	12 25.40	− 1 2.0	2.177	2.985	13.7	22.4

277473 2005 WD_1 4 2.7 197.°57 14.°8/10.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 36.99	+51 1.8	2.497	3.166	14.9	22.2
3 12	13 24.11	+52 22.3	2.479	3.161	14.8	22.2
3 22	13 8.36	+53 10.4	2.481	3.156	15.1	22.2
4 1	12 51.20	+53 18.8	2.502	3.149	15.6	22.2
4 11	12 34.45	+52 45.3	2.540	3.141	16.3	22.3
4 21	12 19.70	+51 32.8	2.595	3.131	17.1	22.4
5 1	12 8.01	+49 48.0	2.663	3.120	17.9	22.4
5 11	11 59.80	+47 38.9	2.743	3.108	18.6	22.5

178706 2000 SK_{168} 4 2.7 243.°44 2.°1/ 5.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.10	−14 46.0	2.697	3.513	10.5	20.8
3 12	13 3.15	−14 27.5	2.598	3.499	8.0	20.7
3 22	12 56.79	−13 56.0	2.525	3.485	5.2	20.5
4 1	12 49.55	−13 13.1	2.479	3.470	2.5	20.2
4 11	12 42.10	−12 22.3	2.464	3.455	2.9	20.2
4 21	12 35.11	−11 28.0	2.477	3.440	5.7	20.4
5 1	12 29.20	−10 35.1	2.518	3.424	8.6	20.6
5 11	12 24.85	− 9 48.0	2.584	3.408	11.3	20.7

402924 2007 TP_{156} 4 2.7 165.°83 0.°3/ 3.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.72	− 8 0.7	2.058	2.899	12.3	22.7
3 12	13 8.04	− 7 37.5	1.985	2.905	8.9	22.5
3 22	12 59.54	− 7 3.3	1.937	2.911	5.0	22.3
4 1	12 49.95	− 6 21.5	1.917	2.916	0.9	22.0
4 11	12 40.24	− 5 37.4	1.928	2.920	3.4	22.2
4 21	12 31.33	− 4 56.1	1.967	2.923	7.4	22.4
5 1	12 24.02	− 4 22.6	2.032	2.925	11.0	22.7
5 11	12 18.81	− 4 0.3	2.121	2.927	14.0	22.9

331257 2011 CR_{35} 4 2.7 272.°88 1.°5/ 3.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.23	−10 39.9	1.800	2.645	13.6	20.9
3 12	13 5.94	−10 28.6	1.714	2.634	10.1	20.6
3 22	12 58.57	−10 2.7	1.652	2.624	6.1	20.4
4 1	12 49.83	− 9 24.8	1.616	2.613	2.0	20.1
4 11	12 40.78	− 8 40.1	1.608	2.602	3.6	20.2
4 21	12 32.45	− 7 54.7	1.627	2.591	7.9	20.4
5 1	12 25.79	− 7 14.9	1.671	2.580	12.0	20.6
5 11	12 21.43	− 6 45.7	1.737	2.569	15.6	20.8

498731 2008 TF_{127} 4 2.7 250.°18 2.°4/ 4.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.75	−13 37.5	1.980	2.810	13.2	21.6
3 12	13 5.42	−13 33.2	1.897	2.806	10.0	21.4
3 22	12 58.19	−13 13.5	1.837	2.802	6.3	21.1
4 1	12 49.77	−12 40.4	1.805	2.797	3.0	20.9
4 11	12 41.11	−11 58.0	1.800	2.793	3.6	20.9
4 21	12 33.16	−11 11.8	1.823	2.788	7.2	21.2
5 1	12 26.75	−10 28.0	1.872	2.783	10.8	21.4
5 11	12 22.45	− 9 51.8	1.944	2.779	14.0	21.6

90735 1993 FC_{10} 4 2.7 303.°32 2.°0/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.02	− 0 33.4	1.798	2.664	12.6	18.9
3 12	13 7.10	− 0 17.3	1.724	2.659	9.0	18.7
3 22	12 59.13	+ 0 3.6	1.675	2.654	5.0	18.5
4 1	12 49.91	+ 0 24.8	1.653	2.649	2.0	18.2
4 11	12 40.49	+ 0 41.1	1.659	2.645	4.9	18.4
4 21	12 31.89	+ 0 48.2	1.692	2.640	9.0	18.7
5 1	12 25.00	+ 0 43.0	1.750	2.636	12.8	18.9
5 11	12 20.40	+ 0 24.2	1.828	2.631	16.0	19.1

162530 2000 QV_{141} 4 2.7 286.°94 0.°2/ 2.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 15.43	− 6 20.2	1.472	2.333	15.2	19.4
3 12	13 9.61	− 6 18.3	1.375	2.305	11.2	19.1
3 22	13 0.95	− 6 4.3	1.300	2.278	6.4	18.7
4 1	12 50.24	− 5 41.2	1.251	2.250	1.0	18.3
4 11	12 38.75	− 5 14.7	1.229	2.222	4.7	18.5
4 21	12 27.95	− 4 50.9	1.233	2.194	10.2	18.7
5 1	12 19.19	− 4 36.4	1.260	2.166	15.3	18.9
5 11	12 13.39	− 4 35.9	1.305	2.137	19.8	19.1

496325 2013 KB_{13} 4 2.7 255.°64 4.°1/ 6.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.07	−19 40.2	2.003	2.804	14.1	22.9
3 12	13 6.59	−19 23.0	1.895	2.781	11.2	22.6
3 22	12 58.99	−18 43.8	1.809	2.757	7.9	22.3
4 1	12 49.93	−17 43.0	1.750	2.732	4.8	22.1
4 11	12 40.40	−16 24.6	1.719	2.706	4.5	22.0
4 21	12 31.44	−14 55.4	1.716	2.680	7.6	22.2
5 1	12 24.03	−13 24.1	1.740	2.652	11.4	22.3
5 11	12 18.88	−11 59.3	1.787	2.624	15.0	22.5

168365 1996 TT_{25} 4 2.7 163.°58 0.°1/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.94	− 7 35.3	1.965	2.813	12.6	22.0
3 12	13 6.85	− 6 55.0	1.894	2.819	9.0	21.7
3 22	12 58.91	− 6 2.8	1.848	2.824	5.0	21.5
4 1	12 49.90	− 5 3.4	1.830	2.829	0.7	21.2
4 11	12 40.77	− 4 2.8	1.842	2.833	3.6	21.4
4 21	12 32.46	− 3 7.4	1.881	2.837	7.8	21.7
5 1	12 25.76	− 2 22.4	1.947	2.839	11.4	21.9
5 11	12 21.18	− 1 51.4	2.035	2.841	14.5	22.1

122236 2000 OJ_{11} 4 2.7 259.°80 1.°8/ 1.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.99	− 3 48.5	1.572	2.440	14.0	20.5
3 12	13 6.74	− 2 54.7	1.488	2.424	10.0	20.2
3 22	12 59.13	− 1 48.4	1.428	2.408	5.5	19.9
4 1	12 49.96	− 0 36.0	1.395	2.392	1.8	19.6
4 11	12 40.38	+ 0 33.8	1.388	2.375	5.5	19.8
4 21	12 31.61	+ 1 32.7	1.408	2.358	10.3	20.1
5 1	12 24.72	+ 2 14.3	1.451	2.341	14.8	20.3
5 11	12 20.39	+ 2 35.1	1.513	2.323	18.5	20.5

383891 2008 SV_5 4 2.7 156°.82 2°.1/30.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.65	− 0 45.9	2.560	3.420	9.6	21.9
3 12	13 3.42	+ 0 21.8	2.495	3.428	6.7	21.8
3 22	12 56.87	+ 1 34.5	2.457	3.435	3.7	21.6
4 1	12 49.59	+ 2 46.9	2.449	3.442	2.2	21.5
4 11	12 42.26	+ 3 53.7	2.471	3.448	4.4	21.6
4 21	12 35.52	+ 4 50.1	2.523	3.454	7.3	21.8
5 1	12 29.96	+ 5 32.8	2.600	3.459	10.1	22.0
5 11	12 25.95	+ 6 0.3	2.700	3.464	12.4	22.2

371014 2005 UJ_{22} 4 2.7 260°.67 0°.0/ 2.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.94	− 6 43.1	1.810	2.665	13.1	21.2
3 12	13 6.41	− 6 24.1	1.727	2.656	9.5	20.9
3 22	12 58.82	− 5 53.8	1.669	2.646	5.3	20.7
4 1	12 49.91	− 5 16.1	1.637	2.636	0.8	20.3
4 11	12 40.70	− 4 36.4	1.634	2.626	3.8	20.5
4 21	12 32.25	− 4 0.5	1.658	2.617	8.3	20.8
5 1	12 25.45	− 3 33.7	1.707	2.606	12.3	21.0
5 11	12 20.94	− 3 19.6	1.776	2.596	15.8	21.2

201242 2002 RH_{77} 4 2.7 193°.50 0°.5/ 3.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.27	− 9 2.7	2.273	3.116	11.3	20.7
3 12	13 4.10	− 8 35.5	2.194	3.115	8.2	20.5
3 22	12 57.36	− 7 57.3	2.140	3.113	4.7	20.3
4 1	12 49.68	− 7 11.2	2.114	3.112	1.0	20.0
4 11	12 41.85	− 6 22.1	2.117	3.110	3.0	20.2
4 21	12 34.65	− 5 34.9	2.149	3.108	6.6	20.4
5 1	12 28.76	− 4 54.5	2.208	3.106	10.0	20.6
5 11	12 24.66	− 4 24.3	2.289	3.104	12.8	20.8

166606 2002 RQ_{227} 4 2.7 245°.39 2°.5/ 4.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.63	−12 54.0	1.651	2.491	14.9	20.2
3 12	13 7.08	−12 52.5	1.574	2.488	11.2	20.0
3 22	12 59.25	−12 33.8	1.518	2.486	7.1	19.7
4 1	12 49.97	−11 59.9	1.489	2.483	3.1	19.5
4 11	12 40.41	−11 15.9	1.487	2.480	4.0	19.5
4 21	12 31.73	−10 28.5	1.511	2.477	8.2	19.7
5 1	12 24.92	− 9 44.7	1.560	2.474	12.4	20.0
5 11	12 20.63	− 9 10.5	1.630	2.471	16.0	20.2

227386 2005 UJ_{297} 4 2.7 240°.75 0°.6/ 3.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.46	− 9 18.2	1.959	2.805	12.6	21.5
3 12	13 5.23	− 8 46.3	1.873	2.796	9.2	21.3
3 22	12 58.12	− 8 0.8	1.811	2.786	5.3	21.1
4 1	12 49.81	− 7 5.3	1.777	2.776	1.1	20.7
4 11	12 41.23	− 6 5.7	1.772	2.765	3.4	20.9
4 21	12 33.34	− 5 8.2	1.794	2.754	7.7	21.1
5 1	12 26.96	− 4 19.0	1.842	2.743	11.5	21.3
5 11	12 22.68	− 3 42.6	1.912	2.732	14.8	21.5

422775 2001 UK_{200} 4 2.7 193°.23 0°.8/ 3.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.68	− 9 58.2	2.370	3.204	11.2	23.0
3 12	13 5.78	− 9 31.2	2.286	3.202	8.2	22.8
3 22	12 58.29	− 8 52.7	2.227	3.199	4.8	22.6
4 1	12 49.83	− 8 5.6	2.198	3.195	1.3	22.3
4 11	12 41.19	− 7 14.5	2.198	3.191	2.9	22.4
4 21	12 33.18	− 6 24.4	2.227	3.186	6.5	22.7
5 1	12 26.47	− 5 40.1	2.284	3.180	9.8	22.8
5 11	12 21.57	− 5 5.5	2.364	3.173	12.7	23.0

415023 2011 NC_2 4 2.7 273°.60 1°.8/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.59	−16 19.4	4.384	5.183	7.1	21.2
3 12	12 58.80	−16 11.2	4.289	5.177	5.4	21.1
3 22	12 54.25	−15 54.8	4.220	5.170	3.7	20.9
4 1	12 49.23	−15 31.3	4.179	5.164	2.1	20.8
4 11	12 44.12	−15 2.5	4.169	5.157	2.1	20.8
4 21	12 39.29	−14 30.6	4.189	5.150	3.6	20.9
5 1	12 35.08	−13 58.0	4.237	5.144	5.4	21.0
5 11	12 31.76	−13 27.4	4.311	5.137	7.1	21.1

95081 2002 AK_{82} 4 2.7 359°.28 1°.4/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.55	−11 59.4	1.258	2.122	17.1	19.0
3 12	13 4.56	−11 14.7	1.190	2.120	12.6	18.8
3 22	12 57.98	−10 6.4	1.144	2.120	7.5	18.5
4 1	12 49.80	− 8 39.9	1.122	2.119	2.1	18.1
4 11	12 41.38	− 7 5.6	1.124	2.119	4.4	18.3
4 21	12 34.05	− 5 34.9	1.151	2.120	9.8	18.6
5 1	12 28.94	− 4 18.4	1.201	2.121	14.8	18.9
5 11	12 26.67	− 3 22.8	1.269	2.123	18.9	19.1

411718 2012 BP_{14} 4 2.7 85°.66 2°.6/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.86	−12 37.5	1.557	2.399	15.5	20.8
3 12	13 7.96	−12 40.7	1.490	2.406	11.7	20.6
3 22	12 59.71	−12 26.5	1.445	2.413	7.3	20.3
4 1	12 50.05	−11 57.2	1.426	2.420	3.2	20.1
4 11	12 40.21	−11 18.0	1.434	2.427	4.1	20.2
4 21	12 31.40	−10 35.6	1.468	2.434	8.4	20.4
5 1	12 24.63	− 9 57.1	1.526	2.441	12.6	20.7
5 11	12 20.48	− 9 28.3	1.606	2.448	16.2	20.9

520139 2014 BG_{68} 4 2.7 131°.31 6°.2/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.89	−27 56.8	2.495	3.239	13.2	21.2
3 12	13 4.59	−28 11.1	2.412	3.245	11.1	21.1
3 22	12 57.66	−28 4.8	2.351	3.251	8.9	20.9
4 1	12 49.74	−27 37.4	2.315	3.257	6.9	20.8
4 11	12 41.66	−26 50.9	2.305	3.263	6.2	20.8
4 21	12 34.22	−25 49.9	2.323	3.268	7.1	20.8
5 1	12 28.15	−24 40.3	2.368	3.273	9.1	21.0
5 11	12 23.92	−23 29.1	2.437	3.278	11.3	21.1

345548 2006 QS_{187} 4 2.7 153°.24 3°.8/28.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.62	+ 5 25.8	2.461	3.331	9.5	20.8
3 12	13 2.75	+ 6 35.3	2.401	3.336	6.8	20.6
3 22	12 56.54	+ 7 45.4	2.368	3.340	4.5	20.5
4 1	12 49.57	+ 8 50.2	2.364	3.344	4.0	20.5
4 11	12 42.54	+ 9 44.3	2.389	3.348	5.9	20.6
4 21	12 36.12	+10 24.0	2.441	3.351	8.6	20.8
5 1	12 30.88	+10 46.8	2.518	3.354	11.1	20.9
5 11	12 27.24	+10 52.7	2.616	3.357	13.3	21.1

457367 2008 SY_{291} 4 2.7 192°.11 2°.4/ 4.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 15.01	−13 58.4	1.851	2.677	14.1	22.5
3 12	13 8.59	−13 41.7	1.769	2.676	10.7	22.2
3 22	13 0.03	−13 7.3	1.709	2.673	6.7	22.0
4 1	12 50.11	−12 17.5	1.677	2.670	3.0	21.8
4 11	12 39.92	−11 17.6	1.674	2.666	3.7	21.8
4 21	12 30.56	−10 14.4	1.698	2.661	7.8	22.0
5 1	12 22.97	− 9 15.2	1.749	2.655	11.7	22.2
5 11	12 17.76	− 8 26.3	1.822	2.649	15.2	22.5

284569 2007 TD_{55} 4 2.7 261°.05 1°.5/ 4.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.17	−12 21.4	2.158	2.994	12.0	21.4
3 12	13 3.45	−11 54.1	2.074	2.988	9.0	21.2
3 22	12 57.07	−11 12.3	2.013	2.982	5.5	20.9
4 1	12 49.67	−10 19.0	1.980	2.976	2.0	20.7
4 11	12 42.07	− 9 19.1	1.976	2.970	3.1	20.8
4 21	12 35.10	− 8 18.5	2.000	2.964	6.7	21.0
5 1	12 29.48	− 7 23.0	2.050	2.958	10.2	21.2
5 11	12 25.73	− 6 37.4	2.123	2.952	13.3	21.4

368678 2005 QN_{81} 4 2.7 231°.75 1°.4/ 4.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.13	−11 14.7	2.125	2.958	12.3	22.7
3 12	13 6.37	−10 55.7	2.032	2.946	9.1	22.5
3 22	12 58.74	−10 22.9	1.964	2.933	5.5	22.2
4 1	12 49.92	− 9 39.1	1.923	2.919	1.9	22.0
4 11	12 40.80	− 8 48.7	1.912	2.905	3.2	22.0
4 21	12 32.29	− 7 57.2	1.929	2.890	7.1	22.3
5 1	12 25.22	− 7 10.6	1.973	2.875	10.8	22.4
5 11	12 20.18	− 6 33.6	2.040	2.859	14.1	22.6

507725 2013 VD_{25} 4 2.7 251°.50 5°.7/27.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.17	+10 34.4	2.100	2.969	11.0	21.1
3 12	13 6.31	+11 30.0	2.028	2.956	8.3	20.9
3 22	12 58.66	+12 22.3	1.981	2.943	6.2	20.7
4 1	12 49.90	+13 4.4	1.962	2.929	6.0	20.7
4 11	12 40.96	+13 30.6	1.970	2.916	8.0	20.8
4 21	12 32.72	+13 37.5	2.005	2.901	10.8	20.9
5 1	12 25.96	+13 23.7	2.063	2.887	13.6	21.1
5 11	12 21.22	+12 50.6	2.140	2.872	16.1	21.2

209470 2004 GB_{57} 4 2.7 68°.40 0°.0/ 2.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.33	− 7 15.7	2.033	2.885	12.0	20.9
3 12	13 4.15	− 6 43.4	1.975	2.902	8.6	20.7
3 22	12 57.36	− 6 0.9	1.943	2.920	4.7	20.5
4 1	12 49.70	− 5 12.6	1.938	2.937	0.7	20.2
4 11	12 42.03	− 4 23.9	1.962	2.954	3.3	20.4
4 21	12 35.17	− 3 40.1	2.013	2.971	7.1	20.7
5 1	12 29.77	− 3 5.5	2.091	2.988	10.5	20.9
5 11	12 26.28	− 2 43.2	2.190	3.005	13.3	21.2

247001 1999 VL_{60} 4 2.7 103°.64 2°.4/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.74	+ 0 49.2	2.154	3.015	11.0	20.9
3 12	13 6.43	+ 1 24.1	2.102	3.035	7.8	20.7
3 22	12 58.56	+ 2 1.9	2.077	3.055	4.4	20.5
4 1	12 49.88	+ 2 37.8	2.080	3.074	2.4	20.4
4 11	12 41.24	+ 3 7.1	2.113	3.092	4.7	20.6
4 21	12 33.44	+ 3 26.1	2.173	3.110	8.0	20.8
5 1	12 27.13	+ 3 32.5	2.260	3.128	11.0	21.0
5 11	12 22.72	+ 3 25.5	2.368	3.146	13.6	21.2

141218 2001 XV_{220} 4 2.7 60°.88 5°.1/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.02	−23 34.9	2.205	2.987	13.6	19.7
3 12	13 3.33	−23 29.2	2.128	2.995	11.1	19.5
3 22	12 56.98	−23 2.5	2.073	3.003	8.3	19.3
4 1	12 49.66	−22 15.5	2.044	3.011	5.8	19.2
4 11	12 42.21	−21 12.1	2.042	3.019	5.1	19.2
4 21	12 35.48	−19 58.0	2.068	3.028	6.8	19.3
5 1	12 30.18	−18 40.2	2.120	3.036	9.5	19.5
5 11	12 26.79	−17 25.9	2.196	3.045	12.1	19.7

421310 2013 TA_{44} 4 2.7 281°.60 0°.5/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 11.72	− 7 59.5	1.745	2.599	13.6	21.0
3 12	13 6.43	− 7 44.1	1.655	2.582	9.9	20.7
3 22	12 58.94	− 7 15.8	1.589	2.565	5.7	20.4
4 1	12 49.98	− 6 37.8	1.549	2.547	1.1	20.0
4 11	12 40.61	− 5 55.8	1.536	2.530	3.8	20.2
4 21	12 31.93	− 5 15.8	1.551	2.512	8.5	20.4
5 1	12 24.96	− 4 44.0	1.590	2.495	12.8	20.6
5 11	12 20.36	− 4 24.7	1.650	2.477	16.5	20.8

118257 1998 FS_{17} 4 2.7 43°.65 1°.2/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.63	− 3 57.1	1.432	2.305	14.8	19.1
3 12	13 6.26	− 3 28.5	1.383	2.321	10.5	18.9
3 22	12 58.68	− 2 50.2	1.358	2.338	5.7	18.7
4 1	12 49.90	− 2 8.3	1.358	2.356	1.3	18.4
4 11	12 41.16	− 1 30.0	1.384	2.374	4.9	18.7
4 21	12 33.59	− 1 1.3	1.436	2.393	9.5	19.0
5 1	12 28.06	− 0 46.5	1.511	2.412	13.5	19.3
5 11	12 25.06	− 0 47.8	1.605	2.432	16.9	19.6

468276 2015 CX_{28} 4 2.7 233°.02 3°.0/30.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.23	+ 0 53.1	2.012	2.883	11.3	21.6
3 12	13 4.24	+ 1 56.6	1.940	2.877	8.0	21.4
3 22	12 57.52	+ 3 5.6	1.892	2.871	4.6	21.2
4 1	12 49.75	+ 4 13.5	1.873	2.864	3.1	21.1
4 11	12 41.82	+ 5 13.6	1.882	2.858	5.7	21.2
4 21	12 34.59	+ 6 0.2	1.919	2.851	9.2	21.4
5 1	12 28.80	+ 6 29.7	1.980	2.844	12.5	21.6
5 11	12 24.96	+ 6 40.6	2.061	2.837	15.3	21.8

326472 2002 AK_{138} 4 2.7 143°.77 7°.1/24.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.26	+15 58.5	2.269	3.132	10.5	21.3
3 12	13 5.41	+17 31.2	2.229	3.143	8.4	21.2
3 22	12 58.03	+18 55.6	2.215	3.154	7.2	21.1
4 1	12 49.81	+20 4.3	2.229	3.165	7.6	21.2
4 11	12 41.61	+20 51.8	2.270	3.175	9.2	21.3
4 21	12 34.19	+21 15.6	2.337	3.184	11.4	21.5
5 1	12 28.20	+21 15.9	2.425	3.192	13.5	21.6
5 11	12 24.06	+20 54.9	2.531	3.200	15.3	21.8

131949 2002 CC_{33} 4 2.7 112°.88 3°.3/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.75	+ 0 53.5	1.536	2.409	14.0	20.2
3 12	13 8.43	+ 1 41.4	1.483	2.420	9.9	20.0
3 22	12 59.89	+ 2 34.1	1.453	2.432	5.7	19.8
4 1	12 50.10	+ 3 24.2	1.449	2.442	3.3	19.7
4 11	12 40.30	+ 4 4.4	1.473	2.453	6.3	19.9
4 21	12 31.63	+ 4 29.1	1.523	2.463	10.5	20.1
5 1	12 25.01	+ 4 35.4	1.596	2.473	14.3	20.4
5 11	12 20.93	+ 4 22.9	1.688	2.482	17.5	20.6

502504 2015 BY_{418} 4 2.7 131°.24 0°.6/ 3.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.82	− 8 57.6	2.000	2.846	12.4	21.9
3 12	13 5.35	− 8 33.7	1.929	2.851	9.0	21.7
3 22	12 58.11	− 7 57.9	1.883	2.857	5.2	21.5
4 1	12 49.84	− 7 13.6	1.864	2.862	1.2	21.2
4 11	12 41.46	− 6 26.2	1.874	2.867	3.3	21.4
4 21	12 33.84	− 5 41.2	1.912	2.872	7.3	21.6
5 1	12 27.74	− 5 3.7	1.975	2.876	10.8	21.9
5 11	12 23.67	− 4 37.5	2.061	2.881	13.9	22.1

303906 2005 TY_{156} 4 2.7 297°.82 1°.5/ 4.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.57	−12 41.6	2.241	3.076	11.7	21.0
3 12	13 2.29	−12 9.2	2.152	3.066	8.7	20.8
3 22	12 56.44	−11 22.1	2.086	3.055	5.3	20.6
4 1	12 49.61	−10 23.3	2.049	3.044	2.0	20.3
4 11	12 42.57	− 9 17.8	2.040	3.034	3.0	20.4
4 21	12 36.09	− 8 11.3	2.059	3.023	6.5	20.6
5 1	12 30.88	− 7 9.9	2.105	3.013	9.9	20.8
5 11	12 27.44	− 6 18.5	2.173	3.003	13.0	20.9

259207 2003 AU_{61} 4 2.7 121°.15 2°.7/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.75	− 0 8.7	2.035	2.899	11.5	20.9
3 12	13 5.83	+ 0 58.4	1.983	2.918	8.0	20.7
3 22	12 58.28	+ 2 10.3	1.957	2.935	4.5	20.5
4 1	12 49.87	+ 3 20.6	1.960	2.953	2.7	20.4
4 11	12 41.48	+ 4 22.5	1.992	2.969	5.2	20.6
4 21	12 33.95	+ 5 11.1	2.052	2.985	8.6	20.8
5 1	12 27.95	+ 5 43.2	2.137	3.000	11.8	21.1
5 11	12 23.91	+ 5 57.7	2.243	3.015	14.4	21.3

155494 1999 CY_{16} 4 2.7 150°.30 2°.8/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.61	+ 1 57.1	2.238	3.098	10.7	19.4
3 12	13 7.08	+ 2 40.2	2.177	3.109	7.6	19.2
3 22	12 58.97	+ 3 25.7	2.143	3.119	4.4	19.0
4 1	12 49.98	+ 4 8.6	2.137	3.129	2.8	18.9
4 11	12 40.96	+ 4 43.9	2.162	3.137	5.1	19.1
4 21	12 32.71	+ 5 7.7	2.215	3.145	8.3	19.3
5 1	12 25.91	+ 5 17.7	2.294	3.152	11.2	19.5
5 11	12 21.01	+ 5 13.1	2.394	3.159	13.8	19.7

273070 2006 DO_{212} 4 2.7 195°.75 1°.2/ 1.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.03	− 4 23.2	2.024	2.884	11.7	21.1
3 12	13 4.07	− 3 34.7	1.951	2.884	8.3	20.9
3 22	12 57.42	− 2 36.9	1.904	2.883	4.5	20.7
4 1	12 49.76	− 1 35.2	1.884	2.882	1.2	20.4
4 11	12 41.96	− 0 35.7	1.893	2.881	4.1	20.7
4 21	12 34.86	+ 0 15.8	1.930	2.880	8.0	20.9
5 1	12 29.21	+ 0 54.5	1.992	2.878	11.5	21.1
5 11	12 25.49	+ 1 17.9	2.075	2.877	14.4	21.3

241406 2008 UE_{76} 4 2.7 43°.19 1°.2/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.26	−11 51.9	1.334	2.193	16.6	20.3
3 12	13 5.66	−11 5.2	1.267	2.195	12.3	20.1
3 22	12 58.57	− 9 56.0	1.222	2.197	7.2	19.8
4 1	12 49.94	− 8 30.1	1.202	2.199	2.0	19.4
4 11	12 41.11	− 6 57.2	1.207	2.202	4.3	19.6
4 21	12 33.38	− 5 28.3	1.238	2.204	9.5	19.9
5 1	12 27.81	− 4 13.1	1.291	2.207	14.3	20.2
5 11	12 25.02	− 3 18.1	1.365	2.210	18.3	20.4

150935 2001 TT_{78} 4 2.7 97°.22 0°.1/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.67	− 7 42.0	1.796	2.650	13.2	19.6
3 12	13 5.33	− 7 0.0	1.734	2.662	9.5	19.3
3 22	12 58.12	− 6 5.5	1.696	2.673	5.2	19.1
4 1	12 49.86	− 5 3.6	1.686	2.685	0.7	18.8
4 11	12 41.55	− 4 1.2	1.704	2.696	3.8	19.1
4 21	12 34.13	− 3 4.9	1.749	2.707	8.0	19.3
5 1	12 28.38	− 2 20.1	1.819	2.718	11.8	19.6
5 11	12 24.80	− 1 50.3	1.911	2.728	14.9	19.8

285048 2011 FJ_{154} 4 2.7 222°.94 2°.0/31.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.09	− 3 18.4	2.101	2.964	11.2	20.8
3 12	13 3.39	− 1 57.3	2.023	2.958	7.9	20.5
3 22	12 57.05	− 0 26.4	1.971	2.951	4.3	20.3
4 1	12 49.71	+ 1 8.0	1.948	2.944	2.0	20.1
4 11	12 42.21	+ 2 38.0	1.955	2.937	4.8	20.3
4 21	12 35.35	+ 3 56.9	1.990	2.929	8.5	20.5
5 1	12 29.84	+ 4 59.3	2.050	2.921	11.9	20.7
5 11	12 26.19	+ 5 42.5	2.131	2.913	14.8	20.9

11883 1990 RD_{5} 4 2.7 139°.97 1°.6/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.73	−12 33.7	2.006	2.842	12.8	18.1
3 12	13 4.61	−12 6.6	1.932	2.846	9.5	17.9
3 22	12 57.74	−11 24.2	1.881	2.849	5.8	17.7
4 1	12 49.81	−10 29.8	1.857	2.853	2.2	17.5
4 11	12 41.76	− 9 28.7	1.862	2.856	3.2	17.5
4 21	12 34.44	− 8 27.2	1.895	2.859	7.0	17.8
5 1	12 28.63	− 7 31.5	1.954	2.862	10.6	18.0
5 11	12 24.83	− 6 46.6	2.036	2.865	13.7	18.2

134583 1999 TA_{34} 4 2.7 266°.10 0°.5/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.04	− 8 47.2	1.677	2.530	14.1	20.6
3 12	13 6.76	− 8 18.6	1.586	2.512	10.3	20.4
3 22	12 59.18	− 7 34.6	1.518	2.494	5.9	20.1
4 1	12 50.06	− 6 39.1	1.477	2.475	1.2	19.7
4 11	12 40.49	− 5 38.5	1.463	2.457	4.0	19.8
4 21	12 31.65	− 4 40.3	1.476	2.437	8.9	20.1
5 1	12 24.56	− 3 51.7	1.514	2.418	13.4	20.3
5 11	12 19.96	− 3 18.0	1.572	2.398	17.2	20.5

211857 2004 FH_{147} 4 2.7 264°.69 0°.5/ 3.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.11	−16 12.4	1.111	1.969	19.3	19.9
3 12	13 4.57	−13 50.7	1.036	1.964	14.3	19.6
3 22	12 58.16	−10 45.0	0.982	1.958	8.3	19.2
4 1	12 49.92	− 7 6.7	0.954	1.952	1.7	18.8
4 11	12 41.37	− 3 17.0	0.953	1.947	5.4	19.0
4 21	12 34.04	+ 0 19.4	0.978	1.941	12.0	19.3
5 1	12 29.15	+ 3 22.5	1.027	1.935	17.8	19.6
5 11	12 27.39	+ 5 41.9	1.094	1.929	22.5	19.9

3723 Voznesenskij 4 2.7 300°.22 1°.2/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.41	− 5 5.5	1.313	2.189	15.8	17.2
3 12	13 6.68	− 4 28.0	1.237	2.176	11.4	16.9
3 22	12 59.28	− 3 36.2	1.183	2.164	6.3	16.5
4 1	12 50.09	− 2 36.0	1.153	2.151	1.3	16.2
4 11	12 40.48	− 1 36.7	1.148	2.139	5.4	16.4
4 21	12 31.85	− 0 46.9	1.168	2.128	10.9	16.7
5 1	12 25.39	− 0 13.9	1.210	2.116	15.8	16.9
5 11	12 21.86	− 0 1.7	1.270	2.105	20.0	17.1

34992 4418 $T\text{-}3$ 4 2.7 210°.86 3°.1/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.14	+ 2 15.8	2.041	2.905	11.4	19.2
3 12	13 7.03	+ 2 57.7	1.966	2.900	8.1	18.9
3 22	12 59.09	+ 3 42.6	1.917	2.894	4.8	18.7
4 1	12 50.04	+ 4 25.2	1.897	2.888	3.2	18.6
4 11	12 40.81	+ 4 59.6	1.905	2.881	5.6	18.7
4 21	12 32.32	+ 5 21.4	1.941	2.873	9.1	18.9
5 1	12 25.35	+ 5 27.8	2.002	2.865	12.5	19.1
5 11	12 20.44	+ 5 18.1	2.084	2.857	15.3	19.3

282798 2006 QR_{60} 4 2.7 253°.02 5°.6/26.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.55	+ 9 54.5	2.285	3.159	10.0	20.8
3 12	13 2.93	+11 25.2	2.217	3.148	7.6	20.7
3 22	12 56.78	+12 54.5	2.176	3.137	5.8	20.5
4 1	12 49.70	+14 14.9	2.163	3.125	5.9	20.5
4 11	12 42.46	+15 19.9	2.178	3.114	7.9	20.6
4 21	12 35.80	+16 5.0	2.219	3.102	10.5	20.8
5 1	12 30.41	+16 28.2	2.283	3.090	13.0	20.9
5 11	12 26.75	+16 29.7	2.365	3.077	15.3	21.1

181351 2006 RF_{35} 4 2.7 324°.68 5°.3/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.58	−22 2.7	2.086	2.877	14.0	19.8
3 12	13 4.67	−22 19.6	1.999	2.872	11.4	19.6
3 22	12 57.87	−22 16.7	1.934	2.868	8.5	19.4
4 1	12 49.88	−21 53.7	1.895	2.864	6.0	19.2
4 11	12 41.60	−21 13.2	1.882	2.859	5.4	19.2
4 21	12 33.99	−20 20.1	1.896	2.855	7.4	19.3
5 1	12 27.88	−19 21.2	1.936	2.852	10.3	19.5
5 11	12 23.85	−18 23.5	1.999	2.848	13.2	19.6

192827 1999 VJ_{97} 4 2.7 235°.82 2°.8/ 5.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.66	−17 14.5	2.210	3.023	12.6	20.8
3 12	13 3.85	−16 39.6	2.117	3.014	9.7	20.6
3 22	12 57.35	−15 45.9	2.047	3.004	6.5	20.3
4 1	12 49.79	−14 35.9	2.005	2.994	3.4	20.1
4 11	12 42.01	−13 14.4	1.992	2.983	3.4	20.1
4 21	12 34.84	−11 48.1	2.007	2.972	6.6	20.3
5 1	12 29.02	−10 24.2	2.049	2.961	10.0	20.5
5 11	12 25.08	− 9 9.3	2.116	2.949	13.1	20.6

504249 2006 UT_{323} 4 2.7 246°.78 0°.7/ 2.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.90	− 4 54.3	2.304	3.158	10.7	22.1
3 12	13 3.87	− 4 24.3	2.223	3.152	7.6	21.9
3 22	12 57.29	− 3 46.4	2.168	3.147	4.2	21.6
4 1	12 49.79	− 3 4.3	2.142	3.141	0.8	21.4
4 11	12 42.11	− 2 22.8	2.145	3.135	3.5	21.6
4 21	12 35.03	− 1 46.3	2.176	3.129	7.0	21.8
5 1	12 29.21	− 1 18.9	2.233	3.122	10.3	22.0
5 11	12 25.14	− 1 3.2	2.313	3.116	13.1	22.2

469626 2004 RZ_{230} 4 2.7 261°.47 0°.3/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.57	− 9 5.2	2.028	2.875	12.2	21.9
3 12	13 4.64	− 8 23.0	1.933	2.857	8.9	21.6
3 22	12 57.87	− 7 26.8	1.864	2.839	5.1	21.3
4 1	12 49.89	− 6 20.3	1.822	2.821	0.9	21.0
4 11	12 41.59	− 5 9.7	1.809	2.802	3.5	21.2
4 21	12 33.89	− 4 1.7	1.824	2.783	7.7	21.4
5 1	12 27.61	− 3 2.8	1.865	2.763	11.5	21.6
5 11	12 23.35	− 2 17.6	1.928	2.743	14.9	21.7

417704 2007 BK_{71} 4 2.7 54°.46 1°.5/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.91	− 4 49.1	1.499	2.371	14.4	20.8
3 12	13 4.99	− 3 51.6	1.449	2.387	10.1	20.5
3 22	12 58.01	− 2 42.9	1.423	2.404	5.4	20.3
4 1	12 49.89	− 1 30.2	1.422	2.421	1.5	20.1
4 11	12 41.79	− 0 22.3	1.449	2.438	5.0	20.4
4 21	12 34.77	+ 0 33.6	1.501	2.455	9.4	20.7
5 1	12 29.65	+ 1 12.1	1.577	2.473	13.4	20.9
5 11	12 26.92	+ 1 31.2	1.672	2.490	16.7	21.2

431880 2008 SN_{202} 4 2.7 169°.96 0°.3/ 3.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.75	− 8 45.7	2.458	3.297	10.6	22.0
3 12	13 4.35	− 8 11.5	2.381	3.300	7.7	21.8
3 22	12 57.51	− 7 27.0	2.330	3.304	4.4	21.6
4 1	12 49.82	− 6 35.6	2.308	3.306	0.9	21.4
4 11	12 42.02	− 5 42.0	2.316	3.308	2.9	21.5
4 21	12 34.84	− 4 51.0	2.353	3.310	6.3	21.7
5 1	12 28.88	− 4 6.9	2.417	3.311	9.4	21.9
5 11	12 24.60	− 3 33.3	2.505	3.312	12.1	22.1

153495 2001 RQ_{113} 4 2.7 127°.59 2°.4/31.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.71	− 1 32.9	1.968	2.832	11.8	20.8
3 12	13 5.21	− 0 26.1	1.909	2.844	8.3	20.6
3 22	12 58.02	+ 0 47.3	1.877	2.856	4.6	20.4
4 1	12 49.89	+ 2 0.9	1.873	2.868	2.4	20.3
4 11	12 41.74	+ 3 7.6	1.898	2.879	5.1	20.5
4 21	12 34.41	+ 4 1.8	1.950	2.889	8.7	20.7
5 1	12 28.62	+ 4 39.5	2.028	2.899	12.0	21.0
5 11	12 24.82	+ 4 59.2	2.126	2.909	14.8	21.2

40697 1999 RZ_{231} 4 2.7 233°.84 4°.6/29.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.19	+ 3 59.5	1.748	2.622	12.5	18.7
3 12	13 6.64	+ 5 10.8	1.675	2.613	9.0	18.4
3 22	12 59.00	+ 6 25.7	1.628	2.603	5.7	18.2
4 1	12 50.06	+ 7 36.1	1.608	2.593	4.7	18.1
4 11	12 40.88	+ 8 33.7	1.615	2.582	7.4	18.2
4 21	12 32.51	+ 9 12.7	1.648	2.571	11.1	18.4
5 1	12 25.86	+ 9 29.7	1.704	2.559	14.7	18.6
5 11	12 21.53	+ 9 24.5	1.779	2.547	17.7	18.8

470144 2006 UV_{72} 4 2.7 138°.40 2°.7/ 6.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.26	−16 33.0	2.453	3.264	11.5	21.7
3 12	13 3.35	−16 17.0	2.373	3.269	8.9	21.5
3 22	12 56.99	−15 46.1	2.317	3.273	5.9	21.4
4 1	12 49.76	−15 2.1	2.289	3.276	3.2	21.2
4 11	12 42.41	−14 8.9	2.290	3.280	3.2	21.2
4 21	12 35.66	−13 11.4	2.320	3.284	5.9	21.4
5 1	12 30.14	−12 15.1	2.376	3.287	8.8	21.6
5 11	12 26.31	−11 24.7	2.457	3.291	11.5	21.7

486716 2014 BD_{43} 4 2.7 27°.39 17°.7/17.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 15.35	−39 42.3	1.129	1.860	26.7	20.6
3 12	13 10.82	−41 37.6	1.066	1.863	24.3	20.4
3 22	13 2.20	−42 49.2	1.016	1.866	21.8	20.2
4 1	12 50.62	−43 5.7	0.981	1.869	19.5	20.1
4 11	12 38.21	−42 22.7	0.963	1.873	18.0	20.0
4 21	12 27.35	−40 45.5	0.962	1.877	17.8	20.0
5 1	12 20.00	−38 29.2	0.980	1.882	19.0	20.1
5 11	12 17.15	−35 54.3	1.015	1.887	21.2	20.2

27111 1998 VV_{34} 4 2.7 209°.83 1°.8/ 4.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 16.15	−10 59.0	1.683	2.523	14.7	17.7
3 12	13 9.66	−10 56.1	1.601	2.518	11.0	17.4
3 22	13 0.78	−10 37.8	1.542	2.512	6.6	17.1
4 1	12 50.36	−10 6.6	1.510	2.506	2.4	16.9
4 11	12 39.59	− 9 27.2	1.506	2.499	3.9	16.9
4 21	12 29.67	− 8 46.1	1.529	2.492	8.5	17.2
5 1	12 21.69	− 8 9.8	1.577	2.484	12.8	17.4
5 11	12 16.30	− 7 43.9	1.647	2.475	16.4	17.6

497581 2006 GW_{37} 4 2.7 337°.53 13°.6/16.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	12 59.33	+15 4.4	0.980	1.894	16.2	19.4
3 12	12 58.49	+19 15.5	0.934	1.874	13.9	19.2
3 22	12 54.91	+23 21.6	0.912	1.856	14.0	19.1
4 1	12 49.48	+26 55.3	0.912	1.839	16.5	19.2
4 11	12 43.69	+29 35.6	0.932	1.824	20.1	19.4
4 21	12 39.00	+31 13.0	0.969	1.811	23.9	19.5
5 1	12 36.66	+31 48.1	1.018	1.800	27.2	19.7
5 11	12 37.40	+31 28.7	1.075	1.790	29.8	19.9

14116 Ogea 4 2.7 162°.49 0°.0/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.03	− 7 56.1	2.044	2.890	12.2	19.3
3 12	13 6.20	− 7 16.2	1.972	2.896	8.8	19.1
3 22	12 58.62	− 6 24.7	1.925	2.901	4.9	18.9
4 1	12 50.01	− 5 25.9	1.907	2.906	0.7	18.5
4 11	12 41.29	− 4 25.6	1.918	2.910	3.5	18.8
4 21	12 33.34	− 3 29.8	1.957	2.913	7.4	19.0
5 1	12 26.91	− 2 43.8	2.022	2.916	11.0	19.2
5 11	12 22.50	− 2 11.2	2.110	2.918	14.0	19.4

504553 2008 SQ_{260} 4 2.7 216°.72 1°.0/ 3.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.79	−10 37.5	2.180	3.018	11.8	22.2
3 12	13 4.62	−10 9.8	2.096	3.014	8.7	22.0
3 22	12 57.77	− 9 29.2	2.037	3.009	5.1	21.8
4 1	12 49.90	− 8 38.6	2.006	3.003	1.5	21.5
4 11	12 41.83	− 7 43.2	2.004	2.998	3.0	21.6
4 21	12 34.39	− 6 48.4	2.030	2.992	6.8	21.8
5 1	12 28.32	− 5 59.8	2.083	2.985	10.3	22.0
5 11	12 24.12	− 5 21.6	2.159	2.979	13.3	22.2

348494 2005 SV_{278} 4 2.7 160°.98 3°.1/ 5.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 15.54	−15 48.7	1.753	2.574	15.0	22.0
3 12	13 9.04	−15 36.1	1.679	2.581	11.5	21.8
3 22	13 0.33	−15 3.7	1.628	2.588	7.5	21.6
4 1	12 50.28	−14 13.6	1.603	2.593	3.8	21.3
4 11	12 40.05	−13 11.4	1.607	2.598	4.1	21.4
4 21	12 30.77	−12 4.2	1.638	2.602	7.9	21.6
5 1	12 23.40	−11 0.2	1.695	2.605	11.8	21.8
5 11	12 18.51	−10 6.0	1.774	2.608	15.2	22.1

363978 2005 UJ_{176} 4 2.7 179°.68 1°.3/ 4.3 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.02	−12 7.9	2.460	3.285	11.1	23.1
3 12	13 5.30	−11 36.9	2.377	3.287	8.2	22.9
3 22	12 58.07	−10 53.2	2.320	3.288	5.0	22.7
4 1	12 49.94	− 9 59.5	2.293	3.288	1.8	22.5
4 11	12 41.68	− 9 0.4	2.295	3.288	2.8	22.6
4 21	12 34.03	− 8 1.1	2.327	3.287	6.1	22.8
5 1	12 27.64	− 7 6.6	2.386	3.285	9.3	23.0
5 11	12 22.99	− 6 21.3	2.469	3.283	12.1	23.2

148883 2001 WP_{11} 4 2.7 185°.83 1°.8/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.21	− 1 16.1	2.493	3.354	9.8	20.6
3 12	13 3.24	− 0 30.9	2.421	3.354	6.9	20.5
3 22	12 56.90	+ 0 19.4	2.374	3.353	3.8	20.3
4 1	12 49.76	+ 1 10.3	2.357	3.353	1.8	20.1
4 11	12 42.52	+ 1 57.1	2.370	3.352	4.0	20.3
4 21	12 35.85	+ 2 35.5	2.410	3.351	7.2	20.5
5 1	12 30.35	+ 3 2.5	2.477	3.349	10.1	20.6
5 11	12 26.43	+ 3 16.1	2.566	3.348	12.5	20.8

204286 2004 ME_1 4 2.7 297°.05 6°.8/ 7.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 11.14	−21 17.8	1.344	2.166	18.7	20.3
3 12	13 6.95	−21 37.6	1.244	2.138	15.3	20.0
3 22	12 59.75	−21 28.9	1.162	2.109	11.4	19.6
4 1	12 50.27	−20 48.5	1.103	2.081	7.8	19.4
4 11	12 39.88	−19 38.7	1.067	2.052	7.1	19.2
4 21	12 30.17	−18 7.3	1.055	2.024	10.5	19.3
5 1	12 22.67	−16 26.9	1.065	1.995	15.3	19.5
5 11	12 18.44	−14 51.2	1.095	1.967	20.0	19.7

58533 1997 CD_{12} 4 2.7 41°.38 2°.3/31.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.01	− 1 36.3	1.856	2.726	12.1	19.3
3 12	13 4.19	− 0 36.8	1.789	2.726	8.6	19.1
3 22	12 57.57	+ 0 30.2	1.746	2.726	4.7	18.9
4 1	12 49.88	+ 1 38.4	1.731	2.726	2.4	18.7
4 11	12 42.06	+ 2 40.5	1.744	2.727	5.2	18.9
4 21	12 35.01	+ 3 30.5	1.784	2.727	9.1	19.1
5 1	12 29.52	+ 4 4.0	1.848	2.727	12.6	19.4
5 11	12 26.08	+ 4 19.2	1.933	2.727	15.6	19.6

173935 2001 VA_{125} 4 2.7 174°.76 2°.9/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.11	−17 48.4	2.806	3.604	10.6	20.9
3 12	13 3.84	−17 41.0	2.720	3.606	8.3	20.7
3 22	12 57.23	−17 19.8	2.659	3.607	5.7	20.6
4 1	12 49.83	−16 46.2	2.626	3.609	3.4	20.4
4 11	12 42.29	−16 3.2	2.623	3.610	3.3	20.4
4 21	12 35.27	−15 14.7	2.649	3.610	5.4	20.5
5 1	12 29.35	−14 25.3	2.702	3.610	8.0	20.7
5 11	12 24.96	−13 39.5	2.781	3.610	10.4	20.9

374961 2007 CK_{56} 4 2.7 355°.02 5°.4/ 7.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.26	−19 34.5	1.610	2.427	16.3	20.0
3 12	13 6.28	−19 55.2	1.533	2.426	13.0	19.8
3 22	12 58.95	−19 53.4	1.477	2.424	9.3	19.6
4 1	12 50.11	−19 28.7	1.444	2.423	6.2	19.4
4 11	12 40.95	−18 44.9	1.438	2.423	5.7	19.4
4 21	12 32.67	−17 48.5	1.457	2.423	8.5	19.5
5 1	12 26.33	−16 48.2	1.501	2.423	12.2	19.7
5 11	12 22.59	−15 52.3	1.565	2.423	15.7	20.0

505203 2012 TF_{187} 4 2.8 147°.45 2°.3/ 5.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.79	−15 20.4	2.342	3.162	11.7	21.5
3 12	13 3.09	−14 52.7	2.262	3.165	8.9	21.3
3 22	12 56.88	−14 9.7	2.206	3.167	5.7	21.1
4 1	12 49.79	−13 13.9	2.178	3.169	2.8	20.9
4 11	12 42.57	−12 9.9	2.179	3.171	3.0	20.9
4 21	12 35.97	−11 3.2	2.208	3.173	6.1	21.1
5 1	12 30.63	− 9 59.7	2.265	3.175	9.2	21.3
5 11	12 27.02	− 9 4.3	2.345	3.177	12.0	21.5

235114 2003 PV_1 4 2.8 217°.16 2°.5/ 5.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.18	−15 46.4	2.723	3.528	10.7	21.6
3 12	13 5.42	−15 37.0	2.624	3.517	8.2	21.4
3 22	12 58.17	−15 14.4	2.551	3.506	5.5	21.2
4 1	12 49.99	−14 39.9	2.507	3.494	2.9	21.0
4 11	12 41.58	−13 56.5	2.492	3.482	3.1	21.0
4 21	12 33.65	−13 8.3	2.508	3.469	5.7	21.2
5 1	12 26.86	−12 20.2	2.551	3.455	8.6	21.3
5 11	12 21.68	−11 36.5	2.619	3.440	11.2	21.5

420688 2012 KF_{30} 4 2.8 196°.65 6°.2/27.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.11	+11 51.5	2.069	2.936	11.2	21.3
3 12	13 6.97	+12 54.3	2.009	2.934	8.5	21.1
3 22	12 59.06	+13 52.1	1.974	2.932	6.5	21.0
4 1	12 50.12	+14 37.9	1.967	2.929	6.5	21.0
4 11	12 41.08	+15 6.0	1.987	2.926	8.4	21.1
4 21	12 32.84	+15 13.2	2.034	2.922	11.1	21.3
5 1	12 26.15	+14 59.0	2.103	2.917	13.8	21.4
5 11	12 21.51	+14 25.0	2.191	2.913	16.1	21.6

389656 2011 OZ_{39} 4 2.8 94°.31 3°.9/28.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.09	+ 3 16.6	2.296	3.170	10.0	20.6
3 12	13 1.80	+ 4 59.4	2.239	3.176	7.1	20.4
3 22	12 56.13	+ 6 45.3	2.209	3.183	4.5	20.2
4 1	12 49.67	+ 8 26.7	2.209	3.190	4.1	20.2
4 11	12 43.15	+ 9 56.4	2.238	3.197	6.2	20.4
4 21	12 37.27	+11 9.2	2.294	3.203	9.1	20.5
5 1	12 32.60	+12 1.8	2.375	3.210	11.7	20.7
5 11	12 29.56	+12 33.6	2.476	3.216	14.0	20.9

222445 2001 QF_{152} 4 2.8 132°.25 9°.7/15.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 20.83	−40 35.1	2.692	3.316	14.8	21.1
3 12	13 12.68	−41 36.7	2.617	3.335	13.3	21.0
3 22	13 2.35	−42 13.8	2.561	3.354	11.8	20.9
4 1	12 50.64	−42 22.7	2.527	3.372	10.5	20.8
4 11	12 38.65	−42 3.0	2.518	3.389	9.7	20.8
4 21	12 27.48	−41 17.9	2.534	3.405	9.8	20.8
5 1	12 18.08	−40 13.4	2.575	3.420	10.6	20.9
5 11	12 11.08	−38 57.6	2.640	3.434	11.9	21.0

377450 2004 VG_{26} 4 2.8 154°.34 3°.9/ 7.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 10.15	−21 23.0	2.429	3.214	12.4	21.3
3 12	13 4.74	−21 2.1	2.348	3.222	9.9	21.1
3 22	12 57.79	−20 22.5	2.290	3.229	7.1	21.0
4 1	12 49.94	−19 25.6	2.260	3.235	4.6	20.8
4 11	12 41.98	−18 15.5	2.258	3.241	4.1	20.8
4 21	12 34.69	−16 57.7	2.285	3.247	6.2	20.9
5 1	12 28.72	−15 38.9	2.341	3.252	8.9	21.1
5 11	12 24.55	−14 25.2	2.420	3.256	11.6	21.3

477615 2010 KT_{122} 4 2.8 289°.62 6°.6/23.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.17	+12 2.6	2.260	3.135	10.0	20.7
3 12	13 2.08	+14 7.7	2.187	3.114	7.8	20.5
3 22	12 56.41	+16 11.6	2.142	3.093	6.6	20.4
4 1	12 49.74	+18 5.3	2.125	3.071	7.2	20.4
4 11	12 42.82	+19 40.7	2.136	3.050	9.3	20.5
4 21	12 36.42	+20 52.3	2.173	3.028	11.8	20.6
5 1	12 31.25	+21 37.5	2.232	3.007	14.3	20.7
5 11	12 27.82	+21 56.8	2.307	2.985	16.4	20.9

31667 1999 JL_3 4 2.8 13°.73 6°.3/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	12 58.57	−29 17.9	0.975	1.800	24.0	16.6
3 12	12 57.94	−27 25.5	0.912	1.805	19.6	16.4
3 22	12 54.53	−24 31.6	0.865	1.812	14.3	16.1
4 1	12 49.46	−20 41.8	0.840	1.821	8.8	15.8
4 11	12 44.30	−16 16.0	0.839	1.831	6.3	15.7
4 21	12 40.48	−11 43.7	0.863	1.844	9.9	16.0
5 1	12 39.03	− 7 34.3	0.912	1.858	15.3	16.3
5 11	12 40.44	− 4 7.8	0.982	1.874	20.1	16.6

168836 2000 SH_{364} 4 2.8 199°.48 4°.2/28.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.17	+ 8 1.5	2.630	3.498	9.1	20.5
3 12	13 3.17	+ 9 3.9	2.564	3.495	6.7	20.4
3 22	12 56.87	+10 5.1	2.526	3.492	4.7	20.2
4 1	12 49.80	+10 59.7	2.516	3.489	4.4	20.2
4 11	12 42.64	+11 43.0	2.536	3.485	6.2	20.3
4 21	12 36.03	+12 11.7	2.582	3.482	8.6	20.5
5 1	12 30.54	+12 24.0	2.654	3.477	11.0	20.6
5 11	12 26.58	+12 19.8	2.745	3.473	13.0	20.8

299927 2006 TC_{15} 4 2.8 116°.66 0°.8/ 3.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.41	−10 3.7	2.408	3.247	10.9	21.1
3 12	13 3.43	− 9 36.6	2.336	3.254	7.9	21.0
3 22	12 57.04	− 8 58.7	2.289	3.261	4.6	20.8
4 1	12 49.83	− 8 12.9	2.270	3.268	1.3	20.5
4 11	12 42.53	− 7 23.8	2.281	3.275	2.7	20.7
4 21	12 35.85	− 6 36.1	2.321	3.281	6.1	20.9
5 1	12 30.40	− 5 54.1	2.387	3.288	9.2	21.1
5 11	12 26.61	− 5 21.5	2.476	3.294	11.9	21.3

124915 2001 TZ_{64} 4 2.8 142°.38 2°.0/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.91	− 2 30.2	1.594	2.459	14.0	20.4
3 12	13 8.61	− 1 47.8	1.532	2.467	9.9	20.1
3 22	13 0.10	− 0 56.8	1.495	2.475	5.4	19.9
4 1	12 50.30	− 0 3.7	1.485	2.482	2.0	19.7
4 11	12 40.41	+ 0 44.1	1.502	2.488	5.3	19.9
4 21	12 31.56	+ 1 20.5	1.546	2.494	9.7	20.2
5 1	12 24.69	+ 1 41.0	1.613	2.500	13.7	20.4
5 11	12 20.34	+ 1 44.0	1.701	2.505	17.0	20.7

375907 2009 VX_{113} 4 2.8 134°.27 0°.3/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.48	− 8 38.8	2.048	2.894	12.2	21.9
3 12	13 5.10	− 8 2.5	1.978	2.902	8.8	21.7
3 22	12 58.03	− 7 14.3	1.934	2.909	5.0	21.5
4 1	12 49.98	− 6 18.3	1.918	2.916	0.9	21.2
4 11	12 41.84	− 5 20.3	1.931	2.923	3.3	21.4
4 21	12 34.46	− 4 26.0	1.971	2.930	7.2	21.6
5 1	12 28.56	− 3 40.7	2.038	2.936	10.7	21.9
5 11	12 24.61	− 3 7.9	2.127	2.942	13.7	22.1

302416 2002 CG_{212} 4 2.8 343°.66 3°.3/31.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.73	− 1 19.1	1.259	2.146	15.5	21.0
3 12	13 5.43	− 0 15.4	1.196	2.141	11.0	20.7
3 22	12 58.56	+ 0 59.1	1.155	2.137	6.2	20.4
4 1	12 50.09	+ 2 15.2	1.138	2.134	3.3	20.3
4 11	12 41.38	+ 3 22.1	1.147	2.131	7.0	20.5
4 21	12 33.76	+ 4 11.2	1.179	2.128	11.9	20.7
5 1	12 28.33	+ 4 36.8	1.232	2.126	16.5	21.0
5 11	12 25.72	+ 4 37.5	1.302	2.125	20.3	21.2

171785 2001 BK_{70} 4 2.8 86°.31 0°.6/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.56	− 6 38.2	1.517	2.380	14.7	20.6
3 12	13 6.92	− 5 50.5	1.463	2.396	10.5	20.4
3 22	12 59.14	− 4 49.6	1.433	2.412	5.7	20.2
4 1	12 50.16	− 3 42.1	1.429	2.428	0.9	19.8
4 11	12 41.18	− 2 36.3	1.453	2.444	4.5	20.1
4 21	12 33.31	− 1 39.6	1.502	2.460	9.1	20.4
5 1	12 27.43	− 0 57.8	1.576	2.475	13.2	20.7
5 11	12 24.03	− 0 34.1	1.670	2.490	16.6	21.0

340768 2006 SS_{333} 4 2.8 63°.64 1°.9/ 1.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 11.78	− 0 14.0	2.125	2.987	11.1	20.6
3 12	13 5.90	+ 0 2.8	2.065	2.998	7.9	20.4
3 22	12 58.42	+ 0 23.3	2.031	3.010	4.3	20.2
4 1	12 50.05	+ 0 43.4	2.025	3.021	1.9	20.1
4 11	12 41.64	+ 0 58.7	2.048	3.033	4.3	20.2
4 21	12 34.01	+ 1 6.1	2.099	3.045	7.7	20.5
5 1	12 27.85	+ 1 3.0	2.176	3.056	10.9	20.7
5 11	12 23.59	+ 0 48.5	2.274	3.068	13.6	20.9

97804 2000 OA_{9} 4 2.8 177°.11 0°.6/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.62	− 9 31.7	2.067	2.904	12.4	19.9
3 12	13 7.39	− 8 57.2	1.989	2.907	9.0	19.7
3 22	12 59.34	− 8 9.8	1.937	2.910	5.2	19.5
4 1	12 50.20	− 7 13.2	1.913	2.911	1.2	19.2
4 11	12 40.91	− 6 13.0	1.919	2.912	3.3	19.4
4 21	12 32.37	− 5 15.4	1.953	2.911	7.3	19.6
5 1	12 25.37	− 4 25.9	2.014	2.910	10.9	19.8
5 11	12 20.44	− 3 48.7	2.098	2.908	14.0	20.0

262841 2007 BB_{6} 4 2.8 8°.14 8°.3/10.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.30	−25 48.2	1.337	2.143	19.6	19.2
3 12	13 3.83	−26 12.4	1.267	2.144	16.3	19.0
3 22	12 57.74	−26 3.9	1.216	2.146	12.7	18.7
4 1	12 49.98	−25 20.9	1.186	2.149	9.5	18.6
4 11	12 41.92	−24 7.4	1.178	2.154	8.3	18.5
4 21	12 34.94	−22 32.7	1.194	2.159	10.1	18.6
5 1	12 30.19	−20 49.3	1.233	2.166	13.4	18.8
5 11	12 28.35	−19 10.1	1.292	2.173	16.9	19.0

281702 2008 WT_{79} 4 2.8 154°.51 3°.8/29.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.63	+ 4 1.9	2.103	2.974	10.8	21.3
3 12	13 4.45	+ 5 0.4	2.040	2.976	7.8	21.1
3 22	12 57.66	+ 6 0.6	2.003	2.978	4.8	20.9
4 1	12 49.94	+ 6 56.3	1.995	2.980	3.9	20.8
4 11	12 42.14	+ 7 41.4	2.014	2.982	6.1	21.0
4 21	12 35.05	+ 8 11.9	2.061	2.984	9.2	21.2
5 1	12 29.38	+ 8 25.0	2.132	2.985	12.2	21.4
5 11	12 25.57	+ 8 20.7	2.223	2.986	14.7	21.5

259935 2004 EB_{45} 4 2.8 57°.64 0°.2/ 2.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.44	− 6 18.4	2.956	3.804	8.8	21.1
3 12	13 1.12	− 5 49.2	2.883	3.809	6.3	20.9
3 22	12 55.70	− 5 13.2	2.837	3.813	3.4	20.7
4 1	12 49.64	− 4 33.4	2.819	3.818	0.5	20.5
4 11	12 43.52	− 3 53.3	2.832	3.823	2.6	20.6
4 21	12 37.86	− 3 16.5	2.873	3.828	5.4	20.8
5 1	12 33.15	− 2 46.1	2.942	3.833	8.0	21.0
5 11	12 29.75	− 2 24.4	3.034	3.838	10.3	21.2

141872 2002 PB_{34} 4 2.8 290°.10 2°.0/ 1.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.78	− 3 29.0	1.533	2.405	14.1	19.7
3 12	13 6.08	− 2 37.9	1.443	2.381	10.1	19.4
3 22	12 58.96	− 1 33.9	1.377	2.358	5.6	19.1
4 1	12 50.18	− 0 23.5	1.337	2.334	2.0	18.8
4 11	12 40.90	+ 0 44.5	1.323	2.310	5.6	19.0
4 21	12 32.35	+ 1 41.8	1.335	2.287	10.6	19.2
5 1	12 25.64	+ 2 21.4	1.370	2.263	15.2	19.4
5 11	12 21.54	+ 2 39.6	1.423	2.239	19.2	19.6

135220 2001 RX_{100} 4 2.8 118°.61 1°.1/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.01	− 3 32.3	2.542	3.395	9.8	20.6
3 12	13 3.73	− 2 49.4	2.481	3.410	6.9	20.5
3 22	12 57.15	− 2 0.5	2.447	3.425	3.7	20.3
4 1	12 49.86	− 1 9.7	2.442	3.439	1.1	20.1
4 11	12 42.56	− 0 21.7	2.467	3.453	3.5	20.3
4 21	12 35.88	+ 0 19.4	2.521	3.467	6.6	20.5
5 1	12 30.39	+ 0 50.6	2.601	3.480	9.4	20.7
5 11	12 26.47	+ 1 9.7	2.705	3.493	11.8	20.9

35893 1999 JC_{83} 4 2.8 327°.16 1°.6/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.20	− 5 54.5	1.296	2.175	15.7	18.1
3 12	13 4.33	− 4 42.3	1.226	2.168	11.2	17.8
3 22	12 57.97	− 3 12.2	1.179	2.161	6.1	17.5
4 1	12 50.02	− 1 33.0	1.156	2.154	1.7	17.2
4 11	12 41.78	+ 0 3.9	1.159	2.148	5.8	17.4
4 21	12 34.55	+ 1 27.4	1.186	2.143	11.1	17.7
5 1	12 29.41	+ 2 28.9	1.235	2.138	15.8	18.0
5 11	12 27.02	+ 3 4.5	1.302	2.133	19.8	18.2

498287 2007 VL_{66} 4 2.8 109°.10 5°.1/28.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.89	+ 9 48.9	2.206	3.075	10.5	21.5
3 12	13 5.25	+10 38.7	2.151	3.080	7.8	21.4
3 22	12 58.06	+11 24.9	2.121	3.085	5.6	21.2
4 1	12 50.01	+12 1.5	2.120	3.090	5.3	21.2
4 11	12 41.92	+12 23.7	2.146	3.095	7.2	21.3
4 21	12 34.58	+12 28.9	2.199	3.100	9.8	21.5
5 1	12 28.65	+12 16.1	2.276	3.105	12.4	21.7
5 11	12 24.57	+11 46.4	2.372	3.110	14.6	21.9

477559 2010 GJ_{108} 4 2.8 49°.32 6°.4/ 8.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 6.48	−27 56.5	0.905	1.734	25.1	20.2
3 12	13 3.84	−26 16.1	0.845	1.742	20.3	19.9
3 22	12 57.91	−23 34.2	0.800	1.750	14.6	19.6
4 1	12 50.01	−19 55.6	0.776	1.759	8.7	19.4
4 11	12 42.02	−15 40.3	0.775	1.768	6.5	19.3
4 21	12 35.67	−11 18.7	0.799	1.778	10.9	19.5
5 1	12 32.21	− 7 20.6	0.846	1.788	16.7	19.9
5 11	12 32.18	− 4 5.9	0.912	1.798	21.8	20.2

186174 2001 UL_{165} 4 2.8 205°.30 5°.5/28.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.15	+ 8 5.4	1.883	2.756	11.8	20.8
3 12	13 6.45	+ 9 11.1	1.820	2.753	8.7	20.6
3 22	12 58.86	+10 15.3	1.783	2.751	6.1	20.4
4 1	12 50.15	+11 10.3	1.773	2.748	5.7	20.4
4 11	12 41.31	+11 49.4	1.790	2.744	7.9	20.5
4 21	12 33.30	+12 8.5	1.833	2.741	11.1	20.7
5 1	12 26.92	+12 6.0	1.899	2.737	14.1	20.9
5 11	12 22.70	+11 42.9	1.984	2.733	16.7	21.1

365496 2010 RM_{3} 4 2.8 279°.00 0°.9/ 2.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.50	− 6 23.2	1.594	2.456	14.2	21.8
3 12	13 6.60	− 5 32.5	1.498	2.430	10.3	21.5
3 22	12 59.27	− 4 25.7	1.425	2.404	5.7	21.1
4 1	12 50.26	− 3 8.3	1.378	2.377	1.0	20.7
4 11	12 40.70	− 1 48.6	1.359	2.350	4.9	20.9
4 21	12 31.79	− 0 35.7	1.366	2.322	10.0	21.2
5 1	12 24.67	+ 0 22.3	1.397	2.294	14.7	21.4
5 11	12 20.13	+ 1 0.3	1.447	2.266	18.8	21.5

276549 2003 SX_{116} 4 2.8 252°.49 3°.6/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.05	−18 43.6	2.239	3.042	12.8	20.9
3 12	13 4.97	−18 31.7	2.139	3.027	10.1	20.7
3 22	12 58.10	−18 1.5	2.062	3.011	7.0	20.5
4 1	12 50.06	−17 13.9	2.012	2.994	4.3	20.3
4 11	12 41.71	−16 12.7	1.990	2.977	4.0	20.2
4 21	12 33.91	−15 3.2	1.996	2.960	6.7	20.4
5 1	12 27.46	−13 52.3	2.029	2.942	10.0	20.5
5 11	12 22.95	−12 46.6	2.086	2.924	13.1	20.7

216153 2006 SD_{300} 4 2.8 160°.70 3°.4/29.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.17	+ 3 59.6	2.392	3.261	9.8	20.5
3 12	13 3.28	+ 4 59.2	2.328	3.263	7.0	20.3
3 22	12 56.98	+ 6 0.3	2.291	3.265	4.4	20.2
4 1	12 49.87	+ 6 57.5	2.282	3.267	3.5	20.1
4 11	12 42.69	+ 7 45.4	2.303	3.269	5.6	20.2
4 21	12 36.13	+ 8 20.0	2.350	3.270	8.4	20.4
5 1	12 30.78	+ 8 39.1	2.423	3.272	11.1	20.6
5 11	12 27.07	+ 8 41.9	2.517	3.273	13.4	20.8

74836 1999 TS_{31} 4 2.8 274°.86 0°.8/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.21	−10 6.2	1.643	2.494	14.4	19.9
3 12	13 6.31	− 9 30.0	1.548	2.473	10.7	19.6
3 22	12 59.07	− 8 35.7	1.476	2.451	6.2	19.3
4 1	12 50.24	− 7 27.3	1.431	2.429	1.5	18.9
4 11	12 40.90	− 6 11.8	1.412	2.406	4.0	19.0
4 21	12 32.26	− 4 57.6	1.421	2.383	9.0	19.3
5 1	12 25.38	− 3 53.1	1.453	2.360	13.6	19.5
5 11	12 21.00	− 3 4.8	1.506	2.337	17.6	19.7

42365 Caligiuri 4 2.8 144°.69 9°.3/23.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.01	+21 44.2	2.019	2.871	12.0	18.9
3 12	13 7.62	+23 1.9	1.979	2.877	10.2	18.8
3 22	12 59.42	+24 5.4	1.964	2.883	9.3	18.8
4 1	12 50.24	+24 46.9	1.975	2.888	9.8	18.8
4 11	12 41.09	+25 1.7	2.011	2.893	11.3	18.9
4 21	12 32.90	+24 48.6	2.070	2.898	13.4	19.1
5 1	12 26.43	+24 9.4	2.150	2.902	15.4	19.2
5 11	12 22.12	+23 8.2	2.246	2.906	17.2	19.4

71813 2000 UZ 4 2.8 220°.98 0°.0/ 2.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.45	− 8 19.9	1.844	2.693	13.2	20.3
3 12	13 6.85	− 7 36.3	1.759	2.684	9.6	20.1
3 22	12 59.19	− 6 38.3	1.699	2.675	5.4	19.8
4 1	12 50.24	− 5 30.5	1.666	2.665	0.8	19.5
4 11	12 40.99	− 4 19.8	1.662	2.654	3.8	19.7
4 21	12 32.49	− 3 13.5	1.686	2.643	8.3	19.9
5 1	12 25.63	− 2 18.1	1.735	2.631	12.4	20.1
5 11	12 21.02	− 1 38.3	1.806	2.619	15.8	20.3

289797 2005 JM_{129} 4 2.8 245°.19 4°.4/29.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.81	+ 7 25.1	2.215	3.084	10.5	20.6
3 12	13 5.28	+ 8 10.5	2.147	3.079	7.7	20.4
3 22	12 58.15	+ 8 54.5	2.104	3.074	5.2	20.3
4 1	12 50.06	+ 9 31.6	2.090	3.069	4.6	20.2
4 11	12 41.85	+ 9 56.6	2.104	3.063	6.6	20.3
4 21	12 34.32	+10 6.2	2.145	3.058	9.4	20.5
5 1	12 28.15	+ 9 58.8	2.210	3.052	12.2	20.7
5 11	12 23.84	+ 9 34.9	2.296	3.047	14.7	20.8

41886 2000 WM_{115} 4 2.8 190°.00 0°.0/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 14.01	− 7 30.0	1.861	2.710	13.1	19.7
3 12	13 7.88	− 7 2.5	1.784	2.709	9.5	19.4
3 22	12 59.72	− 6 22.9	1.732	2.708	5.3	19.2
4 1	12 50.32	− 5 35.4	1.707	2.706	0.8	18.9
4 11	12 40.70	− 4 45.7	1.711	2.703	3.7	19.1
4 21	12 31.89	− 4 0.1	1.742	2.700	8.1	19.3
5 1	12 24.77	− 3 23.8	1.800	2.696	12.0	19.6
5 11	12 19.91	− 3 0.7	1.879	2.692	15.3	19.8

231335 2006 DF_{195} 4 2.8 357°.70 9°.3/25.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.46	+16 24.2	1.545	2.424	13.6	19.3
3 12	13 5.55	+17 46.1	1.497	2.422	11.0	19.2
3 22	12 58.46	+18 56.8	1.473	2.420	9.4	19.1
4 1	12 50.11	+19 46.4	1.473	2.419	9.8	19.1
4 11	12 41.70	+20 7.7	1.497	2.419	11.9	19.2
4 21	12 34.34	+19 58.3	1.544	2.419	14.7	19.4
5 1	12 28.91	+19 19.2	1.609	2.420	17.5	19.6
5 11	12 25.95	+18 14.7	1.691	2.421	19.9	19.8

87973 2000 TX_{39} 4 2.8 158°.22 4°.4/28.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.44	+ 4 36.7	2.027	2.901	11.1	19.7
3 12	13 4.38	+ 6 5.2	1.968	2.905	8.0	19.5
3 22	12 57.66	+ 7 35.7	1.936	2.909	5.2	19.4
4 1	12 49.99	+ 9 0.5	1.932	2.912	4.7	19.4
4 11	12 42.24	+10 12.0	1.956	2.916	6.9	19.5
4 21	12 35.24	+11 5.0	2.007	2.918	10.0	19.7
5 1	12 29.69	+11 36.9	2.082	2.921	13.0	19.9
5 11	12 26.06	+11 47.4	2.176	2.923	15.5	20.1

217796 2000 TO_{64} 4 2.8 100°.96 5°.6/12.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 15.43	−32 44.6	3.003	3.691	12.3	23.0
3 12	13 8.10	−32 11.3	2.937	3.730	10.4	22.9
3 22	12 59.48	−31 16.4	2.894	3.768	8.3	22.8
4 1	12 50.25	−30 0.7	2.879	3.805	6.5	22.7
4 11	12 41.19	−28 27.8	2.893	3.840	5.6	22.7
4 21	12 32.98	−26 43.3	2.938	3.875	6.2	22.8
5 1	12 26.18	−24 54.0	3.013	3.908	7.7	22.9
5 11	12 21.11	−23 6.6	3.115	3.941	9.5	23.1

134014 2004 VQ_{48} 4 2.8 281°.11 0°.0/ 2.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.88	− 9 16.5	1.444	2.306	15.4	19.9
3 12	13 5.47	− 8 21.5	1.362	2.294	11.2	19.6
3 22	12 58.62	− 7 6.5	1.303	2.281	6.4	19.3
4 1	12 50.17	− 5 37.3	1.269	2.268	1.0	18.9
4 11	12 41.34	− 4 3.5	1.262	2.255	4.5	19.1
4 21	12 33.38	− 2 35.4	1.280	2.243	9.8	19.3
5 1	12 27.38	− 1 22.6	1.322	2.230	14.6	19.6
5 11	12 24.05	− 0 30.9	1.383	2.217	18.7	19.8

478227 2011 UH_{323} 4 2.8 247°.45 0°.5/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.77	− 5 30.9	2.558	3.406	9.9	21.9
3 12	13 3.75	− 5 0.1	2.467	3.394	7.1	21.7
3 22	12 57.30	− 4 21.4	2.403	3.380	3.9	21.5
4 1	12 49.96	− 3 38.1	2.368	3.367	0.6	21.2
4 11	12 42.42	− 2 54.5	2.363	3.353	3.1	21.4
4 21	12 35.37	− 2 14.9	2.387	3.339	6.5	21.6
5 1	12 29.44	− 1 43.3	2.437	3.325	9.6	21.8
5 11	12 25.10	− 1 22.2	2.510	3.310	12.3	21.9

464662 2001 SD_{119} 4 2.8 162°.29 0°.6/ 3.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.15	−11 1.5	2.189	3.025	11.9	21.7
3 12	13 4.82	−10 4.2	2.114	3.031	8.7	21.5
3 22	12 57.90	− 8 52.7	2.064	3.037	5.0	21.3
4 1	12 50.05	− 7 31.4	2.043	3.041	1.2	21.0
4 11	12 42.10	− 6 6.6	2.052	3.045	3.1	21.2
4 21	12 34.85	− 4 45.1	2.090	3.049	6.9	21.4
5 1	12 28.99	− 3 33.0	2.156	3.052	10.3	21.6
5 11	12 24.98	− 2 34.8	2.244	3.054	13.2	21.8

411499 2011 AB_{73} 4 2.8 54°.59 8°.6/26.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.72	+14 31.2	1.535	2.413	13.7	20.4
3 12	13 7.02	+15 50.1	1.498	2.425	10.8	20.3
3 22	12 59.19	+16 58.7	1.485	2.437	8.8	20.2
4 1	12 50.24	+17 47.2	1.496	2.450	8.9	20.2
4 11	12 41.36	+18 9.3	1.533	2.463	11.0	20.4
4 21	12 33.66	+18 2.7	1.592	2.476	13.8	20.6
5 1	12 27.98	+17 28.9	1.672	2.489	16.6	20.8
5 11	12 24.76	+16 31.9	1.768	2.502	19.0	21.0

231520 2008 SK_{38} 4 2.8 137°.74 0°.6/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.31	− 6 14.8	2.066	2.921	11.7	20.6
3 12	13 4.30	− 5 27.6	1.996	2.925	8.4	20.4
3 22	12 57.64	− 4 30.1	1.952	2.930	4.6	20.2
4 1	12 50.03	− 3 27.1	1.935	2.934	0.8	19.9
4 11	12 42.31	− 2 24.7	1.948	2.938	3.7	20.1
4 21	12 35.31	− 1 28.9	1.988	2.942	7.5	20.4
5 1	12 29.73	− 0 44.4	2.055	2.946	11.0	20.6
5 11	12 26.05	− 0 14.3	2.143	2.949	13.9	20.8

9786 Gakutensoku 4 2.8 204°.78 0°.5/ 3.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.88	− 8 48.8	2.215	3.058	11.5	18.5
3 12	13 4.69	− 8 21.5	2.135	3.056	8.4	18.3
3 22	12 57.88	− 7 43.0	2.079	3.053	4.8	18.0
4 1	12 50.07	− 6 56.7	2.052	3.050	1.0	17.7
4 11	12 42.10	− 6 7.4	2.054	3.047	3.1	17.9
4 21	12 34.76	− 5 20.2	2.084	3.044	6.8	18.1
5 1	12 28.76	− 4 40.0	2.141	3.040	10.2	18.3
5 11	12 24.59	− 4 10.6	2.221	3.036	13.2	18.5

403879 2011 WN_{72} 4 2.8 122°.98 3°.9/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.65	+ 2 31.1	1.611	2.484	13.5	21.1
3 12	13 8.39	+ 3 23.1	1.556	2.493	9.6	20.9
3 22	13 0.00	+ 4 18.0	1.526	2.503	5.7	20.7
4 1	12 50.39	+ 5 8.6	1.522	2.512	3.9	20.6
4 11	12 40.75	+ 5 47.6	1.545	2.521	6.7	20.8
4 21	12 32.18	+ 6 9.9	1.595	2.529	10.6	21.0
5 1	12 25.55	+ 6 13.2	1.668	2.537	14.2	21.2
5 11	12 21.38	+ 5 57.4	1.760	2.545	17.3	21.5

325767 2010 KG_{108} 4 2.8 209°.69 1°.8/ 1.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.11	− 3 6.3	1.861	2.723	12.5	21.8
3 12	13 6.53	− 2 11.0	1.785	2.718	8.9	21.5
3 22	12 59.00	− 1 6.4	1.733	2.713	4.9	21.3
4 1	12 50.26	+ 0 1.7	1.710	2.707	1.8	21.1
4 11	12 41.30	+ 1 6.0	1.715	2.700	4.9	21.2
4 21	12 33.11	+ 2 0.0	1.747	2.693	9.0	21.5
5 1	12 26.54	+ 2 38.6	1.804	2.685	12.8	21.7
5 11	12 22.14	+ 2 59.3	1.882	2.677	16.0	21.9

38952 2000 SG_{309} 4 2.8 303°.15 4°.2/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.52	−14 58.4	1.394	2.235	17.1	19.3
3 12	13 8.34	−15 21.1	1.311	2.223	13.3	19.0
3 22	13 0.38	−15 23.6	1.249	2.212	8.9	18.7
4 1	12 50.51	−15 5.8	1.211	2.201	4.9	18.4
4 11	12 40.08	−14 31.5	1.198	2.190	5.2	18.4
4 21	12 30.55	−13 47.7	1.210	2.179	9.5	18.6
5 1	12 23.21	−13 3.1	1.245	2.169	14.1	18.9
5 11	12 18.89	−12 26.0	1.300	2.159	18.3	19.1

315464 2007 XA_{53} 4 2.8 128°.32 3°.4/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.40	+ 1 12.5	1.659	2.531	13.2	20.9
3 12	13 7.48	+ 2 7.5	1.602	2.539	9.4	20.7
3 22	12 59.49	+ 3 7.1	1.568	2.547	5.4	20.4
4 1	12 50.32	+ 4 4.0	1.562	2.554	3.4	20.3
4 11	12 41.09	+ 4 51.0	1.583	2.561	6.2	20.5
4 21	12 32.86	+ 5 22.4	1.631	2.568	10.2	20.8
5 1	12 26.47	+ 5 35.2	1.702	2.575	13.8	21.0
5 11	12 22.46	+ 5 28.9	1.793	2.581	16.9	21.2

170111 2002 XH_{101} 4 2.8 56°.74 6°.4/27.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.11	+12 39.5	1.992	2.863	11.3	20.0
3 12	13 5.53	+13 37.0	1.946	2.873	8.7	19.8
3 22	12 58.29	+14 27.8	1.925	2.882	6.8	19.7
4 1	12 50.13	+15 5.2	1.932	2.892	6.7	19.7
4 11	12 42.00	+15 24.1	1.965	2.902	8.5	19.9
4 21	12 34.73	+15 22.2	2.023	2.912	11.1	20.0
5 1	12 29.03	+14 59.4	2.104	2.923	13.6	20.2
5 11	12 25.33	+14 17.9	2.204	2.933	15.8	20.4

378342 2007 HP_{48} 4 2.8 275°.98 2°.2/31.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.83	− 1 6.6	1.834	2.702	12.3	21.0
3 12	13 5.62	− 0 25.6	1.761	2.697	8.8	20.8
3 22	12 58.49	+ 0 22.0	1.712	2.692	4.9	20.5
4 1	12 50.18	+ 1 10.6	1.691	2.687	2.2	20.3
4 11	12 41.68	+ 1 53.8	1.698	2.682	5.1	20.5
4 21	12 33.95	+ 2 26.1	1.732	2.678	9.1	20.7
5 1	12 27.83	+ 2 43.7	1.790	2.673	12.8	21.0
5 11	12 23.86	+ 2 44.7	1.868	2.668	15.9	21.2

376938 2002 CS_{229} 4 2.8 353°.27 3°.9/ 5.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.93	−14 29.6	1.512	2.353	16.0	20.4
3 12	13 6.90	−14 58.0	1.437	2.349	12.3	20.2
3 22	12 59.42	−15 8.4	1.383	2.345	8.2	19.9
4 1	12 50.35	−15 1.2	1.354	2.343	4.5	19.7
4 11	12 40.92	−14 39.9	1.350	2.341	4.8	19.7
4 21	12 32.39	−14 10.2	1.372	2.340	8.6	19.9
5 1	12 25.87	−13 39.4	1.417	2.340	12.8	20.2
5 11	12 22.04	−13 14.3	1.483	2.340	16.5	20.4

177949 2006 KU_{96} 4 2.8 187°.12 2°.7/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.47	− 1 5.3	1.880	2.747	12.2	20.6
3 12	13 6.00	+ 0 4.7	1.811	2.746	8.6	20.4
3 22	12 58.67	+ 1 22.3	1.767	2.746	4.8	20.1
4 1	12 50.21	+ 2 40.7	1.751	2.745	2.7	20.0
4 11	12 41.60	+ 3 52.1	1.763	2.743	5.5	20.2
4 21	12 33.79	+ 4 49.9	1.803	2.741	9.4	20.4
5 1	12 27.56	+ 5 29.9	1.868	2.738	12.9	20.6
5 11	12 23.46	+ 5 50.1	1.953	2.734	15.9	20.8

382080 2011 FL_{38} 4 2.8 239.°95 1.°9/31.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.96	− 2 47.1	1.955	2.821	11.8	21.5
3 12	13 4.19	− 1 46.5	1.881	2.816	8.3	21.3
3 22	12 57.66	− 0 37.1	1.832	2.812	4.6	21.1
4 1	12 50.07	+ 0 35.1	1.811	2.807	2.0	20.9
4 11	12 42.30	+ 1 43.0	1.818	2.802	4.8	21.0
4 21	12 35.23	+ 2 40.3	1.853	2.797	8.6	21.3
5 1	12 29.63	+ 3 22.2	1.912	2.792	12.2	21.5
5 11	12 26.02	+ 3 46.3	1.992	2.787	15.2	21.7

294545 2007 YB_{8} 4 2.8 348.°52 1.°4/ 3.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.36	−10 3.6	1.261	2.129	16.8	20.1
3 12	13 5.32	− 9 53.1	1.191	2.123	12.4	19.9
3 22	12 58.64	− 9 23.9	1.141	2.117	7.4	19.6
4 1	12 50.24	− 8 39.8	1.115	2.113	2.2	19.2
4 11	12 41.50	− 7 48.2	1.114	2.109	4.4	19.3
4 21	12 33.79	− 6 57.6	1.136	2.106	9.8	19.6
5 1	12 28.28	− 6 16.6	1.180	2.104	14.7	19.9
5 11	12 25.68	− 5 51.1	1.244	2.103	18.9	20.2

334805 2003 SC_{283} 4 2.8 219.°07 5.°4/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.30	−25 27.2	2.401	3.162	13.2	20.8
3 12	13 5.09	−25 22.3	2.304	3.155	10.9	20.6
3 22	12 58.17	−24 56.3	2.229	3.147	8.4	20.4
4 1	12 50.17	−24 9.1	2.180	3.139	6.2	20.3
4 11	12 41.91	−23 3.5	2.159	3.130	5.4	20.2
4 21	12 34.26	−21 44.7	2.165	3.121	6.9	20.3
5 1	12 27.95	−20 19.6	2.199	3.111	9.4	20.4
5 11	12 23.54	−18 55.6	2.258	3.101	12.1	20.6

262935 2007 DW_{19} 4 2.8 108.°85 1.°4/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.05	− 3 52.2	1.972	2.830	12.1	21.5
3 12	13 6.20	− 3 1.0	1.918	2.849	8.5	21.3
3 22	12 58.66	− 2 1.9	1.889	2.868	4.6	21.1
4 1	12 50.22	− 1 0.4	1.888	2.886	1.4	20.9
4 11	12 41.80	− 0 2.9	1.917	2.904	4.2	21.1
4 21	12 34.25	+ 0 45.1	1.973	2.921	8.0	21.4
5 1	12 28.27	+ 1 19.7	2.055	2.937	11.4	21.6
5 11	12 24.30	+ 1 38.8	2.158	2.954	14.2	21.8

461496 2003 AA_{67} 4 2.8 80.°16 4.°3/ 6.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 18.45	−17 15.9	1.754	2.564	15.5	21.3
3 12	13 10.99	−17 41.2	1.702	2.594	12.0	21.1
3 22	13 1.40	−17 47.3	1.673	2.623	8.2	21.0
4 1	12 50.65	−17 34.8	1.670	2.653	4.9	20.8
4 11	12 39.95	−17 7.6	1.695	2.681	4.8	20.9
4 21	12 30.40	−16 31.6	1.748	2.709	7.7	21.1
5 1	12 22.89	−15 53.6	1.827	2.737	11.1	21.4
5 11	12 17.90	−15 20.0	1.928	2.764	14.1	21.6

289185 2004 VY_{77} 4 2.8 128.°01 4.°6/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.34	−18 3.5	1.554	2.375	16.6	20.7
3 12	13 8.53	−18 9.9	1.483	2.381	13.0	20.5
3 22	13 0.27	−17 53.3	1.433	2.387	8.9	20.3
4 1	12 50.51	−17 14.8	1.408	2.393	5.3	20.1
4 11	12 40.50	−16 19.1	1.409	2.398	5.1	20.1
4 21	12 31.52	−15 14.2	1.437	2.403	8.5	20.3
5 1	12 24.62	−14 8.9	1.489	2.408	12.5	20.5
5 11	12 20.43	−13 11.6	1.562	2.412	16.1	20.8

244789 2003 SV_{209} 4 2.8 237.°13 1.°5/ 4.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.74	−11 47.3	1.841	2.678	13.7	21.6
3 12	13 7.17	−11 20.2	1.750	2.666	10.2	21.3
3 22	12 59.48	−10 36.4	1.682	2.652	6.2	21.0
4 1	12 50.39	− 9 38.8	1.642	2.638	2.1	20.7
4 11	12 40.94	− 8 33.3	1.630	2.624	3.6	20.8
4 21	12 32.18	− 7 26.9	1.646	2.609	8.0	21.0
5 1	12 25.07	− 6 27.0	1.687	2.593	12.1	21.2
5 11	12 20.28	− 5 39.4	1.750	2.577	15.7	21.4

331064 2009 WW_{24} 4 2.8 197.°68 6.°8/26.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.79	+13 26.9	2.006	2.874	11.4	20.7
3 12	13 6.85	+14 33.0	1.949	2.872	8.9	20.5
3 22	12 59.10	+15 32.6	1.918	2.871	7.1	20.4
4 1	12 50.31	+16 18.3	1.913	2.869	7.1	20.4
4 11	12 41.44	+16 44.2	1.935	2.866	9.0	20.5
4 21	12 33.39	+16 47.6	1.983	2.864	11.7	20.7
5 1	12 26.94	+16 28.3	2.053	2.861	14.3	20.9
5 11	12 22.56	+15 48.3	2.141	2.858	16.5	21.0

406847 2009 BC_{9} 4 2.8 69.°15 2.°1/ 4.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.95	−12 33.8	1.357	2.209	16.8	21.1
3 12	13 7.57	−12 13.2	1.300	2.222	12.5	20.8
3 22	12 59.71	−11 32.2	1.264	2.235	7.6	20.6
4 1	12 50.41	−10 34.8	1.252	2.248	2.8	20.3
4 11	12 41.03	− 9 28.9	1.267	2.261	4.1	20.5
4 21	12 32.86	− 8 23.5	1.306	2.274	9.0	20.8
5 1	12 26.90	− 7 27.3	1.370	2.288	13.5	21.1
5 11	12 23.71	− 6 46.1	1.453	2.301	17.3	21.3

185403 2006 WV_{117} 4 2.8 163.°50 1.°1/ 3.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 11.94	−11 2.4	2.200	3.033	11.9	21.3
3 12	13 6.14	−10 31.8	2.125	3.039	8.8	21.1
3 22	12 58.69	− 9 48.0	2.074	3.044	5.2	20.9
4 1	12 50.25	− 8 54.5	2.052	3.049	1.6	20.7
4 11	12 41.70	− 7 56.3	2.059	3.053	3.0	20.8
4 21	12 33.85	− 6 59.1	2.096	3.056	6.7	21.0
5 1	12 27.43	− 6 8.3	2.159	3.059	10.1	21.3
5 11	12 22.91	− 5 27.9	2.245	3.061	13.0	21.4

143363 2003 BK_{6} 4 2.8 358.°70 0.°7/ 3.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.57	− 9 35.8	1.691	2.549	13.7	19.2
3 12	13 2.73	− 9 5.6	1.618	2.547	10.0	18.9
3 22	12 56.95	− 8 20.4	1.569	2.545	5.8	18.7
4 1	12 50.00	− 7 24.4	1.546	2.544	1.4	18.4
4 11	12 42.85	− 6 24.3	1.549	2.544	3.6	18.5
4 21	12 36.50	− 5 27.1	1.579	2.544	8.0	18.8
5 1	12 31.77	− 4 39.4	1.633	2.546	12.0	19.0
5 11	12 29.20	− 4 5.8	1.708	2.548	15.4	19.2

83284 2001 RJ_{89} 4 2.8 210.°96 0.°1/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.15	− 6 32.6	2.412	3.256	10.6	19.6
3 12	13 5.51	− 6 20.7	2.330	3.253	7.7	19.4
3 22	12 58.33	− 6 0.8	2.274	3.249	4.3	19.2
4 1	12 50.21	− 5 35.7	2.247	3.245	0.7	18.9
4 11	12 41.91	− 5 9.1	2.249	3.241	3.0	19.1
4 21	12 34.20	− 4 44.8	2.280	3.237	6.5	19.3
5 1	12 27.74	− 4 26.6	2.338	3.232	9.7	19.5
5 11	12 23.02	− 4 17.2	2.420	3.228	12.4	19.7

471475 2011 UR_{344} 4 2.8 130.°64 1.°8/ 4.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.59	−12 2.3	2.408	3.235	11.2	21.1
3 12	13 5.11	−12 0.9	2.330	3.239	8.4	20.9
3 22	12 58.10	−11 48.1	2.277	3.243	5.2	20.7
4 1	12 50.18	−11 25.8	2.252	3.246	2.2	20.5
4 11	12 42.11	−10 57.3	2.257	3.250	2.9	20.5
4 21	12 34.66	−10 26.6	2.290	3.253	6.0	20.7
5 1	12 28.48	− 9 58.0	2.351	3.257	9.1	20.9
5 11	12 24.03	− 9 35.4	2.435	3.260	11.9	21.1

334777 2003 SR_{133} 4 2.8 266.°55 2.°8/ 5.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.71	−16 44.6	2.039	2.859	13.3	21.0
3 12	13 4.14	−16 10.9	1.943	2.844	10.2	20.8
3 22	12 57.73	−15 17.3	1.870	2.829	6.8	20.5
4 1	12 50.14	−14 6.1	1.824	2.814	3.5	20.3
4 11	12 42.24	−12 42.5	1.807	2.799	3.6	20.3
4 21	12 34.96	−11 13.9	1.817	2.783	7.0	20.4
5 1	12 29.12	− 9 48.0	1.854	2.768	10.7	20.6
5 11	12 25.30	− 8 32.1	1.913	2.752	14.1	20.8

69946 1998 UU_{40} 4 2.8 201.°80 0.°4/ 3.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.90	− 8 54.5	2.467	3.306	10.6	20.5
3 12	13 4.60	− 8 24.6	2.383	3.302	7.7	20.3
3 22	12 57.82	− 7 44.3	2.325	3.298	4.4	20.1
4 1	12 50.14	− 6 56.8	2.295	3.293	1.0	19.8
4 11	12 42.30	− 6 6.4	2.295	3.288	2.8	20.0
4 21	12 35.01	− 5 17.8	2.324	3.283	6.3	20.2
5 1	12 28.93	− 4 35.7	2.381	3.277	9.5	20.4
5 11	12 24.52	− 4 3.4	2.461	3.270	12.2	20.6

461614 2005 AU_{23} 4 2.8 117.°95 4.°7/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.29	+ 3 59.7	1.579	2.456	13.5	21.4
3 12	13 7.48	+ 5 10.3	1.526	2.465	9.7	21.2
3 22	12 59.55	+ 6 22.9	1.498	2.474	6.0	21.0
4 1	12 50.41	+ 7 28.9	1.497	2.482	4.9	21.0
4 11	12 41.24	+ 8 20.1	1.522	2.491	7.6	21.1
4 21	12 33.12	+ 8 51.2	1.573	2.499	11.3	21.4
5 1	12 26.93	+ 8 59.7	1.646	2.507	14.8	21.6
5 11	12 23.18	+ 8 46.5	1.738	2.514	17.8	21.8

378792 2008 SY_{86} 4 2.8 124.°60 2.°3/ 5.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.34	−14 46.2	2.142	2.964	12.6	21.7
3 12	13 5.05	−14 25.5	2.069	2.973	9.5	21.5
3 22	12 58.11	−13 49.1	2.020	2.981	6.1	21.3
4 1	12 50.19	−12 59.5	1.998	2.990	2.9	21.1
4 11	12 42.17	−12 1.5	2.005	2.998	3.2	21.1
4 21	12 34.87	−11 0.9	2.041	3.005	6.5	21.3
5 1	12 29.01	−10 3.8	2.103	3.013	9.9	21.5
5 11	12 25.06	− 9 15.3	2.188	3.020	12.8	21.8

96103 3132 T_{-2} 4 2.8 207.°36 1.°5/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.45	− 2 48.5	2.073	2.932	11.5	19.9
3 12	13 5.90	− 2 12.7	1.997	2.929	8.2	19.7
3 22	12 58.62	− 1 29.6	1.946	2.925	4.5	19.5
4 1	12 50.28	− 0 44.0	1.924	2.921	1.5	19.2
4 11	12 41.77	− 0 1.4	1.931	2.917	4.2	19.4
4 21	12 33.94	+ 0 33.2	1.965	2.913	8.0	19.7
5 1	12 27.57	+ 0 56.1	2.025	2.908	11.5	19.9
5 11	12 23.16	+ 1 4.9	2.107	2.903	14.4	20.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
283459 2001 OA_{78}			4 2.8 168.°53		3.°0/31.1 18	
	h m	° ′			°	m
3 2	13 16.49	+ 1 18.6	1.913	2.773	12.3	21.5
3 12	13 9.54	+ 2 5.9	1.847	2.779	8.7	21.2
3 22	13 0.63	+ 2 57.1	1.808	2.784	5.0	21.0
4 1	12 50.59	+ 3 46.3	1.796	2.788	3.1	20.9
4 11	12 40.45	+ 4 27.0	1.814	2.792	5.7	21.1
4 21	12 31.21	+ 4 54.5	1.860	2.794	9.4	21.3
5 1	12 23.68	+ 5 6.0	1.931	2.795	12.8	21.5
5 11	12 18.41	+ 5 0.7	2.023	2.796	15.7	21.7
199550 2006 EE_{15}			4 2.8 229.°42		0.°3/ 2.5 17	
3 2	13 10.15	− 6 37.9	2.071	2.923	11.8	20.7
3 12	13 5.01	− 6 4.7	1.991	2.918	8.5	20.5
3 22	12 58.14	− 5 21.1	1.936	2.913	4.7	20.3
4 1	12 50.22	− 4 31.0	1.910	2.908	0.7	19.9
4 11	12 42.09	− 3 40.1	1.912	2.903	3.5	20.2
4 21	12 34.63	− 2 53.8	1.941	2.898	7.5	20.4
5 1	12 28.60	− 2 17.0	1.997	2.892	11.0	20.6
5 11	12 24.50	− 1 53.0	2.075	2.887	14.1	20.8
504179 2006 SM_{403}			4 2.8 193.°43		1.°3/ 1.2 17	
3 2	13 9.56	− 1 50.5	2.775	3.628	9.1	22.6
3 12	13 4.18	− 1 21.3	2.697	3.626	6.5	22.4
3 22	12 57.53	− 0 47.4	2.646	3.624	3.5	22.2
4 1	12 50.12	− 0 12.5	2.624	3.621	1.3	22.1
4 11	12 42.59	+ 0 19.7	2.633	3.618	3.4	22.2
4 21	12 35.57	+ 0 45.8	2.671	3.615	6.4	22.4
5 1	12 29.61	+ 1 3.1	2.736	3.611	9.1	22.6
5 11	12 25.14	+ 1 9.9	2.824	3.607	11.5	22.7
419956 2011 BM_{99}			4 2.8 255.°88		0.°7/ 3.5 17	
3 2	13 10.38	− 9 36.6	1.828	2.677	13.3	21.1
3 12	13 5.40	− 9 5.1	1.748	2.671	9.7	20.9
3 22	12 58.46	− 8 19.1	1.691	2.665	5.6	20.6
4 1	12 50.27	− 7 22.4	1.661	2.659	1.3	20.3
4 11	12 41.85	− 6 21.3	1.659	2.653	3.5	20.5
4 21	12 34.16	− 5 22.5	1.684	2.646	7.9	20.7
5 1	12 28.08	− 4 32.5	1.735	2.640	11.9	20.9
5 11	12 24.19	− 3 55.9	1.806	2.633	15.3	21.1
411765 2012 BV_{129}			4 2.8 147.°90		1.°7/ 4.2 18	
3 2	13 14.95	−11 3.9	1.759	2.598	14.2	21.2
3 12	13 8.68	−10 59.4	1.687	2.604	10.5	21.0
3 22	13 0.26	−10 40.4	1.639	2.609	6.4	20.7
4 1	12 50.55	−10 9.3	1.618	2.614	2.3	20.5
4 11	12 40.65	− 9 31.1	1.625	2.619	3.6	20.6
4 21	12 31.66	− 8 51.8	1.659	2.623	7.9	20.9
5 1	12 24.50	− 8 17.4	1.719	2.627	11.8	21.1
5 11	12 19.74	− 7 52.8	1.801	2.630	15.2	21.3
397741 2008 FT_{5}			4 2.8 321.°57		0.°7/ 2.5 17	
3 2	13 20.33	− 1 24.2	1.834	2.686	13.1	19.9
3 12	13 13.03	− 2 2.2	1.719	2.645	9.7	19.6
3 22	13 3.04	− 2 39.5	1.628	2.605	5.5	19.3
4 1	12 51.05	− 3 17.8	1.566	2.565	1.0	18.9
4 11	12 38.15	− 3 59.2	1.534	2.525	4.3	19.0
4 21	12 25.65	− 4 45.6	1.531	2.486	9.2	19.2
5 1	12 14.80	− 5 38.3	1.555	2.447	13.8	19.4
5 11	12 6.54	− 6 38.8	1.601	2.409	17.7	19.6
14992 1997 UY_{14}			4 2.8 165.°54		1.°0/ 1.7 18 R	
3 2	13 9.78	− 3 53.1	2.440	3.293	10.2	18.8
3 12	13 4.47	− 3 17.7	2.367	3.296	7.2	18.6
3 22	12 57.73	− 2 35.6	2.321	3.299	3.9	18.4
4 1	12 50.15	− 1 50.8	2.304	3.302	1.0	18.2
4 11	12 42.48	− 1 7.7	2.316	3.304	3.5	18.4
4 21	12 35.41	− 0 30.8	2.357	3.306	6.8	18.6
5 1	12 29.56	− 0 3.4	2.425	3.308	9.8	18.8
5 11	12 25.36	+ 0 12.3	2.515	3.309	12.4	18.9
381466 2008 RA_{118}			4 2.8 176.°91		1.°0/ 3.8 17	
3 2	13 11.21	−10 2.5	2.170	3.008	11.9	22.0
3 12	13 5.70	− 9 44.9	2.092	3.009	8.7	21.8
3 22	12 58.50	− 9 15.4	2.039	3.010	5.1	21.6
4 1	12 50.28	− 8 36.9	2.013	3.011	1.5	21.3
4 11	12 41.90	− 7 53.9	2.017	3.011	3.0	21.4
4 21	12 34.19	− 7 11.5	2.049	3.011	6.8	21.7
5 1	12 27.89	− 6 34.6	2.108	3.011	10.2	21.9
5 11	12 23.49	− 6 7.1	2.189	3.010	13.2	22.1
502316 2015 BX_{156}			4 2.8 71.°85		5.°7/27.7 17	
3 2	13 9.50	+ 8 12.6	1.846	2.724	11.8	20.8
3 12	13 4.56	+ 9 35.4	1.797	2.732	8.7	20.6
3 22	12 57.86	+10 56.1	1.773	2.740	6.2	20.5
4 1	12 50.17	+12 6.3	1.777	2.749	6.0	20.5
4 11	12 42.46	+12 59.1	1.807	2.757	8.2	20.7
4 21	12 35.60	+13 30.2	1.862	2.765	11.2	20.9
5 1	12 30.33	+13 38.1	1.940	2.773	14.0	21.1
5 11	12 27.10	+13 24.1	2.037	2.782	16.5	21.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
77353 2001 FE_{121}			4 2.8 275.°82		4.°5/30.1 18	
	h m	° ′			°	m
3 2	13 13.06	+ 4 1.4	1.633	2.509	13.2	19.3
3 12	13 7.56	+ 4 54.5	1.555	2.493	9.5	19.1
3 22	12 59.78	+ 5 50.7	1.501	2.477	6.0	18.8
4 1	12 50.50	+ 6 42.5	1.473	2.461	4.6	18.7
4 11	12 40.88	+ 7 22.0	1.473	2.444	7.4	18.8
4 21	12 32.06	+ 7 43.3	1.497	2.428	11.4	19.0
5 1	12 25.07	+ 7 43.4	1.545	2.411	15.3	19.2
5 11	12 20.57	+ 7 22.1	1.611	2.395	18.6	19.4
416323 2003 SW_{161}			4 2.8 243.°24		0.°4/ 3.2 14 C	
3 2	13 13.08	− 8 58.8	1.904	2.748	13.0	22.7
3 12	13 7.40	− 8 23.8	1.809	2.731	9.6	22.4
3 22	12 59.63	− 7 34.5	1.739	2.713	5.5	22.1
4 1	12 50.48	− 6 34.4	1.697	2.695	1.1	21.8
4 11	12 40.94	− 5 29.6	1.683	2.676	3.6	21.9
4 21	12 32.03	− 4 27.2	1.697	2.656	8.1	22.1
5 1	12 24.70	− 3 33.7	1.737	2.635	12.3	22.3
5 11	12 19.61	− 2 54.0	1.799	2.614	15.8	22.5
206178 2002 TF_{295}			4 2.8 148.°68		1.°9/ 5.1 18	
3 2	13 12.26	−13 15.9	2.734	3.547	10.4	20.0
3 12	13 6.13	−13 16.7	2.656	3.557	7.8	19.8
3 22	12 58.62	−13 6.6	2.605	3.566	5.0	19.7
4 1	12 50.30	−12 47.1	2.583	3.574	2.4	19.5
4 11	12 41.87	−12 21.1	2.591	3.582	2.8	19.5
4 21	12 34.02	−11 52.1	2.628	3.589	5.5	19.7
5 1	12 27.34	−11 23.9	2.694	3.596	8.3	19.9
5 11	12 22.27	−11 0.1	2.784	3.602	10.7	20.1
99993 1981 ED_{42}			4 2.8 325.°58		1.°2/ 1.6 17	
3 2	13 6.94	− 4 36.4	1.986	2.850	11.7	19.8
3 12	13 2.80	− 3 49.3	1.906	2.840	8.3	19.5
3 22	12 56.95	− 2 52.3	1.851	2.831	4.5	19.3
4 1	12 50.05	− 1 50.6	1.823	2.822	1.2	19.0
4 11	12 42.94	− 0 50.4	1.824	2.813	4.1	19.2
4 21	12 36.47	+ 0 2.3	1.852	2.804	8.0	19.4
5 1	12 31.39	+ 0 42.3	1.904	2.796	11.6	19.6
5 11	12 28.21	+ 1 6.7	1.978	2.789	14.7	19.8
186065 2001 SK_{167}			4 2.8 18.°57		0.°0/ 2.6 18	
3 2	13 8.91	− 8 10.9	1.433	2.300	15.2	19.1
3 12	13 4.64	− 7 27.3	1.369	2.303	11.0	18.9
3 22	12 58.11	− 6 27.6	1.328	2.307	6.1	18.6
4 1	12 50.23	− 5 17.6	1.313	2.311	0.9	18.3
4 11	12 42.20	− 4 6.2	1.323	2.316	4.3	18.5
4 21	12 35.16	− 3 1.9	1.358	2.322	9.3	18.8
5 1	12 30.07	− 2 12.0	1.417	2.327	13.7	19.1
5 11	12 27.48	− 1 40.6	1.495	2.334	17.3	19.3
308661 2006 BA_{153}			4 2.8 307.°53		1.°0/ 2.2 17	
3 2	13 12.44	− 4 43.7	1.273	2.149	16.1	20.8
3 12	13 7.71	− 4 22.4	1.192	2.131	11.7	20.4
3 22	13 0.12	− 3 47.9	1.134	2.114	6.5	20.1
4 1	12 50.59	− 3 5.6	1.099	2.098	1.2	19.7
4 11	12 40.49	− 2 23.4	1.090	2.082	5.4	19.9
4 21	12 31.32	− 1 49.5	1.104	2.066	11.1	20.2
5 1	12 24.39	− 1 30.7	1.140	2.051	16.2	20.4
5 11	12 20.54	− 1 30.9	1.194	2.036	20.6	20.6
377614 2005 SK_{51}			4 2.8 180.°22		0.°0/ 2.7 13 C	
3 2	13 11.23	− 7 59.7	2.468	3.307	10.6	23.1
3 12	13 5.51	− 7 18.6	2.388	3.308	7.6	22.9
3 22	12 58.32	− 6 27.3	2.335	3.310	4.3	22.7
4 1	12 50.26	− 5 29.5	2.311	3.310	0.7	22.4
4 11	12 42.07	− 4 30.3	2.318	3.309	3.0	22.6
4 21	12 34.48	− 3 34.5	2.354	3.308	6.5	22.8
5 1	12 28.13	− 2 46.9	2.417	3.306	9.6	23.0
5 11	12 23.48	− 2 10.5	2.504	3.303	12.3	23.2
228767 2002 WX_{5}			4 2.8 150.°58		2.°4/ 4.7 18	
3 2	13 16.98	−13 2.8	1.632	2.465	15.4	21.0
3 12	13 10.27	−12 57.2	1.562	2.474	11.6	20.7
3 22	13 1.21	−12 33.9	1.516	2.482	7.2	20.5
4 1	12 50.72	−11 55.2	1.495	2.489	3.1	20.3
4 11	12 40.05	−11 6.7	1.502	2.496	4.0	20.3
4 21	12 30.40	−10 15.3	1.537	2.501	8.3	20.6
5 1	12 22.80	− 9 28.5	1.597	2.507	12.4	20.9
5 11	12 17.82	− 8 52.0	1.678	2.511	16.0	21.1
64893 2001 YP_{77}			4 2.8 226.°65		3.°0/31.3 18	
3 2	13 13.37	− 0 23.9	1.589	2.460	13.7	19.1
3 12	13 7.75	+ 0 31.6	1.517	2.454	9.8	18.9
3 22	12 59.85	+ 1 34.8	1.469	2.448	5.5	18.6
4 1	12 50.53	+ 2 38.6	1.447	2.441	3.1	18.4
4 11	12 40.94	+ 3 34.5	1.453	2.434	6.2	18.6
4 21	12 32.25	+ 4 15.8	1.485	2.427	10.6	18.9
5 1	12 25.46	+ 4 37.9	1.540	2.419	14.6	19.1
5 11	12 21.19	+ 4 39.4	1.614	2.411	18.1	19.3

270390 2002 AQ_{141} 4 2.8 189°.79 5°.5/27.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 11.09	+ 8 42.6	2.061	2.933	11.0	20.7
3 12	13 5.62	+ 9 58.5	2.001	2.932	8.2	20.5
3 22	12 58.46	+11 12.6	1.966	2.931	5.9	20.4
4 1	12 50.29	+12 17.5	1.959	2.930	5.7	20.4
4 11	12 42.02	+13 6.7	1.980	2.928	7.8	20.5
4 21	12 34.49	+13 36.1	2.027	2.925	10.6	20.6
5 1	12 28.44	+13 44.1	2.098	2.923	13.4	20.8
5 11	12 24.34	+13 31.4	2.187	2.920	15.8	21.0

228386 2000 YW_{19} 4 2.8 110°.57 3°.5/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.57	+ 1 34.5	2.040	2.910	11.2	20.3
3 12	13 4.44	+ 3 1.1	1.989	2.925	7.9	20.1
3 22	12 57.74	+ 4 31.5	1.963	2.940	4.7	19.9
4 1	12 50.18	+ 5 58.3	1.967	2.955	3.6	19.9
4 11	12 42.61	+ 7 14.1	1.999	2.969	6.0	20.0
4 21	12 35.84	+ 8 13.7	2.059	2.983	9.2	20.3
5 1	12 30.50	+ 8 53.8	2.143	2.996	12.2	20.5
5 11	12 27.04	+ 9 13.8	2.248	3.009	14.7	20.7

211540 2003 RA_{20} 4 2.8 220°.06 0°.3/ 3.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.57	− 8 23.5	1.927	2.772	12.9	22.1
3 12	13 7.67	− 7 52.5	1.841	2.763	9.4	21.9
3 22	12 59.74	− 7 8.4	1.779	2.753	5.4	21.6
4 1	12 50.53	− 6 15.1	1.744	2.743	1.0	21.3
4 11	12 41.01	− 5 18.3	1.739	2.732	3.6	21.4
4 21	12 32.19	− 4 24.5	1.762	2.720	7.9	21.7
5 1	12 24.97	− 3 39.5	1.810	2.707	11.9	21.9
5 11	12 19.96	− 3 7.7	1.881	2.694	15.3	22.1

282800 2006 QK_{64} 4 2.8 231°.85 1°.0/ 3.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.84	− 9 55.0	1.748	2.594	13.9	21.2
3 12	13 7.30	− 9 33.1	1.666	2.587	10.3	20.9
3 22	12 59.59	− 8 56.3	1.607	2.580	6.0	20.7
4 1	12 50.50	− 8 7.8	1.575	2.572	1.6	20.3
4 11	12 41.11	− 7 13.8	1.570	2.564	3.6	20.5
4 21	12 32.49	− 6 20.8	1.593	2.556	8.2	20.7
5 1	12 25.61	− 5 35.6	1.641	2.547	12.4	20.9
5 11	12 21.10	− 5 3.2	1.710	2.538	16.0	21.2

217953 2001 UG_{37} 4 2.8 227°.75 2°.5/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.15	− 1 21.1	2.109	2.972	11.2	21.2
3 12	13 5.03	− 0 6.7	2.027	2.962	7.9	21.0
3 22	12 58.19	+ 1 15.9	1.972	2.950	4.4	20.7
4 1	12 50.28	+ 2 40.4	1.945	2.938	2.5	20.6
4 11	12 42.14	+ 3 59.4	1.947	2.926	5.2	20.7
4 21	12 34.63	+ 5 6.4	1.978	2.913	8.8	20.9
5 1	12 28.49	+ 5 56.8	2.034	2.899	12.2	21.1
5 11	12 24.25	+ 6 28.2	2.110	2.885	15.1	21.3

498647 2008 SM_{63} 4 2.8 103°.15 1°.6/ 4.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.17	−12 5.5	1.946	2.784	13.1	21.6
3 12	13 5.12	−11 43.1	1.872	2.787	9.7	21.4
3 22	12 58.25	−11 5.8	1.822	2.791	5.9	21.2
4 1	12 50.29	−10 16.6	1.798	2.794	2.2	21.0
4 11	12 42.17	− 9 20.8	1.803	2.797	3.2	21.0
4 21	12 34.81	− 8 24.6	1.836	2.800	7.1	21.3
5 1	12 28.99	− 7 34.2	1.894	2.804	10.8	21.5
5 11	12 25.22	− 6 54.3	1.975	2.807	14.0	21.7

415895 2001 TK_{145} 4 2.8 86°.79 3°.2/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.17	+ 1 45.5	1.789	2.657	12.6	21.0
3 12	13 7.79	+ 2 33.8	1.746	2.681	8.9	20.9
3 22	12 59.60	+ 3 24.8	1.728	2.705	5.1	20.7
4 1	12 50.48	+ 4 11.9	1.737	2.729	3.3	20.6
4 11	12 41.46	+ 4 49.1	1.775	2.752	5.8	20.8
4 21	12 33.49	+ 5 12.0	1.840	2.775	9.3	21.1
5 1	12 27.29	+ 5 18.6	1.929	2.797	12.6	21.3
5 11	12 23.28	+ 5 8.7	2.038	2.819	15.3	21.5

304710 2006 WE_{199} 4 2.8 102°.85 5°.1/ 9.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.38	−24 28.7	2.443	3.212	12.8	20.4
3 12	13 3.68	−24 29.4	2.355	3.212	10.5	20.3
3 22	12 57.40	−24 10.6	2.290	3.212	8.0	20.1
4 1	12 50.16	−23 32.6	2.251	3.212	5.8	20.0
4 11	12 42.74	−22 38.2	2.240	3.212	5.2	19.9
4 21	12 35.91	−21 32.1	2.256	3.212	6.6	20.0
5 1	12 30.36	−20 20.6	2.298	3.212	9.0	20.1
5 11	12 26.59	−19 10.2	2.365	3.212	11.5	20.3

278699 2008 RP_{139} 4 2.8 169°.53 2°.1/ 4.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.18	−13 8.2	2.215	3.039	12.2	20.9
3 12	13 6.41	−13 2.5	2.135	3.042	9.2	20.7
3 22	12 58.93	−12 43.3	2.080	3.044	5.8	20.5
4 1	12 50.41	−12 12.6	2.053	3.046	2.6	20.3
4 11	12 41.72	−11 34.2	2.055	3.048	3.2	20.3
4 21	12 33.70	−10 52.9	2.085	3.049	6.5	20.5
5 1	12 27.09	−10 13.9	2.143	3.050	9.9	20.7
5 11	12 22.41	− 9 41.7	2.223	3.050	12.8	20.9

428042 2006 DL_{54} 4 2.8 35°.09 1°.5/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.11	− 4 4.2	1.781	2.648	12.7	21.4
3 12	13 4.43	− 3 12.4	1.715	2.650	9.0	21.2
3 22	12 57.89	− 2 10.7	1.673	2.654	4.9	21.0
4 1	12 50.25	− 1 5.3	1.659	2.657	1.5	20.7
4 11	12 42.48	− 0 3.3	1.672	2.660	4.6	20.9
4 21	12 35.53	+ 0 48.8	1.712	2.664	8.7	21.2
5 1	12 30.19	+ 1 26.1	1.777	2.668	12.4	21.4
5 11	12 26.95	+ 1 46.1	1.862	2.672	15.6	21.6

256237 2006 VM_{172} 4 2.8 52°.93 3°.6/30.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.96	+ 1 24.3	1.567	2.444	13.6	20.4
3 12	13 6.64	+ 2 16.7	1.508	2.448	9.6	20.2
3 22	12 59.17	+ 3 13.8	1.473	2.452	5.6	19.9
4 1	12 50.45	+ 4 8.2	1.464	2.456	3.6	19.8
4 11	12 41.62	+ 4 52.2	1.482	2.460	6.5	20.0
4 21	12 33.78	+ 5 20.1	1.525	2.465	10.5	20.2
5 1	12 27.82	+ 5 28.7	1.591	2.469	14.3	20.5
5 11	12 24.28	+ 5 17.7	1.676	2.474	17.5	20.7

219606 2001 TN_{91} 4 2.8 165°.42 0°.9/ 3.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.90	− 9 44.8	1.849	2.694	13.3	21.1
3 12	13 6.44	− 9 21.9	1.774	2.696	9.8	20.8
3 22	12 59.03	− 8 45.2	1.724	2.697	5.7	20.6
4 1	12 50.43	− 7 58.4	1.701	2.699	1.5	20.3
4 11	12 41.65	− 7 7.1	1.706	2.700	3.4	20.4
4 21	12 33.67	− 6 17.5	1.738	2.701	7.7	20.7
5 1	12 27.34	− 5 35.5	1.796	2.702	11.5	20.9
5 11	12 23.19	− 5 5.5	1.876	2.702	14.8	21.2

268953 2007 DL_{74} 4 2.8 208°.90 1°.3/ 4.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.57	−10 41.0	2.025	2.861	12.7	21.2
3 12	13 6.85	−10 29.1	1.942	2.858	9.4	20.9
3 22	12 59.25	−10 4.2	1.884	2.854	5.6	20.7
4 1	12 50.48	− 9 28.8	1.853	2.850	1.9	20.4
4 11	12 41.46	− 8 47.5	1.851	2.845	3.2	20.5
4 21	12 33.15	− 8 5.7	1.878	2.840	7.2	20.8
5 1	12 26.35	− 7 28.6	1.930	2.835	10.9	21.0
5 11	12 21.63	− 7 0.9	2.005	2.829	14.1	21.2

183576 2003 RA_{5} 4 2.8 170°.47 0°.1/ 2.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.24	− 6 54.7	2.068	2.913	12.1	20.7
3 12	13 7.90	− 6 23.6	1.994	2.917	8.7	20.5
3 22	12 59.76	− 5 42.2	1.946	2.921	4.9	20.3
4 1	12 50.55	− 4 54.3	1.926	2.924	0.7	20.0
4 11	12 41.20	− 4 5.4	1.935	2.927	3.5	20.2
4 21	12 32.61	− 3 20.9	1.974	2.928	7.5	20.4
5 1	12 25.56	− 2 45.7	2.038	2.929	11.0	20.7
5 11	12 20.57	− 2 22.8	2.125	2.929	14.1	20.9

297764 2001 XZ_{141} 4 2.8 18°.08 2°.8/ 5.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.85	−14 15.7	1.206	2.064	18.1	19.5
3 12	13 5.74	−13 54.3	1.143	2.066	13.7	19.3
3 22	12 58.94	−13 7.6	1.099	2.069	8.6	19.0
4 1	12 50.44	−11 59.3	1.079	2.073	3.7	18.7
4 11	12 41.72	−10 38.3	1.083	2.078	4.5	18.8
4 21	12 34.17	− 9 15.7	1.111	2.083	9.6	19.1
5 1	12 28.95	− 8 2.4	1.161	2.089	14.5	19.3
5 11	12 26.69	− 7 6.5	1.231	2.095	18.7	19.6

346851 2009 DO_{122} 4 2.8 116°.73 0°.9/ 3.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.55	− 9 19.4	2.444	3.278	10.8	21.6
3 12	13 5.74	− 9 12.5	2.374	3.289	7.9	21.4
3 22	12 58.47	− 8 56.0	2.329	3.300	4.6	21.2
4 1	12 50.35	− 8 32.5	2.314	3.311	1.4	21.0
4 11	12 42.16	− 8 5.3	2.328	3.322	2.7	21.1
4 21	12 34.61	− 7 38.5	2.372	3.332	6.0	21.4
5 1	12 28.34	− 7 15.7	2.442	3.342	9.1	21.6
5 11	12 23.78	− 7 0.1	2.536	3.352	11.7	21.8

464910 2005 TT 4 2.8 179°.34 1°.8/ 1.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 18.98	+ 0 51.7	2.492	3.336	10.3	21.5
3 12	13 11.02	+ 0 58.4	2.414	3.339	7.4	21.3
3 22	13 1.40	+ 1 7.1	2.364	3.340	4.1	21.1
4 1	12 50.82	+ 1 14.8	2.345	3.340	1.8	20.9
4 11	12 40.11	+ 1 18.0	2.358	3.340	4.0	21.1
4 21	12 30.09	+ 1 14.2	2.401	3.339	7.3	21.3
5 1	12 21.49	+ 1 1.6	2.473	3.338	10.3	21.4
5 11	12 14.77	+ 0 39.3	2.568	3.335	12.9	21.6

32653 4635 P–L 4 2.8 249°.88 1°.1/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.61	− 4 36.5	1.986	2.842	12.0	20.3
3 12	13 6.25	− 3 54.7	1.897	2.827	8.6	20.0
3 22	12 58.97	− 3 2.7	1.833	2.811	4.8	19.8
4 1	12 50.46	− 2 5.3	1.797	2.795	1.1	19.5
4 11	12 41.63	− 1 8.7	1.789	2.778	4.2	19.7
4 21	12 33.43	− 0 19.0	1.810	2.761	8.3	19.9
5 1	12 26.71	+ 0 18.6	1.856	2.743	12.1	20.1
5 11	12 22.06	+ 0 40.9	1.923	2.725	15.4	20.2

437630 2014 BL_{33} 4 2.8 36°.60 0°.0/ 2.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.79	− 7 4.9	1.946	2.802	12.3	21.2
3 12	13 4.06	− 6 35.0	1.880	2.809	8.8	21.0
3 22	12 57.64	− 5 54.5	1.839	2.817	4.9	20.8
4 1	12 50.23	− 5 7.5	1.826	2.825	0.7	20.5
4 11	12 42.73	− 4 19.8	1.840	2.833	3.4	20.7
4 21	12 35.99	− 3 36.8	1.882	2.841	7.4	21.0
5 1	12 30.73	− 3 3.3	1.949	2.850	11.0	21.2
5 11	12 27.42	− 2 42.5	2.038	2.859	14.0	21.4

56188 1999 FA_{40} 4 2.8 338°.57 7°.7/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 15.45	−22 52.4	1.619	2.414	17.2	19.0
3 12	13 9.63	−23 57.3	1.538	2.410	14.2	18.8
3 22	13 1.14	−24 40.2	1.478	2.406	11.0	18.5
4 1	12 50.83	−24 57.4	1.441	2.402	8.4	18.4
4 11	12 39.98	−24 49.4	1.429	2.399	7.8	18.3
4 21	12 29.98	−24 20.7	1.442	2.396	9.8	18.4
5 1	12 22.05	−23 39.0	1.479	2.393	12.9	18.6
5 11	12 16.98	−22 53.8	1.537	2.391	16.2	18.8

65598 3059 $T\text{-}_3$ 4 2.8 85°.93 0°.7/ 3.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.44	−10 52.1	1.387	2.244	16.2	19.8
3 12	13 6.53	−10 0.8	1.324	2.252	11.8	19.6
3 22	12 59.23	− 8 49.3	1.284	2.259	6.8	19.3
4 1	12 50.49	− 7 23.7	1.268	2.266	1.6	19.0
4 11	12 41.63	− 5 53.7	1.279	2.274	4.2	19.2
4 21	12 33.87	− 4 29.4	1.316	2.281	9.3	19.5
5 1	12 28.20	− 3 19.7	1.376	2.288	13.9	19.8
5 11	12 25.21	− 2 30.0	1.457	2.295	17.7	20.0

239242 2006 SZ_{380} 4 2.8 5°.39 5°.0/27.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.77	+ 7 18.1	2.176	3.053	10.3	20.4
3 12	13 2.50	+ 8 46.4	2.118	3.053	7.6	20.2
3 22	12 56.73	+10 14.5	2.085	3.053	5.4	20.1
4 1	12 50.09	+11 35.0	2.081	3.053	5.2	20.0
4 11	12 43.36	+12 41.2	2.105	3.054	7.3	20.2
4 21	12 37.26	+13 28.5	2.155	3.054	10.0	20.3
5 1	12 32.46	+13 54.8	2.228	3.055	12.7	20.5
5 11	12 29.39	+14 0.1	2.320	3.056	14.9	20.7

30804 1989 TO_{14} 4 2.8 111°.36 0°.7/ 2.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.23	− 4 49.4	2.519	3.370	10.0	19.1
3 12	13 4.01	− 4 15.3	2.456	3.383	7.1	18.9
3 22	12 57.48	− 3 34.4	2.418	3.396	3.9	18.7
4 1	12 50.21	− 2 50.4	2.410	3.409	0.8	18.5
4 11	12 42.90	− 2 7.8	2.432	3.421	3.2	18.7
4 21	12 36.21	− 1 30.5	2.483	3.434	6.4	18.9
5 1	12 30.71	− 1 1.9	2.560	3.446	9.3	19.1
5 11	12 26.79	− 0 44.2	2.660	3.458	11.7	19.3

437803 2015 DU_{20} 4 2.8 198°.85 1°.3/ 1.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.60	− 2 54.8	2.086	2.944	11.5	21.2
3 12	13 6.03	− 2 25.0	2.011	2.942	8.2	21.0
3 22	12 58.75	− 1 48.3	1.962	2.941	4.5	20.8
4 1	12 50.42	− 1 9.2	1.941	2.939	1.3	20.6
4 11	12 41.94	− 0 32.7	1.949	2.937	4.1	20.8
4 21	12 34.15	− 0 3.5	1.985	2.935	7.8	21.0
5 1	12 27.80	+ 0 14.7	2.047	2.932	11.3	21.2
5 11	12 23.41	+ 0 19.7	2.130	2.930	14.2	21.4

351984 2006 UH_{125} 4 2.8 153°.62 2°.4/ 5.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.13	−16 20.8	2.545	3.356	11.2	22.0
3 12	13 3.35	−15 56.4	2.464	3.360	8.6	21.8
3 22	12 57.17	−15 17.3	2.407	3.363	5.6	21.6
4 1	12 50.17	−14 25.6	2.378	3.367	3.0	21.4
4 11	12 43.06	−13 25.5	2.379	3.370	3.0	21.4
4 21	12 36.51	−12 21.8	2.408	3.373	5.7	21.6
5 1	12 31.13	−11 20.0	2.465	3.375	8.6	21.8
5 11	12 27.36	−10 24.8	2.546	3.378	11.2	22.0

302309 2001 YT_{158} 4 2.8 156°.56 0°.6/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 16.07	− 5 34.8	1.819	2.669	13.3	22.1
3 12	13 9.38	− 5 7.0	1.751	2.677	9.5	21.9
3 22	13 0.66	− 4 29.1	1.708	2.685	5.2	21.6
4 1	12 50.73	− 3 45.6	1.692	2.691	0.8	21.3
4 11	12 40.68	− 3 2.5	1.706	2.697	4.0	21.6
4 21	12 31.54	− 2 25.4	1.748	2.702	8.3	21.8
5 1	12 24.20	− 1 59.2	1.815	2.706	12.2	22.1
5 11	12 19.18	− 1 46.5	1.903	2.710	15.4	22.3

306996 2001 WU_{51} 4 2.8 156°.02 0°.1/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.86	− 8 2.9	1.731	2.579	13.9	22.1
3 12	13 8.62	− 7 28.4	1.662	2.587	10.1	21.9
3 22	13 0.28	− 6 40.6	1.618	2.593	5.7	21.7
4 1	12 50.68	− 5 44.0	1.601	2.599	0.9	21.3
4 11	12 40.94	− 4 45.5	1.612	2.605	3.8	21.6
4 21	12 32.15	− 3 51.8	1.651	2.609	8.4	21.8
5 1	12 25.18	− 3 9.1	1.715	2.613	12.4	22.1
5 11	12 20.60	− 2 41.0	1.800	2.616	15.8	22.3

40277 1999 JL_{30} 4 2.8 358°.74 3°.3/ 1.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 16.64	+ 2 59.3	1.365	2.242	15.1	18.0
3 12	13 10.36	+ 2 53.1	1.300	2.239	10.9	17.7
3 22	13 1.44	+ 2 47.3	1.258	2.238	6.3	17.4
4 1	12 50.88	+ 2 36.5	1.242	2.237	3.3	17.2
4 11	12 40.09	+ 2 16.1	1.252	2.237	6.4	17.4
4 21	12 30.46	+ 1 43.1	1.287	2.237	11.0	17.7
5 1	12 23.12	+ 0 56.5	1.344	2.239	15.3	17.9
5 11	12 18.69	− 0 3.3	1.421	2.242	19.0	18.2

417471 2006 QJ_{183} 4 2.8 232°.48 0°.7/ 3.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.48	− 9 35.0	1.824	2.670	13.4	22.1
3 12	13 7.01	− 9 6.3	1.739	2.661	9.9	21.9
3 22	12 59.46	− 8 23.1	1.678	2.652	5.8	21.6
4 1	12 50.57	− 7 28.9	1.644	2.642	1.4	21.3
4 11	12 41.38	− 6 29.8	1.638	2.632	3.6	21.4
4 21	12 32.92	− 5 32.5	1.660	2.621	8.0	21.7
5 1	12 26.11	− 4 43.5	1.707	2.610	12.1	21.9
5 11	12 21.58	− 4 7.8	1.776	2.599	15.6	22.1

222367 2000 XC_{42} 4 2.9 138°.69 6°.4/10.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.87	−27 54.5	2.487	3.223	13.5	20.3
3 12	13 8.33	−28 21.1	2.408	3.236	11.3	20.2
3 22	13 0.02	−28 27.3	2.352	3.249	9.0	20.0
4 1	12 50.65	−28 12.0	2.321	3.261	7.1	19.9
4 11	12 41.11	−27 37.0	2.318	3.272	6.4	19.9
4 21	12 32.27	−26 46.4	2.343	3.283	7.3	20.0
5 1	12 24.91	−25 46.4	2.395	3.294	9.3	20.1
5 11	12 19.53	−24 43.8	2.471	3.303	11.5	20.3

65089 2002 BB_{26} 4 2.9 220°.81 3°.1/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 23.42	+ 3 28.3	1.957	2.807	12.5	19.6
3 12	13 14.75	+ 3 34.0	1.871	2.796	9.1	19.4
3 22	13 3.75	+ 3 39.9	1.810	2.784	5.4	19.2
4 1	12 51.26	+ 3 41.6	1.780	2.772	3.1	19.0
4 11	12 38.43	+ 3 34.7	1.780	2.758	5.6	19.1
4 21	12 26.42	+ 3 16.6	1.810	2.744	9.5	19.3
5 1	12 16.25	+ 2 45.6	1.866	2.729	13.3	19.5
5 11	12 8.58	+ 2 2.0	1.945	2.713	16.4	19.7

275242 2009 XH_3 4 2.9 53°.25 3°.4/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.13	+ 1 55.4	1.739	2.613	12.6	20.2
3 12	13 5.88	+ 2 44.6	1.681	2.619	8.9	20.0
3 22	12 58.71	+ 3 37.2	1.648	2.626	5.2	19.8
4 1	12 50.45	+ 4 26.6	1.641	2.632	3.5	19.7
4 11	12 42.10	+ 5 6.2	1.662	2.639	6.1	19.9
4 21	12 34.66	+ 5 31.1	1.709	2.646	9.8	20.1
5 1	12 28.91	+ 5 38.4	1.779	2.653	13.3	20.3
5 11	12 25.36	+ 5 27.7	1.869	2.660	16.2	20.6

390036 2012 UR_{54} 4 2.9 327°.01 0°.2/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.34	− 6 23.1	1.969	2.820	12.4	20.3
3 12	13 6.72	− 6 23.6	1.890	2.816	9.0	20.0
3 22	12 59.22	− 6 15.4	1.835	2.811	5.1	19.8
4 1	12 50.54	− 6 1.0	1.808	2.807	0.9	19.5
4 11	12 41.62	− 5 44.6	1.809	2.802	3.4	19.7
4 21	12 33.41	− 5 30.4	1.838	2.799	7.5	19.9
5 1	12 26.73	− 5 22.3	1.893	2.795	11.2	20.1
5 11	12 22.15	− 5 23.4	1.969	2.791	14.4	20.3

508634 2017 TN_7 4 2.9 222°.30 2°.0/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.13	− 1 10.6	2.095	2.957	11.3	21.8
3 12	13 5.72	− 0 33.2	2.019	2.953	8.0	21.5
3 22	12 58.60	+ 0 9.9	1.970	2.948	4.4	21.3
4 1	12 50.44	+ 0 54.0	1.948	2.944	2.0	21.1
4 11	12 42.11	+ 1 33.6	1.955	2.939	4.5	21.3
4 21	12 34.45	+ 2 4.0	1.990	2.934	8.2	21.5
5 1	12 28.21	+ 2 21.6	2.050	2.929	11.5	21.7
5 11	12 23.89	+ 2 24.7	2.132	2.923	14.4	21.9

344260 2001 SG_{305} 4 2.9 144°.52 1°.5/ 4.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.16	−11 34.2	2.515	3.341	10.8	21.6
3 12	13 5.50	−11 29.2	2.438	3.347	8.1	21.4
3 22	12 58.38	−11 13.3	2.387	3.353	4.9	21.2
4 1	12 50.40	−10 48.7	2.364	3.359	2.0	21.0
4 11	12 42.30	−10 18.5	2.371	3.364	2.7	21.1
4 21	12 34.79	− 9 46.9	2.407	3.369	5.9	21.3
5 1	12 28.51	− 9 17.8	2.471	3.374	8.9	21.5
5 11	12 23.92	− 8 54.9	2.558	3.379	11.5	21.7

128800 2004 RH_{231} 4 2.9 300°.36 0°.2/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.26	− 7 40.0	1.822	2.675	13.1	20.3
3 12	13 6.05	− 7 18.9	1.746	2.673	9.5	20.1
3 22	12 58.88	− 6 46.0	1.695	2.671	5.4	19.8
4 1	12 50.49	− 6 4.9	1.670	2.669	1.0	19.5
4 11	12 41.89	− 5 21.4	1.673	2.667	3.6	19.7
4 21	12 34.06	− 4 41.2	1.703	2.664	7.9	19.9
5 1	12 27.86	− 4 9.7	1.759	2.662	11.8	20.2
5 11	12 23.86	− 3 50.6	1.835	2.660	15.2	20.4

157566 2005 UL_{143} 4 2.9 176°.88 7°.3/25.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 11.69	+15 13.2	2.145	3.010	10.9	20.0
3 12	13 6.05	+16 42.5	2.095	3.012	8.7	19.9
3 22	12 58.73	+18 4.5	2.070	3.014	7.4	19.8
4 1	12 50.46	+19 11.3	2.073	3.015	7.7	19.8
4 11	12 42.11	+19 57.0	2.103	3.015	9.5	19.9
4 21	12 34.53	+20 18.4	2.158	3.015	11.8	20.1
5 1	12 28.43	+20 15.5	2.234	3.014	14.1	20.2
5 11	12 24.27	+19 50.3	2.328	3.013	16.1	20.4

359399 2010 JD 4 2.9 284°.74 0°.8/ 3.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.77	−10 45.7	1.420	2.277	15.9	21.6
3 12	13 6.41	−10 0.9	1.328	2.256	11.8	21.3
3 22	12 59.43	− 8 53.7	1.258	2.233	6.9	21.0
4 1	12 50.63	− 7 28.8	1.213	2.211	1.6	20.6
4 11	12 41.25	− 5 54.7	1.194	2.189	4.4	20.7
4 21	12 32.63	− 4 22.3	1.201	2.166	10.0	20.9
5 1	12 26.01	− 3 2.2	1.230	2.143	15.1	21.1
5 11	12 22.19	− 2 2.2	1.279	2.121	19.5	21.4

176489 2001 XH_{231} 4 2.9 152°.81 3°.4/ 7.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.23	−19 14.7	2.592	3.386	11.5	20.7
3 12	13 4.16	−19 6.6	2.509	3.390	9.0	20.6
3 22	12 57.66	−18 42.8	2.450	3.394	6.4	20.4
4 1	12 50.30	−18 4.7	2.419	3.398	4.0	20.2
4 11	12 42.81	−17 15.4	2.417	3.402	3.7	20.2
4 21	12 35.89	−16 19.5	2.443	3.405	5.8	20.4
5 1	12 30.16	−15 22.3	2.497	3.409	8.4	20.5
5 11	12 26.06	−14 28.8	2.575	3.412	11.0	20.7

107496 2001 DS_{43} 4 2.9 56°.24 0°.6/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.99	− 6 38.7	1.361	2.230	15.7	19.5
3 12	13 6.87	− 5 56.7	1.308	2.244	11.2	19.2
3 22	12 59.40	− 5 0.6	1.278	2.257	6.2	19.0
4 1	12 50.58	− 3 56.9	1.272	2.271	1.0	18.7
4 11	12 41.73	− 2 54.5	1.292	2.285	4.7	19.0
4 21	12 34.05	− 2 1.4	1.338	2.299	9.6	19.3
5 1	12 28.50	− 1 23.8	1.407	2.313	14.0	19.6
5 11	12 25.59	− 1 4.9	1.495	2.328	17.6	19.8

227510 2005 YV_{10} 4 2.9 128°.78 0°.3/ 3.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.86	− 8 29.7	2.093	2.936	12.0	21.4
3 12	13 6.16	− 7 57.3	2.027	2.948	8.7	21.2
3 22	12 58.80	− 7 13.6	1.985	2.960	4.9	21.0
4 1	12 50.49	− 6 22.6	1.972	2.971	0.9	20.7
4 11	12 42.10	− 5 29.7	1.988	2.981	3.2	20.9
4 21	12 34.49	− 4 40.2	2.033	2.991	7.0	21.1
5 1	12 28.35	− 3 59.2	2.104	3.001	10.5	21.4
5 11	12 24.16	− 3 30.1	2.197	3.010	13.4	21.6

152159 2005 NE_{56} 4 2.9 199°.51 0°.9/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.06	− 4 23.7	2.150	3.001	11.5	21.0
3 12	13 7.09	− 3 50.6	2.070	2.998	8.2	20.7
3 22	12 59.38	− 3 9.3	2.016	2.994	4.5	20.5
4 1	12 50.60	− 2 23.8	1.991	2.989	1.0	20.2
4 11	12 41.62	− 1 39.6	1.995	2.984	3.8	20.4
4 21	12 33.31	− 1 1.5	2.028	2.978	7.6	20.7
5 1	12 26.43	− 0 33.8	2.086	2.971	11.1	20.9
5 11	12 21.51	− 0 19.1	2.167	2.964	14.1	21.0

417647 2006 XF_{67} 4 2.9 130°.80 0°.6/ 3.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.37	− 9 56.8	2.098	2.936	12.2	21.4
3 12	13 6.51	− 9 19.1	2.033	2.951	8.9	21.2
3 22	12 58.99	− 8 28.8	1.992	2.965	5.1	21.0
4 1	12 50.52	− 7 29.9	1.980	2.978	1.2	20.7
4 11	12 42.01	− 6 28.1	1.998	2.991	3.1	20.9
4 21	12 34.29	− 5 29.2	2.044	3.004	6.9	21.2
5 1	12 28.07	− 4 38.7	2.117	3.015	10.4	21.4
5 11	12 23.80	− 4 0.4	2.212	3.026	13.3	21.6

82943 2001 QG_{117} 4 2.9 107°.80 4°.1/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.09	−20 13.5	2.395	3.185	12.4	19.1
3 12	13 5.58	−20 20.5	2.320	3.196	9.9	18.9
3 22	12 58.48	−20 10.8	2.269	3.208	7.1	18.7
4 1	12 50.46	−19 45.0	2.244	3.218	4.7	18.6
4 11	12 42.31	−19 6.2	2.248	3.229	4.3	18.6
4 21	12 34.82	−18 18.8	2.280	3.240	6.3	18.7
5 1	12 28.67	−17 28.5	2.338	3.250	8.9	18.9
5 11	12 24.34	−16 40.6	2.421	3.260	11.5	19.1

272942 2006 BU_{276} 4 2.9 141°.21 0°.7/ 3.5 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.46	− 8 45.1	2.029	2.873	12.4	20.8
3 12	13 6.72	− 8 32.0	1.957	2.877	9.0	20.6
3 22	12 59.18	− 8 7.7	1.908	2.881	5.2	20.3
4 1	12 50.57	− 7 35.3	1.888	2.886	1.3	20.1
4 11	12 41.82	− 6 59.3	1.896	2.890	3.2	20.2
4 21	12 33.81	− 6 24.8	1.932	2.893	7.1	20.5
5 1	12 27.32	− 5 56.5	1.995	2.897	10.7	20.7
5 11	12 22.86	− 5 38.1	2.079	2.900	13.8	20.9

119873 2002 CN_{168} 4 2.9 293°.91 2°.1/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.18	− 0 4.0	2.288	3.152	10.4	19.7
3 12	13 4.26	+ 0 29.0	2.207	3.141	7.4	19.4
3 22	12 57.79	+ 1 6.4	2.151	3.130	4.1	19.2
4 1	12 50.36	+ 1 43.8	2.124	3.119	2.1	19.1
4 11	12 42.73	+ 2 16.5	2.126	3.108	4.4	19.2
4 21	12 35.66	+ 2 40.3	2.155	3.097	7.8	19.4
5 1	12 29.85	+ 2 52.2	2.210	3.087	10.9	19.6
5 11	12 25.77	+ 2 50.6	2.287	3.076	13.6	19.7

360269 2000 SF_{200} 4 2.9 210°.03 0°.3/ 2.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 15.41	− 6 12.8	1.865	2.715	13.0	21.6
3 12	13 9.06	− 5 49.4	1.783	2.709	9.4	21.3
3 22	13 0.61	− 5 15.3	1.726	2.702	5.3	21.1
4 1	12 50.82	− 4 34.4	1.696	2.695	0.8	20.7
4 11	12 40.74	− 3 52.2	1.695	2.687	3.9	21.0
4 21	12 31.43	− 3 14.5	1.722	2.678	8.3	21.2
5 1	12 23.80	− 2 46.5	1.775	2.669	12.3	21.4
5 11	12 18.48	− 2 31.6	1.849	2.658	15.7	21.6

408806 2000 SN_{248} 4 2.9 241°.70 1°.6/ 1.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.30	− 3 31.6	1.869	2.726	12.7	22.5
3 12	13 8.35	− 2 46.4	1.778	2.709	9.1	22.2
3 22	13 0.27	− 1 51.1	1.712	2.691	5.0	21.9
4 1	12 50.78	− 0 50.9	1.674	2.672	1.6	21.7
4 11	12 40.88	+ 0 7.3	1.665	2.652	4.7	21.8
4 21	12 31.65	+ 0 56.9	1.684	2.631	9.1	22.0
5 1	12 24.03	+ 1 32.5	1.727	2.610	13.1	22.2
5 11	12 18.69	+ 1 51.1	1.791	2.588	16.6	22.4

313730 2003 UC_{177} 4 2.9 132°.63 0°.5/ 3.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.95	− 9 9.6	1.865	2.709	13.3	22.1
3 12	13 7.82	− 8 35.4	1.801	2.722	9.6	21.9
3 22	12 59.79	− 7 48.0	1.761	2.735	5.5	21.7
4 1	12 50.68	− 6 51.6	1.749	2.747	1.1	21.4
4 11	12 41.49	− 5 52.6	1.765	2.759	3.5	21.6
4 21	12 33.21	− 4 57.4	1.810	2.770	7.7	21.8
5 1	12 26.63	− 4 11.6	1.881	2.780	11.4	22.1
5 11	12 22.25	− 3 39.1	1.973	2.789	14.6	22.3

504947 2011 DL_{38} 4 2.9 314°.03 0°.1/ 2.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.29	− 7 40.7	1.675	2.535	13.7	21.5
3 12	13 4.83	− 7 2.5	1.596	2.526	9.9	21.3
3 22	12 58.31	− 6 10.0	1.540	2.518	5.6	21.0
4 1	12 50.46	− 5 8.2	1.511	2.510	0.9	20.6
4 11	12 42.34	− 4 4.1	1.509	2.502	4.0	20.8
4 21	12 34.98	− 3 5.2	1.533	2.494	8.6	21.1
5 1	12 29.32	− 2 18.1	1.581	2.487	12.8	21.3
5 11	12 25.95	− 1 47.2	1.650	2.480	16.4	21.5

219764 2001 YK_{87} 4 2.9 86°.33 6°.8/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.33	−27 22.3	1.935	2.695	16.0	20.4
3 12	13 7.48	−27 30.4	1.872	2.718	13.3	20.2
3 22	12 59.63	−27 12.7	1.830	2.741	10.3	20.1
4 1	12 50.65	−26 28.9	1.811	2.763	7.8	20.0
4 11	12 41.63	−25 22.9	1.819	2.785	6.8	19.9
4 21	12 33.58	−24 1.7	1.854	2.807	8.0	20.0
5 1	12 27.34	−22 33.9	1.915	2.828	10.5	20.2
5 11	12 23.41	−21 8.3	1.999	2.849	13.1	20.4

217620 2009 BH_{10} 4 2.9 33°.20 19°.1/18.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 16.91	−40 24.5	1.053	1.787	28.1	19.7
3 12	13 12.43	−42 41.9	0.997	1.792	25.8	19.5
3 22	13 3.53	−44 14.0	0.952	1.797	23.3	19.4
4 1	12 51.38	−44 48.2	0.922	1.803	21.0	19.2
4 11	12 38.28	−44 18.8	0.907	1.810	19.5	19.2
4 21	12 26.85	−42 50.7	0.908	1.817	19.2	19.2
5 1	12 19.23	−40 39.2	0.927	1.825	20.2	19.2
5 11	12 16.46	−38 6.1	0.961	1.833	22.2	19.4

232643 2003 UX_{309} 4 2.9 207°.75 3°.4/ 6.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.65	−17 39.1	2.204	3.012	12.8	20.6
3 12	13 5.45	−17 32.7	2.117	3.009	10.0	20.4
3 22	12 58.51	−17 9.2	2.055	3.006	6.8	20.2
4 1	12 50.49	−16 29.9	2.019	3.003	4.0	20.0
4 11	12 42.25	−15 38.6	2.011	3.000	3.8	20.0
4 21	12 34.64	−14 40.5	2.032	2.996	6.6	20.1
5 1	12 28.43	−13 42.0	2.079	2.992	9.8	20.3
5 11	12 24.14	−12 48.9	2.149	2.988	12.7	20.5

11273 1988 RN_{11} 4 2.9 330°.80 0°.1/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.84	− 6 6.5	3.946	4.790	6.9	18.5
3 12	12 59.23	− 5 41.5	3.862	4.786	4.9	18.3
3 22	12 54.80	− 5 11.5	3.805	4.781	2.7	18.2
4 1	12 49.89	− 4 38.6	3.778	4.777	0.4	18.0
4 11	12 44.91	− 4 5.3	3.781	4.773	2.0	18.1
4 21	12 40.22	− 3 34.1	3.814	4.769	4.2	18.3
5 1	12 36.21	− 3 7.4	3.875	4.765	6.3	18.4
5 11	12 33.13	− 2 47.0	3.960	4.761	8.1	18.5

79831 1998 WZ_{10} 4 2.9 96°.23 2°.7/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 13.86	− 0 23.1	1.752	2.619	12.9	19.8
3 12	13 7.72	+ 0 27.6	1.704	2.639	9.1	19.6
3 22	12 59.70	+ 1 23.3	1.680	2.658	5.1	19.4
4 1	12 50.67	+ 2 17.7	1.683	2.678	2.7	19.3
4 11	12 41.69	+ 3 4.1	1.715	2.697	5.4	19.5
4 21	12 33.72	+ 3 37.2	1.774	2.715	9.2	19.7
5 1	12 27.54	+ 3 54.1	1.857	2.734	12.7	20.0
5 11	12 23.58	+ 3 54.0	1.961	2.751	15.6	20.2

306088 2010 HD_{7} 4 2.9 294°.02 6°.3/ 9.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.49	−25 58.3	2.238	3.002	14.0	20.3
3 12	13 4.82	−26 15.7	2.137	2.986	11.7	20.1
3 22	12 58.27	−26 11.9	2.057	2.971	9.2	19.9
4 1	12 50.48	−25 45.8	2.001	2.955	7.1	19.8
4 11	12 42.31	−24 58.9	1.972	2.939	6.3	19.7
4 21	12 34.69	−23 55.9	1.970	2.923	7.6	19.7
5 1	12 28.47	−22 43.4	1.994	2.907	10.1	19.9
5 11	12 24.26	−21 29.2	2.041	2.892	12.9	20.0

503028 2015 FF_{140} 4 2.9 83°.09 1°.0/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.60	− 3 17.1	2.035	2.892	11.8	21.2
3 12	13 6.75	− 3 1.3	1.971	2.901	8.4	21.0
3 22	12 59.17	− 2 39.1	1.931	2.909	4.6	20.7
4 1	12 50.61	− 2 14.3	1.920	2.918	1.1	20.5
4 11	12 41.96	− 1 51.5	1.937	2.926	3.8	20.7
4 21	12 34.10	− 1 34.7	1.982	2.935	7.6	21.0
5 1	12 27.75	− 1 27.2	2.053	2.944	11.0	21.2
5 11	12 23.39	− 1 31.0	2.146	2.952	13.9	21.4

82842 2001 QK_{50} 4 2.9 134°.08 0°.8/ 1.8 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.42	− 4 28.0	2.583	3.433	9.8	20.3
3 12	13 4.18	− 3 48.4	2.517	3.444	6.9	20.1
3 22	12 57.64	− 3 2.1	2.477	3.455	3.8	19.9
4 1	12 50.36	− 2 13.0	2.467	3.465	0.9	19.7
4 11	12 43.03	− 1 25.6	2.487	3.475	3.2	19.9
4 21	12 36.30	− 0 44.0	2.536	3.485	6.4	20.1
5 1	12 30.72	− 0 11.6	2.611	3.494	9.2	20.3
5 11	12 26.69	+ 0 9.3	2.710	3.503	11.7	20.5

136622 1994 PC_{6} 4 2.9 169°.39 0°.9/ 4.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.19	−10 18.3	2.834	3.663	9.7	21.2
3 12	13 4.00	− 9 58.6	2.754	3.666	7.1	21.0
3 22	12 57.55	− 9 29.5	2.700	3.669	4.2	20.9
4 1	12 50.35	− 8 53.4	2.675	3.672	1.3	20.6
4 11	12 43.05	− 8 13.6	2.680	3.674	2.4	20.7
4 21	12 36.25	− 7 34.1	2.715	3.675	5.4	20.9
5 1	12 30.50	− 6 58.6	2.778	3.677	8.2	21.1
5 11	12 26.19	− 6 30.1	2.864	3.677	10.6	21.3

305369 2008 CY 4 2.9 229°.73 2°.1/ 5.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.47	−14 22.0	2.458	3.278	11.2	21.2
3 12	13 3.71	−14 4.8	2.372	3.275	8.5	21.0
3 22	12 57.48	−13 34.1	2.311	3.272	5.5	20.8
4 1	12 50.36	−12 51.9	2.278	3.269	2.6	20.6
4 11	12 43.06	−12 1.9	2.273	3.266	2.9	20.7
4 21	12 36.30	−11 9.1	2.298	3.262	5.9	20.8
5 1	12 30.75	−10 18.4	2.349	3.259	9.0	21.0
5 11	12 26.84	− 9 34.5	2.424	3.256	11.7	21.2

210711 2000 SB_{200} 4 2.9 175°.81 0°.1/ 2.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.96	− 8 26.7	2.635	3.477	9.9	20.9
3 12	13 2.48	− 7 25.2	2.556	3.478	7.1	20.7
3 22	12 56.73	− 6 13.3	2.504	3.479	3.9	20.5
4 1	12 50.23	− 4 55.1	2.481	3.480	0.6	20.2
4 11	12 43.64	− 3 36.0	2.489	3.481	2.8	20.4
4 21	12 37.57	− 2 21.3	2.527	3.481	6.1	20.6
5 1	12 32.57	− 1 15.8	2.591	3.481	9.0	20.8
5 11	12 29.05	− 0 22.8	2.680	3.481	11.6	21.0

112790 2002 PC_{164} 4 2.9 334°.62 1°.0/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.32	− 4 38.0	1.287	2.164	15.9	19.7
3 12	13 6.81	− 4 15.5	1.216	2.155	11.5	19.4
3 22	12 59.65	− 3 40.6	1.165	2.146	6.4	19.1
4 1	12 50.74	− 2 58.7	1.140	2.138	1.2	18.7
4 11	12 41.45	− 2 17.9	1.139	2.131	5.2	19.0
4 21	12 33.16	− 1 45.7	1.162	2.124	10.6	19.2
5 1	12 27.06	− 1 28.5	1.207	2.118	15.4	19.5
5 11	12 23.87	− 1 29.5	1.270	2.113	19.5	19.7

226332 2003 FE_{22} 4 2.9 205°.15 0°.3/ 3.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.54	− 8 29.0	2.175	3.017	11.7	21.4
3 12	13 6.05	− 7 56.3	2.092	3.013	8.5	21.2
3 22	12 58.84	− 7 12.0	2.034	3.008	4.9	20.9
4 1	12 50.59	− 6 19.8	2.004	3.003	0.9	20.6
4 11	12 42.13	− 5 24.8	2.004	2.997	3.2	20.8
4 21	12 34.31	− 4 32.6	2.032	2.991	7.1	21.0
5 1	12 27.87	− 3 48.4	2.087	2.984	10.6	21.2
5 11	12 23.33	− 3 15.8	2.165	2.976	13.6	21.4

35190 1994 AW 4 2.9 126°.85 0°.3/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 11.89	− 7 3.3	1.970	2.820	12.4	18.7
3 12	13 6.29	− 6 23.8	1.905	2.831	8.9	18.5
3 22	12 58.95	− 5 33.4	1.865	2.841	4.9	18.2
4 1	12 50.59	− 4 36.7	1.852	2.851	0.7	17.9
4 11	12 42.17	− 3 39.7	1.869	2.861	3.6	18.2
4 21	12 34.55	− 2 48.4	1.914	2.870	7.6	18.4
5 1	12 28.48	− 2 7.7	1.984	2.879	11.1	18.7
5 11	12 24.44	− 1 40.7	2.077	2.888	14.1	18.9

118477 2000 AQ_{168} 4 2.9 356°.09 3°.6/31.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.77	− 0 55.7	1.113	2.004	16.7	18.8
3 12	13 6.57	+ 0 4.7	1.054	2.001	11.9	18.5
3 22	12 59.53	+ 1 15.8	1.017	1.999	6.7	18.2
4 1	12 50.71	+ 2 27.7	1.003	1.998	3.7	18.1
4 11	12 41.65	+ 3 28.9	1.012	1.997	7.4	18.3
4 21	12 33.81	+ 4 10.3	1.045	1.997	12.7	18.5
5 1	12 28.40	+ 4 26.6	1.097	1.998	17.5	18.8
5 11	12 26.08	+ 4 16.9	1.166	2.000	21.5	19.1

436452 2011 CE_{79} 4 2.9 78°.15 5°.9/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.42	−22 19.4	1.783	2.575	16.0	21.1
3 12	13 8.42	−22 44.0	1.718	2.592	12.9	20.9
3 22	13 0.26	−22 45.7	1.675	2.609	9.6	20.7
4 1	12 50.81	−22 24.1	1.657	2.625	6.8	20.6
4 11	12 41.24	−21 42.8	1.665	2.642	6.1	20.6
4 21	12 32.64	−20 47.8	1.700	2.659	8.1	20.7
5 1	12 25.94	−19 47.3	1.760	2.675	11.1	21.0
5 11	12 21.69	−18 49.3	1.842	2.692	14.1	21.2

162700 2000 UZ_{38} 4 2.9 175°.14 1°.3/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.56	− 3 57.1	1.896	2.751	12.6	21.0
3 12	13 8.33	− 3 16.7	1.825	2.754	9.0	20.8
3 22	13 0.15	− 2 27.3	1.779	2.757	4.9	20.6
4 1	12 50.80	− 1 34.2	1.760	2.758	1.3	20.3
4 11	12 41.30	− 0 43.6	1.771	2.759	4.3	20.5
4 21	12 32.62	− 0 1.2	1.810	2.759	8.4	20.8
5 1	12 25.60	+ 0 28.4	1.874	2.759	12.2	21.0
5 11	12 20.77	+ 0 42.7	1.959	2.758	15.3	21.2

55843 1996 PD_{1} 4 2.9 193°.76 0°.8/ 3.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.72	− 9 47.1	1.896	2.741	13.1	19.4
3 12	13 6.36	− 9 22.8	1.819	2.740	9.6	19.2
3 22	12 59.09	− 8 45.0	1.766	2.739	5.6	19.0
4 1	12 50.64	− 7 57.0	1.740	2.738	1.5	18.7
4 11	12 41.98	− 7 4.5	1.742	2.736	3.3	18.8
4 21	12 34.08	− 6 13.6	1.773	2.735	7.5	19.1
5 1	12 27.76	− 5 30.2	1.828	2.733	11.4	19.3
5 11	12 23.58	− 4 58.7	1.906	2.731	14.7	19.5

277267 2005 SU_{49} 4 2.9 190°.34 0°.3/ 2.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.74	− 6 39.3	2.176	3.024	11.5	22.4
3 12	13 6.15	− 6 0.6	2.098	3.022	8.3	22.2
3 22	12 58.89	− 5 11.6	2.045	3.021	4.6	22.0
4 1	12 50.61	− 4 16.5	2.020	3.019	0.7	21.6
4 11	12 42.16	− 3 20.9	2.025	3.016	3.4	21.9
4 21	12 34.37	− 2 30.1	2.058	3.013	7.2	22.1
5 1	12 27.97	− 1 49.0	2.118	3.009	10.7	22.3
5 11	12 23.46	− 1 20.7	2.200	3.005	13.6	22.5

160746 2000 RD_{100} 4 2.9 163°.15 1°.3/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.52	− 4 43.7	1.849	2.705	12.8	21.2
3 12	13 7.59	− 3 49.6	1.781	2.711	9.1	20.9
3 22	12 59.74	− 2 45.2	1.738	2.716	5.0	20.7
4 1	12 50.75	− 1 36.3	1.723	2.721	1.3	20.4
4 11	12 41.63	− 0 30.2	1.737	2.725	4.4	20.7
4 21	12 33.37	+ 0 26.7	1.778	2.728	8.6	20.9
5 1	12 26.78	+ 1 9.2	1.845	2.730	12.3	21.1
5 11	12 22.38	+ 1 34.7	1.933	2.732	15.4	21.4

213781 2003 EB_{52} 4 2.9 2°.28 0°.5/ 3.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.93	− 5 43.5	1.878	2.729	12.9	19.3
3 12	13 8.68	− 6 8.5	1.804	2.729	9.4	19.1
3 22	13 0.40	− 6 26.2	1.753	2.728	5.4	18.8
4 1	12 50.87	− 6 38.5	1.730	2.729	1.1	18.5
4 11	12 41.10	− 6 48.2	1.736	2.730	3.5	18.7
4 21	12 32.12	− 6 58.5	1.770	2.731	7.6	19.0
5 1	12 24.82	− 7 12.5	1.829	2.733	11.4	19.2
5 11	12 19.77	− 7 33.0	1.911	2.736	14.6	19.4

434293 2004 BM_{154} 4 2.9 28°.92 1°.9/ 1.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.48	− 1 52.7	1.897	2.764	12.0	21.3
3 12	13 4.66	− 1 11.0	1.832	2.768	8.5	21.1
3 22	12 58.09	− 0 22.6	1.792	2.772	4.7	20.9
4 1	12 50.49	+ 0 27.0	1.780	2.776	1.9	20.7
4 11	12 42.77	+ 1 11.8	1.795	2.781	4.7	20.9
4 21	12 35.83	+ 1 46.5	1.837	2.785	8.5	21.1
5 1	12 30.40	+ 2 7.4	1.904	2.790	11.9	21.3
5 11	12 26.98	+ 2 12.7	1.992	2.795	14.9	21.6

496450 2014 QB_1 4 2.9 281°.57 0°.9/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 11.44	− 7 3.9	1.428	2.295	15.3	21.6
3 12	13 6.92	− 6 5.1	1.336	2.271	11.1	21.3
3 22	12 59.78	− 4 47.0	1.267	2.246	6.2	21.0
4 1	12 50.81	− 3 15.9	1.223	2.221	1.1	20.5
4 11	12 41.23	− 1 41.6	1.205	2.196	5.2	20.7
4 21	12 32.39	− 0 15.1	1.213	2.171	10.7	21.0
5 1	12 25.51	+ 0 54.2	1.244	2.146	15.8	21.2
5 11	12 21.44	+ 1 40.2	1.293	2.120	20.2	21.4

39537 1990 VV_2 4 2.9 140°.47 2°.1/ 5.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.18	−15 4.6	2.281	3.100	12.1	18.3
3 12	13 4.96	−14 31.5	2.207	3.109	9.1	18.1
3 22	12 58.18	−13 42.8	2.156	3.118	5.8	17.9
4 1	12 50.50	−12 41.3	2.134	3.126	2.7	17.7
4 11	12 42.73	−11 32.2	2.141	3.134	3.0	17.7
4 21	12 35.64	−10 21.2	2.177	3.141	6.2	18.0
5 1	12 29.89	− 9 14.5	2.240	3.149	9.4	18.2
5 11	12 25.94	− 8 17.0	2.327	3.155	12.2	18.4

325271 2008 GO_{120} 4 2.9 118°.61 3°.7/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.62	+ 1 6.6	1.835	2.706	12.1	20.6
3 12	13 5.44	+ 2 39.2	1.781	2.719	8.6	20.4
3 22	12 58.49	+ 4 16.8	1.753	2.731	5.1	20.2
4 1	12 50.55	+ 5 51.2	1.754	2.742	3.8	20.2
4 11	12 42.57	+ 7 13.7	1.783	2.754	6.4	20.3
4 21	12 35.47	+ 8 18.1	1.839	2.764	9.9	20.6
5 1	12 29.96	+ 9 0.8	1.918	2.775	13.2	20.8
5 11	12 26.51	+ 9 21.3	2.017	2.785	15.9	21.0

192822 1999 VP_{88} 4 2.9 145°.11 0°.9/ 2.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.71	− 4 56.0	2.087	2.943	11.6	20.8
3 12	13 5.42	− 4 17.2	2.018	2.947	8.3	20.5
3 22	12 58.48	− 3 29.6	1.973	2.951	4.5	20.3
4 1	12 50.55	− 2 37.9	1.957	2.956	1.0	20.1
4 11	12 42.52	− 1 47.5	1.970	2.959	3.7	20.3
4 21	12 35.19	− 1 3.9	2.011	2.963	7.5	20.5
5 1	12 29.29	− 0 31.2	2.077	2.967	10.9	20.7
5 11	12 25.30	− 0 12.0	2.165	2.970	13.8	20.9

456051 2006 AW 4 2.9 127°.50 4°.4/ 8.1 16 CR

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 19.11	−23 8.1	2.476	3.233	13.0	24.1
3 12	13 11.14	−22 54.9	2.408	3.263	10.4	23.9
3 22	13 1.53	−22 22.2	2.364	3.291	7.5	23.8
4 1	12 51.03	−21 31.1	2.349	3.317	5.1	23.7
4 11	12 40.57	−20 25.3	2.364	3.342	4.5	23.7
4 21	12 31.00	−19 10.8	2.410	3.365	6.3	23.8
5 1	12 23.01	−17 54.1	2.486	3.387	8.9	24.0
5 11	12 17.03	−16 41.7	2.586	3.407	11.4	24.2

40522 1999 RT_{95} 4 2.9 159°.76 1°.7/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.51	− 1 38.9	2.037	2.897	11.6	19.7
3 12	13 6.75	− 1 9.9	1.967	2.900	8.3	19.5
3 22	12 59.23	− 0 35.1	1.923	2.902	4.6	19.2
4 1	12 50.68	+ 0 0.8	1.907	2.904	1.7	19.0
4 11	12 42.00	+ 0 32.8	1.920	2.906	4.4	19.2
4 21	12 34.06	+ 0 56.2	1.960	2.907	8.1	19.4
5 1	12 27.62	+ 1 7.9	2.026	2.909	11.5	19.7
5 11	12 23.18	+ 1 6.2	2.114	2.910	14.4	19.9

418354 2008 GD_{97} 4 2.9 356°.56 3°.1/31.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.79	− 0 49.2	1.364	2.247	14.8	20.6
3 12	13 5.47	+ 0 3.2	1.301	2.244	10.5	20.3
3 22	12 58.78	+ 1 4.2	1.261	2.242	5.9	20.0
4 1	12 50.62	+ 2 5.8	1.246	2.241	3.1	19.8
4 11	12 42.26	+ 2 58.8	1.256	2.240	6.4	20.0
4 21	12 34.91	+ 3 36.0	1.291	2.241	11.1	20.3
5 1	12 29.58	+ 3 52.7	1.347	2.241	15.3	20.5
5 11	12 26.88	+ 3 47.5	1.421	2.243	19.0	20.8

25405 Jeffwidder 4 2.9 21°.89 0°.7/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.16	− 9 21.2	1.288	2.156	16.5	18.5
3 12	13 5.83	− 8 51.4	1.228	2.161	12.1	18.2
3 22	12 59.01	− 8 3.5	1.189	2.166	6.9	18.0
4 1	12 50.67	− 7 2.8	1.174	2.172	1.5	17.6
4 11	12 42.15	− 5 58.0	1.184	2.179	4.3	17.8
4 21	12 34.76	− 4 58.3	1.219	2.186	9.6	18.2
5 1	12 29.53	− 4 11.5	1.276	2.194	14.2	18.4
5 11	12 27.05	− 3 42.6	1.353	2.203	18.2	18.7

464210 2015 BJ_{162} 4 2.9 242°.24 4°.0/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.31	+ 4 21.0	2.076	2.943	11.1	21.2
3 12	13 6.71	+ 5 17.8	1.996	2.929	8.1	21.0
3 22	12 59.28	+ 6 17.0	1.941	2.915	5.1	20.8
4 1	12 50.72	+ 7 12.2	1.915	2.901	4.1	20.7
4 11	12 41.90	+ 7 57.1	1.918	2.885	6.4	20.8
4 21	12 33.72	+ 8 26.8	1.948	2.870	9.7	21.0
5 1	12 26.98	+ 8 38.6	2.002	2.854	12.9	21.1
5 11	12 22.23	+ 8 31.7	2.076	2.837	15.7	21.3

125422 2001 VJ_{112} 4 2.9 287°.24 0°.2/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 14.67	− 6 4.1	1.382	2.247	15.7	19.0
3 12	13 9.23	− 5 52.5	1.302	2.235	11.5	18.7
3 22	13 1.06	− 5 27.9	1.243	2.222	6.5	18.4
4 1	12 51.04	− 4 54.6	1.210	2.209	1.0	18.0
4 11	12 40.51	− 4 19.1	1.203	2.196	4.7	18.2
4 21	12 30.90	− 3 48.7	1.221	2.183	10.1	18.5
5 1	12 23.44	− 3 29.7	1.261	2.171	15.1	18.7
5 11	12 18.93	− 3 26.4	1.321	2.158	19.3	19.0

341537 2007 TH_{446} 4 2.9 170°.39 1°.8/ 4.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.57	−12 42.4	2.318	3.144	11.6	21.5
3 12	13 5.28	−12 29.8	2.237	3.146	8.7	21.3
3 22	12 58.40	−12 4.2	2.182	3.147	5.4	21.1
4 1	12 50.57	−11 28.0	2.154	3.148	2.3	20.9
4 11	12 42.58	−10 45.2	2.156	3.149	2.9	21.0
4 21	12 35.20	−10 0.4	2.186	3.150	6.2	21.2
5 1	12 29.13	− 9 18.6	2.243	3.150	9.5	21.4
5 11	12 24.84	− 8 44.2	2.324	3.151	12.3	21.6

361688 2007 UN_{129} 4 2.9 144°.15 4°.0/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.25	+ 2 57.9	1.675	2.547	13.1	21.1
3 12	13 8.24	+ 3 53.6	1.616	2.553	9.4	20.9
3 22	13 0.15	+ 4 52.2	1.582	2.558	5.7	20.7
4 1	12 50.85	+ 5 46.2	1.575	2.563	4.1	20.6
4 11	12 41.46	+ 6 28.5	1.595	2.568	6.7	20.8
4 21	12 33.03	+ 6 53.9	1.641	2.573	10.5	21.0
5 1	12 26.46	+ 6 59.8	1.710	2.577	14.1	21.2
5 11	12 22.25	+ 6 46.2	1.799	2.580	17.1	21.4

429078 2009 PA_{19} 4 2.9 102°.74 0°.4/ 3.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.95	− 8 35.6	2.146	2.984	12.0	22.4
3 12	13 7.56	− 8 8.7	2.091	3.010	8.6	22.2
3 22	12 59.57	− 7 31.3	2.062	3.035	4.9	22.0
4 1	12 50.74	− 6 47.1	2.062	3.060	1.0	21.8
4 11	12 41.96	− 6 1.1	2.091	3.084	3.0	22.0
4 21	12 34.02	− 5 18.4	2.149	3.107	6.7	22.2
5 1	12 27.60	− 4 43.2	2.234	3.130	10.0	22.5
5 11	12 23.12	− 4 18.8	2.342	3.152	12.7	22.7

410420 2008 AZ_{37} 4 2.9 92°.32 0°.0/ 2.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.65	− 8 16.0	1.609	2.464	14.4	22.0
3 12	13 7.12	− 7 32.8	1.551	2.479	10.4	21.8
3 22	12 59.52	− 6 35.3	1.517	2.494	5.8	21.6
4 1	12 50.75	− 5 29.2	1.510	2.508	0.9	21.2
4 11	12 41.93	− 4 22.3	1.530	2.523	3.9	21.5
4 21	12 34.14	− 3 22.0	1.577	2.537	8.5	21.8
5 1	12 28.22	− 2 34.5	1.648	2.551	12.5	22.1
5 11	12 24.68	− 2 3.4	1.740	2.564	15.9	22.3

203468 2001 YE_{152} 4 2.9 124°.45 2°.1/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 16.35	−11 2.9	1.499	2.345	15.9	20.1
3 12	13 10.12	−11 8.0	1.430	2.350	11.8	19.9
3 22	13 1.38	−10 57.0	1.384	2.354	7.2	19.6
4 1	12 51.08	−10 32.2	1.363	2.359	2.7	19.3
4 11	12 40.54	− 9 58.8	1.369	2.363	4.0	19.4
4 21	12 31.04	− 9 23.3	1.401	2.367	8.7	19.7
5 1	12 23.67	− 8 52.6	1.457	2.371	13.1	20.0
5 11	12 19.07	− 8 32.2	1.534	2.375	16.9	20.2

498780 2008 UR_{141} 4 2.9 217°.34 0°.3/ 3.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.23	− 8 39.1	2.384	3.224	10.9	22.3
3 12	13 5.03	− 8 3.2	2.296	3.216	7.9	22.1
3 22	12 58.28	− 7 16.3	2.234	3.208	4.5	21.9
4 1	12 50.58	− 6 21.7	2.201	3.200	0.9	21.6
4 11	12 42.67	− 5 24.5	2.198	3.191	2.9	21.7
4 21	12 35.31	− 4 29.7	2.224	3.181	6.6	21.9
5 1	12 29.19	− 3 42.2	2.276	3.171	9.9	22.1
5 11	12 24.78	− 3 5.8	2.352	3.161	12.7	22.3

499091 2009 FA_{41} 4 2.9 35°.80 0°.9/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.43	− 2 25.2	1.971	2.828	12.1	20.5
3 12	13 8.16	− 2 30.0	1.905	2.834	8.7	20.3
3 22	13 0.05	− 2 29.8	1.863	2.841	4.8	20.0
4 1	12 50.86	− 2 27.6	1.850	2.848	1.1	19.8
4 11	12 41.55	− 2 27.1	1.865	2.855	3.8	20.0
4 21	12 33.07	− 2 31.6	1.908	2.863	7.7	20.2
5 1	12 26.19	− 2 43.7	1.977	2.870	11.2	20.5
5 11	12 21.41	− 3 4.9	2.068	2.878	14.2	20.7

425130 2009 SY_{218} 4 2.9 157°.03 5°.2/27.2 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.71	+ 8 40.5	2.337	3.204	10.0	22.1
3 12	13 5.26	+10 14.5	2.283	3.212	7.5	22.0
3 22	12 58.33	+11 46.6	2.258	3.220	5.5	21.9
4 1	12 50.57	+13 9.8	2.261	3.227	5.4	21.9
4 11	12 42.76	+14 17.7	2.294	3.233	7.3	22.0
4 21	12 35.62	+15 6.3	2.353	3.239	9.9	22.2
5 1	12 29.79	+15 33.8	2.436	3.244	12.3	22.3
5 11	12 25.69	+15 40.9	2.539	3.248	14.4	22.5

429188 2009 WL_{33} 4 2.9 108°.91 1°.2/ 4.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 11.46	−11 31.3	2.077	2.911	12.5	21.7
3 12	13 5.93	−10 59.8	2.013	2.927	9.2	21.5
3 22	12 58.76	−10 14.7	1.973	2.943	5.5	21.3
4 1	12 50.64	− 9 19.4	1.962	2.958	1.8	21.0
4 11	12 42.49	− 8 19.6	1.979	2.973	3.0	21.2
4 21	12 35.12	− 7 21.1	2.025	2.988	6.7	21.4
5 1	12 29.24	− 6 29.5	2.098	3.002	10.1	21.6
5 11	12 25.30	− 5 48.9	2.193	3.016	13.1	21.9

501147 2013 TM_{62} 4 2.9 187°.81 2°.3/31.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.16	+ 0 14.1	2.606	3.462	9.5	23.4
3 12	13 5.51	+ 1 9.4	2.531	3.461	6.7	23.2
3 22	12 58.47	+ 2 9.1	2.483	3.460	3.8	23.0
4 1	12 50.60	+ 3 8.3	2.465	3.458	2.3	22.9
4 11	12 42.62	+ 4 2.0	2.478	3.455	4.4	23.0
4 21	12 35.20	+ 4 46.0	2.520	3.451	7.3	23.2
5 1	12 28.93	+ 5 17.3	2.588	3.446	10.1	23.4
5 11	12 24.25	+ 5 34.3	2.678	3.441	12.5	23.6

415144 2012 DC_{86} 4 2.9 91°.96 2°.3/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.89	−12 19.5	1.617	2.456	15.2	21.2
3 12	13 8.86	−12 19.6	1.552	2.467	11.4	21.0
3 22	13 0.57	−12 3.1	1.510	2.478	7.1	20.8
4 1	12 50.95	−11 32.4	1.495	2.489	2.9	20.6
4 11	12 41.19	−10 52.9	1.506	2.500	3.8	20.6
4 21	12 32.45	−10 11.0	1.544	2.510	8.1	20.9
5 1	12 25.67	− 9 33.3	1.607	2.521	12.1	21.2
5 11	12 21.41	− 9 5.4	1.691	2.531	15.6	21.4

117378 2004 XZ_{163} 4 2.9 184°.03 2°.1/ 5.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.06	−13 48.0	2.099	2.925	12.7	20.2
3 12	13 5.79	−13 30.1	2.018	2.925	9.6	20.0
3 22	12 58.77	−12 56.8	1.961	2.925	6.1	19.8
4 1	12 50.66	−12 10.6	1.932	2.925	2.7	19.5
4 11	12 42.37	−11 16.1	1.931	2.924	3.2	19.6
4 21	12 34.75	−10 19.0	1.958	2.923	6.7	19.8
5 1	12 28.58	− 9 25.5	2.012	2.922	10.2	20.0
5 11	12 24.39	− 8 40.7	2.089	2.921	13.3	20.2

27621 2001 KF_{67} 4 2.9 144°.31 4°.6/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.20	−23 36.5	2.573	3.342	12.3	17.8
3 12	13 4.95	−23 32.1	2.491	3.349	9.9	17.7
3 22	12 58.21	−23 9.5	2.432	3.357	7.4	17.5
4 1	12 50.58	−22 29.3	2.399	3.364	5.3	17.4
4 11	12 42.81	−21 34.3	2.395	3.370	4.7	17.3
4 21	12 35.66	−20 29.4	2.419	3.377	6.1	17.4
5 1	12 29.76	−19 20.4	2.471	3.383	8.5	17.6
5 11	12 25.57	−18 13.4	2.548	3.388	10.9	17.8

40705 1999 RG_{239} 4 2.9 195°.29 2°.3/31.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.67	+ 0 8.2	2.135	2.996	11.1	19.6
3 12	13 6.85	+ 0 40.6	2.062	2.995	7.9	19.4
3 22	12 59.31	+ 1 17.3	2.015	2.993	4.5	19.2
4 1	12 50.76	+ 1 53.5	1.996	2.991	2.3	19.0
4 11	12 42.05	+ 2 24.1	2.006	2.988	4.7	19.2
4 21	12 34.03	+ 2 45.2	2.045	2.986	8.2	19.4
5 1	12 27.45	+ 2 53.6	2.108	2.983	11.5	19.6
5 11	12 22.79	+ 2 48.1	2.194	2.980	14.2	19.8

508146 2015 FT_{76} 4 2.9 272°.69 3°.0/30.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.76	+ 2 22.3	2.283	3.150	10.3	21.4
3 12	13 4.77	+ 3 8.9	2.199	3.133	7.4	21.2
3 22	12 58.18	+ 3 58.9	2.140	3.117	4.4	21.0
4 1	12 50.58	+ 4 47.1	2.110	3.100	3.1	20.9
4 11	12 42.75	+ 5 28.1	2.109	3.083	5.3	21.0
4 21	12 35.46	+ 5 57.5	2.135	3.066	8.5	21.2
5 1	12 29.42	+ 6 12.3	2.187	3.049	11.6	21.3
5 11	12 25.14	+ 6 11.2	2.259	3.032	14.3	21.5

382179 2012 JQ_{45} 4 2.9 213°.08 4°.1/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.44	+ 7 20.1	2.567	3.428	9.5	21.9
3 12	13 6.49	+ 8 14.0	2.491	3.419	7.0	21.8
3 22	12 59.05	+ 9 7.3	2.442	3.409	4.8	21.6
4 1	12 50.73	+ 9 54.6	2.422	3.399	4.2	21.6
4 11	12 42.24	+10 31.2	2.432	3.388	6.1	21.7
4 21	12 34.31	+10 53.5	2.471	3.376	8.7	21.8
5 1	12 27.57	+10 59.8	2.534	3.363	11.3	21.9
5 11	12 22.50	+10 50.0	2.619	3.350	13.5	22.1

389920 2012 TT_{99} 4 2.9 122°.38 1°.6/ 5.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.64	−14 3.3	2.591	3.410	10.8	21.7
3 12	13 3.70	−13 22.9	2.519	3.424	8.0	21.5
3 22	12 57.45	−12 29.3	2.474	3.437	5.0	21.4
4 1	12 50.46	−11 25.6	2.457	3.450	2.1	21.2
4 11	12 43.42	−10 16.3	2.470	3.463	2.6	21.2
4 21	12 36.99	− 9 6.8	2.512	3.475	5.6	21.5
5 1	12 31.72	− 8 2.1	2.582	3.487	8.5	21.7
5 11	12 28.00	− 7 6.3	2.677	3.499	11.0	21.8

30255 2000 HK_{26} 4 2.9 43°.93 1°.1/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 10.64	− 5 36.1	1.449	2.319	14.9	18.9
3 12	13 5.90	− 4 47.5	1.392	2.328	10.6	18.6
3 22	12 58.96	− 3 46.2	1.357	2.337	5.8	18.4
4 1	12 50.72	− 2 38.8	1.349	2.347	1.2	18.1
4 11	12 42.39	− 1 34.0	1.366	2.357	4.8	18.3
4 21	12 35.11	− 0 39.7	1.410	2.368	9.5	18.6
5 1	12 29.78	− 0 1.5	1.476	2.378	13.7	18.9
5 11	12 26.94	+ 0 17.5	1.562	2.389	17.2	19.2

57295 2001 QX_{181} 4 2.9 138°.10 1°.8/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.68	−12 39.4	2.575	3.395	10.8	19.5
3 12	13 5.92	−12 37.4	2.499	3.403	8.1	19.3
3 22	12 58.72	−12 24.2	2.449	3.412	5.1	19.1
4 1	12 50.68	−12 1.6	2.427	3.420	2.3	19.0
4 11	12 42.52	−11 32.7	2.435	3.427	2.8	19.0
4 21	12 34.95	−11 1.4	2.472	3.434	5.7	19.2
5 1	12 28.60	−10 31.8	2.537	3.441	8.6	19.4
5 11	12 23.90	−10 7.4	2.626	3.448	11.2	19.6

223203 2003 BH_{35} 4 2.9 328°.18 2°.5/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 16.13	+ 0 42.1	1.488	2.360	14.5	19.4
3 12	13 10.05	+ 0 42.0	1.414	2.351	10.4	19.2
3 22	13 1.42	+ 0 45.2	1.362	2.342	5.9	18.9
4 1	12 51.14	+ 0 46.9	1.337	2.333	2.5	18.6
4 11	12 40.52	+ 0 42.0	1.338	2.325	5.6	18.8
4 21	12 30.84	+ 0 26.5	1.365	2.318	10.3	19.1
5 1	12 23.24	− 0 2.0	1.415	2.311	14.7	19.3
5 11	12 18.40	− 0 44.2	1.485	2.304	18.4	19.5

91481 1999 RV_{108} 4 2.9 120°.78 2°.4/ 5.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.65	−14 26.0	1.954	2.782	13.4	19.9
3 12	13 5.59	−14 7.2	1.878	2.786	10.1	19.6
3 22	12 58.69	−13 31.6	1.826	2.789	6.5	19.4
4 1	12 50.68	−12 41.8	1.800	2.793	3.0	19.2
4 11	12 42.50	−11 42.8	1.803	2.796	3.4	19.2
4 21	12 35.06	−10 41.0	1.833	2.799	7.0	19.5
5 1	12 29.17	− 9 43.1	1.889	2.802	10.6	19.7
5 11	12 25.35	− 8 54.7	1.968	2.805	13.8	19.9

420680 2012 KB_{23} 4 2.9 136°.44 5°.7/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.13	+ 9 40.4	1.962	2.830	11.6	21.0
3 12	13 7.89	+10 38.8	1.910	2.839	8.7	20.9
3 22	12 59.88	+11 33.3	1.883	2.847	6.3	20.7
4 1	12 50.86	+12 17.0	1.884	2.855	5.9	20.7
4 11	12 41.83	+12 44.2	1.913	2.863	7.8	20.8
4 21	12 33.68	+12 51.8	1.968	2.870	10.7	21.0
5 1	12 27.17	+12 39.1	2.046	2.876	13.5	21.2
5 11	12 22.75	+12 7.6	2.143	2.883	15.9	21.4

464892 2005 PJ_{21} 4 2.9 141°.51 1°.4/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.76	− 6 54.6	2.234	3.081	11.3	21.2
3 12	13 5.34	− 4 57.2	2.166	3.093	7.9	21.0
3 22	12 58.41	− 2 47.3	2.127	3.105	4.2	20.8
4 1	12 50.63	− 0 32.5	2.119	3.116	1.4	20.6
4 11	12 42.81	+ 1 38.0	2.143	3.127	4.3	20.8
4 21	12 35.72	+ 3 36.2	2.198	3.137	7.8	21.0
5 1	12 29.97	+ 5 15.8	2.280	3.146	11.0	21.3
5 11	12 26.01	+ 6 33.9	2.385	3.154	13.7	21.5

519396 2011 SA_{112} 4 2.9 216°.31 4°.4/ 9.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.08	−24 41.0	2.903	3.660	11.3	22.3
3 12	13 4.11	−24 28.6	2.803	3.652	9.2	22.2
3 22	12 57.75	−23 58.7	2.725	3.644	7.0	22.0
4 1	12 50.54	−23 11.6	2.674	3.635	5.1	21.9
4 11	12 43.14	−22 10.1	2.653	3.625	4.4	21.8
4 21	12 36.21	−20 58.2	2.660	3.616	5.7	21.9
5 1	12 30.36	−19 41.6	2.695	3.605	8.0	22.0
5 11	12 26.05	−18 25.9	2.756	3.595	10.3	22.1

96377 1998 AU_{6} 4 2.9 359°.73 12°.1/23.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.10	+17 15.2	1.131	2.023	16.4	18.5
3 12	13 6.07	+19 11.0	1.091	2.021	13.6	18.3
3 22	12 59.25	+20 52.0	1.072	2.019	12.1	18.2
4 1	12 50.79	+22 3.4	1.075	2.018	12.8	18.2
4 11	12 42.23	+22 35.0	1.099	2.019	15.3	18.4
4 21	12 35.02	+22 24.0	1.141	2.020	18.5	18.6
5 1	12 30.24	+21 33.4	1.201	2.023	21.5	18.8
5 11	12 28.45	+20 10.2	1.273	2.026	24.2	19.0

126942 2002 FP 4 2.9 228°.96 1°.3/ 4.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.07	−11 45.1	1.927	2.767	13.1	19.7
3 12	13 5.22	−11 15.0	1.848	2.765	9.7	19.5
3 22	12 58.51	−10 29.5	1.793	2.764	5.9	19.2
4 1	12 50.67	− 9 31.8	1.765	2.762	2.0	19.0
4 11	12 42.63	− 8 27.9	1.765	2.760	3.2	19.1
4 21	12 35.30	− 7 24.3	1.793	2.758	7.3	19.3
5 1	12 29.50	− 6 27.6	1.847	2.756	11.1	19.5
5 11	12 25.76	− 5 42.7	1.922	2.754	14.3	19.7

253230 2002 YT_{19} 4 2.9 63°.32 2°.9/ 5.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 14.32	−15 18.9	1.507	2.341	16.4	20.7
3 12	13 8.34	−14 58.9	1.463	2.372	12.3	20.5
3 22	13 0.19	−14 18.1	1.440	2.403	7.8	20.4
4 1	12 50.92	−13 20.2	1.443	2.434	3.7	20.2
4 11	12 41.77	−12 12.7	1.472	2.465	4.0	20.3
4 21	12 33.87	−11 3.9	1.528	2.496	7.9	20.6
5 1	12 28.04	−10 1.8	1.609	2.527	11.9	20.9
5 11	12 24.74	− 9 12.4	1.712	2.557	15.2	21.1

383885 2008 RN_{139} 4 2.9 227°.86 0°.3/ 2.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.33	− 7 12.4	2.221	3.068	11.3	22.1
3 12	13 5.22	− 6 28.3	2.134	3.059	8.2	21.8
3 22	12 58.46	− 5 33.0	2.073	3.049	4.6	21.6
4 1	12 50.67	− 4 30.7	2.040	3.039	0.7	21.3
4 11	12 42.65	− 3 27.0	2.037	3.028	3.4	21.5
4 21	12 35.21	− 2 27.8	2.062	3.017	7.2	21.7
5 1	12 29.08	− 1 38.2	2.113	3.005	10.7	21.9
5 11	12 24.78	− 1 1.8	2.187	2.993	13.7	22.1

293356 2007 DV_{111} 4 2.9 233°.45 0°.0/ 2.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 16.06	− 6 45.8	1.509	2.366	15.1	20.9
3 12	13 10.03	− 6 27.6	1.430	2.359	11.0	20.6
3 22	13 1.45	− 5 56.1	1.374	2.351	6.3	20.3
4 1	12 51.18	− 5 15.6	1.343	2.342	1.0	19.9
4 11	12 40.52	− 4 32.6	1.340	2.333	4.4	20.2
4 21	12 30.76	− 3 54.2	1.363	2.324	9.5	20.4
5 1	12 23.05	− 3 26.7	1.410	2.314	14.2	20.7
5 11	12 18.12	− 3 14.3	1.477	2.304	18.1	20.9

433624 2013 YG_{116} 4 2.9 18°.36 7°.4/24.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.44	+15 10.0	2.085	2.957	10.9	21.0
3 12	13 3.86	+16 42.2	2.037	2.958	8.7	20.9
3 22	12 57.66	+18 6.9	2.015	2.959	7.5	20.8
4 1	12 50.54	+19 16.3	2.019	2.961	7.9	20.8
4 11	12 43.34	+20 4.2	2.050	2.962	9.6	20.9
4 21	12 36.86	+20 27.5	2.104	2.964	12.0	21.1
5 1	12 31.81	+20 25.9	2.180	2.966	14.2	21.3
5 11	12 28.61	+20 1.5	2.273	2.968	16.2	21.4

381934 2010 CA_{156} 4 2.9 117°.29 1°.5/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.05	− 3 16.5	2.054	2.915	11.5	21.3
3 12	13 5.01	− 2 31.8	1.986	2.919	8.2	21.1
3 22	12 58.31	− 1 39.6	1.944	2.923	4.5	20.9
4 1	12 50.65	− 0 44.7	1.930	2.927	1.5	20.7
4 11	12 42.87	+ 0 6.7	1.944	2.931	4.2	20.9
4 21	12 35.81	+ 0 49.7	1.986	2.935	7.9	21.1
5 1	12 30.17	+ 1 20.0	2.053	2.939	11.2	21.3
5 11	12 26.43	+ 1 35.6	2.142	2.943	14.1	21.5

66873 1999 VJ_{50} 4 2.9 137°.34 0°.6/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.97	− 5 0.8	2.194	3.044	11.3	19.8
3 12	13 6.28	− 4 32.5	2.126	3.053	8.1	19.6
3 22	12 58.98	− 3 56.2	2.083	3.060	4.4	19.4
4 1	12 50.76	− 3 16.0	2.069	3.068	0.8	19.1
4 11	12 42.44	− 2 36.6	2.084	3.075	3.5	19.4
4 21	12 34.83	− 2 2.7	2.128	3.082	7.1	19.6
5 1	12 28.62	− 1 38.0	2.198	3.088	10.4	19.8
5 11	12 24.26	− 1 25.0	2.291	3.094	13.2	20.0

202913 1997 NV_{5} 4 2.9 174°.71 2°.2/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 15.10	−13 48.5	1.893	2.718	13.9	21.0
3 12	13 8.86	−13 28.9	1.815	2.722	10.5	20.7
3 22	13 0.58	−12 52.2	1.760	2.724	6.6	20.5
4 1	12 51.03	−12 1.0	1.733	2.726	2.9	20.3
4 11	12 41.28	−11 0.6	1.734	2.727	3.5	20.3
4 21	12 32.34	− 9 57.7	1.764	2.728	7.4	20.5
5 1	12 25.11	− 8 59.2	1.820	2.727	11.3	20.8
5 11	12 20.17	− 8 11.1	1.898	2.726	14.6	21.0

215706 2004 AP_{10} 4 2.9 133°.13 5°.5/27.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.01	+ 8 36.8	2.097	2.965	11.0	20.1
3 12	13 6.98	+10 12.4	2.053	2.982	8.2	19.9
3 22	12 59.33	+11 45.3	2.036	2.999	6.0	19.8
4 1	12 50.81	+13 7.6	2.047	3.014	5.8	19.8
4 11	12 42.30	+14 12.5	2.088	3.029	7.8	20.0
4 21	12 34.63	+14 56.1	2.154	3.044	10.5	20.2
5 1	12 28.48	+15 17.1	2.245	3.057	13.1	20.3
5 11	12 24.26	+15 16.7	2.354	3.069	15.2	20.5

378723 2008 QH_{21} 4 2.9 138°.26 2°.3/ 5.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.98	−15 50.0	2.438	3.248	11.6	21.7
3 12	13 5.48	−15 24.8	2.364	3.260	8.9	21.5
3 22	12 58.51	−14 44.8	2.315	3.272	5.8	21.4
4 1	12 50.68	−13 52.3	2.294	3.283	2.9	21.2
4 11	12 42.78	−12 51.6	2.302	3.294	3.0	21.2
4 21	12 35.53	−11 48.1	2.340	3.304	5.9	21.4
5 1	12 29.57	−10 47.3	2.406	3.314	8.9	21.6
5 11	12 25.33	− 9 53.9	2.495	3.323	11.5	21.8

307428 2002 TX_{287} 4 2.9 196°.51 0°.9/ 3.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 14.48	− 9 27.3	2.021	2.859	12.7	20.6
3 12	13 8.33	− 9 14.9	1.940	2.857	9.3	20.3
3 22	13 0.26	− 8 50.4	1.883	2.854	5.5	20.1
4 1	12 50.99	− 8 16.6	1.853	2.851	1.5	19.8
4 11	12 41.47	− 7 38.2	1.853	2.847	3.2	19.9
4 21	12 32.67	− 7 0.2	1.881	2.842	7.3	20.2
5 1	12 25.42	− 6 27.9	1.936	2.837	11.0	20.4
5 11	12 20.29	− 6 5.3	2.013	2.832	14.2	20.6

505588 2014 CX 4 2.9 14°.71 4°.8/ 7.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.58	−20 9.0	2.087	2.885	13.8	20.8
3 12	13 6.30	−20 33.2	2.006	2.886	11.0	20.6
3 22	12 59.15	−20 39.3	1.948	2.887	8.0	20.4
4 1	12 50.81	−20 27.3	1.915	2.889	5.5	20.3
4 11	12 42.21	−19 59.6	1.910	2.891	5.0	20.2
4 21	12 34.30	−19 20.7	1.932	2.893	7.1	20.4
5 1	12 27.89	−18 36.7	1.980	2.895	10.1	20.5
5 11	12 23.56	−17 54.0	2.050	2.897	13.0	20.7

333223 2012 HY_{39} 4 2.9 345°.33 2°.7/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.86	− 4 41.7	1.278	2.165	15.3	19.3
3 12	13 2.13	− 3 5.8	1.210	2.155	10.9	19.0
3 22	12 57.05	− 1 11.8	1.164	2.147	5.9	18.7
4 1	12 50.47	+ 0 49.7	1.143	2.140	2.7	18.4
4 11	12 43.62	+ 2 45.3	1.148	2.134	6.6	18.6
4 21	12 37.70	+ 4 23.0	1.176	2.128	11.6	18.9
5 1	12 33.75	+ 5 34.1	1.226	2.124	16.2	19.2
5 11	12 32.38	+ 6 15.2	1.293	2.121	20.1	19.4

460214 2014 QY_{172} 4 2.9 89°.79 2°.2/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.12	− 3 20.9	1.500	2.371	14.4	21.1
3 12	13 6.90	− 2 15.0	1.444	2.382	10.2	20.8
3 22	12 59.50	− 0 58.6	1.412	2.392	5.6	20.6
4 1	12 50.85	+ 0 20.3	1.406	2.403	2.2	20.4
4 11	12 42.15	+ 1 32.7	1.428	2.414	5.5	20.6
4 21	12 34.49	+ 2 30.8	1.475	2.424	10.0	20.9
5 1	12 28.79	+ 3 9.6	1.545	2.435	14.0	21.2
5 11	12 25.54	+ 3 27.1	1.635	2.445	17.4	21.4

410484 2008 DG_{31} 4 2.9 125°.61 0°.9/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.47	− 6 3.8	1.781	2.638	13.2	21.9
3 12	13 6.91	− 5 11.9	1.719	2.648	9.4	21.7
3 22	12 59.43	− 4 8.5	1.681	2.659	5.2	21.5
4 1	12 50.84	− 2 59.4	1.670	2.669	1.0	21.2
4 11	12 42.18	− 1 52.1	1.689	2.679	4.1	21.5
4 21	12 34.42	− 0 53.2	1.734	2.688	8.4	21.7
5 1	12 28.35	− 0 8.1	1.804	2.697	12.2	22.0
5 11	12 24.49	+ 0 20.2	1.896	2.705	15.3	22.2

518968 2010 HZ_{47} 4 2.9 243°.69 5°.4/26.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.42	+10 22.4	2.426	3.298	9.6	21.1
3 12	13 2.99	+11 48.9	2.364	3.293	7.3	21.0
3 22	12 57.15	+13 13.1	2.329	3.288	5.6	20.9
4 1	12 50.47	+14 28.2	2.322	3.283	5.7	20.9
4 11	12 43.68	+15 28.4	2.344	3.278	7.5	21.0
4 21	12 37.45	+16 9.8	2.391	3.273	9.9	21.1
5 1	12 32.39	+16 30.6	2.462	3.267	12.3	21.3
5 11	12 28.93	+16 31.4	2.552	3.262	14.3	21.4

292173 2006 SN_{13} 4 2.9 228°.50 0°.9/ 1.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.41	− 4 41.1	2.770	3.618	9.3	21.9
3 12	13 3.58	− 3 50.3	2.680	3.607	6.6	21.7
3 22	12 57.46	− 2 51.8	2.617	3.594	3.6	21.5
4 1	12 50.53	− 1 49.5	2.583	3.581	1.0	21.3
4 11	12 43.43	− 0 48.1	2.580	3.568	3.2	21.4
4 21	12 36.77	+ 0 8.0	2.607	3.554	6.3	21.6
5 1	12 31.13	+ 0 54.6	2.661	3.539	9.2	21.8
5 11	12 26.93	+ 1 29.2	2.738	3.525	11.7	21.9

119423 2001 TH_{98} 4 2.9 219°.89 1°.0/ 3.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.12	−10 25.6	2.033	2.871	12.6	20.9
3 12	13 6.67	−10 0.4	1.947	2.864	9.3	20.6
3 22	12 59.35	− 9 21.6	1.886	2.857	5.5	20.4
4 1	12 50.85	− 8 32.3	1.852	2.850	1.6	20.1
4 11	12 42.09	− 7 37.6	1.848	2.842	3.2	20.2
4 21	12 34.00	− 6 43.6	1.871	2.833	7.2	20.5
5 1	12 27.39	− 5 55.9	1.921	2.825	11.0	20.7
5 11	12 22.82	− 5 19.4	1.993	2.815	14.2	20.9

113000 2002 RL_{38} 4 2.9 316°.99 0°.5/ 3.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.78	− 9 39.6	1.265	2.136	16.5	19.1
3 12	13 4.58	− 9 0.2	1.174	2.109	12.3	18.8
3 22	12 58.66	− 7 58.2	1.104	2.082	7.2	18.4
4 1	12 50.79	− 6 38.2	1.058	2.056	1.5	18.0
4 11	12 42.24	− 5 9.3	1.036	2.031	4.7	18.1
4 21	12 34.45	− 3 42.9	1.038	2.006	10.7	18.4
5 1	12 28.75	− 2 30.5	1.061	1.982	16.2	18.6
5 11	12 26.03	− 1 39.9	1.102	1.960	20.9	18.8

381452 2008 RE_{25} 4 2.9 168°.95 0°.1/ 3.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.90	− 8 40.9	2.485	3.324	10.5	21.9
3 12	13 4.69	− 7 52.3	2.409	3.328	7.6	21.7
3 22	12 58.07	− 6 53.1	2.358	3.332	4.3	21.5
4 1	12 50.63	− 5 47.0	2.337	3.335	0.7	21.2
4 11	12 43.08	− 4 39.4	2.346	3.338	2.9	21.4
4 21	12 36.11	− 3 35.4	2.384	3.340	6.3	21.6
5 1	12 30.35	− 2 39.9	2.450	3.341	9.4	21.8
5 11	12 26.21	− 1 56.2	2.539	3.342	12.1	22.0

387951 2005 EF_{240} 4 2.9 83°.89 1°.0/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.64	− 4 54.1	2.027	2.886	11.8	21.3
3 12	13 4.75	− 4 12.0	1.959	2.890	8.4	21.0
3 22	12 58.20	− 3 20.8	1.915	2.894	4.6	20.8
4 1	12 50.66	− 2 25.5	1.899	2.898	1.0	20.6
4 11	12 43.00	− 1 31.8	1.912	2.902	3.8	20.8
4 21	12 36.06	− 0 45.3	1.952	2.906	7.7	21.0
5 1	12 30.54	− 0 10.4	2.018	2.910	11.1	21.2
5 11	12 26.94	+ 0 10.2	2.105	2.913	14.0	21.4

39254 2000 YF_{112} 4 2.9 268°.14 5°.3/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.31	+ 5 39.3	1.689	2.562	12.9	18.4
3 12	13 8.64	+ 6 44.1	1.604	2.540	9.5	18.2
3 22	13 0.65	+ 7 51.6	1.545	2.517	6.3	17.9
4 1	12 51.10	+ 8 53.5	1.512	2.494	5.4	17.8
4 11	12 41.10	+ 9 41.3	1.506	2.471	8.1	17.9
4 21	12 31.82	+10 8.7	1.526	2.447	12.0	18.1
5 1	12 24.31	+10 12.7	1.568	2.422	15.8	18.3
5 11	12 19.28	+ 9 53.0	1.629	2.397	19.1	18.4

384937 2012 TG_{102} 4 2.9 287°.71 0°.7/ 3.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.83	− 8 26.3	1.997	2.843	12.4	21.3
3 12	13 6.50	− 8 19.7	1.912	2.834	9.1	21.1
3 22	12 59.28	− 8 2.1	1.851	2.824	5.3	20.8
4 1	12 50.86	− 7 36.2	1.817	2.815	1.3	20.5
4 11	12 42.14	− 7 6.3	1.812	2.806	3.2	20.7
4 21	12 34.08	− 6 37.3	1.835	2.797	7.3	20.9
5 1	12 27.50	− 6 13.9	1.883	2.788	11.1	21.1
5 11	12 22.98	− 6 0.1	1.953	2.779	14.3	21.3

292055 2006 RE_{6} 4 2.9 147°.28 0°.2/ 2.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.37	− 8 19.6	2.296	3.144	11.0	20.3
3 12	13 3.01	− 7 21.9	2.220	3.145	7.9	20.1
3 22	12 57.18	− 6 12.5	2.170	3.146	4.4	19.9
4 1	12 50.50	− 4 56.1	2.149	3.148	0.7	19.6
4 11	12 43.70	− 3 38.8	2.157	3.149	3.1	19.8
4 21	12 37.50	− 2 26.4	2.193	3.150	6.7	20.0
5 1	12 32.53	− 1 24.3	2.257	3.151	10.0	20.2
5 11	12 29.22	− 0 36.0	2.342	3.152	12.8	20.4

431263 2006 UV_{44} 4 2.9 313°.42 9°.6/24.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 17.56	+25 57.6	2.227	3.059	11.9	20.5
3 12	13 10.30	+26 40.7	2.176	3.054	10.4	20.4
3 22	13 1.22	+27 7.4	2.150	3.049	9.6	20.3
4 1	12 51.16	+27 11.2	2.149	3.044	10.0	20.3
4 11	12 41.10	+26 48.5	2.173	3.039	11.2	20.4
4 21	12 31.99	+25 59.4	2.221	3.035	13.0	20.5
5 1	12 24.58	+24 46.2	2.291	3.030	14.9	20.6
5 11	12 19.34	+23 13.4	2.378	3.026	16.6	20.8

34096 2000 PC_{12} 4 2.9 162°.23 6°.0/25.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.72	+14 28.5	2.589	3.453	9.3	19.2
3 12	13 3.80	+15 48.0	2.538	3.456	7.3	19.0
3 22	12 57.56	+17 1.7	2.514	3.459	6.1	19.0
4 1	12 50.56	+18 3.4	2.518	3.462	6.4	19.0
4 11	12 43.50	+18 48.4	2.550	3.464	7.9	19.1
4 21	12 37.03	+19 13.8	2.608	3.467	10.0	19.2
5 1	12 31.73	+19 19.1	2.688	3.469	12.0	19.4
5 11	12 27.98	+19 5.4	2.787	3.470	13.7	19.5

102191 1999 SH_{4} 4 2.9 283°.30 1°.6/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.76	−11 14.1	1.570	2.418	15.1	19.6
3 12	13 7.79	−10 58.6	1.475	2.396	11.4	19.3
3 22	13 0.31	−10 25.2	1.401	2.373	6.9	19.0
4 1	12 51.07	− 9 36.2	1.353	2.350	2.4	18.7
4 11	12 41.23	− 8 37.5	1.332	2.327	4.0	18.7
4 21	12 32.06	− 7 37.0	1.337	2.303	9.0	18.9
5 1	12 24.73	− 6 42.9	1.366	2.280	13.8	19.2
5 11	12 20.08	− 6 2.0	1.415	2.256	18.0	19.4

465670 2009 SD_{80} 4 2.9 241°.85 0°.8/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.17	− 5 58.2	1.912	2.768	12.5	22.7
3 12	13 6.08	− 5 9.1	1.828	2.757	9.0	22.4
3 22	12 59.07	− 4 8.1	1.768	2.746	5.0	22.1
4 1	12 50.83	− 3 0.1	1.736	2.735	1.0	21.8
4 11	12 42.32	− 1 52.1	1.733	2.723	4.1	22.0
4 21	12 34.47	− 0 50.8	1.757	2.711	8.3	22.3
5 1	12 28.15	− 0 2.0	1.806	2.698	12.2	22.5
5 11	12 23.93	+ 0 30.4	1.877	2.685	15.5	22.7

109835 2001 RJ_{123} 4 2.9 267°.27 0°.9/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.09	− 4 43.8	2.176	3.033	11.1	19.6
3 12	13 4.36	− 4 3.2	2.095	3.026	8.0	19.4
3 22	12 58.00	− 3 13.8	2.040	3.018	4.4	19.1
4 1	12 50.65	− 2 20.0	2.012	3.011	1.0	18.9
4 11	12 43.11	− 1 27.2	2.014	3.003	3.7	19.1
4 21	12 36.16	− 0 40.9	2.043	2.995	7.4	19.3
5 1	12 30.51	− 0 5.3	2.098	2.988	10.8	19.5
5 11	12 26.67	+ 0 16.7	2.175	2.980	13.8	19.6

32733 1976 SB 4 2.9 230°.55 1°.8/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.85	− 3 6.0	2.210	3.067	11.0	19.7
3 12	13 5.63	− 2 1.1	2.123	3.054	7.8	19.5
3 22	12 58.74	− 0 47.1	2.062	3.040	4.3	19.3
4 1	12 50.78	+ 0 30.5	2.030	3.026	1.8	19.1
4 11	12 42.58	+ 1 45.0	2.028	3.011	4.5	19.2
4 21	12 34.94	+ 2 50.4	2.054	2.996	8.1	19.4
5 1	12 28.62	+ 3 41.7	2.106	2.980	11.5	19.6
5 11	12 24.13	+ 4 16.0	2.180	2.963	14.4	19.8

271819 2004 TZ_{129} 4 2.9 178°.07 2°.8/30.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.20	+ 0 19.3	2.192	3.056	10.8	21.4
3 12	13 5.06	+ 1 27.7	2.123	3.057	7.6	21.2
3 22	12 58.35	+ 2 41.3	2.081	3.058	4.4	21.0
4 1	12 50.71	+ 3 54.1	2.067	3.059	2.8	20.9
4 11	12 42.95	+ 4 59.6	2.083	3.059	5.2	21.1
4 21	12 35.85	+ 5 52.5	2.127	3.059	8.5	21.3
5 1	12 30.09	+ 6 29.2	2.196	3.058	11.5	21.4
5 11	12 26.12	+ 6 48.4	2.286	3.057	14.2	21.6

211920 2004 TL_{73} 4 2.9 218°.71 0°.3/ 2.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.97	− 6 28.3	1.688	2.542	13.9	21.2
3 12	13 9.02	− 5 59.5	1.608	2.536	10.1	20.9
3 22	13 0.81	− 5 18.2	1.552	2.529	5.7	20.6
4 1	12 51.14	− 4 29.1	1.523	2.522	0.9	20.3
4 11	12 41.15	− 3 38.7	1.521	2.514	4.1	20.5
4 21	12 31.98	− 2 53.7	1.547	2.505	8.9	20.7
5 1	12 24.64	− 2 19.9	1.598	2.496	13.1	21.0
5 11	12 19.76	− 2 1.2	1.669	2.487	16.7	21.2

389210 2009 DN_{32} 4 2.9 350°.44 1°.0/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.45	− 4 39.4	1.935	2.798	12.0	21.0
3 12	13 4.03	− 4 2.5	1.862	2.795	8.6	20.8
3 22	12 57.87	− 3 16.3	1.814	2.793	4.7	20.5
4 1	12 50.64	− 2 25.6	1.792	2.791	1.1	20.3
4 11	12 43.24	− 1 36.4	1.799	2.789	4.0	20.5
4 21	12 36.54	− 0 54.3	1.832	2.787	7.9	20.7
5 1	12 31.28	− 0 23.9	1.890	2.786	11.5	20.9
5 11	12 27.98	− 0 7.9	1.970	2.785	14.6	21.1

412918 2014 QD_{140} 4 2.9 140°.52 0°.9/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 15.71	− 8 49.2	1.621	2.470	14.7	21.3
3 12	13 9.52	− 8 40.6	1.552	2.475	10.8	21.1
3 22	13 1.05	− 8 18.4	1.506	2.480	6.3	20.8
4 1	12 51.17	− 7 46.0	1.486	2.484	1.6	20.5
4 11	12 41.09	− 7 9.1	1.494	2.489	3.8	20.7
4 21	12 31.98	− 6 33.7	1.529	2.493	8.4	21.0
5 1	12 24.82	− 6 5.7	1.589	2.496	12.6	21.2
5 11	12 20.20	− 5 49.6	1.670	2.500	16.2	21.5

412025 2013 CE_{37} 4 2.9 352°.60 4°.1/ 5.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.72	−15 37.2	1.095	1.955	19.4	20.3
3 12	13 5.40	−15 37.7	1.027	1.950	15.0	20.0
3 22	12 59.13	−15 10.3	0.977	1.945	9.9	19.7
4 1	12 50.89	−14 16.9	0.950	1.942	5.1	19.5
4 11	12 42.22	−13 5.0	0.945	1.939	5.2	19.4
4 21	12 34.70	−11 45.7	0.963	1.938	10.1	19.7
5 1	12 29.65	−10 31.5	1.001	1.938	15.3	20.0
5 11	12 27.84	− 9 32.4	1.058	1.939	19.9	20.3

16796 Shinji 4 2.9 105°.74 1°.4/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.84	− 3 41.2	2.441	3.298	10.1	18.5
3 12	13 3.20	− 2 40.8	2.379	3.310	7.1	18.3
3 22	12 57.24	− 1 33.4	2.342	3.321	3.8	18.1
4 1	12 50.53	− 0 24.1	2.336	3.333	1.4	17.9
4 11	12 43.78	+ 0 41.8	2.358	3.344	3.7	18.1
4 21	12 37.63	+ 1 39.2	2.410	3.355	6.9	18.4
5 1	12 32.66	+ 2 24.5	2.487	3.365	9.8	18.6
5 11	12 29.25	+ 2 55.5	2.587	3.376	12.3	18.7

313088 2000 UQ_{21} 4 2.9 211°.01 0°.6/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.56	− 6 34.1	2.107	2.953	11.9	22.4
3 12	13 7.64	− 5 43.0	2.020	2.944	8.6	22.2
3 22	12 59.89	− 4 40.3	1.959	2.935	4.8	21.9
4 1	12 50.99	− 3 30.6	1.926	2.925	0.8	21.6
4 11	12 41.83	− 2 20.2	1.924	2.914	3.7	21.8
4 21	12 33.31	− 1 15.7	1.950	2.902	7.8	22.0
5 1	12 26.23	− 0 22.5	2.003	2.889	11.5	22.2
5 11	12 21.17	+ 0 15.7	2.078	2.875	14.6	22.4

520901 2014 WU_{527} 4 2.9 106°.63 0°.7/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 13.85	− 4 58.7	1.998	2.849	12.2	21.6
3 12	13 7.69	− 4 31.3	1.940	2.867	8.7	21.4
3 22	12 59.80	− 3 55.7	1.907	2.884	4.8	21.2
4 1	12 50.95	− 3 16.1	1.902	2.901	0.9	21.0
4 11	12 42.09	− 2 37.8	1.927	2.917	3.7	21.2
4 21	12 34.09	− 2 5.6	1.979	2.933	7.5	21.5
5 1	12 27.66	− 1 43.3	2.058	2.949	11.0	21.7
5 11	12 23.28	− 1 33.4	2.158	2.964	13.8	21.9

484225 2007 DM_{115} 4 2.9 259°.84 4°.2/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.75	−28 48.0	4.621	5.328	8.0	21.1
3 12	13 2.82	−29 15.6	4.519	5.322	6.8	21.0
3 22	12 56.96	−29 32.0	4.440	5.316	5.6	20.9
4 1	12 50.50	−29 36.9	4.389	5.311	4.6	20.8
4 11	12 43.87	−29 30.9	4.366	5.305	4.2	20.8
4 21	12 37.50	−29 15.4	4.372	5.299	4.6	20.8
5 1	12 31.79	−28 53.0	4.406	5.293	5.7	20.9
5 11	12 27.07	−28 26.4	4.466	5.287	6.9	21.0

472337 2015 AO_{239} 4 2.9 167°.11 0°.7/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.83	− 6 22.3	1.970	2.826	12.2	21.2
3 12	13 4.97	− 5 31.0	1.898	2.827	8.7	20.9
3 22	12 58.37	− 4 28.4	1.850	2.828	4.8	20.7
4 1	12 50.73	− 3 19.6	1.831	2.829	0.9	20.4
4 11	12 42.94	− 2 11.5	1.840	2.830	3.8	20.6
4 21	12 35.87	− 1 10.2	1.876	2.831	7.8	20.9
5 1	12 30.26	− 0 21.3	1.938	2.831	11.4	21.1
5 11	12 26.63	+ 0 12.0	2.022	2.832	14.5	21.3

372778 2010 DS_{60} 4 2.9 136°.45 1°.1/ 1.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.28	− 5 0.7	1.978	2.836	12.0	21.3
3 12	13 5.25	− 4 6.5	1.910	2.841	8.5	21.1
3 22	12 58.51	− 3 2.4	1.867	2.846	4.7	20.8
4 1	12 50.75	− 1 53.9	1.853	2.851	1.2	20.6
4 11	12 42.89	− 0 47.8	1.867	2.856	4.1	20.8
4 21	12 35.78	+ 0 9.9	1.909	2.860	8.0	21.0
5 1	12 30.14	+ 0 54.3	1.976	2.864	11.5	21.3
5 11	12 26.46	+ 1 22.6	2.065	2.868	14.4	21.5

151804 2003 FV_{58} 4 2.9 11°.10 3°.1/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 15.09	+ 1 46.9	1.319	2.199	15.4	19.7
3 12	13 9.37	+ 1 51.0	1.260	2.201	11.0	19.4
3 22	13 1.06	+ 1 57.5	1.224	2.204	6.3	19.1
4 1	12 51.19	+ 2 0.8	1.213	2.208	3.1	19.0
4 11	12 41.16	+ 1 55.3	1.227	2.213	6.2	19.2
4 21	12 32.33	+ 1 37.0	1.266	2.219	10.9	19.4
5 1	12 25.76	+ 1 4.2	1.327	2.226	15.2	19.7
5 11	12 22.05	+ 0 16.8	1.407	2.234	18.8	19.9

300842 2007 XA_{50} 4 2.9 33°.02 3°.3/ 6.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.34	−16 45.1	1.994	2.814	13.5	20.6
3 12	13 4.66	−16 41.8	1.922	2.821	10.4	20.4
3 22	12 58.21	−16 21.0	1.873	2.829	7.0	20.2
4 1	12 50.71	−15 44.6	1.850	2.837	4.0	20.1
4 11	12 43.07	−14 56.7	1.855	2.845	3.8	20.1
4 21	12 36.16	−14 3.0	1.887	2.854	6.8	20.3
5 1	12 30.74	−13 10.1	1.945	2.863	10.1	20.5
5 11	12 27.33	−12 23.5	2.025	2.872	13.1	20.7

118748 2000 QE_{164} 4 2.9 323°.22 4°.9/28.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.57	+ 1 45.7	1.673	2.554	12.6	19.4
3 12	13 3.60	+ 4 2.4	1.610	2.552	9.0	19.2
3 22	12 57.70	+ 6 27.2	1.573	2.550	5.7	19.0
4 1	12 50.63	+ 8 48.5	1.565	2.547	5.3	18.9
4 11	12 43.40	+10 54.4	1.585	2.545	8.2	19.1
4 21	12 36.95	+12 35.7	1.631	2.543	11.8	19.3
5 1	12 32.13	+13 47.4	1.699	2.542	15.3	19.5
5 11	12 29.47	+14 29.0	1.785	2.540	18.1	19.7

73814 1995 VO_{8} 4 2.9 295°.64 3°.7/31.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.78	+ 1 50.4	1.505	2.381	14.1	19.7
3 12	13 8.36	+ 2 29.7	1.432	2.371	10.1	19.4
3 22	13 0.52	+ 3 13.7	1.382	2.360	6.0	19.1
4 1	12 51.12	+ 3 55.4	1.357	2.350	3.7	19.0
4 11	12 41.39	+ 4 27.1	1.359	2.339	6.7	19.1
4 21	12 32.56	+ 4 43.0	1.386	2.329	11.1	19.3
5 1	12 25.69	+ 4 39.7	1.436	2.319	15.3	19.6
5 11	12 21.47	+ 4 16.6	1.504	2.309	18.8	19.8

59890 1999 RG_{133} 4 2.9 15°.44 2°.5/ 5.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.91	−15 39.2	2.241	3.061	12.2	18.0
3 12	13 3.50	−15 15.9	2.160	3.062	9.3	17.8
3 22	12 57.53	−14 36.7	2.104	3.063	6.1	17.6
4 1	12 50.61	−13 43.8	2.074	3.064	3.1	17.4
4 11	12 43.54	−12 42.0	2.073	3.066	3.2	17.4
4 21	12 37.08	−11 36.8	2.100	3.067	6.2	17.6
5 1	12 31.92	−10 34.3	2.154	3.068	9.4	17.8
5 11	12 28.52	− 9 39.7	2.231	3.070	12.3	18.0

498121 2007 SA_{17} 4 2.9 161°.65 0°.1/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.83	− 7 49.4	2.939	3.774	9.2	23.2
3 12	13 4.47	− 7 15.2	2.863	3.781	6.6	23.1
3 22	12 57.91	− 6 32.9	2.814	3.788	3.7	22.9
4 1	12 50.67	− 5 45.6	2.795	3.794	0.6	22.6
4 11	12 43.34	− 4 57.1	2.807	3.799	2.5	22.8
4 21	12 36.52	− 4 11.3	2.849	3.804	5.4	23.0
5 1	12 30.72	− 3 31.7	2.919	3.808	8.1	23.2
5 11	12 26.33	− 3 0.9	3.013	3.812	10.5	23.4

427529 2002 OY_{33} 4 2.9 276°.67 4°.6/ 7.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.71	−20 13.5	2.157	2.952	13.5	21.2
3 12	13 6.56	−20 22.9	2.050	2.929	10.8	21.0
3 22	12 59.44	−20 13.8	1.966	2.906	7.9	20.7
4 1	12 50.97	−19 45.7	1.908	2.883	5.3	20.5
4 11	12 42.02	−19 1.1	1.877	2.860	4.8	20.5
4 21	12 33.57	−18 4.8	1.874	2.836	7.2	20.6
5 1	12 26.52	−17 3.4	1.897	2.812	10.5	20.7
5 11	12 21.53	−16 4.0	1.944	2.788	13.7	20.9

414425 2009 DT_{18} 4 2.9 340°.81 3°.0/31.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.23	− 2 59.4	1.340	2.221	15.1	21.0
3 12	13 5.20	− 1 35.5	1.275	2.218	10.7	20.7
3 22	12 58.77	+ 0 2.1	1.233	2.215	5.9	20.4
4 1	12 50.85	+ 1 43.6	1.216	2.212	3.0	20.3
4 11	12 42.69	+ 3 17.3	1.225	2.210	6.6	20.5
4 21	12 35.52	+ 4 33.2	1.259	2.207	11.4	20.7
5 1	12 30.38	+ 5 24.5	1.314	2.206	15.9	21.0
5 11	12 27.87	+ 5 48.9	1.388	2.204	19.6	21.2

293349 2007 DS_{106} 4 2.9 91°.05 1°.8/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.25	− 3 58.3	1.785	2.649	12.9	21.0
3 12	13 5.98	− 2 50.8	1.733	2.667	9.1	20.8
3 22	12 58.90	− 1 34.1	1.705	2.684	4.9	20.6
4 1	12 50.84	− 0 15.0	1.705	2.702	1.8	20.4
4 11	12 42.79	+ 0 58.6	1.733	2.719	4.7	20.7
4 21	12 35.64	+ 2 0.0	1.788	2.736	8.7	20.9
5 1	12 30.16	+ 2 44.9	1.868	2.753	12.2	21.2
5 11	12 26.77	+ 3 11.0	1.969	2.769	15.2	21.4

396266 2014 CF_{16} 4 2.9 47°.94 2°.6/ 5.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.49	−13 56.1	1.929	2.758	13.5	20.4
3 12	13 6.15	−13 58.6	1.869	2.776	10.2	20.2
3 22	12 59.02	−13 45.9	1.832	2.795	6.5	20.0
4 1	12 50.88	−13 20.0	1.822	2.814	3.2	19.9
4 11	12 42.68	−12 45.3	1.840	2.833	3.5	19.9
4 21	12 35.33	−12 7.0	1.885	2.852	6.8	20.2
5 1	12 29.56	−11 30.8	1.956	2.871	10.2	20.4
5 11	12 25.87	−11 1.5	2.050	2.891	13.2	20.6

286378 2001 XN_{243} 4 2.9 79°.31 6°.8/ 8.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 15.13	−24 10.5	1.820	2.599	16.2	20.4
3 12	13 9.11	−24 48.1	1.750	2.612	13.3	20.3
3 22	13 0.85	−25 2.3	1.702	2.625	10.2	20.1
4 1	12 51.21	−24 51.8	1.678	2.638	7.6	20.0
4 11	12 41.35	−24 19.1	1.680	2.650	6.8	20.0
4 21	12 32.42	−23 29.6	1.709	2.663	8.5	20.1
5 1	12 25.37	−22 31.4	1.762	2.676	11.2	20.3
5 11	12 20.80	−21 32.8	1.838	2.688	14.1	20.5

11518 Jung 4 2.9 4°.14 0°.0/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.62	− 7 3.1	2.066	2.920	11.8	17.8
3 12	13 4.08	− 6 37.2	1.992	2.920	8.5	17.6
3 22	12 57.89	− 6 1.2	1.943	2.920	4.8	17.4
4 1	12 50.71	− 5 18.9	1.922	2.921	0.8	17.1
4 11	12 43.38	− 4 35.2	1.929	2.922	3.3	17.3
4 21	12 36.71	− 3 55.5	1.963	2.923	7.1	17.5
5 1	12 31.40	− 3 24.1	2.023	2.925	10.6	17.7
5 11	12 27.96	− 3 4.4	2.105	2.927	13.6	17.9

77222 2001 FA_{29} 4 2.9 308°.74 2°.4/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.42	− 1 9.5	1.431	2.306	14.7	18.3
3 12	13 8.29	− 0 43.8	1.353	2.292	10.6	18.0
3 22	13 0.60	− 0 10.3	1.297	2.278	6.0	17.7
4 1	12 51.20	+ 0 24.9	1.267	2.264	2.4	17.5
4 11	12 41.36	+ 0 54.6	1.263	2.250	5.8	17.6
4 21	12 32.40	+ 1 12.5	1.283	2.237	10.7	17.9
5 1	12 25.46	+ 1 14.0	1.326	2.224	15.3	18.1
5 11	12 21.29	+ 0 57.1	1.388	2.212	19.2	18.3

80003 1999 FW_{50} 4 2.9 304°.13 0°.0/ 2.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.22	− 8 5.1	1.982	2.835	12.2	18.7
3 12	13 3.97	− 7 25.9	1.893	2.820	8.9	18.4
3 22	12 57.93	− 6 33.7	1.828	2.805	5.0	18.2
4 1	12 50.74	− 5 32.6	1.791	2.790	0.9	17.8
4 11	12 43.26	− 4 28.7	1.781	2.775	3.5	18.0
4 21	12 36.37	− 3 28.4	1.800	2.760	7.6	18.2
5 1	12 30.88	− 2 37.7	1.843	2.745	11.4	18.4
5 11	12 27.34	− 2 0.9	1.908	2.731	14.7	18.6

284660 2008 BQ_{32} 4 2.9 110°.69 8°.3/20.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.97	+24 25.5	2.672	3.513	9.8	20.8
3 12	13 4.67	+26 3.7	2.650	3.531	8.6	20.7
3 22	12 58.06	+27 28.5	2.655	3.548	8.3	20.7
4 1	12 50.73	+28 33.7	2.686	3.565	8.8	20.8
4 11	12 43.43	+29 15.6	2.743	3.582	10.0	20.9
4 21	12 36.81	+29 33.1	2.822	3.598	11.5	21.0
5 1	12 31.44	+29 27.2	2.922	3.614	12.9	21.2
5 11	12 27.68	+29 0.6	3.037	3.630	14.1	21.3

297562 2001 RQ_{26} 4 2.9 184°.06 1°.2/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.80	− 4 57.9	1.743	2.600	13.5	22.0
3 12	13 8.77	− 4 9.4	1.671	2.601	9.6	21.7
3 22	13 0.63	− 3 9.7	1.623	2.601	5.3	21.5
4 1	12 51.19	− 2 4.4	1.602	2.600	1.3	21.2
4 11	12 41.54	− 1 1.1	1.610	2.599	4.5	21.4
4 21	12 32.76	− 0 6.6	1.645	2.597	9.0	21.7
5 1	12 25.75	+ 0 33.6	1.705	2.594	13.0	21.9
5 11	12 21.10	+ 0 56.4	1.786	2.590	16.3	22.1

209574 2004 XM_{63} 4 2.9 162°.04 9°.0/26.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 22.52	+21 2.7	1.998	2.839	12.7	20.3
3 12	13 13.93	+21 58.9	1.952	2.846	10.5	20.2
3 22	13 3.31	+22 40.6	1.930	2.853	9.2	20.1
4 1	12 51.61	+23 0.3	1.936	2.859	9.3	20.1
4 11	12 39.97	+22 53.6	1.969	2.864	10.9	20.2
4 21	12 29.48	+22 20.0	2.026	2.868	13.1	20.4
5 1	12 20.95	+21 22.1	2.107	2.872	15.3	20.6
5 11	12 14.87	+20 4.4	2.205	2.874	17.3	20.7

114421 2002 YJ_{32} 4 2.9 83°.09 2°.4/ 5.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.90	−13 18.1	1.697	2.532	14.8	20.1
3 12	13 8.09	−13 9.9	1.636	2.547	11.1	19.9
3 22	13 0.20	−12 44.6	1.598	2.563	7.0	19.7
4 1	12 51.11	−12 5.0	1.586	2.579	3.0	19.5
4 11	12 41.94	−11 16.6	1.601	2.595	3.7	19.5
4 21	12 33.76	−10 26.1	1.644	2.610	7.6	19.8
5 1	12 27.43	− 9 40.2	1.712	2.626	11.5	20.1
5 11	12 23.47	− 9 4.3	1.801	2.641	14.8	20.3

141244 2001 XM_{259} 4 2.9 59°.99 2°.2/ 5.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.05	−16 2.8	2.076	2.899	12.9	19.3
3 12	13 3.59	−15 16.5	2.013	2.917	9.8	19.1
3 22	12 57.56	−14 12.5	1.975	2.936	6.2	18.9
4 1	12 50.66	−12 54.6	1.963	2.955	2.9	18.7
4 11	12 43.74	−11 29.2	1.980	2.974	3.1	18.8
4 21	12 37.59	−10 3.3	2.026	2.993	6.4	19.0
5 1	12 32.84	− 8 43.7	2.098	3.012	9.7	19.2
5 11	12 29.93	− 7 35.9	2.194	3.031	12.6	19.5

332929 2011 CV_{59} 4 2.9 285°.35 4°.7/29.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.21	+ 3 19.2	1.746	2.625	12.3	20.9
3 12	13 4.84	+ 4 48.4	1.671	2.611	8.9	20.7
3 22	12 58.48	+ 6 23.2	1.621	2.596	5.7	20.5
4 1	12 50.84	+ 7 55.0	1.597	2.582	4.9	20.4
4 11	12 42.93	+ 9 14.3	1.601	2.567	7.6	20.5
4 21	12 35.72	+10 14.1	1.631	2.553	11.3	20.7
5 1	12 30.10	+10 49.9	1.683	2.538	14.8	20.9
5 11	12 26.67	+11 1.1	1.753	2.524	17.9	21.1

27364 2000 EJ_{14} 4 2.9 208°.60 0°.0/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.46	− 7 21.1	2.321	3.166	11.0	18.3
3 12	13 5.28	− 6 53.8	2.240	3.163	7.9	18.1
3 22	12 58.54	− 6 16.8	2.184	3.159	4.5	17.9
4 1	12 50.84	− 5 33.6	2.157	3.156	0.8	17.6
4 11	12 42.97	− 4 48.7	2.159	3.152	3.0	17.8
4 21	12 35.69	− 4 6.9	2.190	3.147	6.6	18.0
5 1	12 29.67	− 3 32.5	2.247	3.143	9.9	18.2
5 11	12 25.39	− 3 8.8	2.327	3.138	12.8	18.4

377464 2004 XS_{76} 4 2.9 214°.31 2°.8/ 6.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.07	−17 34.2	2.525	3.326	11.6	21.1
3 12	13 5.71	−17 12.5	2.429	3.317	9.0	20.9
3 22	12 58.79	−16 34.6	2.357	3.308	6.1	20.7
4 1	12 50.89	−15 42.4	2.313	3.298	3.4	20.5
4 11	12 42.76	−14 39.4	2.298	3.288	3.3	20.5
4 21	12 35.15	−13 30.8	2.313	3.277	5.9	20.7
5 1	12 28.76	−12 22.6	2.356	3.265	9.0	20.8
5 11	12 24.07	−11 20.1	2.424	3.253	11.8	21.0

366448 2001 YF_{133} 4 2.9 143°.23 4°.9/ 8.6 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.40	−23 33.3	2.479	3.243	12.8	22.5
3 12	13 8.06	−23 39.9	2.401	3.257	10.4	22.3
3 22	13 0.06	−23 27.8	2.347	3.270	7.8	22.2
4 1	12 51.09	−22 57.4	2.319	3.282	5.6	22.1
4 11	12 41.99	−22 11.2	2.320	3.293	4.9	22.0
4 21	12 33.59	−21 14.1	2.350	3.304	6.5	22.1
5 1	12 26.58	−20 12.0	2.407	3.314	8.9	22.3
5 11	12 21.46	−19 11.1	2.489	3.323	11.4	22.5

112738 2002 PK_{128} 4 2.9 155°.23 2°.7/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 14.55	+ 0 13.6	1.867	2.730	12.4	19.9
3 12	13 8.40	+ 0 55.4	1.803	2.736	8.8	19.7
3 22	13 0.33	+ 1 42.0	1.763	2.741	5.0	19.4
4 1	12 51.14	+ 2 27.7	1.752	2.746	2.7	19.3
4 11	12 41.84	+ 3 6.3	1.769	2.750	5.3	19.5
4 21	12 33.39	+ 3 32.9	1.814	2.754	9.1	19.7
5 1	12 26.62	+ 3 44.4	1.883	2.758	12.6	19.9
5 11	12 22.03	+ 3 39.7	1.972	2.761	15.6	20.1

55883 1997 WF_{8} 4 2.9 130°.87 3°.6/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.09	+ 3 38.7	2.036	2.900	11.4	19.4
3 12	13 7.87	+ 4 28.3	1.980	2.913	8.2	19.2
3 22	12 59.94	+ 5 19.1	1.951	2.925	5.0	19.0
4 1	12 51.07	+ 6 5.3	1.950	2.937	3.7	18.9
4 11	12 42.18	+ 6 41.1	1.977	2.948	5.9	19.1
4 21	12 34.13	+ 7 2.7	2.032	2.959	9.1	19.3
5 1	12 27.64	+ 7 8.1	2.112	2.969	12.1	19.5
5 11	12 23.15	+ 6 57.1	2.212	2.979	14.7	19.7

512969 2017 TR_{7} 4 2.9 215°.54 1°.0/ 1.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.00	− 3 55.2	2.609	3.455	9.9	22.3
3 12	13 6.26	− 3 19.0	2.520	3.445	7.0	22.1
3 22	12 59.06	− 2 35.8	2.457	3.434	3.9	21.9
4 1	12 50.95	− 1 49.5	2.425	3.423	1.0	21.7
4 11	12 42.63	− 1 4.2	2.423	3.411	3.4	21.8
4 21	12 34.81	− 0 24.5	2.450	3.398	6.7	22.0
5 1	12 28.13	+ 0 6.3	2.505	3.384	9.7	22.2
5 11	12 23.06	+ 0 25.6	2.583	3.370	12.3	22.3

351656 2005 YF_{166} 4 2.9 110°.74 1°.9/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.89	− 3 45.1	1.511	2.377	14.6	21.6
3 12	13 8.88	− 2 45.3	1.458	2.393	10.4	21.4
3 22	13 0.66	− 1 35.0	1.429	2.408	5.7	21.1
4 1	12 51.20	− 0 21.9	1.426	2.423	2.0	20.9
4 11	12 41.73	+ 0 45.3	1.450	2.438	5.3	21.2
4 21	12 33.38	+ 1 39.3	1.501	2.452	9.8	21.5
5 1	12 27.06	+ 2 15.1	1.576	2.465	13.8	21.7
5 11	12 23.26	+ 2 31.0	1.670	2.478	17.1	22.0

521213 2015 FL_{414} 4 2.9 249°.52 4°.7/ 7.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.70	−21 4.2	2.362	3.147	12.7	20.9
3 12	13 6.33	−21 22.0	2.269	3.140	10.3	20.7
3 22	12 59.22	−21 22.8	2.199	3.133	7.6	20.5
4 1	12 50.98	−21 6.4	2.155	3.125	5.3	20.4
4 11	12 42.44	−20 34.9	2.139	3.117	4.8	20.3
4 21	12 34.45	−19 52.3	2.151	3.109	6.7	20.4
5 1	12 27.78	−19 4.4	2.189	3.101	9.4	20.6
5 11	12 22.99	−18 17.0	2.252	3.093	12.1	20.7

249068 2007 TY_{452} 4 2.9 269°.20 3°.0/31.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.68	− 1 25.2	1.553	2.427	13.8	21.1
3 12	13 6.87	− 0 16.4	1.474	2.413	9.9	20.8
3 22	12 59.73	+ 1 3.2	1.418	2.398	5.6	20.5
4 1	12 51.08	+ 2 25.7	1.389	2.384	3.1	20.3
4 11	12 42.06	+ 3 41.6	1.387	2.369	6.3	20.5
4 21	12 33.83	+ 4 42.4	1.410	2.354	10.9	20.7
5 1	12 27.43	+ 5 22.1	1.456	2.339	15.1	20.9
5 11	12 23.55	+ 5 38.5	1.521	2.324	18.8	21.1

1045 Michela 4 2.9 101°.51 0°.1/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.73	− 8 20.5	1.585	2.438	14.8	16.8
3 12	13 8.72	− 7 45.0	1.529	2.455	10.7	16.5
3 22	13 0.57	− 6 55.4	1.496	2.471	6.0	16.3
4 1	12 51.19	− 5 56.9	1.489	2.488	1.1	16.0
4 11	12 41.78	− 4 57.0	1.510	2.503	3.9	16.2
4 21	12 33.45	− 4 2.8	1.558	2.519	8.5	16.6
5 1	12 27.07	− 3 20.4	1.630	2.534	12.6	16.8
5 11	12 23.16	− 2 53.6	1.723	2.548	16.0	17.1

503664 2016 GB_{245} 4 2.9 303°.30 1°.3/ 4.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.87	−10 32.8	1.553	2.407	15.0	21.3
3 12	13 6.45	−10 15.7	1.460	2.385	11.2	21.0
3 22	12 59.60	− 9 41.2	1.390	2.363	6.8	20.7
4 1	12 51.08	− 8 52.1	1.344	2.341	2.1	20.3
4 11	12 42.01	− 7 54.7	1.325	2.320	3.9	20.4
4 21	12 33.63	− 6 56.5	1.332	2.299	8.9	20.6
5 1	12 27.06	− 6 5.7	1.362	2.278	13.7	20.8
5 11	12 23.09	− 5 28.8	1.412	2.258	17.8	21.0

508424 2016 JF_{32} 4 2.9 285°.98 9°.3/24.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.42	+19 10.9	1.881	2.742	12.4	21.0
3 12	13 8.62	+20 31.3	1.808	2.716	10.4	20.8
3 22	13 0.64	+21 41.7	1.758	2.690	9.4	20.7
4 1	12 51.23	+22 32.7	1.734	2.663	9.9	20.7
4 11	12 41.47	+22 56.9	1.736	2.636	11.8	20.7
4 21	12 32.45	+22 51.0	1.760	2.609	14.4	20.8
5 1	12 25.13	+22 15.0	1.804	2.582	17.1	20.9
5 11	12 20.16	+21 12.5	1.865	2.554	19.5	21.1

501211 2013 TQ_{143} 4 2.9 200°.89 1°.4/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 11.97	− 2 51.8	2.462	3.313	10.2	22.7
3 12	13 6.27	− 2 7.7	2.380	3.308	7.3	22.5
3 22	12 59.07	− 1 16.9	2.325	3.303	4.0	22.3
4 1	12 50.95	− 0 23.7	2.300	3.297	1.4	22.1
4 11	12 42.66	+ 0 26.8	2.305	3.290	3.8	22.3
4 21	12 34.93	+ 1 10.1	2.338	3.282	7.1	22.5
5 1	12 28.42	+ 1 42.6	2.399	3.274	10.2	22.6
5 11	12 23.60	+ 2 1.9	2.482	3.265	12.9	22.8

424115 2007 EP_{107} 4 2.9 218°.10 2°.5/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 15.91	+ 1 17.5	1.951	2.812	12.1	21.0
3 12	13 9.40	+ 1 33.5	1.877	2.809	8.6	20.8
3 22	13 0.94	+ 1 52.4	1.828	2.805	4.9	20.6
4 1	12 51.27	+ 2 9.5	1.807	2.801	2.5	20.4
4 11	12 41.40	+ 2 20.2	1.815	2.797	5.0	20.5
4 21	12 32.32	+ 2 20.9	1.851	2.793	8.8	20.8
5 1	12 24.85	+ 2 9.3	1.912	2.789	12.3	21.0
5 11	12 19.58	+ 1 44.4	1.994	2.784	15.3	21.2

345639 2006 SX_{364} 4 2.9 81°.93 2°.3/ 5.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.71	−13 31.7	2.254	3.077	12.0	20.4
3 12	13 6.21	−13 35.8	2.180	3.084	9.1	20.2
3 22	12 59.07	−13 26.9	2.131	3.092	5.8	20.1
4 1	12 50.96	−13 6.7	2.108	3.100	2.8	19.9
4 11	12 42.70	−12 38.5	2.115	3.107	3.2	19.9
4 21	12 35.11	−12 6.7	2.150	3.115	6.3	20.1
5 1	12 28.89	−11 35.9	2.212	3.123	9.4	20.3
5 11	12 24.52	−11 10.5	2.297	3.130	12.2	20.5

74263 1998 SH_{89} 4 2.9 342°.32 2°.7/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.11	−12 24.5	1.373	2.225	16.6	18.6
3 12	13 7.45	−12 32.0	1.298	2.219	12.6	18.3
3 22	13 0.17	−12 20.7	1.244	2.214	7.9	18.1
4 1	12 51.18	−11 52.6	1.215	2.209	3.5	17.8
4 11	12 41.78	−11 12.9	1.211	2.205	4.3	17.8
4 21	12 33.34	−10 29.0	1.231	2.201	9.1	18.1
5 1	12 27.02	− 9 49.2	1.274	2.199	13.8	18.3
5 11	12 23.55	− 9 20.2	1.337	2.196	17.8	18.6

114672 2003 FU_{45} 4 2.9 149°.83 0°.5/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 16.33	− 4 30.1	1.994	2.843	12.4	18.9
3 12	13 9.63	− 4 25.5	1.923	2.848	8.9	18.7
3 22	13 1.03	− 4 13.6	1.877	2.853	4.9	18.5
4 1	12 51.29	− 3 57.6	1.859	2.858	0.8	18.2
4 11	12 41.40	− 3 41.7	1.871	2.863	3.6	18.4
4 21	12 32.32	− 3 29.9	1.911	2.867	7.6	18.6
5 1	12 24.86	− 3 25.8	1.978	2.871	11.2	18.9
5 11	12 19.56	− 3 31.6	2.066	2.874	14.3	19.1

156488 2002 CV_{88} 4 2.9 187°.27 1°.2/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.09	− 3 49.6	2.003	2.860	11.9	20.5
3 12	13 6.61	− 3 14.3	1.930	2.860	8.5	20.3
3 22	12 59.36	− 2 30.7	1.881	2.860	4.7	20.1
4 1	12 51.02	− 1 43.7	1.861	2.859	1.2	19.8
4 11	12 42.50	− 0 58.8	1.869	2.858	4.0	20.0
4 21	12 34.71	− 0 21.4	1.905	2.857	8.0	20.2
5 1	12 28.41	+ 0 4.5	1.967	2.855	11.5	20.5
5 11	12 24.12	+ 0 16.4	2.050	2.853	14.5	20.7

212307 2005 OG_{6} 4 2.9 233°.66 0°.9/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.20	− 4 14.6	2.517	3.369	10.0	20.8
3 12	13 4.30	− 3 40.7	2.434	3.362	7.1	20.6
3 22	12 57.97	− 2 59.7	2.378	3.355	3.9	20.4
4 1	12 50.78	− 2 15.4	2.350	3.348	0.9	20.1
4 11	12 43.42	− 1 32.2	2.352	3.341	3.3	20.3
4 21	12 36.58	− 0 54.3	2.382	3.333	6.6	20.5
5 1	12 30.87	− 0 25.3	2.439	3.325	9.7	20.7
5 11	12 26.75	− 0 7.8	2.519	3.317	12.3	20.8

299902 2006 SR_{374} 4 2.9 241°.58 3°.2/29.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.95	+ 2 20.4	2.349	3.218	10.0	21.3
3 12	13 3.46	+ 3 31.3	2.276	3.212	7.1	21.1
3 22	12 57.52	+ 4 45.9	2.230	3.206	4.3	21.0
4 1	12 50.71	+ 5 58.5	2.212	3.199	3.3	20.9
4 11	12 43.74	+ 7 2.8	2.223	3.193	5.5	21.0
4 21	12 37.34	+ 7 54.0	2.262	3.186	8.4	21.2
5 1	12 32.12	+ 8 28.8	2.326	3.180	11.3	21.3
5 11	12 28.54	+ 8 45.9	2.411	3.173	13.8	21.5

472508 2015 CM_{30} 4 2.9 278°.43 2°.3/31.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.36	− 0 59.4	1.859	2.726	12.2	21.0
3 12	13 6.23	− 0 17.7	1.786	2.721	8.7	20.7
3 22	12 59.20	+ 0 30.5	1.737	2.716	4.9	20.5
4 1	12 51.00	+ 1 19.6	1.716	2.712	2.3	20.3
4 11	12 42.60	+ 2 3.2	1.723	2.707	5.0	20.5
4 21	12 34.94	+ 2 35.9	1.757	2.703	9.0	20.7
5 1	12 28.84	+ 2 53.9	1.815	2.698	12.6	20.9
5 11	12 24.87	+ 2 55.3	1.894	2.693	15.7	21.1

192831 1999 VY_{101} 4 2.9 132°.52 0°.2/ 3.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 10.90	− 8 30.9	2.154	2.998	11.7	21.1
3 12	13 5.62	− 7 56.0	2.085	3.006	8.5	20.9
3 22	12 58.74	− 7 9.9	2.040	3.014	4.8	20.7
4 1	12 50.92	− 6 16.5	2.023	3.022	0.9	20.4
4 11	12 42.99	− 5 21.1	2.036	3.029	3.1	20.6
4 21	12 35.77	− 4 29.3	2.076	3.036	6.8	20.8
5 1	12 29.93	− 3 45.8	2.144	3.042	10.2	21.0
5 11	12 25.95	− 3 14.2	2.233	3.049	13.1	21.2

213794 2003 FT_{51} 4 2.9 335°.27 1°.8/ 1.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.04	− 0 35.0	1.872	2.739	12.2	19.8
3 12	13 6.77	− 0 26.8	1.793	2.728	8.8	19.5
3 22	12 59.54	− 0 14.3	1.739	2.718	4.9	19.3
4 1	12 51.07	− 0 1.5	1.711	2.708	1.9	19.1
4 11	12 42.34	+ 0 7.0	1.711	2.699	4.6	19.2
4 21	12 34.30	+ 0 7.4	1.739	2.690	8.6	19.4
5 1	12 27.83	− 0 3.3	1.791	2.682	12.3	19.6
5 11	12 23.51	− 0 26.5	1.863	2.675	15.5	19.8

175200 2005 EV_{315} 4 2.9 248°.74 1°.2/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.99	− 4 41.3	1.835	2.693	12.8	20.8
3 12	13 7.57	− 3 56.0	1.747	2.677	9.2	20.6
3 22	13 0.06	− 2 59.5	1.683	2.661	5.1	20.3
4 1	12 51.18	− 1 56.9	1.646	2.645	1.3	20.0
4 11	12 41.92	− 0 55.1	1.639	2.628	4.5	20.2
4 21	12 33.33	− 0 1.0	1.658	2.610	8.9	20.4
5 1	12 26.34	+ 0 39.7	1.702	2.592	12.9	20.6
5 11	12 21.59	+ 1 3.4	1.767	2.573	16.4	20.8

297785 2001 XB_{250} 4 2.9 103°.26 3°.1/ 5.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 15.46	−15 56.7	1.576	2.402	16.1	21.5
3 12	13 9.34	−15 38.0	1.516	2.421	12.3	21.3
3 22	13 0.97	−14 57.9	1.479	2.440	8.0	21.0
4 1	12 51.30	−13 59.4	1.467	2.458	3.9	20.8
4 11	12 41.58	−12 49.1	1.483	2.475	4.1	20.9
4 21	12 32.99	−11 35.7	1.525	2.493	8.0	21.2
5 1	12 26.44	−10 27.6	1.593	2.509	12.0	21.4
5 11	12 22.46	− 9 31.5	1.682	2.525	15.5	21.7

473733 2016 CZ_{204} 4 2.9 14°.52 1°.3/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.68	−10 17.0	1.236	2.103	17.1	20.2
3 12	13 6.45	− 9 59.8	1.174	2.105	12.7	19.9
3 22	12 59.58	− 9 23.2	1.133	2.109	7.5	19.6
4 1	12 51.09	− 8 31.8	1.116	2.113	2.2	19.3
4 11	12 42.37	− 7 33.8	1.123	2.118	4.3	19.5
4 21	12 34.78	− 6 38.1	1.154	2.124	9.6	19.8
5 1	12 29.43	− 5 53.3	1.208	2.131	14.4	20.1
5 11	12 26.96	− 5 25.1	1.280	2.139	18.5	20.3

105850 2000 SN_{165} 4 2.9 189°.49 4°.2/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.84	−21 53.5	2.655	3.432	11.7	19.9
3 12	13 4.79	−21 53.4	2.565	3.431	9.4	19.7
3 22	12 58.28	−21 36.8	2.499	3.430	6.9	19.6
4 1	12 50.86	−21 4.1	2.460	3.429	4.8	19.4
4 11	12 43.25	−20 18.0	2.449	3.428	4.3	19.4
4 21	12 36.17	−19 22.8	2.467	3.426	5.9	19.5
5 1	12 30.26	−18 23.7	2.512	3.424	8.4	19.7
5 11	12 25.99	−17 26.2	2.582	3.422	10.8	19.8

439134 2011 TV_{8} 4 2.9 283°.48 4°.3/ 7.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.33	−18 47.5	2.228	3.027	13.0	20.5
3 12	13 6.92	−19 11.0	2.132	3.015	10.3	20.3
3 22	12 59.64	−19 18.5	2.059	3.002	7.4	20.1
4 1	12 51.11	−19 9.8	2.013	2.990	4.9	19.9
4 11	12 42.21	−18 47.0	1.995	2.978	4.6	19.9
4 21	12 33.85	−18 14.0	2.004	2.966	6.9	20.0
5 1	12 26.86	−17 36.1	2.040	2.953	10.0	20.1
5 11	12 21.86	−16 59.3	2.100	2.941	12.9	20.3

77759 2001 PY_{36} 4 2.9 117°.61 3°.8/29.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.91	+ 5 39.5	2.255	3.121	10.4	18.7
3 12	13 6.24	+ 6 20.5	2.196	3.128	7.5	18.5
3 22	12 59.04	+ 7 0.9	2.163	3.135	4.8	18.4
4 1	12 50.99	+ 7 35.8	2.158	3.142	3.9	18.3
4 11	12 42.87	+ 8 0.2	2.182	3.148	5.8	18.4
4 21	12 35.47	+ 8 11.1	2.234	3.155	8.7	18.6
5 1	12 29.42	+ 8 7.0	2.310	3.161	11.4	18.8
5 11	12 25.17	+ 7 47.8	2.407	3.167	13.8	19.0

250955 2006 CF_{68} 4 2.9 169°.53 1°.2/ 4.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.72	−11 58.4	2.904	3.729	9.6	20.9
3 12	13 3.08	−11 35.5	2.822	3.731	7.1	20.7
3 22	12 57.25	−11 2.3	2.766	3.732	4.4	20.6
4 1	12 50.70	−10 21.1	2.738	3.733	1.7	20.4
4 11	12 44.03	− 9 35.4	2.741	3.735	2.3	20.4
4 21	12 37.84	− 8 49.1	2.773	3.736	5.1	20.6
5 1	12 32.63	− 8 6.1	2.832	3.736	7.8	20.8
5 11	12 28.79	− 7 29.7	2.916	3.737	10.2	20.9

347722 2001 XB_{169} 4 2.9 141°.66 6°.8/12.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 10.79	−31 55.8	2.697	3.407	13.1	20.9
3 12	13 5.55	−32 9.7	2.611	3.413	11.3	20.7
3 22	12 58.73	−32 2.3	2.546	3.419	9.3	20.6
4 1	12 50.95	−31 32.8	2.505	3.425	7.6	20.5
4 11	12 43.00	−30 42.7	2.491	3.431	6.8	20.5
4 21	12 35.66	−29 36.2	2.503	3.436	7.3	20.5
5 1	12 29.61	−28 19.1	2.542	3.442	8.8	20.6
5 11	12 25.34	−26 58.2	2.606	3.446	10.7	20.7

294196 2007 TJ_{419} 4 2.9 10°.89 0°.0/ 2.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.97	− 8 43.4	2.122	2.971	11.7	21.0
3 12	13 3.62	− 7 49.9	2.046	2.971	8.5	20.8
3 22	12 57.68	− 6 43.8	1.995	2.971	4.8	20.6
4 1	12 50.78	− 5 29.6	1.973	2.971	0.8	20.3
4 11	12 43.74	− 4 13.7	1.979	2.971	3.2	20.5
4 21	12 37.34	− 3 2.6	2.013	2.972	7.1	20.7
5 1	12 32.27	− 2 1.8	2.073	2.972	10.5	20.9
5 11	12 28.99	− 1 15.4	2.156	2.972	13.5	21.1

40683 1999 RB_{213} 4 2.9 252°.34 4°.4/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.53	−20 49.1	2.085	2.881	13.8	18.7
3 12	13 5.69	−20 39.9	1.991	2.871	11.1	18.5
3 22	12 58.96	−20 10.0	1.919	2.861	8.0	18.3
4 1	12 51.02	−19 19.8	1.873	2.851	5.2	18.1
4 11	12 42.76	−18 13.3	1.855	2.840	4.6	18.0
4 21	12 35.13	−16 56.5	1.865	2.829	7.0	18.1
5 1	12 28.97	−15 37.0	1.901	2.819	10.3	18.3
5 11	12 24.85	−14 22.3	1.960	2.808	13.4	18.5

353264 2010 EM_{111} 4 2.9 43°.14 0°.9/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.33	− 6 26.1	1.225	2.100	16.7	21.0
3 12	13 7.59	− 5 38.8	1.167	2.105	12.0	20.8
3 22	13 0.20	− 4 35.2	1.131	2.111	6.6	20.5
4 1	12 51.22	− 3 23.0	1.119	2.118	1.2	20.1
4 11	12 42.08	− 2 12.3	1.132	2.125	5.1	20.4
4 21	12 34.14	− 1 12.6	1.170	2.132	10.6	20.8
5 1	12 28.50	− 0 31.1	1.229	2.139	15.3	21.0
5 11	12 25.75	− 0 11.4	1.307	2.147	19.3	21.3

222830 2002 EL_{7} 4 2.9 73°.90 1°.6/ 4.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 16.61	−10 27.1	1.777	2.614	14.1	20.5
3 12	13 9.85	−10 28.6	1.726	2.642	10.4	20.4
3 22	13 1.13	−10 16.8	1.699	2.669	6.2	20.2
4 1	12 51.36	− 9 54.4	1.700	2.696	2.2	20.0
4 11	12 41.64	− 9 26.2	1.729	2.723	3.4	20.1
4 21	12 32.98	− 8 57.5	1.785	2.749	7.4	20.4
5 1	12 26.18	− 8 33.4	1.868	2.775	11.0	20.7
5 11	12 21.70	− 8 17.9	1.972	2.801	14.1	20.9

89983 2002 TE_{36} 4 2.9 110°.50 1°.1/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.82	− 4 8.4	2.240	3.096	10.9	19.5
3 12	13 4.79	− 3 23.0	2.176	3.106	7.7	19.3
3 22	12 58.27	− 2 30.1	2.138	3.116	4.2	19.1
4 1	12 50.89	− 1 34.3	2.128	3.125	1.2	18.9
4 11	12 43.44	− 0 41.1	2.147	3.135	3.7	19.1
4 21	12 36.67	+ 0 4.6	2.194	3.144	7.2	19.3
5 1	12 31.20	+ 0 39.1	2.268	3.153	10.3	19.5
5 11	12 27.47	+ 1 0.0	2.363	3.162	13.0	19.7

290734 2005 UN_{448} 4 2.9 36°.08 6°.0/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.62	−19 37.7	1.236	2.067	19.4	19.8
3 12	13 8.77	−19 57.5	1.171	2.072	15.5	19.6
3 22	13 1.01	−19 48.8	1.125	2.077	11.0	19.3
4 1	12 51.39	−19 11.5	1.101	2.083	7.1	19.1
4 11	12 41.44	−18 10.7	1.101	2.089	6.4	19.1
4 21	12 32.69	−16 56.1	1.125	2.095	9.8	19.3
5 1	12 26.42	−15 39.5	1.171	2.101	14.1	19.6
5 11	12 23.31	−14 31.7	1.236	2.108	18.2	19.8

371998 2008 HC_{16} 4 2.9 3°.37 3°.6/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.25	− 0 40.9	1.296	2.184	15.0	19.7
3 12	13 4.56	+ 0 30.6	1.237	2.183	10.7	19.4
3 22	12 58.48	+ 1 51.7	1.201	2.183	6.1	19.2
4 1	12 50.95	+ 3 12.7	1.189	2.183	3.7	19.0
4 11	12 43.24	+ 4 23.0	1.203	2.185	7.0	19.2
4 21	12 36.56	+ 5 14.1	1.240	2.188	11.6	19.5
5 1	12 31.91	+ 5 41.1	1.298	2.191	15.9	19.7
5 11	12 29.87	+ 5 43.0	1.374	2.196	19.5	20.0

236834 2007 RH_{78} 4 2.9 211°.91 0°.5/ 3.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.61	− 8 51.3	2.218	3.060	11.5	21.3
3 12	13 5.49	− 8 24.6	2.137	3.057	8.4	21.1
3 22	12 58.75	− 7 46.6	2.081	3.054	4.9	20.8
4 1	12 50.99	− 7 0.7	2.052	3.050	1.1	20.5
4 11	12 43.05	− 6 11.8	2.053	3.047	3.0	20.7
4 21	12 35.72	− 5 24.8	2.082	3.043	6.7	20.9
5 1	12 29.71	− 4 44.8	2.138	3.038	10.2	21.1
5 11	12 25.52	− 4 15.4	2.216	3.034	13.1	21.3

459619 2013 HU_{126} 4 2.9 321°.71 1°.8/ 4.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 17.13	− 9 8.1	1.393	2.247	16.3	21.2
3 12	13 11.09	− 9 30.0	1.319	2.243	12.2	20.9
3 22	13 2.27	− 9 38.2	1.266	2.239	7.4	20.6
4 1	12 51.62	− 9 34.3	1.238	2.235	2.5	20.3
4 11	12 40.54	− 9 22.6	1.236	2.231	4.2	20.4
4 21	12 30.45	− 9 8.7	1.260	2.228	9.4	20.7
5 1	12 22.61	− 8 58.7	1.308	2.224	14.1	20.9
5 11	12 17.76	− 8 57.8	1.375	2.221	18.1	21.2

495990 2007 UY_{4} 4 2.9 229°.91 1°.5/ 1.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.74	− 3 47.1	1.900	2.755	12.6	22.4
3 12	13 8.77	− 3 3.6	1.813	2.742	9.0	22.2
3 22	13 0.74	− 2 10.3	1.750	2.728	5.0	21.9
4 1	12 51.36	− 1 12.2	1.716	2.714	1.5	21.6
4 11	12 41.62	− 0 16.0	1.711	2.699	4.5	21.8
4 21	12 32.57	+ 0 31.9	1.734	2.683	8.8	22.0
5 1	12 25.11	+ 1 6.5	1.782	2.666	12.7	22.2
5 11	12 19.87	+ 1 24.8	1.850	2.648	16.1	22.4

412561 2014 NS_{54} 4 2.9 315°.16 5°.0/30.6 14 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.77	+ 3 40.9	1.273	2.157	15.5	20.2
3 12	13 9.43	+ 4 29.7	1.208	2.150	11.3	20.0
3 22	13 1.33	+ 5 21.7	1.166	2.144	7.0	19.7
4 1	12 51.47	+ 6 7.9	1.148	2.137	5.1	19.6
4 11	12 41.29	+ 6 39.1	1.154	2.131	8.2	19.7
4 21	12 32.23	+ 6 49.2	1.185	2.125	12.8	20.0
5 1	12 25.46	+ 6 35.4	1.236	2.120	17.2	20.2
5 11	12 21.69	+ 5 58.6	1.304	2.115	20.9	20.4

22971 1999 VY_{8} 4 3.0 170°.20 5°.1/28.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.67	+ 7 49.2	2.076	2.941	11.2	18.8
3 12	13 8.37	+ 8 57.4	2.017	2.946	8.3	18.6
3 22	13 0.33	+10 4.1	1.983	2.950	5.8	18.5
4 1	12 51.27	+11 2.3	1.979	2.953	5.3	18.5
4 11	12 42.13	+11 45.8	2.002	2.955	7.3	18.6
4 21	12 33.78	+12 10.7	2.053	2.957	10.2	18.8
5 1	12 26.97	+12 15.5	2.128	2.958	13.1	19.0
5 11	12 22.18	+12 0.9	2.222	2.958	15.5	19.1

227479 2005 WE_{190} 4 3.0 206°.81 0°.8/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.76	−11 56.4	1.989	2.827	12.8	20.7
3 12	13 5.05	−10 53.8	1.907	2.824	9.4	20.5
3 22	12 58.56	− 9 33.9	1.849	2.821	5.6	20.2
4 1	12 50.99	− 8 1.4	1.820	2.817	1.5	19.9
4 11	12 43.22	− 6 23.6	1.819	2.813	3.2	20.1
4 21	12 36.14	− 4 48.7	1.847	2.809	7.3	20.3
5 1	12 30.51	− 3 24.0	1.902	2.804	11.1	20.5
5 11	12 26.87	− 2 15.1	1.979	2.799	14.4	20.7

145412 2005 OO 4 3.0 114°.96 3°.7/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.12	−18 54.6	2.445	3.240	12.1	20.4
3 12	13 5.78	−19 1.3	2.366	3.247	9.5	20.3
3 22	12 58.88	−18 52.5	2.311	3.254	6.7	20.1
4 1	12 51.04	−18 28.9	2.282	3.261	4.3	19.9
4 11	12 43.04	−17 53.4	2.283	3.267	3.9	19.9
4 21	12 35.64	−17 10.3	2.312	3.274	6.1	20.1
5 1	12 29.53	−16 24.8	2.368	3.280	8.8	20.2
5 11	12 25.18	−15 41.9	2.447	3.286	11.4	20.4

172230 2002 RZ_{113} 4 3.0 246°.46 0°.3/ 2.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.97	− 6 41.5	2.123	2.974	11.6	20.6
3 12	13 5.11	− 6 4.7	2.042	2.969	8.4	20.4
3 22	12 58.57	− 5 17.5	1.986	2.963	4.7	20.2
4 1	12 51.00	− 4 23.9	1.959	2.957	0.7	19.8
4 11	12 43.22	− 3 29.5	1.959	2.951	3.4	20.0
4 21	12 36.05	− 2 39.8	1.988	2.945	7.3	20.3
5 1	12 30.25	− 1 59.6	2.043	2.939	10.8	20.5
5 11	12 26.30	− 1 32.4	2.120	2.933	13.8	20.7

15090 1999 CA_{97} 4 3.0 246°.40 0°.5/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.52	− 6 3.6	2.250	3.101	11.0	17.9
3 12	13 4.71	− 5 25.8	2.167	3.094	7.9	17.7
3 22	12 58.32	− 4 38.5	2.110	3.087	4.4	17.5
4 1	12 50.95	− 3 45.7	2.082	3.080	0.8	17.2
4 11	12 43.39	− 2 52.6	2.082	3.073	3.3	17.4
4 21	12 36.40	− 2 4.4	2.111	3.066	7.0	17.6
5 1	12 30.68	− 1 25.7	2.165	3.058	10.4	17.8
5 11	12 26.72	− 0 59.5	2.242	3.051	13.3	17.9

24202 1999 XR_{42} 4 3.0 238°.45 1°.0/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 15.53	−10 25.3	1.640	2.483	14.8	19.5
3 12	13 9.72	− 9 55.9	1.549	2.469	11.0	19.2
3 22	13 1.46	− 9 8.9	1.481	2.454	6.5	18.9
4 1	12 51.52	− 8 8.0	1.440	2.437	1.8	18.5
4 11	12 41.08	− 6 59.6	1.426	2.420	3.9	18.6
4 21	12 31.39	− 5 52.0	1.440	2.403	8.9	18.9
5 1	12 23.57	− 4 53.2	1.478	2.384	13.5	19.1
5 11	12 18.35	− 4 9.3	1.537	2.365	17.5	19.3