55219 2001 RQ_{61} 4 1.0 100°.41 0°.9/31.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 1.78	− 3 56.8	2.311	3.180	10.1	19.9
3 12	12 56.32	− 3 13.8	2.255	3.195	6.9	19.7
3 22	12 49.55	− 2 24.1	2.226	3.209	3.4	19.5
4 1	12 42.13	− 1 32.2	2.225	3.224	0.9	19.3
4 11	12 34.81	− 0 43.2	2.254	3.238	4.1	19.6
4 21	12 28.29	− 0 1.5	2.312	3.252	7.4	19.8
5 1	12 23.15	+ 0 29.4	2.394	3.265	10.4	20.0
5 11	12 19.74	+ 0 47.5	2.499	3.279	12.9	20.2

164104 2003 XF_{9} 4 1.0 186°.63 0°.2/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.76	− 5 58.6	2.429	3.284	10.2	19.6
3 12	12 59.14	− 5 52.7	2.352	3.283	7.1	19.4
3 22	12 51.04	− 5 39.6	2.302	3.283	3.7	19.1
4 1	12 42.13	− 5 21.7	2.282	3.282	0.3	18.8
4 11	12 33.20	− 5 2.8	2.293	3.280	3.6	19.1
4 21	12 25.00	− 4 46.2	2.332	3.278	7.0	19.3
5 1	12 18.20	− 4 35.4	2.398	3.276	10.1	19.5
5 11	12 13.24	− 4 32.7	2.487	3.273	12.8	19.7

251427 2008 BH_{15} 4 1.0 95°.42 2°.0/30.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.62	− 1 54.0	1.624	2.504	13.0	20.5
3 12	12 59.34	− 0 59.0	1.577	2.522	8.8	20.3
3 22	12 51.19	+ 0 3.2	1.554	2.538	4.4	20.1
4 1	12 42.13	+ 1 5.4	1.559	2.555	2.2	20.0
4 11	12 33.29	+ 2 0.0	1.591	2.572	5.9	20.2
4 21	12 25.66	+ 2 41.3	1.650	2.588	10.0	20.5
5 1	12 20.02	+ 3 5.6	1.732	2.603	13.7	20.8
5 11	12 16.78	+ 3 11.8	1.834	2.619	16.7	21.0

90798 1994 US_{5} 4 1.0 171°.38 0°.8/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.77	− 3 55.0	1.688	2.558	13.1	20.6
3 12	13 1.66	− 3 30.5	1.621	2.561	9.1	20.4
3 22	12 52.47	− 2 57.0	1.580	2.563	4.6	20.1
4 1	12 42.13	− 2 19.6	1.567	2.565	0.9	19.9
4 11	12 31.82	− 1 44.3	1.582	2.567	5.2	20.2
4 21	12 22.65	− 1 16.8	1.624	2.568	9.7	20.4
5 1	12 15.51	− 1 1.2	1.690	2.568	13.6	20.7
5 11	12 10.93	− 1 0.0	1.776	2.568	16.9	20.9

499568 2010 ST_{22} 4 1.0 266°.05 0°.1/ 1.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.02	− 6 31.0	1.733	2.599	13.1	21.7
3 12	13 0.72	− 6 7.4	1.639	2.575	9.3	21.4
3 22	12 52.16	− 5 31.4	1.569	2.550	4.9	21.1
4 1	12 42.13	− 4 46.8	1.526	2.525	0.1	20.7
4 11	12 31.76	− 3 59.7	1.512	2.500	5.0	21.0
4 21	12 22.22	− 3 16.9	1.524	2.473	9.8	21.2
5 1	12 14.56	− 2 44.3	1.561	2.446	14.1	21.4
5 11	12 9.46	− 2 26.3	1.618	2.419	17.9	21.6

308684 2006 DS_{96} 4 1.0 327°.51 0°.6/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.50	− 7 19.0	1.244	2.127	15.9	20.4
3 12	12 59.35	− 7 3.8	1.174	2.117	11.4	20.1
3 22	12 51.55	− 6 32.6	1.125	2.108	6.0	19.7
4 1	12 42.13	− 5 50.2	1.101	2.100	0.6	19.3
4 11	12 32.56	− 5 4.6	1.102	2.092	5.7	19.7
4 21	12 24.26	− 4 24.1	1.126	2.085	11.2	19.9
5 1	12 18.40	− 3 56.0	1.172	2.079	16.2	20.2
5 11	12 15.65	− 3 45.1	1.235	2.073	20.3	20.5

304621 2006 VO_{114} 4 1.0 82°.55 0°.8/31.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.17	− 2 57.1	2.275	3.144	10.2	21.5
3 12	12 57.36	− 2 38.9	2.210	3.149	7.0	21.3
3 22	12 50.12	− 2 15.1	2.172	3.155	3.5	21.1
4 1	12 42.14	− 1 49.3	2.162	3.160	0.9	20.9
4 11	12 34.20	− 1 25.7	2.181	3.166	4.1	21.2
4 21	12 27.05	− 1 7.9	2.229	3.171	7.5	21.4
5 1	12 21.32	− 0 58.9	2.302	3.176	10.6	21.6
5 11	12 17.42	− 1 0.5	2.397	3.182	13.2	21.8

94348 2001 QL_{93} 4 1.0 169°.91 0°.8/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.28	− 8 13.9	1.640	2.502	13.9	19.8
3 12	13 1.41	− 7 57.6	1.572	2.505	9.9	19.5
3 22	12 52.38	− 7 27.9	1.528	2.508	5.3	19.3
4 1	12 42.14	− 6 48.7	1.511	2.510	0.9	18.9
4 11	12 31.90	− 6 6.2	1.522	2.511	4.7	19.2
4 21	12 22.81	− 5 26.8	1.560	2.512	9.3	19.5
5 1	12 15.80	− 4 56.3	1.622	2.513	13.4	19.7
5 11	12 11.41	− 4 38.7	1.705	2.513	16.8	20.0

110284 2001 SD_{259} 4 1.0 137°.57 0°.4/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.03	− 7 55.0	2.094	2.951	11.5	21.8
3 12	12 58.71	− 7 23.2	2.031	2.963	8.1	21.6
3 22	12 50.83	− 6 40.6	1.994	2.974	4.3	21.3
4 1	12 42.14	− 5 51.3	1.986	2.985	0.4	21.1
4 11	12 33.53	− 5 0.8	2.007	2.995	3.9	21.4
4 21	12 25.85	− 4 14.4	2.056	3.005	7.7	21.6
5 1	12 19.76	− 3 36.7	2.132	3.014	11.0	21.8
5 11	12 15.70	− 3 10.9	2.229	3.022	13.8	22.0

301034 2008 SG_{266} 4 1.0 152°.19 0°.4/31.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 6.54	− 6 4.2	1.481	2.356	14.3	21.5
3 12	13 0.29	− 5 22.7	1.419	2.360	10.0	21.3
3 22	12 51.83	− 4 27.8	1.380	2.364	5.1	21.0
4 1	12 42.14	− 3 25.9	1.368	2.367	0.5	20.6
4 11	12 32.50	− 2 25.1	1.383	2.370	5.4	21.0
4 21	12 24.11	− 1 33.2	1.424	2.373	10.3	21.3
5 1	12 17.90	− 0 56.1	1.488	2.376	14.6	21.6
5 11	12 14.39	− 0 37.0	1.571	2.378	18.1	21.8

457625 2009 BK_{104} 4 1.0 6°.48 3°.0/29.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.94	− 1 34.8	1.222	2.120	15.0	21.1
3 12	12 57.38	− 0 21.6	1.167	2.120	10.3	20.8
3 22	12 50.42	+ 1 2.5	1.134	2.120	5.3	20.5
4 1	12 42.14	+ 2 27.3	1.126	2.122	3.3	20.4
4 11	12 33.92	+ 3 41.5	1.143	2.123	7.7	20.7
4 21	12 27.05	+ 4 36.2	1.183	2.126	12.6	21.0
5 1	12 22.51	+ 5 6.3	1.244	2.129	17.0	21.2
5 11	12 20.82	+ 5 10.6	1.321	2.132	20.7	21.5

129755 1999 EK_{8} 4 1.0 242°.84 1°.7/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.18	−10 47.2	1.779	2.631	13.5	20.7
3 12	13 0.75	−10 29.3	1.688	2.614	9.8	20.5
3 22	12 52.13	− 9 55.5	1.622	2.598	5.6	20.2
4 1	12 42.14	− 9 8.7	1.583	2.580	1.8	19.9
4 11	12 31.89	− 8 14.6	1.572	2.562	4.5	20.0
4 21	12 22.53	− 7 19.9	1.589	2.542	9.0	20.2
5 1	12 15.04	− 6 31.7	1.630	2.523	13.3	20.4
5 11	12 10.07	− 5 55.6	1.693	2.502	16.9	20.6

79601 1998 RB_{43} 4 1.0 176°.23 2°.0/ 2.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.60	−12 17.9	1.985	2.829	12.6	20.7
3 12	12 59.30	−11 59.9	1.910	2.831	9.2	20.5
3 22	12 51.22	−11 26.9	1.860	2.833	5.4	20.3
4 1	12 42.15	−10 41.8	1.838	2.834	2.2	20.0
4 11	12 33.05	− 9 49.7	1.845	2.834	4.0	20.2
4 21	12 24.87	− 8 56.7	1.880	2.834	7.8	20.4
5 1	12 18.39	− 8 8.8	1.940	2.834	11.4	20.6
5 11	12 14.11	− 7 31.0	2.023	2.833	14.5	20.8

210991 2001 WK_{90} 4 1.0 40°.67 7°.3/10.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.66	−30 5.8	2.250	2.999	14.3	19.9
3 12	12 56.60	−30 15.5	2.168	3.002	12.2	19.7
3 22	12 49.85	−30 0.6	2.107	3.004	9.9	19.6
4 1	12 42.15	−29 20.4	2.071	3.007	8.0	19.4
4 11	12 34.41	−28 17.7	2.060	3.010	7.3	19.4
4 21	12 27.51	−26 58.1	2.075	3.013	8.3	19.5
5 1	12 22.20	−25 29.2	2.117	3.016	10.3	19.6
5 11	12 18.97	−23 59.1	2.181	3.019	12.6	19.7

196535 2003 OR_{27} 4 1.0 246°.92 3°.4/28.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.97	+ 2 48.7	2.042	2.925	10.5	20.1
3 12	12 56.74	+ 3 59.1	1.970	2.916	7.3	19.9
3 22	12 49.91	+ 5 13.3	1.925	2.906	4.3	19.7
4 1	12 42.16	+ 6 24.5	1.909	2.896	3.8	19.7
4 11	12 34.37	+ 7 25.7	1.920	2.886	6.6	19.8
4 21	12 27.37	+ 8 11.7	1.959	2.875	10.0	20.0
5 1	12 21.88	+ 8 39.2	2.021	2.864	13.2	20.2
5 11	12 18.37	+ 8 47.4	2.103	2.853	15.9	20.4

109661 2001 RQ_{16} 4 1.0 201°.80 1°.2/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.58	−10 33.5	2.285	3.131	11.1	21.2
3 12	12 58.45	−10 6.3	2.203	3.126	8.0	21.0
3 22	12 50.76	− 9 26.6	2.146	3.121	4.5	20.7
4 1	12 42.16	− 8 37.6	2.117	3.115	1.3	20.5
4 11	12 33.51	− 7 43.9	2.119	3.108	3.6	20.6
4 21	12 25.61	− 6 51.0	2.150	3.101	7.2	20.8
5 1	12 19.16	− 6 4.0	2.207	3.093	10.5	21.0
5 11	12 14.62	− 5 27.0	2.287	3.084	13.4	21.2

217068 2001 SW_{68} 4 1.0 164°.16 1°.8/29.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.78	− 0 38.6	2.513	3.383	9.4	21.7
3 12	12 57.67	+ 0 18.2	2.450	3.390	6.4	21.5
3 22	12 50.25	+ 1 19.5	2.414	3.397	3.3	21.3
4 1	12 42.17	+ 2 20.4	2.408	3.403	2.0	21.2
4 11	12 34.14	+ 3 15.8	2.433	3.408	4.7	21.4
4 21	12 26.85	+ 4 1.4	2.487	3.412	7.7	21.6
5 1	12 20.88	+ 4 34.1	2.567	3.415	10.5	21.8
5 11	12 16.60	+ 4 52.7	2.668	3.418	12.9	22.0

500376 2012 TT_{57} 4 1.0 158°.66 0°.9/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.12	−10 33.7	2.988	3.828	8.9	22.7
3 12	12 55.71	− 9 58.4	2.915	3.836	6.4	22.5
3 22	12 49.22	− 9 13.5	2.869	3.844	3.6	22.4
4 1	12 42.17	− 8 22.0	2.853	3.850	1.0	22.2
4 11	12 35.15	− 7 27.7	2.868	3.857	2.8	22.3
4 21	12 28.72	− 6 34.6	2.913	3.862	5.6	22.5
5 1	12 23.38	− 5 46.7	2.985	3.867	8.2	22.7
5 11	12 19.45	− 5 7.0	3.082	3.872	10.5	22.8

374089 2004 RV_{211} 4 1.0 177°.57 5°.2/ 7.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 5.14	−23 49.5	2.480	3.258	12.4	21.9
3 12	12 58.84	−23 56.6	2.395	3.260	10.1	21.7
3 22	12 50.96	−23 44.8	2.334	3.261	7.6	21.6
4 1	12 42.17	−23 14.0	2.300	3.262	5.6	21.4
4 11	12 33.33	−22 27.0	2.294	3.263	5.4	21.4
4 21	12 25.24	−21 28.8	2.317	3.262	7.1	21.5
5 1	12 18.62	−20 25.2	2.367	3.262	9.6	21.7
5 11	12 13.92	−19 22.9	2.440	3.260	12.0	21.8

508641 2017 TA_{10} 4 1.0 178°.96 1°.6/30.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.50	− 1 41.9	2.214	3.088	10.3	21.4
3 12	12 56.96	− 0 57.2	2.147	3.089	7.0	21.2
3 22	12 49.97	− 0 6.7	2.106	3.089	3.6	21.0
4 1	12 42.19	+ 0 44.8	2.093	3.090	1.7	20.9
4 11	12 34.42	+ 1 31.7	2.110	3.090	4.7	21.1
4 21	12 27.45	+ 2 9.6	2.155	3.089	8.2	21.3
5 1	12 21.89	+ 2 34.9	2.224	3.089	11.3	21.5
5 11	12 18.19	+ 2 46.1	2.315	3.088	14.0	21.7

341509 2007 TD_{414} 4 1.0 140°.51 0°.8/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.87	− 3 1.3	2.662	3.526	9.1	21.8
3 12	12 56.98	− 2 30.3	2.600	3.537	6.2	21.6
3 22	12 49.89	− 1 54.1	2.565	3.548	3.1	21.4
4 1	12 42.19	− 1 16.3	2.560	3.558	0.9	21.2
4 11	12 34.57	− 0 41.0	2.585	3.568	3.7	21.5
4 21	12 27.64	− 0 11.6	2.640	3.577	6.8	21.7
5 1	12 21.95	+ 0 9.0	2.721	3.586	9.5	21.9
5 11	12 17.84	+ 0 19.1	2.824	3.594	11.8	22.0

7708 Fennimore 4 1.0 334°.74 0°.6/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.49	− 4 43.2	1.216	2.106	15.6	16.9
3 12	12 58.69	− 4 23.7	1.146	2.095	11.0	16.6
3 22	12 51.26	− 3 51.2	1.098	2.083	5.6	16.2
4 1	12 42.20	− 3 11.4	1.074	2.073	0.6	15.9
4 11	12 32.98	− 2 32.4	1.075	2.064	6.2	16.2
4 21	12 25.01	− 2 2.3	1.098	2.055	11.7	16.5
5 1	12 19.48	− 1 47.3	1.143	2.048	16.7	16.7
5 11	12 17.05	− 1 50.9	1.205	2.041	20.8	17.0

19471 1998 HK_{52} 4 1.0 351°.50 5°.3/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.76	+ 9 0.3	1.800	2.690	11.4	17.6
3 12	12 57.40	+ 9 44.4	1.742	2.685	8.3	17.4
3 22	12 50.28	+10 24.9	1.708	2.681	5.7	17.3
4 1	12 42.20	+10 54.9	1.702	2.678	5.7	17.2
4 11	12 34.18	+11 9.0	1.721	2.675	8.2	17.4
4 21	12 27.14	+11 4.1	1.766	2.673	11.4	17.6
5 1	12 21.84	+10 39.5	1.833	2.672	14.5	17.8
5 11	12 18.73	+ 9 56.6	1.918	2.671	17.1	18.0

300181 2006 WK_{45} 4 1.0 87°.22 0°.5/ 1.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	12 59.85	− 9 17.0	2.287	3.144	10.6	21.1
3 12	12 55.10	− 8 28.6	2.218	3.149	7.5	20.9
3 22	12 49.01	− 7 28.6	2.175	3.155	4.0	20.6
4 1	12 42.20	− 6 21.2	2.161	3.160	0.6	20.4
4 11	12 35.44	− 5 12.2	2.176	3.165	3.5	20.6
4 21	12 29.42	− 4 7.1	2.220	3.171	7.0	20.9
5 1	12 24.73	− 3 11.1	2.289	3.176	10.2	21.1
5 11	12 21.76	− 2 27.5	2.381	3.181	12.9	21.3

302129 2001 QY_{193} 4 1.0 246°.29 3°.0/ 3.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.46	−15 11.0	1.769	2.606	14.2	21.1
3 12	13 0.33	−14 46.1	1.673	2.588	10.7	20.9
3 22	12 51.99	−14 0.1	1.600	2.568	6.7	20.6
4 1	12 42.21	−12 55.1	1.554	2.547	3.3	20.3
4 11	12 32.14	−11 37.1	1.536	2.525	4.7	20.3
4 21	12 22.93	−10 14.1	1.546	2.503	9.0	20.5
5 1	12 15.60	− 8 55.1	1.581	2.480	13.2	20.7
5 11	12 10.83	− 7 47.8	1.637	2.456	17.0	20.9

497561 2006 DK_{142} 4 1.0 222°.55 2°.6/29.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.83	+ 0 10.6	1.947	2.830	11.0	21.4
3 12	12 56.67	+ 1 15.1	1.882	2.828	7.6	21.2
3 22	12 49.89	+ 2 25.3	1.843	2.826	4.0	21.0
4 1	12 42.21	+ 3 34.6	1.831	2.824	2.9	20.9
4 11	12 34.56	+ 4 35.9	1.849	2.822	5.9	21.1
4 21	12 27.76	+ 5 23.8	1.892	2.820	9.6	21.3
5 1	12 22.55	+ 5 54.5	1.960	2.818	12.9	21.5
5 11	12 19.36	+ 6 6.8	2.047	2.816	15.7	21.7

371724 2007 EZ_{85} 4 1.0 109°.74 0°.3/31.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.66	− 2 54.1	1.854	2.717	12.5	20.5
3 12	13 3.55	− 3 13.5	1.787	2.723	8.7	20.2
3 22	12 53.43	− 3 27.6	1.747	2.729	4.4	20.0
4 1	12 42.22	− 3 38.9	1.735	2.734	0.3	19.7
4 11	12 31.06	− 3 50.5	1.753	2.739	4.6	20.0
4 21	12 21.01	− 4 5.5	1.799	2.745	8.8	20.3
5 1	12 12.93	− 4 26.3	1.871	2.750	12.5	20.5
5 11	12 7.33	− 4 54.7	1.965	2.755	15.5	20.7

285149 1995 UN_{50} 4 1.0 228°.52 3°.2/28.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 2.27	+ 5 23.4	2.636	3.513	8.7	21.2
3 12	12 56.68	+ 6 7.1	2.563	3.504	6.1	21.0
3 22	12 49.80	+ 6 51.0	2.518	3.495	3.8	20.9
4 1	12 42.22	+ 7 30.5	2.502	3.485	3.4	20.8
4 11	12 34.61	+ 8 1.2	2.515	3.475	5.6	21.0
4 21	12 27.64	+ 8 20.2	2.556	3.465	8.3	21.1
5 1	12 21.87	+ 8 25.4	2.622	3.454	10.9	21.3
5 11	12 17.70	+ 8 16.6	2.710	3.443	13.1	21.4

312135 2007 TH_{284} 4 1.0 84°.78 3°.1/ 3.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.13	−13 53.1	1.521	2.369	15.5	20.7
3 12	13 1.26	−13 46.2	1.471	2.391	11.5	20.5
3 22	12 52.27	−13 19.7	1.443	2.413	7.0	20.3
4 1	12 42.22	−12 37.0	1.441	2.434	3.3	20.1
4 11	12 32.40	−11 44.7	1.466	2.455	4.8	20.3
4 21	12 23.96	−10 50.4	1.517	2.476	8.9	20.6
5 1	12 17.76	−10 1.7	1.593	2.496	12.9	20.9
5 11	12 14.24	− 9 24.2	1.690	2.516	16.2	21.1

468237 2015 BM_{228} 4 1.0 256°.23 7°.6/23.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.01	+15 9.2	1.918	2.799	11.3	21.4
3 12	12 59.02	+16 33.4	1.854	2.783	8.9	21.3
3 22	12 51.16	+17 50.4	1.816	2.767	7.6	21.2
4 1	12 42.22	+18 51.3	1.804	2.750	8.3	21.2
4 11	12 33.22	+19 29.4	1.819	2.733	10.6	21.3
4 21	12 25.13	+19 41.2	1.857	2.716	13.4	21.4
5 1	12 18.78	+19 26.5	1.916	2.698	16.1	21.5
5 11	12 14.70	+18 47.9	1.992	2.680	18.4	21.7

175358 2005 QT_{26} 4 1.0 289°.27 1°.2/30.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.09	− 2 15.4	2.224	3.097	10.3	20.1
3 12	12 56.78	− 1 47.3	2.143	3.085	7.1	19.9
3 22	12 49.95	− 1 13.1	2.088	3.072	3.6	19.7
4 1	12 42.22	− 0 36.9	2.062	3.059	1.3	19.5
4 11	12 34.42	− 0 3.6	2.064	3.047	4.5	19.7
4 21	12 27.31	+ 0 22.6	2.094	3.034	8.1	19.9
5 1	12 21.60	+ 0 38.2	2.149	3.022	11.4	20.1
5 11	12 17.74	+ 0 41.2	2.226	3.009	14.1	20.2

436008 2009 GG_{6} 4 1.0 237°.03 2°.7/ 4.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	12 59.70	−17 17.2	2.612	3.432	10.7	21.5
3 12	12 54.98	−16 40.5	2.522	3.424	8.1	21.4
3 22	12 48.97	−15 47.8	2.457	3.416	5.3	21.2
4 1	12 42.22	−14 41.5	2.420	3.408	3.0	21.0
4 11	12 35.43	−13 26.0	2.412	3.400	3.5	21.0
4 21	12 29.26	−12 6.9	2.434	3.391	6.1	21.2
5 1	12 24.29	−10 50.0	2.484	3.382	9.0	21.3
5 11	12 20.93	− 9 40.5	2.557	3.373	11.6	21.5

77631 2001 KK_{49} 4 1.0 350°.89 0°.9/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.59	− 4 30.7	1.226	2.118	15.4	18.5
3 12	12 57.96	− 4 2.5	1.163	2.112	10.8	18.2
3 22	12 50.82	− 3 21.5	1.121	2.107	5.5	17.9
4 1	12 42.22	− 2 34.0	1.104	2.103	0.9	17.6
4 11	12 33.57	− 1 48.9	1.111	2.100	6.1	17.9
4 21	12 26.22	− 1 13.9	1.142	2.098	11.5	18.2
5 1	12 21.24	− 0 55.3	1.194	2.097	16.2	18.5
5 11	12 19.22	− 0 55.8	1.263	2.097	20.2	18.7

176475 2001 XO_{156} 4 1.0 307°.91 4°.9/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.11	−22 31.3	2.317	3.113	12.6	20.0
3 12	12 56.13	−22 26.5	2.234	3.112	10.1	19.9
3 22	12 49.61	−22 1.9	2.173	3.111	7.5	19.7
4 1	12 42.23	−21 18.4	2.139	3.110	5.3	19.6
4 11	12 34.79	−20 19.7	2.133	3.109	5.1	19.5
4 21	12 28.11	−19 11.1	2.154	3.108	7.1	19.6
5 1	12 22.85	−17 59.3	2.202	3.107	9.7	19.8
5 11	12 19.49	−16 50.8	2.273	3.106	12.4	20.0

267472 2002 FW_{22} 4 1.0 44°.26 5°.6/28.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.31	+ 7 55.1	1.342	2.235	14.3	19.5
3 12	13 1.29	+ 8 31.3	1.315	2.261	10.1	19.3
3 22	12 52.20	+ 9 2.1	1.311	2.288	6.5	19.2
4 1	12 42.23	+ 9 20.0	1.333	2.316	5.9	19.2
4 11	12 32.78	+ 9 19.8	1.380	2.344	8.8	19.4
4 21	12 24.94	+ 8 59.7	1.452	2.372	12.5	19.7
5 1	12 19.49	+ 8 20.6	1.545	2.401	15.9	20.0
5 11	12 16.75	+ 7 25.2	1.655	2.430	18.6	20.3

455981 2005 WE_{82} 4 1.0 126°.63 2°.7/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.70	− 0 2.9	1.504	2.386	13.7	21.4
3 12	13 1.69	+ 0 42.7	1.452	2.397	9.4	21.1
3 22	12 52.52	+ 1 34.0	1.424	2.408	4.9	20.9
4 1	12 42.25	+ 2 23.7	1.423	2.418	2.9	20.8
4 11	12 32.16	+ 3 4.4	1.450	2.428	6.6	21.0
4 21	12 23.41	+ 3 30.3	1.502	2.437	11.0	21.3
5 1	12 16.89	+ 3 38.6	1.577	2.446	14.9	21.6
5 11	12 13.04	+ 3 28.6	1.671	2.454	18.1	21.8

211431 2002 XZ_{58} 4 1.0 94°.56 2°.1/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 3.82	+ 1 7.4	2.362	3.236	9.7	20.5
3 12	12 57.68	+ 1 45.4	2.317	3.259	6.6	20.3
3 22	12 50.27	+ 2 25.7	2.298	3.281	3.5	20.1
4 1	12 42.26	+ 3 3.8	2.309	3.302	2.3	20.1
4 11	12 34.43	+ 3 35.2	2.350	3.324	4.8	20.3
4 21	12 27.45	+ 3 56.7	2.418	3.345	7.9	20.5
5 1	12 21.88	+ 4 6.3	2.512	3.365	10.6	20.7
5 11	12 18.05	+ 4 3.2	2.627	3.385	12.9	20.9

70253 1999 RE_{86} 4 1.0 144°.15 3°.4/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.68	+ 1 21.7	1.717	2.601	12.2	18.5
3 12	12 58.75	+ 2 35.4	1.662	2.608	8.3	18.3
3 22	12 50.99	+ 3 53.8	1.632	2.615	4.6	18.1
4 1	12 42.26	+ 5 8.9	1.630	2.621	3.7	18.0
4 11	12 33.64	+ 6 12.7	1.656	2.626	6.9	18.2
4 21	12 26.10	+ 6 59.3	1.708	2.631	10.7	18.4
5 1	12 20.41	+ 7 25.5	1.783	2.636	14.2	18.7
5 11	12 17.03	+ 7 30.9	1.877	2.641	17.1	18.9

268511 2005 YK_{153} 4 1.0 168°.14 0°.7/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.61	− 8 42.6	2.224	3.077	11.1	21.4
3 12	12 58.46	− 8 16.2	2.152	3.081	7.9	21.2
3 22	12 50.78	− 7 38.8	2.106	3.085	4.2	20.9
4 1	12 42.27	− 6 54.1	2.089	3.088	0.8	20.7
4 11	12 33.77	− 6 6.8	2.101	3.090	3.7	20.9
4 21	12 26.08	− 5 22.0	2.142	3.092	7.3	21.1
5 1	12 19.89	− 4 44.4	2.210	3.094	10.6	21.3
5 11	12 15.63	− 4 17.3	2.299	3.094	13.4	21.5

12126 1999 RM_{11} 4 1.0 280°.70 0°.2/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	12 55.51	− 6 46.3	4.440	5.293	6.0	17.4
3 12	12 51.69	− 6 25.4	4.347	5.277	4.2	17.3
3 22	12 47.17	− 5 59.8	4.282	5.262	2.2	17.1
4 1	12 42.26	− 5 31.2	4.247	5.246	0.2	16.9
4 11	12 37.31	− 5 1.8	4.243	5.230	2.1	17.1
4 21	12 32.68	− 4 33.7	4.268	5.215	4.1	17.2
5 1	12 28.66	− 4 9.1	4.322	5.199	6.0	17.3
5 11	12 25.53	− 3 49.7	4.400	5.183	7.7	17.4

286996 2002 QT_{56} 4 1.0 219°.07 1°.3/30.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.16	− 3 6.7	1.964	2.835	11.5	22.2
3 12	12 59.07	− 2 20.1	1.886	2.827	8.0	22.0
3 22	12 51.19	− 1 24.9	1.834	2.818	4.0	21.7
4 1	12 42.28	− 0 26.6	1.811	2.809	1.5	21.5
4 11	12 33.29	+ 0 28.5	1.817	2.799	5.1	21.8
4 21	12 25.15	+ 1 14.5	1.850	2.788	9.1	22.0
5 1	12 18.66	+ 1 46.9	1.908	2.777	12.7	22.2
5 11	12 14.34	+ 2 3.4	1.987	2.766	15.8	22.4

416278 2003 KG 4 1.0 310°.46 10°.7/21.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.06	+20 38.6	1.560	2.440	13.4	20.2
3 12	12 59.47	+22 8.5	1.499	2.417	11.4	20.0
3 22	12 51.56	+23 24.2	1.462	2.395	10.7	19.9
4 1	12 42.28	+24 14.7	1.448	2.373	11.7	19.9
4 11	12 32.89	+24 32.0	1.457	2.351	14.0	20.0
4 21	12 24.64	+24 13.6	1.487	2.330	16.9	20.1
5 1	12 18.54	+23 21.3	1.534	2.309	19.7	20.2
5 11	12 15.17	+22 0.0	1.597	2.288	22.2	20.4

315414 2007 VH_{227} 4 1.0 85°.36 3°.4/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.32	+ 1 56.4	1.509	2.395	13.4	21.0
3 12	13 0.63	+ 2 48.5	1.467	2.414	9.2	20.8
3 22	12 51.93	+ 3 43.4	1.449	2.432	5.0	20.6
4 1	12 42.29	+ 4 33.5	1.459	2.451	3.7	20.5
4 11	12 32.93	+ 5 11.4	1.495	2.469	7.1	20.8
4 21	12 24.93	+ 5 32.6	1.557	2.487	11.1	21.0
5 1	12 19.09	+ 5 35.0	1.641	2.504	14.7	21.3
5 11	12 15.80	+ 5 18.8	1.744	2.522	17.7	21.5

161522 2004 SO_{57} 4 1.0 173°.91 2°.2/ 3.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.27	−15 26.1	2.409	3.236	11.2	20.4
3 12	12 56.79	−14 42.7	2.330	3.239	8.3	20.2
3 22	12 49.92	−13 43.4	2.276	3.242	5.2	20.0
4 1	12 42.28	−12 31.2	2.251	3.243	2.5	19.8
4 11	12 34.67	−11 11.7	2.256	3.245	3.4	19.9
4 21	12 27.79	− 9 50.8	2.290	3.245	6.6	20.1
5 1	12 22.26	− 8 34.7	2.352	3.246	9.7	20.2
5 11	12 18.52	− 7 28.4	2.437	3.245	12.4	20.4

214215 2005 EK_{81} 4 1.0 252°.82 0°.9/31.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.48	− 5 36.6	1.676	2.551	12.9	20.8
3 12	12 58.17	− 4 34.6	1.598	2.539	9.0	20.5
3 22	12 50.83	− 3 18.7	1.543	2.527	4.5	20.3
4 1	12 42.29	− 1 55.6	1.516	2.515	1.0	20.0
4 11	12 33.62	− 0 33.8	1.517	2.502	5.4	20.2
4 21	12 25.90	+ 0 38.3	1.545	2.489	10.0	20.5
5 1	12 20.02	+ 1 34.2	1.596	2.476	14.2	20.7
5 11	12 16.56	+ 2 10.2	1.667	2.463	17.6	20.9

281032 2006 GX_{54} 4 1.0 220°.26 1°.6/30.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 2.61	− 1 36.4	2.128	3.003	10.6	21.2
3 12	12 57.15	− 0 52.7	2.057	2.999	7.3	21.0
3 22	12 50.15	− 0 3.0	2.012	2.996	3.7	20.7
4 1	12 42.29	+ 0 47.9	1.996	2.992	1.8	20.6
4 11	12 34.42	+ 1 34.2	2.008	2.988	4.9	20.8
4 21	12 27.34	+ 2 11.2	2.048	2.984	8.5	21.0
5 1	12 21.74	+ 2 35.3	2.113	2.980	11.8	21.2
5 11	12 18.05	+ 2 44.6	2.199	2.975	14.5	21.4

228399 2001 CM_{46} 4 1.0 128°.56 0°.6/ 1.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.40	− 8 20.4	2.014	2.874	11.8	20.8
3 12	12 57.74	− 7 52.8	1.947	2.879	8.3	20.6
3 22	12 50.46	− 7 13.7	1.904	2.884	4.4	20.4
4 1	12 42.29	− 6 27.0	1.889	2.888	0.7	20.1
4 11	12 34.16	− 5 38.2	1.904	2.893	3.9	20.4
4 21	12 26.91	− 4 52.8	1.946	2.897	7.8	20.6
5 1	12 21.26	− 4 15.6	2.013	2.901	11.3	20.8
5 11	12 17.64	− 3 50.3	2.102	2.905	14.2	21.0

161538 2004 VP_{26} 4 1.0 210°.67 1°.7/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.75	−10 48.0	1.807	2.657	13.4	20.9
3 12	13 1.07	−10 34.1	1.726	2.651	9.7	20.6
3 22	12 52.30	−10 5.1	1.670	2.645	5.6	20.4
4 1	12 42.30	− 9 24.0	1.641	2.638	1.8	20.1
4 11	12 32.17	− 8 36.3	1.640	2.630	4.4	20.3
4 21	12 23.00	− 7 48.2	1.667	2.621	8.7	20.5
5 1	12 15.72	− 7 6.2	1.720	2.612	12.7	20.7
5 11	12 10.90	− 6 35.3	1.793	2.602	16.1	20.9

247855 2003 UC_{4} 4 1.0 243°.78 3°.2/ 3.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.17	−14 44.5	1.988	2.818	13.1	21.0
3 12	13 1.40	−14 46.3	1.889	2.799	10.0	20.8
3 22	12 52.53	−14 31.6	1.815	2.780	6.4	20.5
4 1	12 42.31	−14 1.3	1.768	2.759	3.4	20.3
4 11	12 31.77	−13 19.2	1.751	2.738	4.6	20.3
4 21	12 22.00	−12 30.8	1.761	2.715	8.3	20.5
5 1	12 13.94	−11 42.9	1.798	2.692	12.1	20.7
5 11	12 8.27	−11 1.6	1.856	2.668	15.5	20.8

360567 2003 UV_{48} 4 1.0 206°.40 6°.2/26.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.34	+11 21.2	1.865	2.744	11.6	20.9
3 12	13 1.29	+12 20.5	1.804	2.740	8.7	20.7
3 22	12 52.32	+13 14.5	1.770	2.734	6.5	20.5
4 1	12 42.31	+13 55.4	1.762	2.729	6.7	20.5
4 11	12 32.33	+14 17.3	1.783	2.722	9.1	20.6
4 21	12 23.40	+14 17.2	1.829	2.716	12.2	20.8
5 1	12 16.36	+13 55.0	1.897	2.708	15.1	21.0
5 11	12 11.68	+13 12.7	1.983	2.700	17.7	21.2

72202 2000 YY_{132} 4 1.0 268°.84 4°.0/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.60	−16 56.7	1.987	2.814	13.3	19.4
3 12	12 58.83	−17 6.4	1.899	2.804	10.2	19.2
3 22	12 51.15	−16 58.7	1.835	2.793	6.9	19.0
4 1	12 42.30	−16 34.2	1.797	2.782	4.3	18.8
4 11	12 33.28	−15 56.3	1.787	2.771	4.8	18.8
4 21	12 25.06	−15 10.4	1.804	2.761	7.9	18.9
5 1	12 18.51	−14 23.1	1.847	2.750	11.4	19.1
5 11	12 14.20	−13 40.7	1.911	2.739	14.5	19.3

289836 2005 LK_{23} 4 1.0 193°.31 3°.2/ 5.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.83	−17 42.0	2.656	3.469	10.7	21.6
3 12	12 56.46	−17 32.3	2.571	3.467	8.2	21.4
3 22	12 49.76	−17 7.9	2.511	3.465	5.6	21.2
4 1	12 42.31	−16 30.4	2.480	3.463	3.4	21.1
4 11	12 34.82	−15 43.2	2.477	3.461	3.7	21.1
4 21	12 27.96	−14 50.6	2.504	3.458	6.1	21.3
5 1	12 22.34	−13 57.7	2.558	3.455	8.8	21.4
5 11	12 18.37	−13 9.2	2.635	3.452	11.3	21.6

430423 1999 TO_{34} 4 1.0 141°.02 0°.8/30.9 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.28	− 4 31.8	2.724	3.585	9.0	22.4
3 12	12 56.57	− 3 31.0	2.664	3.600	6.2	22.2
3 22	12 49.73	− 2 23.7	2.632	3.615	3.1	22.0
4 1	12 42.32	− 1 14.1	2.630	3.628	0.9	21.8
4 11	12 34.99	− 0 7.4	2.660	3.642	3.7	22.1
4 21	12 28.36	+ 0 52.0	2.719	3.654	6.7	22.3
5 1	12 22.92	+ 1 40.6	2.805	3.666	9.4	22.5
5 11	12 19.01	+ 2 16.4	2.914	3.677	11.6	22.7

34879 2001 UQ_{35} 4 1.0 24°.63 4°.4/28.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.21	+ 2 32.5	1.410	2.308	13.3	18.0
3 12	12 56.62	+ 3 58.3	1.362	2.314	9.2	17.8
3 22	12 50.00	+ 5 28.2	1.338	2.320	5.4	17.6
4 1	12 42.32	+ 6 52.0	1.339	2.327	4.9	17.6
4 11	12 34.77	+ 8 0.1	1.366	2.334	8.3	17.8
4 21	12 28.42	+ 8 45.8	1.417	2.342	12.4	18.0
5 1	12 24.11	+ 9 6.2	1.489	2.351	16.0	18.3
5 11	12 22.28	+ 9 1.9	1.578	2.360	19.1	18.5

428048 2006 DD_{135} 4 1.0 239°.75 1°.5/ 2.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 4.55	−10 1.0	1.973	2.827	12.2	21.5
3 12	12 58.67	− 9 52.0	1.896	2.823	8.8	21.2
3 22	12 51.01	− 9 30.2	1.843	2.819	5.0	21.0
4 1	12 42.33	− 8 58.6	1.818	2.815	1.6	20.7
4 11	12 33.57	− 8 21.8	1.821	2.811	4.0	20.9
4 21	12 25.67	− 7 45.1	1.852	2.806	7.9	21.1
5 1	12 19.42	− 7 13.7	1.908	2.802	11.5	21.3
5 11	12 15.33	− 6 51.7	1.985	2.797	14.6	21.5

376305 2011 FH_{150} 4 1.0 71°.56 6°.3/26.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.56	+12 7.9	1.787	2.668	11.9	20.2
3 12	13 0.62	+12 50.1	1.744	2.680	8.9	20.0
3 22	12 51.90	+13 24.6	1.727	2.692	6.6	19.9
4 1	12 42.33	+13 44.7	1.737	2.704	6.7	20.0
4 11	12 33.01	+13 45.8	1.774	2.716	8.9	20.1
4 21	12 24.90	+13 26.4	1.836	2.728	11.8	20.3
5 1	12 18.71	+12 47.4	1.920	2.740	14.7	20.5
5 11	12 14.86	+11 51.3	2.022	2.752	17.0	20.7

292797 2006 UX_{232} 4 1.0 237°.86 3°.7/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.45	−19 36.6	2.586	3.392	11.2	21.2
3 12	12 56.29	−19 22.6	2.492	3.381	8.8	21.0
3 22	12 49.72	−18 51.9	2.422	3.370	6.1	20.8
4 1	12 42.33	−18 5.9	2.380	3.359	4.0	20.7
4 11	12 34.84	−17 8.0	2.366	3.348	4.1	20.7
4 21	12 27.97	−16 3.0	2.382	3.336	6.4	20.8
5 1	12 22.36	−14 56.7	2.424	3.324	9.2	20.9
5 11	12 18.45	−13 54.6	2.490	3.312	11.7	21.1

420064 2011 EA_{6} 4 1.0 6°.22 2°.7/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	12 59.62	− 2 4.1	1.627	2.516	12.4	20.2
3 12	12 55.39	− 0 26.8	1.567	2.516	8.5	20.0
3 22	12 49.35	+ 1 20.6	1.532	2.517	4.4	19.7
4 1	12 42.32	+ 3 8.9	1.524	2.518	3.0	19.6
4 11	12 35.34	+ 4 47.9	1.543	2.519	6.7	19.9
4 21	12 29.34	+ 6 9.3	1.589	2.521	10.8	20.1
5 1	12 25.11	+ 7 7.7	1.657	2.522	14.5	20.3
5 11	12 23.10	+ 7 41.6	1.744	2.525	17.6	20.5

176162 2001 HM_{54} 4 1.0 318°.07 5°.5/27.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.74	+ 5 24.3	1.311	2.210	14.0	19.3
3 12	12 58.81	+ 6 25.4	1.240	2.191	10.0	19.0
3 22	12 51.36	+ 7 28.8	1.191	2.172	6.4	18.8
4 1	12 42.34	+ 8 24.7	1.168	2.153	6.0	18.7
4 11	12 33.12	+ 9 3.2	1.169	2.136	9.6	18.8
4 21	12 25.06	+ 9 17.8	1.192	2.118	14.1	19.0
5 1	12 19.29	+ 9 5.9	1.236	2.102	18.4	19.2
5 11	12 16.47	+ 8 28.2	1.295	2.087	22.0	19.4

364017 2005 VU_{9} 4 1.0 191°.57 1°.4/ 2.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.43	−11 23.6	2.335	3.176	11.0	22.5
3 12	12 58.36	−10 57.0	2.254	3.175	8.0	22.3
3 22	12 50.78	−10 17.6	2.199	3.172	4.6	22.1
4 1	12 42.34	− 9 28.5	2.173	3.169	1.6	21.9
4 11	12 33.87	− 8 34.2	2.177	3.166	3.5	22.0
4 21	12 26.13	− 7 40.1	2.209	3.162	7.0	22.2
5 1	12 19.82	− 6 51.3	2.269	3.157	10.2	22.4
5 11	12 15.38	− 6 12.0	2.351	3.151	13.0	22.6

298832 2004 RA_{164} 4 1.0 150°.29 0°.6/ 1.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.21	− 9 21.9	1.874	2.729	12.7	21.5
3 12	12 59.75	− 8 32.8	1.810	2.740	9.0	21.3
3 22	12 51.52	− 7 29.5	1.771	2.750	4.8	21.0
4 1	12 42.35	− 6 17.3	1.760	2.759	0.6	20.7
4 11	12 33.26	− 5 3.2	1.778	2.767	4.2	21.0
4 21	12 25.22	− 3 54.3	1.825	2.774	8.4	21.3
5 1	12 18.96	− 2 56.7	1.897	2.781	12.1	21.5
5 11	12 14.95	− 2 14.4	1.991	2.787	15.2	21.8

299529 2006 DS_{21} 4 1.1 146°.92 0°.9/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.88	− 8 31.1	1.712	2.570	13.6	21.3
3 12	13 1.76	− 8 13.8	1.648	2.579	9.7	21.1
3 22	12 52.61	− 7 43.3	1.609	2.588	5.2	20.8
4 1	12 42.35	− 7 3.7	1.597	2.596	1.0	20.5
4 11	12 32.17	− 6 20.8	1.614	2.603	4.5	20.8
4 21	12 23.15	− 5 40.9	1.658	2.610	8.9	21.1
5 1	12 16.15	− 5 9.5	1.728	2.616	12.8	21.3
5 11	12 11.67	− 4 50.4	1.817	2.622	16.1	21.6

67151 2000 AA_{188} 4 1.1 183°.11 5°.1/25.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.62	+11 10.0	2.505	3.383	9.0	20.2
3 12	12 56.97	+12 28.0	2.450	3.384	6.7	20.1
3 22	12 50.00	+13 42.2	2.423	3.384	5.2	20.0
4 1	12 42.34	+14 46.4	2.424	3.384	5.6	20.0
4 11	12 34.72	+15 35.5	2.455	3.382	7.5	20.1
4 21	12 27.83	+16 6.4	2.511	3.381	9.9	20.3
5 1	12 22.23	+16 18.0	2.591	3.379	12.2	20.4
5 11	12 18.33	+16 11.1	2.690	3.376	14.1	20.6

508331 2015 MV_{33} 4 1.1 249°.72 4°.1/26.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 0.29	+ 6 37.7	2.370	3.254	9.2	21.9
3 12	12 55.44	+ 7 48.7	2.306	3.249	6.6	21.7
3 22	12 49.26	+ 8 59.7	2.269	3.243	4.4	21.5
4 1	12 42.34	+10 4.5	2.260	3.237	4.5	21.5
4 11	12 35.42	+10 57.4	2.280	3.231	6.7	21.6
4 21	12 29.20	+11 34.7	2.327	3.225	9.4	21.8
5 1	12 24.25	+11 54.1	2.397	3.219	12.1	22.0
5 11	12 21.00	+11 55.5	2.487	3.212	14.3	22.1

39919 1998 FP_{51} 4 1.1 271°.49 1°.7/30.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.79	− 2 33.8	1.601	2.480	13.2	19.6
3 12	12 59.94	− 1 54.5	1.519	2.463	9.2	19.3
3 22	12 51.85	− 1 5.5	1.461	2.446	4.7	19.0
4 1	12 42.35	− 0 12.7	1.430	2.428	1.8	18.7
4 11	12 32.64	+ 0 36.4	1.426	2.409	6.0	19.0
4 21	12 23.89	+ 1 14.8	1.448	2.391	10.7	19.2
5 1	12 17.11	+ 1 37.4	1.494	2.373	15.0	19.4
5 11	12 12.96	+ 1 41.5	1.558	2.354	18.7	19.6

511682 2015 BV_{462} 4 1.1 180°.58 2°.9/28.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.27	+ 1 28.7	2.072	2.954	10.5	21.9
3 12	12 56.93	+ 2 32.8	2.009	2.954	7.2	21.7
3 22	12 50.05	+ 3 41.0	1.972	2.954	4.0	21.5
4 1	12 42.35	+ 4 46.9	1.964	2.954	3.1	21.4
4 11	12 34.67	+ 5 44.0	1.984	2.954	6.0	21.6
4 21	12 27.83	+ 6 27.5	2.032	2.954	9.3	21.8
5 1	12 22.49	+ 6 54.1	2.103	2.953	12.5	22.0
5 11	12 19.08	+ 7 3.1	2.194	2.952	15.1	22.2

234700 2002 GW_{144} 4 1.1 186°.24 3°.3/28.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.65	+ 3 22.7	2.088	2.969	10.5	20.5
3 12	12 57.87	+ 4 17.5	2.025	2.969	7.3	20.3
3 22	12 50.53	+ 5 14.4	1.989	2.969	4.2	20.1
4 1	12 42.35	+ 6 7.2	1.980	2.968	3.6	20.1
4 11	12 34.21	+ 6 50.1	2.001	2.967	6.2	20.3
4 21	12 26.91	+ 7 18.9	2.048	2.966	9.5	20.4
5 1	12 21.14	+ 7 31.2	2.119	2.964	12.6	20.6
5 11	12 17.35	+ 7 26.6	2.211	2.962	15.1	20.8

472398 2015 BD_{184} 4 1.1 306°.48 4°.7/27.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.63	+ 6 22.3	1.774	2.663	11.6	20.7
3 12	12 58.10	+ 7 20.0	1.712	2.657	8.2	20.5
3 22	12 50.74	+ 8 17.4	1.675	2.652	5.3	20.3
4 1	12 42.35	+ 9 7.0	1.665	2.647	5.1	20.2
4 11	12 33.98	+ 9 42.0	1.682	2.641	7.9	20.4
4 21	12 26.58	+ 9 58.4	1.724	2.636	11.4	20.6
5 1	12 20.95	+ 9 54.2	1.789	2.631	14.6	20.8
5 11	12 17.59	+ 9 30.2	1.872	2.627	17.4	21.0

303249 2004 QL_{24} 4 1.1 208°.63 2°.0/30.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.10	− 2 57.0	1.821	2.696	12.1	21.0
3 12	12 59.14	− 1 41.4	1.747	2.690	8.3	20.7
3 22	12 51.30	− 0 15.3	1.699	2.683	4.2	20.5
4 1	12 42.36	+ 1 13.9	1.680	2.676	2.1	20.3
4 11	12 33.38	+ 2 37.7	1.689	2.668	5.8	20.5
4 21	12 25.32	+ 3 48.7	1.726	2.659	10.0	20.8
5 1	12 19.03	+ 4 41.5	1.787	2.649	13.8	21.0
5 11	12 15.02	+ 5 13.7	1.867	2.638	16.9	21.2

238797 2005 LM_{21} 4 1.1 189°.74 2°.0/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.70	− 0 2.5	2.151	3.028	10.4	20.2
3 12	12 57.19	+ 0 35.1	2.085	3.028	7.1	20.0
3 22	12 50.18	+ 1 17.0	2.045	3.028	3.7	19.8
4 1	12 42.36	+ 1 58.3	2.033	3.028	2.1	19.7
4 11	12 34.56	+ 2 33.9	2.050	3.028	5.1	19.9
4 21	12 27.56	+ 2 59.7	2.095	3.027	8.5	20.1
5 1	12 22.03	+ 3 12.7	2.164	3.027	11.6	20.3
5 11	12 18.39	+ 3 11.6	2.254	3.027	14.3	20.5

499577 2010 TB_{1} 4 1.1 285°.55 0°.5/31.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.74	− 6 4.9	1.518	2.394	14.0	22.1
3 12	12 59.40	− 5 24.7	1.428	2.370	9.9	21.8
3 22	12 51.67	− 4 29.4	1.361	2.345	5.1	21.4
4 1	12 42.37	− 3 24.4	1.321	2.320	0.5	21.0
4 11	12 32.73	− 2 18.0	1.308	2.295	5.6	21.3
4 21	12 23.99	− 1 18.5	1.320	2.270	10.8	21.6
5 1	12 17.29	− 0 33.5	1.354	2.245	15.5	21.8
5 11	12 13.35	− 0 7.7	1.408	2.220	19.6	22.0

471356 2011 QT_{94} 4 1.1 219°.95 0°.7/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 0.61	− 9 58.0	2.882	3.727	9.1	23.3
3 12	12 55.53	− 9 17.6	2.793	3.718	6.5	23.1
3 22	12 49.28	− 8 27.0	2.731	3.708	3.6	22.9
4 1	12 42.37	− 7 29.1	2.699	3.697	0.8	22.6
4 11	12 35.40	− 6 28.3	2.697	3.686	2.9	22.8
4 21	12 28.98	− 5 28.9	2.725	3.674	6.0	23.0
5 1	12 23.62	− 4 35.3	2.780	3.662	8.8	23.1
5 11	12 19.72	− 3 50.7	2.859	3.649	11.2	23.3

98396 2000 US_2 4 1.1 180°.03 1°.3/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.80	− 2 41.0	1.836	2.706	12.2	19.4
3 12	13 0.95	− 2 8.4	1.768	2.708	8.4	19.2
3 22	12 52.20	− 1 28.2	1.726	2.709	4.3	18.9
4 1	12 42.39	− 0 45.7	1.711	2.709	1.4	18.7
4 11	12 32.59	− 0 6.9	1.726	2.709	5.2	19.0
4 21	12 23.81	+ 0 23.1	1.768	2.708	9.3	19.2
5 1	12 16.88	+ 0 40.2	1.835	2.706	13.0	19.4
5 11	12 12.30	+ 0 42.6	1.922	2.704	16.1	19.7

183575 2003 QP_{72} 4 1.1 261°.98 2°.9/28.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	12 59.52	+ 3 57.2	2.647	3.528	8.5	20.0
3 12	12 54.83	+ 4 54.4	2.575	3.519	5.9	19.9
3 22	12 48.93	+ 5 53.2	2.531	3.510	3.6	19.7
4 1	12 42.37	+ 6 48.8	2.516	3.501	3.2	19.6
4 11	12 35.79	+ 7 36.2	2.530	3.492	5.4	19.8
4 21	12 29.80	+ 8 12.0	2.572	3.483	8.1	19.9
5 1	12 24.94	+ 8 33.6	2.638	3.474	10.7	20.1
5 11	12 21.60	+ 8 40.2	2.725	3.464	12.9	20.2

383941 2008 SL_{244} 4 1.1 174°.15 3°.8/28.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.11	+ 7 4.5	2.376	3.251	9.6	21.4
3 12	12 59.41	+ 7 39.6	2.315	3.253	6.8	21.2
3 22	12 51.28	+ 8 12.9	2.280	3.255	4.4	21.0
4 1	12 42.39	+ 8 39.5	2.276	3.256	4.0	21.0
4 11	12 33.58	+ 8 55.3	2.300	3.257	6.2	21.2
4 21	12 25.58	+ 8 57.7	2.353	3.258	9.0	21.3
5 1	12 19.03	+ 8 45.7	2.430	3.258	11.7	21.5
5 11	12 14.33	+ 8 19.6	2.528	3.258	14.0	21.7

29646 Polya 4 1.1 143°.11 1°.4/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.85	−11 10.2	1.524	2.384	14.8	20.1
3 12	12 59.88	−10 30.6	1.459	2.390	10.7	19.9
3 22	12 51.74	− 9 32.3	1.418	2.395	6.0	19.6
4 1	12 42.40	− 8 20.4	1.403	2.401	1.6	19.3
4 11	12 33.11	− 7 3.3	1.415	2.405	4.7	19.6
4 21	12 25.03	− 5 49.8	1.453	2.410	9.5	19.8
5 1	12 19.07	− 4 47.7	1.516	2.414	13.7	20.1
5 11	12 15.75	− 4 2.4	1.598	2.418	17.3	20.3

459601 2013 HQ_{24} 4 1.1 43°.03 1°.3/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.11	−10 11.8	1.315	2.188	15.9	21.1
3 12	12 58.87	− 9 37.6	1.257	2.194	11.4	20.8
3 22	12 51.28	− 8 44.1	1.220	2.201	6.3	20.5
4 1	12 42.40	− 7 37.2	1.209	2.208	1.4	20.2
4 11	12 33.60	− 6 25.7	1.223	2.215	5.1	20.5
4 21	12 26.13	− 5 19.3	1.262	2.222	10.2	20.8
5 1	12 20.98	− 4 26.0	1.324	2.230	14.7	21.1
5 11	12 18.64	− 3 50.7	1.404	2.238	18.5	21.3

121176 1999 LH_5 4 1.1 317°.60 13°.4/15.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	12 58.55	+19 33.9	1.159	2.062	15.2	18.6
3 12	12 55.54	+23 1.8	1.107	2.035	13.6	18.4
3 22	12 49.83	+26 18.7	1.079	2.009	13.9	18.4
4 1	12 42.39	+29 3.6	1.073	1.984	16.2	18.4
4 11	12 34.68	+31 0.4	1.087	1.959	19.5	18.5
4 21	12 28.19	+32 2.4	1.118	1.935	22.9	18.7
5 1	12 24.18	+32 10.6	1.161	1.912	26.1	18.8
5 11	12 23.36	+31 32.0	1.214	1.890	28.7	19.0

331543 2000 TT_{36} 4 1.1 206°.24 3°.3/28.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.21	+ 4 47.2	2.275	3.150	10.0	21.4
3 12	12 59.60	+ 5 25.5	2.205	3.145	7.0	21.2
3 22	12 51.44	+ 6 4.1	2.161	3.139	4.2	21.0
4 1	12 42.41	+ 6 38.0	2.147	3.133	3.5	21.0
4 11	12 33.37	+ 7 2.5	2.162	3.126	6.0	21.1
4 21	12 25.14	+ 7 14.1	2.205	3.119	9.1	21.3
5 1	12 18.38	+ 7 11.2	2.273	3.111	12.1	21.5
5 11	12 13.56	+ 6 53.4	2.361	3.102	14.6	21.6

216612 2002 TB_{271} 4 1.1 234°.31 2°.6/ 3.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.22	−16 2.3	1.952	2.785	13.2	20.8
3 12	12 57.87	−15 12.9	1.861	2.774	9.9	20.6
3 22	12 50.68	−14 2.2	1.795	2.762	6.2	20.4
4 1	12 42.41	−12 33.6	1.756	2.749	2.9	20.1
4 11	12 34.01	−10 53.9	1.746	2.736	4.1	20.2
4 21	12 26.44	− 9 11.6	1.765	2.722	8.0	20.4
5 1	12 20.53	− 7 35.5	1.810	2.708	11.8	20.6
5 11	12 16.81	− 6 12.6	1.877	2.694	15.2	20.8

341439 2007 TV_{238} 4 1.1 147°.99 1°.0/30.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.02	− 3 33.7	2.362	3.230	9.9	21.5
3 12	12 56.62	− 2 51.0	2.296	3.236	6.8	21.3
3 22	12 49.87	− 2 1.6	2.257	3.241	3.4	21.1
4 1	12 42.41	− 1 9.9	2.248	3.246	1.0	20.9
4 11	12 34.99	− 0 21.0	2.267	3.250	4.1	21.1
4 21	12 28.32	+ 0 20.7	2.315	3.254	7.5	21.3
5 1	12 22.97	+ 0 51.7	2.389	3.259	10.5	21.5
5 11	12 19.36	+ 1 9.8	2.485	3.262	13.0	21.7

433342 2013 RP_{45} 4 1.1 216°.18 3°.5/ 3.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.27	−14 49.8	2.125	2.950	12.6	21.5
3 12	13 2.01	−15 16.2	2.038	2.944	9.6	21.3
3 22	12 52.82	−15 28.6	1.976	2.937	6.3	21.1
4 1	12 42.44	−15 27.2	1.943	2.930	3.7	20.9
4 11	12 31.88	−15 14.4	1.939	2.923	4.6	21.0
4 21	12 22.13	−14 54.3	1.963	2.915	7.7	21.1
5 1	12 14.06	−14 32.1	2.014	2.906	11.1	21.3
5 11	12 8.24	−14 13.0	2.087	2.898	14.1	21.5

282181 2001 TN_{76} 4 1.1 229°.30 0°.4/ 1.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 0.84	− 9 8.6	3.129	3.974	8.4	22.5
3 12	12 55.65	− 8 20.5	3.033	3.958	6.0	22.3
3 22	12 49.36	− 7 22.9	2.964	3.942	3.2	22.1
4 1	12 42.42	− 6 18.8	2.926	3.924	0.5	21.8
4 11	12 35.41	− 5 12.3	2.919	3.907	2.9	22.0
4 21	12 28.87	− 4 7.8	2.942	3.888	5.8	22.2
5 1	12 23.32	− 3 9.3	2.994	3.869	8.4	22.3
5 11	12 19.11	− 2 20.0	3.070	3.849	10.7	22.4

211594 2003 SV_{259} 4 1.1 256°.59 0°.3/31.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.35	− 6 28.8	1.760	2.628	12.8	21.3
3 12	12 59.55	− 5 43.8	1.671	2.608	9.0	21.0
3 22	12 51.65	− 4 45.0	1.606	2.588	4.7	20.7
4 1	12 42.44	− 3 37.7	1.569	2.568	0.4	20.3
4 11	12 32.98	− 2 29.0	1.560	2.547	5.0	20.6
4 21	12 24.37	− 1 26.6	1.578	2.525	9.7	20.8
5 1	12 17.57	− 0 37.0	1.621	2.503	13.9	21.0
5 11	12 13.20	− 0 4.4	1.683	2.480	17.5	21.2

22903 Georgeclooney 4 1.1 211°.76 2°.9/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.17	+ 3 48.2	2.076	2.941	11.2	18.9
3 12	13 4.61	+ 3 59.2	1.997	2.934	7.9	18.7
3 22	12 54.10	+ 4 10.3	1.946	2.925	4.4	18.5
4 1	12 42.46	+ 4 17.2	1.925	2.916	3.0	18.4
4 11	12 30.75	+ 4 15.6	1.934	2.906	5.9	18.5
4 21	12 20.01	+ 4 2.9	1.973	2.895	9.6	18.7
5 1	12 11.06	+ 3 37.7	2.037	2.884	13.0	18.9
5 11	12 4.47	+ 3 0.1	2.123	2.871	15.8	19.1

33740 Arjunmoorthy 4 1.1 243°.50 3°.6/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.38	+ 1 38.4	1.753	2.638	11.9	18.6
3 12	12 58.77	+ 2 59.9	1.678	2.624	8.3	18.4
3 22	12 51.19	+ 4 28.1	1.628	2.610	4.7	18.1
4 1	12 42.43	+ 5 54.7	1.606	2.595	4.0	18.1
4 11	12 33.56	+ 7 10.8	1.612	2.580	7.3	18.2
4 21	12 25.60	+ 8 9.4	1.645	2.564	11.3	18.4
5 1	12 19.42	+ 8 46.0	1.700	2.548	15.0	18.6
5 11	12 15.59	+ 8 59.6	1.773	2.531	18.1	18.8

175118 2004 TU_{214} 4 1.1 217°.97 2°.1/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.97	−13 12.0	1.862	2.705	13.3	20.7
3 12	12 59.85	−12 38.6	1.776	2.696	9.8	20.4
3 22	12 51.74	−11 46.8	1.715	2.687	5.9	20.2
4 1	12 42.44	−10 40.1	1.681	2.677	2.3	19.9
4 11	12 33.01	− 9 24.7	1.676	2.666	4.2	20.0
4 21	12 24.48	− 8 8.3	1.698	2.654	8.4	20.3
5 1	12 17.73	− 6 58.5	1.747	2.641	12.4	20.5
5 11	12 13.33	− 6 1.5	1.817	2.628	15.8	20.7

99284 2001 QX_{131} 4 1.1 255°.30 0°.3/31.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 0.38	− 6 55.8	2.226	3.091	10.6	19.7
3 12	12 55.64	− 5 57.5	2.145	3.082	7.4	19.4
3 22	12 49.45	− 4 47.9	2.091	3.073	3.8	19.2
4 1	12 42.43	− 3 32.0	2.065	3.064	0.3	18.9
4 11	12 35.36	− 2 15.9	2.069	3.055	4.0	19.2
4 21	12 28.99	− 1 5.8	2.101	3.046	7.7	19.4
5 1	12 23.97	− 0 7.1	2.159	3.037	11.1	19.6
5 11	12 20.75	+ 0 36.9	2.238	3.028	13.9	19.7

304691 2006 WC_{162} 4 1.1 57°.54 2°.0/ 3.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 0.35	−13 38.4	2.318	3.158	11.2	20.5
3 12	12 55.57	−13 7.6	2.241	3.159	8.2	20.3
3 22	12 49.39	−12 22.5	2.190	3.159	5.0	20.1
4 1	12 42.44	−11 26.0	2.166	3.160	2.2	19.9
4 11	12 35.48	−10 23.0	2.171	3.161	3.4	20.0
4 21	12 29.24	− 9 19.1	2.205	3.162	6.7	20.2
5 1	12 24.34	− 8 19.9	2.265	3.163	9.8	20.4
5 11	12 21.20	− 7 29.9	2.348	3.164	12.5	20.6

232802 2004 RV_{199} 4 1.1 150°.15 3°.5/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.34	−18 33.3	2.503	3.310	11.5	21.1
3 12	12 58.24	−18 22.3	2.428	3.320	8.8	20.9
3 22	12 50.73	−17 55.3	2.378	3.329	6.0	20.8
4 1	12 42.45	−17 13.9	2.356	3.338	3.8	20.6
4 11	12 34.20	−16 21.8	2.364	3.346	4.0	20.7
4 21	12 26.71	−15 24.0	2.400	3.354	6.4	20.8
5 1	12 20.60	−14 26.1	2.464	3.361	9.2	21.0
5 11	12 16.29	−13 33.2	2.552	3.367	11.7	21.2

300221 Brucebills 4 1.1 138°.15 4°.0/ 6.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 2.37	−21 9.5	2.749	3.541	11.0	21.3
3 12	12 56.81	−21 4.9	2.673	3.551	8.7	21.2
3 22	12 49.98	−20 44.5	2.621	3.560	6.2	21.0
4 1	12 42.45	−20 9.2	2.596	3.569	4.3	20.9
4 11	12 34.93	−19 22.2	2.601	3.577	4.2	20.9
4 21	12 28.09	−18 27.9	2.635	3.585	6.1	21.1
5 1	12 22.50	−17 31.3	2.695	3.593	8.4	21.2
5 11	12 18.53	−16 37.4	2.781	3.601	10.7	21.4

242426 2004 LY_{25} 4 1.1 298°.53 1°.5/ 2.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.12	−11 22.1	2.170	3.020	11.4	20.6
3 12	12 56.35	−10 56.9	2.069	2.994	8.4	20.3
3 22	12 49.93	−10 17.5	1.993	2.968	4.9	20.1
4 1	12 42.46	− 9 26.6	1.945	2.941	1.7	19.8
4 11	12 34.77	− 8 29.0	1.925	2.915	3.7	19.9
4 21	12 27.71	− 7 30.5	1.933	2.889	7.5	20.1
5 1	12 22.03	− 6 37.0	1.967	2.863	11.2	20.2
5 11	12 18.28	− 5 53.6	2.023	2.837	14.3	20.4

522456 2016 CQ_{320} 4 1.1 326°.05 4°.1/ 3.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.75	−14 17.1	1.486	2.337	15.7	20.4
3 12	13 0.16	−14 44.7	1.406	2.326	11.9	20.1
3 22	12 52.10	−14 53.9	1.348	2.315	7.8	19.8
4 1	12 42.48	−14 45.1	1.315	2.305	4.4	19.6
4 11	12 32.60	−14 21.9	1.308	2.296	5.6	19.6
4 21	12 23.77	−13 50.4	1.326	2.287	9.7	19.8
5 1	12 17.12	−13 18.2	1.367	2.278	14.0	20.1
5 11	12 13.35	−12 52.4	1.427	2.271	17.8	20.3

330098 2005 WT_{123} 4 1.1 200°.64 0°.6/31.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.02	− 5 3.1	1.777	2.649	12.4	21.2
3 12	12 58.41	− 4 24.9	1.708	2.649	8.6	21.0
3 22	12 50.96	− 3 36.2	1.665	2.648	4.4	20.7
4 1	12 42.47	− 2 42.5	1.649	2.647	0.7	20.4
4 11	12 33.98	− 1 50.3	1.660	2.647	4.8	20.7
4 21	12 26.46	− 1 5.9	1.699	2.646	9.1	21.0
5 1	12 20.71	− 0 34.0	1.762	2.645	12.9	21.2
5 11	12 17.23	− 0 17.7	1.845	2.644	16.1	21.4

519921 2013 RX_{104} 4 1.1 171°.54 0°.7/ 1.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.53	− 9 33.0	1.912	2.772	12.3	21.4
3 12	12 57.29	− 8 48.0	1.840	2.772	8.7	21.1
3 22	12 50.35	− 7 48.7	1.794	2.773	4.7	20.9
4 1	12 42.47	− 6 40.1	1.775	2.774	0.8	20.6
4 11	12 34.59	− 5 28.6	1.785	2.774	4.1	20.8
4 21	12 27.60	− 4 21.3	1.822	2.775	8.2	21.1
5 1	12 22.25	− 3 24.2	1.884	2.775	11.8	21.3
5 11	12 19.00	− 2 41.6	1.968	2.775	14.9	21.5

300143 2006 VY_{61} 4 1.1 206°.09 0°.1/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.34	− 6 8.6	2.815	3.672	8.9	21.7
3 12	12 56.06	− 5 36.5	2.734	3.667	6.2	21.5
3 22	12 49.59	− 4 57.1	2.681	3.662	3.2	21.3
4 1	12 42.46	− 4 13.3	2.657	3.656	0.1	21.0
4 11	12 35.31	− 3 29.3	2.663	3.650	3.2	21.3
4 21	12 28.72	− 2 48.9	2.699	3.644	6.3	21.4
5 1	12 23.24	− 2 15.5	2.762	3.637	9.0	21.6
5 11	12 19.25	− 1 51.7	2.848	3.629	11.4	21.8

176077 2000 WW_{191} 4 1.1 233°.31 3°.8/26.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.25	+ 8 40.9	2.983	3.860	7.8	20.8
3 12	12 55.97	+ 9 41.3	2.908	3.845	5.7	20.6
3 22	12 49.54	+10 40.5	2.861	3.829	4.0	20.5
4 1	12 42.47	+11 33.7	2.843	3.814	4.2	20.5
4 11	12 35.34	+12 16.6	2.856	3.797	6.0	20.5
4 21	12 28.74	+12 46.2	2.896	3.780	8.3	20.7
5 1	12 23.18	+13 0.9	2.960	3.763	10.5	20.8
5 11	12 19.05	+13 0.5	3.046	3.745	12.4	20.9

169099 2001 KC_{63} 4 1.1 28°.36 6°.7/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.03	+ 6 33.1	1.062	1.971	15.7	18.3
3 12	12 58.23	+ 7 51.7	1.030	1.984	11.1	18.0
3 22	12 50.95	+ 9 7.2	1.019	1.999	7.4	17.9
4 1	12 42.47	+10 7.5	1.032	2.015	7.2	17.9
4 11	12 34.35	+10 43.0	1.068	2.032	10.6	18.2
4 21	12 27.88	+10 49.7	1.125	2.050	14.8	18.4
5 1	12 23.96	+10 27.8	1.200	2.069	18.6	18.7
5 11	12 22.97	+ 9 41.0	1.292	2.089	21.8	19.0

358073 2006 HJ_{107} 4 1.1 21°.31 2°.5/30.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.76	− 2 45.3	1.277	2.170	14.8	20.3
3 12	12 57.97	− 1 30.3	1.222	2.173	10.2	20.1
3 22	12 50.86	− 0 3.3	1.189	2.175	5.2	19.8
4 1	12 42.47	+ 1 26.0	1.182	2.178	2.7	19.6
4 11	12 34.16	+ 2 46.3	1.200	2.182	7.1	19.9
4 21	12 27.16	+ 3 48.6	1.242	2.186	12.1	20.2
5 1	12 22.43	+ 4 27.2	1.305	2.190	16.4	20.5
5 11	12 20.47	+ 4 40.8	1.386	2.194	20.0	20.7

457654 2009 CT_{34} 4 1.1 123°.87 1°.1/31.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.36	− 3 51.6	1.701	2.571	13.0	22.5
3 12	13 1.33	− 3 12.0	1.648	2.588	9.0	22.3
3 22	12 52.39	− 2 23.6	1.620	2.603	4.5	22.0
4 1	12 42.49	− 1 32.3	1.620	2.618	1.1	21.8
4 11	12 32.78	− 0 44.7	1.648	2.632	5.2	22.1
4 21	12 24.28	− 0 6.8	1.704	2.646	9.4	22.4
5 1	12 17.77	+ 0 17.4	1.783	2.659	13.2	22.6
5 11	12 13.69	+ 0 26.0	1.883	2.671	16.2	22.9

505668 2014 UY_{41} 4 1.1 104°.17 5°.9/27.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.90	+10 58.8	1.791	2.671	12.0	20.9
3 12	13 1.58	+11 44.7	1.749	2.686	8.8	20.8
3 22	12 52.46	+12 24.0	1.733	2.700	6.3	20.6
4 1	12 42.49	+12 50.0	1.743	2.714	6.3	20.7
4 11	12 32.79	+12 57.6	1.782	2.727	8.6	20.8
4 21	12 24.31	+12 45.1	1.846	2.741	11.7	21.0
5 1	12 17.80	+12 13.0	1.932	2.754	14.5	21.2
5 11	12 13.65	+11 23.8	2.037	2.766	16.9	21.5

337826 2001 VD_{38} 4 1.1 79°.90 6°.2/ 9.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.19	−28 29.7	2.311	3.070	13.7	20.2
3 12	12 56.22	−28 11.5	2.236	3.081	11.4	20.1
3 22	12 49.75	−27 29.0	2.182	3.092	9.0	19.9
4 1	12 42.47	−26 23.2	2.153	3.103	6.9	19.8
4 11	12 35.26	−24 58.1	2.152	3.114	6.2	19.8
4 21	12 28.90	−23 20.4	2.178	3.125	7.4	19.9
5 1	12 24.05	−21 37.8	2.232	3.136	9.6	20.1
5 11	12 21.12	−19 58.3	2.309	3.147	12.0	20.2

130101 1999 XM_{29} 4 1.1 31°.46 5°.9/ 7.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 0.82	−24 44.3	1.799	2.598	15.6	19.0
3 12	12 56.29	−24 19.1	1.724	2.602	12.6	18.8
3 22	12 49.90	−23 26.0	1.671	2.607	9.4	18.6
4 1	12 42.48	−22 6.6	1.642	2.612	6.6	18.5
4 11	12 35.08	−20 26.9	1.640	2.618	6.1	18.4
4 21	12 28.69	−18 35.8	1.665	2.624	8.3	18.6
5 1	12 24.11	−16 43.6	1.715	2.630	11.4	18.8
5 11	12 21.82	−14 59.8	1.788	2.636	14.5	19.0

473130 2015 JQ_{6} 4 1.1 205°.42 3°.3/ 4.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.62	−16 46.5	2.311	3.133	11.8	21.0
3 12	12 57.21	−16 43.8	2.230	3.133	9.0	20.8
3 22	12 50.29	−16 25.5	2.174	3.132	6.0	20.6
4 1	12 42.49	−15 53.1	2.145	3.131	3.6	20.5
4 11	12 34.64	−15 10.3	2.145	3.130	4.1	20.5
4 21	12 27.53	−14 21.9	2.173	3.129	6.8	20.7
5 1	12 21.83	−13 33.4	2.227	3.128	9.8	20.9
5 11	12 17.99	−12 50.0	2.304	3.126	12.5	21.0

346410 2008 SM_{159} 4 1.1 269°.80 1°.5/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.03	− 9 15.6	2.067	2.916	12.0	21.3
3 12	13 1.30	− 9 22.6	1.966	2.891	8.7	21.1
3 22	12 52.56	− 9 18.8	1.891	2.867	5.0	20.8
4 1	12 42.52	− 9 5.8	1.844	2.841	1.6	20.5
4 11	12 32.14	− 8 47.1	1.826	2.815	4.1	20.6
4 21	12 22.43	− 8 27.1	1.837	2.789	8.2	20.8
5 1	12 14.33	− 8 10.4	1.874	2.763	12.0	21.0
5 11	12 8.46	− 8 1.3	1.933	2.735	15.3	21.2

63472 2001 OY_{25} 4 1.1 140°.68 1°.7/30.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.77	− 1 53.7	2.147	3.018	10.7	20.0
3 12	12 58.59	− 0 58.0	2.090	3.031	7.3	19.8
3 22	12 50.92	+ 0 3.7	2.059	3.043	3.7	19.6
4 1	12 42.50	+ 1 5.9	2.058	3.054	1.8	19.5
4 11	12 34.19	+ 2 2.5	2.086	3.065	4.9	19.7
4 21	12 26.78	+ 2 48.6	2.143	3.075	8.4	20.0
5 1	12 20.89	+ 3 20.9	2.224	3.084	11.5	20.2
5 11	12 16.94	+ 3 37.7	2.327	3.093	14.1	20.4

351505 2005 RW_{14} 4 1.1 203°.26 1°.8/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.81	−11 54.3	2.613	3.451	10.1	21.6
3 12	12 57.19	−11 48.1	2.531	3.448	7.4	21.4
3 22	12 50.22	−11 31.0	2.475	3.445	4.4	21.2
4 1	12 42.50	−11 5.0	2.448	3.442	1.9	21.1
4 11	12 34.73	−10 33.5	2.451	3.439	3.2	21.1
4 21	12 27.60	−10 0.3	2.482	3.436	6.2	21.3
5 1	12 21.69	− 9 29.5	2.541	3.432	9.1	21.5
5 11	12 17.45	− 9 4.7	2.623	3.429	11.7	21.7

326444 2001 VJ_{25} 4 1.1 154°.16 2°.8/29.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.07	+ 2 31.1	2.181	3.055	10.4	21.5
3 12	12 59.49	+ 3 13.5	2.122	3.063	7.1	21.3
3 22	12 51.39	+ 3 57.9	2.089	3.070	4.0	21.1
4 1	12 42.51	+ 4 39.1	2.087	3.077	3.0	21.0
4 11	12 33.72	+ 5 11.9	2.113	3.083	5.6	21.2
4 21	12 25.82	+ 5 32.7	2.167	3.089	8.9	21.4
5 1	12 19.47	+ 5 39.3	2.247	3.094	11.9	21.6
5 11	12 15.07	+ 5 31.4	2.347	3.099	14.4	21.8

264535 2001 RR_{155} 4 1.1 120°.08 6°.2/ 7.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.18	−24 5.9	2.054	2.837	14.5	21.1
3 12	13 1.24	−24 30.6	1.986	2.852	11.7	21.0
3 22	12 52.40	−24 33.3	1.940	2.867	8.9	20.8
4 1	12 42.53	−24 13.5	1.920	2.881	6.7	20.7
4 11	12 32.67	−23 34.2	1.928	2.894	6.4	20.7
4 21	12 23.83	−22 41.1	1.963	2.908	8.2	20.9
5 1	12 16.83	−21 41.4	2.023	2.920	10.8	21.0
5 11	12 12.16	−20 42.7	2.107	2.932	13.4	21.2

62458 2000 SP_{211} 4 1.1 248°.88 3°.6/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.37	+ 2 40.2	2.045	2.928	10.6	19.8
3 12	12 57.18	+ 4 5.6	1.968	2.913	7.3	19.5
3 22	12 50.33	+ 5 36.0	1.917	2.898	4.4	19.3
4 1	12 42.51	+ 7 4.1	1.896	2.882	4.0	19.3
4 11	12 34.59	+ 8 22.0	1.903	2.866	6.9	19.4
4 21	12 27.42	+ 9 23.5	1.938	2.849	10.3	19.6
5 1	12 21.75	+10 4.9	1.995	2.832	13.6	19.7
5 11	12 18.08	+10 25.0	2.072	2.815	16.3	19.9

68869 2002 JL_{25} 4 1.1 199°.26 4°.3/28.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.36	+ 5 1.2	1.860	2.742	11.5	19.7
3 12	12 59.99	+ 6 4.9	1.796	2.739	8.1	19.5
3 22	12 51.77	+ 7 9.7	1.758	2.736	5.0	19.3
4 1	12 42.53	+ 8 8.3	1.748	2.732	4.6	19.3
4 11	12 33.30	+ 8 53.7	1.766	2.727	7.4	19.5
4 21	12 25.05	+ 9 21.4	1.811	2.722	10.9	19.6
5 1	12 18.57	+ 9 29.2	1.878	2.716	14.2	19.8
5 11	12 14.36	+ 9 17.2	1.965	2.710	17.0	20.0

262900 2007 CF_{42} 4 1.1 132°.84 0°.3/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.27	− 7 49.2	2.121	2.977	11.4	21.4
3 12	12 58.98	− 7 13.6	2.060	2.992	8.0	21.2
3 22	12 51.14	− 6 27.4	2.025	3.005	4.2	21.0
4 1	12 42.53	− 5 34.8	2.019	3.018	0.3	20.7
4 11	12 34.01	− 4 41.4	2.042	3.030	3.8	21.0
4 21	12 26.41	− 3 52.5	2.094	3.042	7.6	21.3
5 1	12 20.38	− 3 12.8	2.172	3.053	10.9	21.5
5 11	12 16.33	− 2 45.1	2.271	3.063	13.6	21.7

471412 2011 SR_{273} 4 1.1 231°.89 1°.6/29.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.02	− 1 2.6	2.763	3.633	8.6	22.3
3 12	12 55.89	− 0 10.5	2.680	3.621	5.9	22.1
3 22	12 49.55	+ 0 46.7	2.625	3.608	3.0	21.9
4 1	12 42.52	+ 1 44.8	2.599	3.594	1.7	21.8
4 11	12 35.42	+ 2 39.0	2.604	3.580	4.3	21.9
4 21	12 28.88	+ 3 25.2	2.638	3.565	7.2	22.1
5 1	12 23.43	+ 4 0.3	2.697	3.551	9.9	22.3
5 11	12 19.49	+ 4 22.3	2.779	3.535	12.3	22.4

113494 2002 TK_{4} 4 1.1 160°.64 1°.8/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.17	− 3 14.6	1.578	2.455	13.5	20.9
3 12	13 0.73	− 2 11.5	1.518	2.461	9.3	20.7
3 22	12 52.20	− 0 58.1	1.482	2.466	4.7	20.4
4 1	12 42.54	+ 0 18.0	1.473	2.471	2.0	20.2
4 11	12 32.96	+ 1 28.1	1.493	2.475	6.0	20.5
4 21	12 24.57	+ 2 24.8	1.539	2.478	10.5	20.8
5 1	12 18.24	+ 3 3.1	1.608	2.480	14.5	21.0
5 11	12 14.49	+ 3 21.1	1.697	2.482	17.8	21.3

224387 2005 UY_{200} 4 1.1 169°.74 1°.2/30.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.60	− 2 58.6	2.097	2.967	10.9	21.4
3 12	12 58.59	− 2 16.2	2.030	2.970	7.5	21.1
3 22	12 50.99	− 1 26.7	1.989	2.973	3.8	20.9
4 1	12 42.54	− 0 35.0	1.977	2.975	1.3	20.7
4 11	12 34.11	+ 0 13.2	1.994	2.977	4.7	21.0
4 21	12 26.55	+ 0 52.8	2.040	2.978	8.4	21.2
5 1	12 20.53	+ 1 20.3	2.110	2.979	11.7	21.4
5 11	12 16.50	+ 1 33.4	2.201	2.979	14.5	21.6

258123 2001 QK_{293} 4 1.1 92°.59 10°.6/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 17.26	−38 28.6	2.231	2.895	16.6	20.9
3 12	13 7.73	−39 44.8	2.176	2.929	14.8	20.8
3 22	12 55.82	−40 31.6	2.142	2.963	12.9	20.8
4 1	12 42.58	−40 45.2	2.131	2.996	11.4	20.7
4 11	12 29.38	−40 26.2	2.144	3.027	10.7	20.7
4 21	12 17.50	−39 39.6	2.182	3.058	10.9	20.8
5 1	12 7.96	−38 33.7	2.245	3.089	12.0	20.9
5 11	12 1.31	−37 18.3	2.330	3.118	13.5	21.1

129718 1998 UR_{13} 4 1.1 180°.75 0°.6/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.93	− 9 19.1	2.281	3.135	10.8	20.7
3 12	12 56.68	− 8 37.1	2.206	3.136	7.7	20.4
3 22	12 50.00	− 7 43.2	2.158	3.136	4.1	20.2
4 1	12 42.53	− 6 41.5	2.137	3.136	0.7	20.0
4 11	12 35.06	− 5 37.4	2.147	3.136	3.5	20.2
4 21	12 28.33	− 4 36.5	2.185	3.135	7.1	20.4
5 1	12 22.97	− 3 43.8	2.249	3.134	10.4	20.6
5 11	12 19.41	− 3 3.1	2.335	3.133	13.1	20.8

30382 2000 JB_{81} 4 1.1 267°.01 4°.9/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 4.68	+ 6 29.6	1.839	2.724	11.4	18.6
3 12	12 58.97	+ 7 37.0	1.763	2.707	8.2	18.4
3 22	12 51.33	+ 8 45.2	1.713	2.688	5.4	18.2
4 1	12 42.55	+ 9 46.5	1.690	2.670	5.3	18.1
4 11	12 33.62	+10 33.5	1.695	2.651	8.1	18.2
4 21	12 25.57	+11 1.1	1.726	2.632	11.7	18.4
5 1	12 19.23	+11 6.8	1.778	2.613	15.1	18.6
5 11	12 15.18	+10 50.8	1.849	2.593	17.9	18.7

175518 2006 SY_{50} 4 1.1 174°.91 2°.9/ 4.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.47	−17 3.1	2.723	3.537	10.4	21.2
3 12	12 56.92	−16 53.9	2.641	3.539	8.0	21.0
3 22	12 50.09	−16 30.9	2.585	3.541	5.3	20.8
4 1	12 42.54	−15 55.6	2.557	3.542	3.2	20.7
4 11	12 34.96	−15 11.3	2.558	3.543	3.6	20.7
4 21	12 28.02	−14 22.4	2.589	3.543	6.0	20.9
5 1	12 22.29	−13 33.4	2.647	3.543	8.6	21.1
5 11	12 18.18	−12 48.8	2.729	3.543	11.0	21.2

214568 2006 QV_{21} 4 1.1 233°.11 0°.5/31.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.95	− 5 29.0	1.819	2.687	12.4	21.3
3 12	12 59.86	− 4 53.5	1.739	2.677	8.7	21.0
3 22	12 51.80	− 4 7.1	1.684	2.666	4.5	20.8
4 1	12 42.56	− 3 14.4	1.656	2.655	0.5	20.4
4 11	12 33.19	− 2 21.9	1.657	2.644	4.8	20.7
4 21	12 24.73	− 1 35.9	1.685	2.632	9.2	20.9
5 1	12 18.04	− 1 1.8	1.738	2.619	13.2	21.2
5 11	12 13.70	− 0 42.9	1.811	2.606	16.5	21.4

505298 2012 WJ_{24} 4 1.1 151°.73 4°.1/27.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.47	+ 9 13.8	2.637	3.513	8.7	21.6
3 12	12 57.52	+ 9 58.3	2.583	3.519	6.3	21.5
3 22	12 50.34	+10 39.7	2.556	3.525	4.4	21.4
4 1	12 42.55	+11 13.4	2.559	3.531	4.4	21.4
4 11	12 34.84	+11 35.4	2.591	3.536	6.3	21.5
4 21	12 27.85	+11 43.4	2.650	3.541	8.7	21.7
5 1	12 22.12	+11 36.7	2.733	3.546	11.0	21.8
5 11	12 18.01	+11 15.7	2.837	3.550	12.9	22.0

59708 1999 JC_{123} 4 1.1 243°.00 4°.8/27.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.49	+ 5 27.2	1.682	2.568	12.3	19.3
3 12	13 0.33	+ 6 33.5	1.612	2.557	8.7	19.1
3 22	12 52.06	+ 7 41.5	1.567	2.544	5.5	18.9
4 1	12 42.56	+ 8 42.7	1.549	2.532	5.2	18.8
4 11	12 32.97	+ 9 29.3	1.558	2.519	8.2	18.9
4 21	12 24.39	+ 9 55.9	1.592	2.505	12.1	19.1
5 1	12 17.74	+ 9 59.9	1.649	2.491	15.7	19.3
5 11	12 13.58	+ 9 41.9	1.724	2.477	18.7	19.5

110321 2001 SH_{281} 4 1.1 142°.41 1°.3/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.23	−11 4.0	2.341	3.183	11.0	20.8
3 12	12 58.87	−10 35.2	2.275	3.196	7.9	20.7
3 22	12 51.09	− 9 54.3	2.235	3.209	4.5	20.5
4 1	12 42.56	− 9 4.7	2.224	3.221	1.4	20.3
4 11	12 34.11	− 8 11.0	2.244	3.233	3.4	20.4
4 21	12 26.49	− 7 18.5	2.292	3.244	6.8	20.7
5 1	12 20.32	− 6 32.0	2.367	3.254	9.9	20.9
5 11	12 16.01	− 5 55.2	2.466	3.263	12.6	21.1

328167 2008 CV_{197} 4 1.1 107°.76 0°.5/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.20	− 8 6.6	1.736	2.599	13.2	22.0
3 12	12 59.86	− 7 33.1	1.680	2.614	9.3	21.8
3 22	12 51.69	− 6 46.8	1.649	2.629	4.9	21.6
4 1	12 42.57	− 5 52.7	1.645	2.644	0.5	21.3
4 11	12 33.59	− 4 57.4	1.669	2.658	4.4	21.6
4 21	12 25.74	− 4 7.5	1.721	2.672	8.6	21.9
5 1	12 19.79	− 3 28.2	1.797	2.686	12.4	22.2
5 11	12 16.18	− 3 3.1	1.894	2.699	15.5	22.4

293347 2007 DP_{105} 4 1.1 266°.97 0°.1/ 1.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.38	− 6 33.8	1.778	2.646	12.6	21.3
3 12	12 58.74	− 6 7.5	1.705	2.643	8.9	21.1
3 22	12 51.19	− 5 29.7	1.657	2.639	4.6	20.8
4 1	12 42.56	− 4 45.0	1.636	2.636	0.1	20.4
4 11	12 33.88	− 3 59.4	1.644	2.632	4.5	20.8
4 21	12 26.15	− 3 18.9	1.678	2.629	8.9	21.0
5 1	12 20.20	− 2 48.6	1.736	2.625	12.7	21.2
5 11	12 16.56	− 2 32.1	1.814	2.622	16.0	21.5

163682 2002 XV_{109} 4 1.1 177°.08 2°.7/29.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.98	+ 3 0.3	2.357	3.233	9.6	20.1
3 12	12 58.02	+ 3 34.7	2.292	3.234	6.7	20.0
3 22	12 50.67	+ 4 10.4	2.254	3.235	3.7	19.8
4 1	12 42.56	+ 4 43.0	2.245	3.235	2.8	19.7
4 11	12 34.49	+ 5 8.1	2.265	3.236	5.3	19.9
4 21	12 27.18	+ 5 22.4	2.314	3.236	8.4	20.1
5 1	12 21.24	+ 5 23.8	2.387	3.235	11.2	20.2
5 11	12 17.09	+ 5 11.9	2.481	3.235	13.6	20.4

242898 2006 KS_{86} 4 1.1 309°.72 3°.1/29.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 4.11	− 0 19.5	1.304	2.198	14.5	20.0
3 12	12 59.14	+ 0 33.1	1.232	2.182	10.1	19.7
3 22	12 51.64	+ 1 34.9	1.182	2.167	5.3	19.4
4 1	12 42.57	+ 2 37.8	1.156	2.152	3.3	19.2
4 11	12 33.30	+ 3 31.7	1.157	2.137	7.6	19.4
4 21	12 25.19	+ 4 8.8	1.180	2.122	12.7	19.6
5 1	12 19.36	+ 4 23.7	1.225	2.109	17.3	19.9
5 11	12 16.50	+ 4 15.0	1.286	2.095	21.2	20.1

207519 2006 JR_{40} 4 1.1 277°.73 1°.4/30.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.29	− 2 59.8	1.963	2.839	11.3	20.7
3 12	12 57.13	− 2 13.7	1.891	2.834	7.8	20.5
3 22	12 50.31	− 1 19.4	1.845	2.829	3.9	20.2
4 1	12 42.56	− 0 22.5	1.826	2.824	1.5	20.1
4 11	12 34.78	+ 0 30.8	1.836	2.819	5.0	20.3
4 21	12 27.82	+ 1 15.0	1.873	2.814	8.8	20.5
5 1	12 22.43	+ 1 45.6	1.934	2.808	12.3	20.7
5 11	12 19.08	+ 2 0.6	2.016	2.803	15.3	20.9

34139 Lucabarcelo 4 1.1 160°.77 0°.8/31.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.52	− 3 26.6	2.832	3.695	8.6	20.0
3 12	12 56.15	− 2 48.1	2.764	3.701	5.9	19.8
3 22	12 49.65	− 2 4.2	2.723	3.706	3.0	19.6
4 1	12 42.56	− 1 18.4	2.713	3.711	0.9	19.5
4 11	12 35.50	− 0 34.8	2.733	3.715	3.5	19.7
4 21	12 29.05	+ 0 3.0	2.782	3.719	6.5	19.9
5 1	12 23.72	+ 0 32.0	2.857	3.723	9.1	20.0
5 11	12 19.85	+ 0 50.5	2.956	3.726	11.3	20.2

406866 2009 BA_{133} 4 1.1 349°.67 6°.5/26.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.08	+ 6 15.9	1.228	2.131	14.5	20.1
3 12	12 58.33	+ 7 47.4	1.176	2.128	10.4	19.9
3 22	12 51.13	+ 9 19.7	1.147	2.125	7.0	19.7
4 1	12 42.57	+10 40.5	1.142	2.122	7.1	19.6
4 11	12 34.06	+11 38.8	1.161	2.120	10.6	19.8
4 21	12 26.90	+12 8.2	1.202	2.119	14.8	20.1
5 1	12 22.10	+12 6.9	1.262	2.118	18.7	20.3
5 11	12 20.19	+11 37.2	1.338	2.118	22.0	20.5

200716 2001 UZ_{194} 4 1.1 343°.78 1°.8/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.32	− 1 28.0	1.131	2.026	16.2	19.5
3 12	13 1.58	− 1 18.7	1.069	2.019	11.3	19.2
3 22	12 52.95	− 1 1.3	1.028	2.014	5.8	18.8
4 1	12 42.59	− 0 42.2	1.011	2.009	1.9	18.6
4 11	12 32.14	− 0 28.7	1.017	2.005	6.9	18.9
4 21	12 23.17	− 0 27.0	1.047	2.001	12.6	19.2
5 1	12 16.90	− 0 41.3	1.098	1.999	17.5	19.4
5 11	12 13.98	− 1 12.9	1.165	1.997	21.6	19.7

406384 2007 RX_{323} 4 1.1 226°.78 5°.0/27.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.69	+ 6 4.7	1.703	2.588	12.2	21.1
3 12	13 0.42	+ 7 14.0	1.636	2.580	8.7	20.8
3 22	12 52.10	+ 8 24.1	1.595	2.571	5.6	20.6
4 1	12 42.60	+ 9 26.5	1.581	2.562	5.4	20.6
4 11	12 33.05	+10 13.5	1.594	2.552	8.4	20.7
4 21	12 24.54	+10 39.9	1.633	2.542	12.1	20.9
5 1	12 17.94	+10 43.5	1.694	2.531	15.6	21.1
5 11	12 13.81	+10 25.0	1.772	2.520	18.5	21.3

271933 2004 XA_{129} 4 1.1 186°.25 2°.9/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.96	+ 3 30.0	2.340	3.215	9.7	20.7
3 12	12 58.73	+ 4 11.8	2.273	3.215	6.8	20.5
3 22	12 51.05	+ 4 55.0	2.234	3.214	3.9	20.3
4 1	12 42.59	+ 5 34.5	2.224	3.213	3.1	20.3
4 11	12 34.16	+ 6 5.7	2.244	3.211	5.6	20.4
4 21	12 26.50	+ 6 25.0	2.291	3.209	8.7	20.6
5 1	12 20.25	+ 6 30.4	2.364	3.206	11.5	20.8
5 11	12 15.83	+ 6 21.4	2.457	3.203	13.9	21.0

59499 1999 JP_{8} 4 1.1 260°.68 5°.8/26.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.74	+10 33.7	1.885	2.766	11.4	18.9
3 12	13 0.32	+11 25.4	1.816	2.754	8.4	18.7
3 22	12 52.01	+12 12.8	1.774	2.741	6.2	18.5
4 1	12 42.60	+12 48.6	1.758	2.728	6.3	18.5
4 11	12 33.15	+13 6.9	1.770	2.715	8.7	18.6
4 21	12 24.64	+13 4.4	1.807	2.702	11.9	18.8
5 1	12 17.91	+12 40.7	1.867	2.688	15.0	18.9
5 11	12 13.49	+11 57.2	1.945	2.675	17.6	19.1

15569 Feinberg 4 1.1 218°.95 1°.1/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.94	− 4 17.0	1.746	2.617	12.7	19.5
3 12	13 0.61	− 3 29.7	1.669	2.609	8.9	19.2
3 22	12 52.22	− 2 31.5	1.616	2.600	4.5	18.9
4 1	12 42.61	− 1 28.2	1.592	2.590	1.2	18.6
4 11	12 32.90	− 0 27.2	1.595	2.580	5.3	18.9
4 21	12 24.15	+ 0 24.6	1.626	2.568	9.8	19.1
5 1	12 17.27	+ 1 1.8	1.681	2.557	13.8	19.4
5 11	12 12.84	+ 1 21.5	1.756	2.544	17.2	19.6

214192 2005 EW_{17} 4 1.1 249°.42 0°.3/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 5.35	− 6 2.7	1.561	2.435	13.8	20.8
3 12	12 59.61	− 5 28.9	1.491	2.432	9.7	20.5
3 22	12 51.73	− 4 42.4	1.446	2.429	5.0	20.2
4 1	12 42.61	− 3 48.7	1.427	2.426	0.3	19.9
4 11	12 33.44	− 2 55.2	1.435	2.423	5.1	20.2
4 21	12 25.36	− 2 8.9	1.469	2.420	9.9	20.5
5 1	12 19.31	− 1 35.8	1.526	2.417	14.1	20.7
5 11	12 15.84	− 1 19.1	1.603	2.414	17.6	21.0

159863 2004 PD_{50} 4 1.1 209°.50 3°.2/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.53	+ 1 22.1	1.850	2.729	11.7	20.8
3 12	13 0.19	+ 2 32.6	1.779	2.722	8.1	20.6
3 22	12 51.95	+ 3 48.7	1.733	2.715	4.5	20.4
4 1	12 42.62	+ 5 3.0	1.716	2.707	3.5	20.3
4 11	12 33.22	+ 6 7.6	1.728	2.698	6.7	20.4
4 21	12 24.77	+ 6 56.6	1.766	2.688	10.6	20.7
5 1	12 18.09	+ 7 26.0	1.829	2.677	14.1	20.9
5 11	12 13.70	+ 7 35.1	1.910	2.665	17.1	21.0

375835 2009 UV_{112} 4 1.1 141°.53 3°.3/28.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.70	+ 3 46.2	2.042	2.921	10.8	20.9
3 12	12 59.35	+ 4 29.6	1.986	2.928	7.5	20.7
3 22	12 51.39	+ 5 13.9	1.955	2.935	4.3	20.5
4 1	12 42.61	+ 5 53.6	1.953	2.942	3.5	20.4
4 11	12 33.93	+ 6 23.3	1.980	2.948	6.2	20.6
4 21	12 26.19	+ 6 39.4	2.034	2.954	9.5	20.8
5 1	12 20.07	+ 6 40.0	2.112	2.959	12.5	21.0
5 11	12 15.99	+ 6 25.0	2.210	2.964	15.1	21.2

166629 2002 SN_{24} 4 1.1 225°.86 1°.2/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.83	− 2 45.6	2.156	3.028	10.6	20.0
3 12	12 57.39	− 2 8.4	2.084	3.024	7.3	19.8
3 22	12 50.42	− 1 24.4	2.038	3.021	3.7	19.6
4 1	12 42.60	− 0 38.3	2.020	3.018	1.3	19.4
4 11	12 34.77	+ 0 4.7	2.032	3.014	4.5	19.6
4 21	12 27.70	+ 0 39.8	2.071	3.011	8.2	19.8
5 1	12 22.09	+ 1 3.4	2.135	3.007	11.4	20.0
5 11	12 18.38	+ 1 13.4	2.221	3.003	14.2	20.2

264161 2010 AA_{100} 4 1.1 212°.41 6°.0/25.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.37	+13 4.3	2.229	3.109	9.9	20.6
3 12	12 57.70	+14 9.4	2.174	3.106	7.6	20.5
3 22	12 50.55	+15 8.6	2.145	3.104	6.1	20.4
4 1	12 42.61	+15 55.3	2.145	3.101	6.5	20.4
4 11	12 34.72	+16 24.5	2.171	3.098	8.4	20.5
4 21	12 27.65	+16 33.7	2.223	3.094	11.0	20.7
5 1	12 22.05	+16 22.4	2.297	3.091	13.4	20.8
5 11	12 18.33	+15 52.2	2.390	3.088	15.4	21.0

135294 2001 SQ_{165} 4 1.1 155°.56 1°.0/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.36	− 9 58.7	2.484	3.331	10.2	20.7
3 12	12 56.90	− 9 33.9	2.411	3.336	7.3	20.6
3 22	12 50.12	− 8 58.5	2.364	3.340	4.1	20.4
4 1	12 42.62	− 8 15.6	2.346	3.344	1.1	20.1
4 11	12 35.13	− 7 29.3	2.358	3.348	3.2	20.3
4 21	12 28.34	− 6 44.3	2.399	3.351	6.5	20.5
5 1	12 22.83	− 6 4.8	2.466	3.354	9.5	20.7
5 11	12 19.01	− 5 34.1	2.557	3.357	12.1	20.9

259540 2003 UR_{79} 4 1.1 96°.31 0°.2/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.89	− 7 14.5	1.617	2.484	13.8	20.6
3 12	13 0.43	− 6 40.5	1.565	2.501	9.6	20.4
3 22	12 52.02	− 5 54.0	1.537	2.519	5.0	20.2
4 1	12 42.64	− 5 0.4	1.536	2.536	0.2	19.8
4 11	12 33.44	− 4 6.8	1.563	2.552	4.7	20.2
4 21	12 25.47	− 3 19.8	1.617	2.568	9.1	20.5
5 1	12 19.53	− 2 44.8	1.695	2.584	13.0	20.8
5 11	12 16.06	− 2 24.8	1.793	2.600	16.2	21.0

158958 2004 RM_{178} 4 1.1 322°.59 5°.2/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.43	−16 45.1	1.194	2.052	18.2	19.6
3 12	12 59.01	−16 55.1	1.116	2.038	14.1	19.3
3 22	12 51.75	−16 38.0	1.059	2.025	9.5	19.0
4 1	12 42.64	−15 54.2	1.023	2.013	5.6	18.7
4 11	12 33.19	−14 49.5	1.011	2.001	6.4	18.7
4 21	12 24.97	−13 34.1	1.022	1.990	11.0	18.9
5 1	12 19.32	−12 19.9	1.055	1.979	16.0	19.2
5 11	12 16.99	−11 17.7	1.105	1.970	20.4	19.4

159950 2005 YM_{89} 4 1.1 58°.68 1°.7/30.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.37	− 2 42.5	1.591	2.472	13.1	19.8
3 12	12 58.63	− 1 54.0	1.548	2.493	8.9	19.6
3 22	12 51.07	− 0 57.9	1.529	2.513	4.5	19.4
4 1	12 42.63	− 0 0.9	1.537	2.534	1.8	19.3
4 11	12 34.43	+ 0 49.7	1.572	2.555	5.6	19.6
4 21	12 27.43	+ 1 28.2	1.633	2.576	9.7	19.9
5 1	12 22.38	+ 1 50.7	1.717	2.597	13.4	20.1
5 11	12 19.66	+ 1 56.0	1.821	2.618	16.4	20.4

222624 2001 XE_{93} 4 1.1 308.°35 7.°7/ 7.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 1.88	−25 15.3	1.568	2.373	17.3	19.4
3 12	12 57.65	−25 25.1	1.468	2.347	14.4	19.1
3 22	12 50.97	−25 4.6	1.388	2.321	11.2	18.8
4 1	12 42.64	−24 11.7	1.329	2.295	8.4	18.6
4 11	12 33.88	−22 49.0	1.296	2.270	7.9	18.5
4 21	12 26.00	−21 4.5	1.287	2.245	10.2	18.6
5 1	12 20.20	−19 9.9	1.301	2.221	13.9	18.7
5 11	12 17.27	−17 17.9	1.336	2.197	17.8	18.9

25610 2000 AC_{20} 4 1.1 212.°05 1.°0/31.3 18

3 2	13 8.31	− 4 21.0	1.654	2.525	13.3	18.9
3 12	13 1.65	− 3 39.4	1.579	2.519	9.3	18.6
3 22	12 52.81	− 2 46.7	1.528	2.512	4.7	18.3
4 1	12 42.67	− 1 48.7	1.505	2.504	1.1	18.0
4 11	12 32.42	− 0 52.9	1.510	2.495	5.5	18.3
4 21	12 23.22	− 0 6.1	1.542	2.486	10.1	18.6
5 1	12 16.04	+ 0 26.1	1.598	2.476	14.3	18.8
5 11	12 11.45	+ 0 40.8	1.673	2.465	17.8	19.0

374053 2004 PQ_{43} 4 1.1 189.°38 0.°2/31.9 17

3 2	13 3.57	− 6 27.2	2.464	3.321	10.0	22.0
3 12	12 57.77	− 5 44.6	2.387	3.320	7.0	21.8
3 22	12 50.59	− 4 52.8	2.337	3.318	3.6	21.6
4 1	12 42.64	− 3 56.1	2.317	3.316	0.2	21.3
4 11	12 34.68	− 2 59.2	2.327	3.313	3.7	21.6
4 21	12 27.41	− 2 7.2	2.366	3.309	7.1	21.8
5 1	12 21.45	− 1 24.2	2.431	3.305	10.2	22.0
5 11	12 17.22	− 0 53.1	2.519	3.300	12.8	22.2

44921 1999 VL_{32} 4 1.1 300.°59 1.°8/30.5 18

3 2	13 3.80	− 1 20.2	1.854	2.733	11.7	18.6
3 12	12 58.27	− 0 44.3	1.785	2.729	8.1	18.4
3 22	12 50.96	− 0 2.1	1.740	2.724	4.1	18.2
4 1	12 42.65	+ 0 41.1	1.723	2.720	1.9	18.0
4 11	12 34.30	+ 1 19.3	1.734	2.715	5.4	18.2
4 21	12 26.86	+ 1 47.4	1.771	2.711	9.3	18.4
5 1	12 21.10	+ 2 1.7	1.833	2.707	12.9	18.6
5 11	12 17.52	+ 2 0.6	1.914	2.703	16.0	18.8

158108 2000 YB_{95} 4 1.1 161.°01 3.°3/28.5 18

3 2	13 3.22	+ 3 7.6	2.079	2.960	10.5	20.0
3 12	12 57.66	+ 4 10.3	2.019	2.964	7.2	19.8
3 22	12 50.56	+ 5 15.3	1.986	2.967	4.2	19.6
4 1	12 42.64	+ 6 16.2	1.982	2.969	3.6	19.6
4 11	12 34.78	+ 7 7.0	2.006	2.972	6.3	19.8
4 21	12 27.77	+ 7 43.0	2.057	2.974	9.5	20.0
5 1	12 22.28	+ 8 1.8	2.131	2.975	12.5	20.2
5 11	12 18.73	+ 8 3.0	2.226	2.977	15.1	20.3

302893 2003 PK 4 1.1 168.°16 8.°1/23.8 18

3 2	13 4.86	+ 2 54.0	1.075	1.979	16.0	19.7
3 12	12 59.82	+ 6 56.6	1.029	1.982	11.2	19.4
3 22	12 52.01	+11 9.9	1.009	1.985	8.2	19.3
4 1	12 42.66	+15 7.6	1.017	1.987	9.7	19.4
4 11	12 33.39	+18 25.7	1.052	1.988	14.1	19.6
4 21	12 25.68	+20 51.1	1.108	1.989	18.7	19.9
5 1	12 20.65	+22 21.4	1.183	1.990	22.7	20.1
5 11	12 18.83	+23 2.4	1.270	1.989	25.8	20.4

268490 2005 YW_{10} 4 1.1 172.°59 0.°6/ 1.8 17

3 2	13 3.98	− 8 40.2	1.940	2.799	12.2	21.4
3 12	12 58.34	− 8 9.1	1.868	2.800	8.6	21.2
3 22	12 50.98	− 7 25.4	1.822	2.801	4.7	20.9
4 1	12 42.66	− 6 33.3	1.803	2.802	0.7	20.6
4 11	12 34.33	− 5 38.6	1.813	2.803	4.0	20.9
4 21	12 26.89	− 4 47.4	1.851	2.803	8.1	21.1
5 1	12 21.10	− 4 5.0	1.913	2.803	11.7	21.4
5 11	12 17.44	− 3 35.3	1.997	2.803	14.8	21.6

469606 2004 GO_{40} 4 1.1 2.°48 0.°5/ 1.7 17

3 2	12 59.65	− 9 39.6	2.002	2.864	11.7	20.6
3 12	12 55.29	− 8 41.7	1.930	2.863	8.3	20.4
3 22	12 49.39	− 7 29.5	1.883	2.863	4.4	20.2
4 1	12 42.64	− 6 8.3	1.865	2.864	0.6	19.8
4 11	12 35.90	− 4 44.9	1.874	2.864	3.9	20.1
4 21	12 29.96	− 3 26.5	1.912	2.865	7.8	20.3
5 1	12 25.50	− 2 19.4	1.975	2.866	11.4	20.6
5 11	12 22.96	− 1 27.5	2.059	2.867	14.3	20.8

87200 2000 OV_{24} 4 1.1 249.°62 0.°9/31.2 18

3 2	13 5.20	− 3 53.2	2.224	3.088	10.6	20.2
3 12	12 59.16	− 3 14.1	2.130	3.067	7.4	19.9
3 22	12 51.44	− 2 26.5	2.063	3.046	3.8	19.6
4 1	12 42.67	− 1 34.7	2.025	3.023	1.0	19.4
4 11	12 33.71	− 0 44.1	2.016	3.000	4.5	19.6
4 21	12 25.41	+ 0 0.0	2.037	2.976	8.3	19.8
5 1	12 18.54	+ 0 33.2	2.083	2.952	11.8	20.0
5 11	12 13.64	+ 0 52.6	2.150	2.926	14.8	20.1

436962 2012 TX_{161} 4 1.1 224.°50 0.°6/31.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 2.88	− 4 27.2	2.186	3.054	10.6	22.0
3 12	12 57.44	− 3 54.2	2.112	3.050	7.4	21.8
3 22	12 50.48	− 3 13.1	2.064	3.047	3.7	21.5
4 1	12 42.66	− 2 28.4	2.044	3.043	0.7	21.3
4 11	12 34.82	− 1 45.0	2.054	3.039	4.2	21.6
4 21	12 27.73	− 1 7.7	2.091	3.035	7.8	21.8
5 1	12 22.08	− 0 40.6	2.154	3.031	11.1	22.0
5 11	12 18.31	− 0 26.0	2.238	3.027	13.9	22.1

516154 2016 CL_{32} 4 1.1 80.°83 14.°4/25.7 18 CR

3 2	13 34.70	+14 41.1	0.673	1.565	24.3	20.5
3 12	13 19.30	+18 7.3	0.691	1.626	18.2	20.5
3 22	13 1.01	+20 48.4	0.729	1.685	14.7	20.6
4 1	12 42.77	+22 26.1	0.790	1.741	15.1	20.8
4 11	12 27.29	+22 58.8	0.871	1.793	18.1	21.2
4 21	12 16.02	+22 38.1	0.971	1.843	21.5	21.6
5 1	12 9.37	+21 38.5	1.086	1.890	24.5	22.0
5 11	12 6.96	+20 13.2	1.212	1.934	26.7	22.4

3408 Shalamov 4 1.1 231.°42 1.°4/30.8 18

3 2	13 5.72	− 3 27.1	1.939	2.809	11.7	17.6
3 12	12 59.66	− 2 35.4	1.856	2.796	8.1	17.3
3 22	12 51.73	− 1 34.0	1.799	2.782	4.1	17.1
4 1	12 42.68	− 0 28.6	1.770	2.768	1.5	16.8
4 11	12 33.50	+ 0 34.0	1.771	2.753	5.2	17.1
4 21	12 25.14	+ 1 27.3	1.799	2.737	9.3	17.3
5 1	12 18.44	+ 2 6.5	1.852	2.721	13.1	17.5
5 11	12 13.95	+ 2 28.7	1.925	2.703	16.2	17.7

147294 2003 AD_{43} 4 1.1 89.°43 0.°2/ 1.3 18

3 2	13 5.58	− 7 0.7	1.667	2.535	13.3	19.9
3 12	12 59.60	− 6 35.3	1.606	2.543	9.4	19.7
3 22	12 51.67	− 5 57.8	1.568	2.550	4.9	19.4
4 1	12 42.69	− 5 13.1	1.558	2.557	0.3	19.1
4 11	12 33.78	− 4 27.4	1.576	2.565	4.6	19.4
4 21	12 25.96	− 3 47.1	1.620	2.572	9.0	19.7
5 1	12 20.08	− 3 17.4	1.688	2.580	12.9	20.0
5 11	12 16.60	− 3 1.6	1.776	2.587	16.2	20.2

341570 2007 UJ_{54} 4 1.1 103.°51 0.°0/ 1.1 17

3 2	13 2.94	− 6 22.3	2.323	3.184	10.4	21.2
3 12	12 57.31	− 5 51.2	2.264	3.198	7.2	21.0
3 22	12 50.34	− 5 11.8	2.231	3.212	3.7	20.8
4 1	12 42.68	− 4 27.8	2.227	3.226	0.0	20.5
4 11	12 35.11	− 3 44.0	2.252	3.240	3.6	20.9
4 21	12 28.34	− 3 5.0	2.306	3.253	7.0	21.1
5 1	12 22.95	− 2 34.3	2.386	3.266	10.1	21.3
5 11	12 19.31	− 2 14.6	2.488	3.279	12.6	21.5

389723 2011 SB_{53} 4 1.1 116.°77 0.°1/31.9 17

3 2	13 0.67	− 6 36.5	2.435	3.297	9.9	21.3
3 12	12 55.75	− 5 55.3	2.367	3.302	6.9	21.1
3 22	12 49.55	− 5 5.2	2.325	3.307	3.5	20.9
4 1	12 42.67	− 4 10.4	2.312	3.311	0.1	20.6
4 11	12 35.82	− 3 15.8	2.329	3.316	3.5	20.9
4 21	12 29.65	− 2 26.1	2.374	3.321	6.9	21.1
5 1	12 24.74	− 1 45.3	2.445	3.325	9.9	21.3
5 11	12 21.48	− 1 16.1	2.538	3.329	12.4	21.5

506823 2007 SR_{24} 4 1.1 125.°39 5.°7/ 8.8 17

3 2	13 3.17	−27 9.3	2.660	3.416	12.2	21.2
3 12	12 57.53	−27 14.5	2.583	3.427	10.1	21.1
3 22	12 50.49	−27 0.1	2.529	3.438	7.9	21.0
4 1	12 42.69	−26 26.2	2.502	3.449	6.2	20.9
4 11	12 34.89	−25 35.6	2.501	3.459	5.7	20.8
4 21	12 27.83	−24 32.9	2.529	3.469	6.9	20.9
5 1	12 22.13	−23 23.9	2.584	3.479	8.8	21.1
5 11	12 18.19	−22 14.9	2.662	3.489	10.9	21.2

426457 2013 QR_{70} 4 1.1 156.°75 3.°2/ 4.3 17

3 2	13 7.57	−15 37.2	2.311	3.131	11.9	21.8
3 12	13 0.67	−15 45.4	2.236	3.138	9.0	21.6
3 22	12 52.14	−15 39.0	2.186	3.145	5.9	21.5
4 1	12 42.71	−15 19.4	2.164	3.151	3.4	21.3
4 11	12 33.26	−14 49.7	2.172	3.157	4.1	21.4
4 21	12 24.63	−14 14.5	2.209	3.162	6.9	21.5
5 1	12 17.54	−13 38.9	2.273	3.167	10.0	21.7
5 11	12 12.46	−13 7.7	2.360	3.171	12.7	21.9

52859 1998 RG_{79} 4 1.1 234.°72 2.°7/29.9 17

3 2	13 7.42	− 0 28.6	1.637	2.517	12.9	19.4
3 12	13 1.10	+ 0 28.4	1.560	2.505	9.0	19.2
3 22	12 52.58	+ 1 33.6	1.508	2.492	4.7	18.9
4 1	12 42.72	+ 2 39.6	1.484	2.478	2.9	18.7
4 11	12 32.70	+ 3 38.2	1.487	2.464	6.7	18.9
4 21	12 23.69	+ 4 22.4	1.516	2.449	11.1	19.1
5 1	12 16.66	+ 4 47.7	1.569	2.434	15.2	19.3
5 11	12 12.23	+ 4 52.4	1.640	2.418	18.6	19.5

101188 1998 SP_{14} 4 1.1 219°.36 3°.3/27.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 2.64	+ 5 5.8	2.693	3.569	8.6	21.2
3 12	12 57.08	+ 6 10.9	2.617	3.558	6.0	21.0
3 22	12 50.25	+ 7 17.1	2.570	3.546	3.8	20.9
4 1	12 42.69	+ 8 19.4	2.553	3.534	3.6	20.8
4 11	12 35.09	+ 9 12.6	2.565	3.521	5.7	20.9
4 21	12 28.08	+ 9 52.9	2.606	3.507	8.4	21.1
5 1	12 22.24	+10 18.0	2.671	3.493	11.0	21.2
5 11	12 17.97	+10 27.2	2.758	3.478	13.1	21.4

266371 2007 EP_{78} 4 1.1 63°.88 0°.9/31.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.15	− 4 54.2	1.705	2.581	12.7	20.6
3 12	12 57.88	− 4 4.6	1.644	2.586	8.8	20.3
3 22	12 50.78	− 3 4.3	1.607	2.591	4.4	20.1
4 1	12 42.70	− 1 59.5	1.597	2.596	1.0	19.8
4 11	12 34.67	− 0 57.5	1.615	2.601	5.0	20.1
4 21	12 27.66	− 0 5.2	1.660	2.606	9.3	20.4
5 1	12 22.45	+ 0 32.6	1.728	2.612	13.1	20.6
5 11	12 19.50	+ 0 53.2	1.817	2.617	16.2	20.9

112972 2002 RJ_{20} 4 1.1 152°.48 1°.2/30.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.99	− 2 23.9	2.365	3.234	9.9	20.3
3 12	12 57.37	− 1 44.0	2.300	3.239	6.8	20.1
3 22	12 50.39	− 0 58.4	2.261	3.244	3.4	19.9
4 1	12 42.70	− 0 11.5	2.252	3.249	1.3	19.7
4 11	12 35.04	+ 0 31.9	2.272	3.254	4.3	19.9
4 21	12 28.13	+ 1 7.5	2.321	3.258	7.6	20.1
5 1	12 22.57	+ 1 32.1	2.395	3.262	10.6	20.3
5 11	12 18.75	+ 1 44.1	2.492	3.265	13.1	20.5

433118 2012 TO_{160} 4 1.1 23°.76 1°.7/30.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.23	− 2 28.8	1.954	2.832	11.2	21.0
3 12	12 56.39	− 1 33.0	1.890	2.834	7.7	20.8
3 22	12 49.97	− 0 29.8	1.852	2.836	3.9	20.6
4 1	12 42.69	+ 0 35.1	1.841	2.838	1.8	20.4
4 11	12 35.45	+ 1 35.0	1.859	2.840	5.1	20.6
4 21	12 29.05	+ 2 24.2	1.904	2.843	8.9	20.9
5 1	12 24.20	+ 2 58.6	1.973	2.845	12.2	21.1
5 11	12 21.32	+ 3 16.3	2.063	2.848	15.1	21.3

491239 2011 UO_{201} 4 1.1 166°.71 7°.9/26.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 15.96	+17 19.8	1.828	2.690	12.7	21.4
3 12	13 6.62	+17 59.3	1.777	2.695	10.0	21.2
3 22	12 55.20	+18 25.9	1.753	2.700	8.2	21.1
4 1	12 42.77	+18 32.3	1.756	2.704	8.3	21.2
4 11	12 30.58	+18 14.5	1.787	2.707	10.4	21.3
4 21	12 19.79	+17 32.2	1.844	2.709	13.1	21.5
5 1	12 11.23	+16 28.0	1.924	2.711	15.8	21.6
5 11	12 5.35	+15 6.5	2.022	2.712	18.1	21.8

276114 2002 GZ_{47} 4 1.1 191°.57 0°.5/ 1.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.35	− 9 9.0	1.954	2.814	12.0	20.7
3 12	12 57.22	− 8 23.4	1.881	2.814	8.5	20.5
3 22	12 50.43	− 7 24.1	1.834	2.813	4.6	20.3
4 1	12 42.71	− 6 15.9	1.814	2.813	0.6	20.0
4 11	12 34.97	− 5 5.4	1.822	2.812	4.0	20.2
4 21	12 28.10	− 3 59.1	1.859	2.811	8.1	20.5
5 1	12 22.80	− 3 3.2	1.920	2.810	11.7	20.7
5 11	12 19.57	− 2 21.6	2.003	2.809	14.7	20.9

341845 2008 EQ_{39} 4 1.1 278°.34 1°.0/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	12 55.81	−11 29.0	4.452	5.286	6.3	20.8
3 12	12 52.04	−11 10.3	4.354	5.270	4.6	20.7
3 22	12 47.55	−10 44.9	4.284	5.254	2.7	20.5
4 1	12 42.67	−10 14.5	4.243	5.239	1.1	20.4
4 11	12 37.75	− 9 41.2	4.234	5.223	1.9	20.5
4 21	12 33.13	− 9 7.1	4.254	5.207	3.9	20.6
5 1	12 29.14	− 8 34.7	4.302	5.191	5.8	20.7
5 11	12 26.03	− 8 6.1	4.376	5.175	7.4	20.8

470236 2006 WR_{172} 4 1.1 174°.50 3°.4/ 5.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.23	−19 4.2	2.687	3.494	10.8	21.8
3 12	12 56.15	−18 47.5	2.604	3.495	8.4	21.7
3 22	12 49.78	−18 15.3	2.546	3.496	5.8	21.5
4 1	12 42.70	−17 29.2	2.516	3.497	3.7	21.4
4 11	12 35.60	−16 32.8	2.515	3.498	3.8	21.4
4 21	12 29.14	−15 30.7	2.543	3.498	6.0	21.5
5 1	12 23.88	−14 28.3	2.598	3.498	8.6	21.7
5 11	12 20.24	−13 30.6	2.678	3.498	11.0	21.8

467739 2009 RJ_{17} 4 1.1 272°.54 0°.7/31.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.22	− 5 37.8	1.747	2.620	12.6	21.7
3 12	12 58.07	− 4 48.0	1.667	2.607	8.8	21.5
3 22	12 50.98	− 3 45.6	1.611	2.595	4.5	21.2
4 1	12 42.72	− 2 36.3	1.583	2.582	0.7	20.9
4 11	12 34.32	− 1 27.7	1.582	2.569	5.0	21.2
4 21	12 26.81	− 0 27.0	1.608	2.555	9.5	21.4
5 1	12 21.05	+ 0 19.6	1.658	2.542	13.5	21.6
5 11	12 17.60	+ 0 48.5	1.728	2.529	16.9	21.8

80107 1999 RG_{29} 4 1.1 148°.87 6°.6/24.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 6.70	+ 8 16.7	1.729	2.614	12.0	19.7
3 12	13 0.27	+10 49.2	1.687	2.627	8.8	19.5
3 22	12 51.98	+13 19.5	1.673	2.639	6.7	19.4
4 1	12 42.73	+15 35.0	1.689	2.650	7.5	19.5
4 11	12 33.62	+17 25.2	1.733	2.660	10.2	19.7
4 21	12 25.65	+18 44.6	1.802	2.668	13.3	19.9
5 1	12 19.59	+19 31.9	1.893	2.676	16.2	20.1
5 11	12 15.89	+19 49.7	2.000	2.683	18.5	20.3

490868 2011 AU_{67} 4 1.1 84°.33 0°.6/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.13	− 8 38.2	1.724	2.587	13.2	22.1
3 12	12 59.16	− 8 3.2	1.671	2.605	9.3	21.9
3 22	12 51.39	− 7 14.9	1.642	2.622	5.0	21.7
4 1	12 42.72	− 6 18.4	1.640	2.639	0.7	21.4
4 11	12 34.21	− 5 20.6	1.667	2.657	4.3	21.7
4 21	12 26.82	− 4 27.9	1.721	2.674	8.5	22.0
5 1	12 21.30	− 3 46.0	1.799	2.691	12.2	22.3
5 11	12 18.06	− 3 18.3	1.898	2.707	15.3	22.5

330976 2009 TY_{10} 4 1.1 235°.13 0°.6/ 1.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.11	−10 12.7	1.864	2.724	12.6	20.5
3 12	12 57.15	− 9 14.3	1.787	2.719	9.0	20.2
3 22	12 50.43	− 7 59.6	1.735	2.714	4.9	20.0
4 1	12 42.71	− 6 33.8	1.711	2.709	0.8	19.7
4 11	12 34.94	− 5 4.6	1.714	2.704	4.2	19.9
4 21	12 28.05	− 3 40.1	1.746	2.699	8.4	20.1
5 1	12 22.80	− 2 27.3	1.803	2.693	12.3	20.4
5 11	12 19.69	− 1 31.0	1.881	2.688	15.5	20.6

406241 2007 CM_{50} 4 1.1 86°.99 0°.7/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.21	− 5 57.2	1.877	2.741	12.3	21.3
3 12	12 59.64	− 4 55.2	1.838	2.775	8.4	21.1
3 22	12 51.52	− 3 43.7	1.825	2.807	4.2	20.9
4 1	12 42.73	− 2 29.2	1.841	2.839	0.7	20.7
4 11	12 34.24	− 1 18.8	1.886	2.871	4.5	21.1
4 21	12 26.89	− 0 18.6	1.959	2.901	8.4	21.4
5 1	12 21.30	+ 0 27.3	2.057	2.931	11.7	21.6
5 11	12 17.83	+ 0 56.8	2.177	2.961	14.4	21.9

462273 2008 EA_{148} 4 1.1 47°.34 0°.0/ 1.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.65	− 5 47.2	1.387	2.265	14.9	21.6
3 12	13 0.56	− 5 33.0	1.336	2.278	10.4	21.4
3 22	12 52.23	− 5 7.0	1.308	2.291	5.4	21.1
4 1	12 42.74	− 4 34.3	1.305	2.304	0.1	20.7
4 11	12 33.42	− 4 1.7	1.329	2.318	5.2	21.2
4 21	12 25.46	− 3 35.6	1.378	2.333	10.0	21.5
5 1	12 19.77	− 3 20.8	1.449	2.347	14.2	21.8
5 11	12 16.81	− 3 20.4	1.540	2.362	17.7	22.0

332597 2008 SK_{229} 4 1.1 239°.14 1°.9/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.96	−12 31.7	1.993	2.840	12.4	21.1
3 12	12 57.69	−12 4.8	1.913	2.835	9.1	20.9
3 22	12 50.70	−11 22.2	1.857	2.830	5.4	20.6
4 1	12 42.72	−10 27.0	1.829	2.825	2.1	20.4
4 11	12 34.68	− 9 24.9	1.829	2.820	3.9	20.5
4 21	12 27.45	− 8 22.2	1.857	2.814	7.7	20.7
5 1	12 21.81	− 7 25.3	1.911	2.809	11.3	20.9
5 11	12 18.25	− 6 39.3	1.986	2.803	14.4	21.1

372949 2011 BR_{76} 4 1.1 155°.89 2°.5/29.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.95	− 0 42.7	1.837	2.719	11.6	21.5
3 12	12 57.66	+ 0 23.7	1.775	2.721	8.0	21.3
3 22	12 50.66	+ 1 36.7	1.738	2.722	4.2	21.1
4 1	12 42.72	+ 2 49.5	1.730	2.724	2.7	21.0
4 11	12 34.82	+ 3 54.5	1.749	2.725	6.0	21.2
4 21	12 27.85	+ 4 45.7	1.795	2.726	9.8	21.4
5 1	12 22.56	+ 5 19.2	1.864	2.727	13.2	21.6
5 11	12 19.39	+ 5 33.6	1.953	2.728	16.1	21.8

492216 2013 SM_{74} 4 1.1 137°.77 0°.2/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.75	− 6 40.3	1.961	2.826	11.8	22.0
3 12	12 58.14	− 5 58.2	1.895	2.831	8.2	21.8
3 22	12 50.88	− 5 5.2	1.855	2.837	4.2	21.6
4 1	12 42.73	− 4 6.3	1.843	2.843	0.2	21.2
4 11	12 34.62	− 3 7.7	1.860	2.848	4.2	21.6
4 21	12 27.43	− 2 15.3	1.905	2.853	8.2	21.8
5 1	12 21.85	− 1 34.1	1.974	2.857	11.7	22.1
5 11	12 18.33	− 1 7.1	2.065	2.862	14.7	22.3

6806 Kaufmann 4 1.1 115°.95 1°.6/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.02	−10 18.8	1.688	2.544	13.8	18.0
3 12	13 0.63	−10 5.6	1.624	2.553	10.0	17.7
3 22	12 52.23	− 9 37.5	1.585	2.562	5.7	17.5
4 1	12 42.75	− 8 58.2	1.573	2.570	1.7	17.2
4 11	12 33.32	− 8 13.5	1.588	2.578	4.3	17.4
4 21	12 25.01	− 7 29.9	1.630	2.586	8.7	17.7
5 1	12 18.67	− 6 53.4	1.697	2.594	12.6	18.0
5 11	12 14.80	− 6 28.4	1.785	2.602	15.8	18.2

326099 2011 BR_{103} 4 1.1 42°.54 0°.4/ 1.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	12 59.31	− 7 49.5	2.860	3.715	8.8	21.4
3 12	12 54.69	− 7 27.4	2.790	3.721	6.2	21.3
3 22	12 48.98	− 6 57.8	2.747	3.726	3.3	21.1
4 1	12 42.71	− 6 23.2	2.733	3.732	0.5	20.8
4 11	12 36.45	− 5 47.2	2.749	3.738	2.9	21.1
4 21	12 30.77	− 5 13.3	2.793	3.744	5.8	21.3
5 1	12 26.14	− 4 44.8	2.865	3.750	8.4	21.4
5 11	12 22.90	− 4 24.2	2.959	3.757	10.7	21.6

522439 2016 CJ_{318} 4 1.1 77°.47 5°.9/26.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.35	+ 7 43.4	1.642	2.534	12.1	21.1
3 12	12 58.03	+ 9 15.2	1.595	2.540	8.7	20.9
3 22	12 50.86	+10 45.0	1.574	2.547	6.2	20.8
4 1	12 42.73	+12 3.3	1.579	2.553	6.4	20.8
4 11	12 34.72	+13 2.0	1.611	2.559	9.2	21.0
4 21	12 27.81	+13 36.4	1.667	2.565	12.5	21.2
5 1	12 22.78	+13 45.2	1.744	2.571	15.6	21.4
5 11	12 20.04	+13 30.2	1.838	2.578	18.2	21.6

95492 2002 EQ_{30} 4 1.1 37°.38 1°.5/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.07	− 4 30.3	1.622	2.504	12.9	19.4
3 12	12 56.49	− 3 14.8	1.564	2.510	8.8	19.2
3 22	12 50.09	− 1 47.8	1.532	2.517	4.4	18.9
4 1	12 42.72	− 0 17.1	1.526	2.524	1.7	18.7
4 11	12 35.44	+ 1 7.9	1.548	2.531	5.6	19.0
4 21	12 29.19	+ 2 19.6	1.595	2.538	9.9	19.3
5 1	12 24.74	+ 3 12.4	1.666	2.546	13.7	19.5
5 11	12 22.53	+ 3 44.0	1.757	2.554	16.8	19.8

465357 2008 AP_{37} 4 1.1 77°.31 1°.0/ 2.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.65	− 9 25.9	1.522	2.386	14.6	22.0
3 12	13 0.38	− 8 58.2	1.472	2.405	10.4	21.8
3 22	12 52.08	− 8 15.2	1.445	2.425	5.6	21.6
4 1	12 42.75	− 7 22.1	1.445	2.444	1.2	21.3
4 11	12 33.64	− 6 26.1	1.473	2.463	4.6	21.6
4 21	12 25.83	− 5 34.7	1.526	2.482	9.1	21.9
5 1	12 20.14	− 4 54.0	1.604	2.501	13.1	22.2
5 11	12 17.01	− 4 27.9	1.701	2.520	16.4	22.4

504149 2006 SG_{181} 4 1.1 154°.28 0°.0/ 1.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.73	− 6 33.2	2.548	3.407	9.6	22.5
3 12	12 56.46	− 5 57.8	2.478	3.412	6.7	22.3
3 22	12 49.93	− 5 14.2	2.435	3.416	3.5	22.1
4 1	12 42.73	− 4 25.9	2.421	3.420	0.1	21.8
4 11	12 35.55	− 3 37.6	2.437	3.424	3.4	22.1
4 21	12 29.05	− 2 53.5	2.481	3.428	6.7	22.4
5 1	12 23.77	− 2 17.4	2.552	3.431	9.6	22.5
5 11	12 20.10	− 1 51.9	2.646	3.434	12.0	22.7

282833 2006 TK_{95} 4 1.1 162°.52 8°.3/17.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.21	+28 54.5	2.949	3.782	9.2	21.3
3 12	12 57.40	+30 18.4	2.924	3.788	8.5	21.2
3 22	12 50.38	+31 27.5	2.924	3.793	8.4	21.2
4 1	12 42.74	+32 16.7	2.950	3.797	9.1	21.3
4 11	12 35.20	+32 42.9	3.000	3.802	10.2	21.3
4 21	12 28.39	+32 45.8	3.072	3.805	11.5	21.4
5 1	12 22.85	+32 26.7	3.163	3.809	12.8	21.6
5 11	12 18.92	+31 48.4	3.270	3.812	13.9	21.7

52838 1998 RW_{55} 4 1.1 119°.94 2°.3/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.17	−12 10.2	1.549	2.400	15.1	19.3
3 12	13 2.22	−11 55.5	1.491	2.415	11.0	19.1
3 22	12 53.09	−11 22.8	1.455	2.429	6.5	18.8
4 1	12 42.79	−10 35.7	1.446	2.442	2.5	18.6
4 11	12 32.61	− 9 41.0	1.465	2.455	4.7	18.8
4 21	12 23.74	− 8 46.3	1.510	2.467	9.1	19.1
5 1	12 17.07	− 7 58.8	1.580	2.479	13.2	19.3
5 11	12 13.11	− 7 23.9	1.670	2.490	16.6	19.6

177938 2005 UJ_{121} 4 1.1 278°.58 0°.4/ 1.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.18	− 7 46.7	2.382	3.241	10.2	20.5
3 12	12 56.26	− 7 17.7	2.296	3.228	7.2	20.3
3 22	12 49.92	− 6 38.6	2.236	3.216	3.9	20.0
4 1	12 42.74	− 5 52.9	2.205	3.204	0.4	19.7
4 11	12 35.48	− 5 5.2	2.202	3.191	3.5	20.0
4 21	12 28.85	− 4 20.1	2.228	3.179	7.0	20.2
5 1	12 23.49	− 3 42.2	2.280	3.166	10.2	20.3
5 11	12 19.85	− 3 14.8	2.354	3.154	13.0	20.5

505611 2014 EK_{5} 4 1.1 265°.74 2°.0/29.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	12 59.84	− 0 52.5	2.344	3.221	9.6	21.3
3 12	12 55.27	+ 0 14.0	2.273	3.217	6.6	21.1
3 22	12 49.37	+ 1 26.5	2.228	3.212	3.4	20.9
4 1	12 42.74	+ 2 39.2	2.213	3.207	2.2	20.8
4 11	12 36.08	+ 3 46.3	2.228	3.203	5.0	21.0
4 21	12 30.10	+ 4 42.6	2.270	3.198	8.2	21.2
5 1	12 25.38	+ 5 24.5	2.336	3.193	11.1	21.4
5 11	12 22.34	+ 5 50.2	2.424	3.188	13.6	21.5

224557 2005 WL_{158} 4 1.1 69°.37 6°.6/26.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.49	+11 47.8	1.708	2.591	12.2	20.0
3 12	13 0.58	+12 59.0	1.687	2.623	9.1	19.8
3 22	12 52.01	+14 1.5	1.692	2.655	6.9	19.8
4 1	12 42.77	+14 47.5	1.723	2.687	7.1	19.8
4 11	12 33.95	+15 11.9	1.782	2.718	9.3	20.0
4 21	12 26.45	+15 13.3	1.864	2.749	12.1	20.3
5 1	12 20.92	+14 52.6	1.969	2.780	14.7	20.5
5 11	12 17.68	+14 13.0	2.091	2.810	16.8	20.7

465140 2007 BA_{3} 4 1.1 80°.43 4°.1/28.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.57	+ 3 59.5	1.686	2.571	12.3	21.7
3 12	13 0.04	+ 5 5.9	1.653	2.598	8.5	21.5
3 22	12 51.79	+ 6 12.3	1.644	2.624	5.0	21.4
4 1	12 42.77	+ 7 10.9	1.664	2.650	4.4	21.4
4 11	12 34.07	+ 7 55.2	1.711	2.676	7.2	21.6
4 21	12 26.62	+ 8 21.2	1.784	2.701	10.7	21.9
5 1	12 21.10	+ 8 27.4	1.879	2.726	13.9	22.1
5 11	12 17.85	+ 8 14.9	1.994	2.751	16.4	22.4

338946 2004 ET_{70} 4 1.1 53°.73 1°.3/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.53	− 9 30.4	1.848	2.706	12.7	20.5
3 12	12 58.68	− 9 19.4	1.796	2.726	9.1	20.4
3 22	12 51.14	− 8 55.9	1.768	2.745	5.1	20.2
4 1	12 42.77	− 8 23.6	1.768	2.765	1.4	19.9
4 11	12 34.55	− 7 47.6	1.795	2.786	3.9	20.2
4 21	12 27.37	− 7 13.2	1.850	2.806	7.8	20.4
5 1	12 21.93	− 6 45.3	1.930	2.826	11.3	20.7
5 11	12 18.65	− 6 27.5	2.031	2.847	14.2	20.9

260061 2004 HH_{37} 4 1.1 136°.82 4°.4/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.25	+ 5 53.3	1.762	2.645	12.0	20.4
3 12	13 0.68	+ 6 36.0	1.705	2.648	8.4	20.2
3 22	12 52.23	+ 7 17.7	1.674	2.652	5.2	20.0
4 1	12 42.79	+ 7 51.8	1.671	2.655	4.6	19.9
4 11	12 33.44	+ 8 12.5	1.695	2.658	7.4	20.1
4 21	12 25.18	+ 8 16.3	1.744	2.662	10.9	20.3
5 1	12 18.81	+ 8 1.8	1.817	2.664	14.2	20.5
5 11	12 14.80	+ 7 30.1	1.909	2.667	17.0	20.7

378822 2008 ST_{260} 4 1.1 66°.91 3°.3/ 4.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.26	−18 8.7	1.905	2.733	13.7	21.1
3 12	12 56.49	−17 22.2	1.837	2.744	10.4	20.9
3 22	12 50.06	−16 14.0	1.794	2.755	6.8	20.7
4 1	12 42.76	−14 48.2	1.776	2.765	3.7	20.5
4 11	12 35.55	−13 11.6	1.787	2.776	4.2	20.6
4 21	12 29.27	−11 32.6	1.826	2.787	7.5	20.8
5 1	12 24.65	− 9 59.7	1.891	2.798	10.9	21.0
5 11	12 22.10	− 8 39.3	1.979	2.809	14.0	21.2

370073 2001 RZ_{64} 4 1.1 233°.98 0°.8/ 2.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.90	−10 27.3	2.308	3.154	11.0	22.6
3 12	12 58.23	− 9 35.3	2.213	3.138	7.9	22.4
3 22	12 50.99	− 8 29.1	2.144	3.121	4.4	22.1
4 1	12 42.79	− 7 12.5	2.104	3.103	0.9	21.8
4 11	12 34.44	− 5 51.5	2.095	3.084	3.6	22.0
4 21	12 26.76	− 4 32.4	2.115	3.065	7.4	22.2
5 1	12 20.45	− 3 21.5	2.162	3.044	10.9	22.4
5 11	12 16.01	− 2 23.4	2.232	3.023	13.9	22.5

284125 2005 UM_{244} 4 1.1 149°.74 3°.4/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.15	−14 58.0	1.549	2.392	15.6	22.0
3 12	13 1.66	−14 48.4	1.482	2.398	11.7	21.8
3 22	12 52.89	−14 17.7	1.436	2.404	7.4	21.5
4 1	12 42.81	−13 28.6	1.417	2.409	3.7	21.3
4 11	12 32.73	−12 27.4	1.425	2.414	5.0	21.4
4 21	12 23.87	−11 22.3	1.459	2.418	9.2	21.6
5 1	12 17.20	−10 21.8	1.517	2.422	13.3	21.9
5 11	12 13.28	− 9 32.8	1.596	2.425	16.9	22.1

315463 2007 XP_{51} 4 1.1 111°.79 0°.8/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.32	− 5 14.0	1.721	2.591	12.9	22.1
3 12	13 0.00	− 4 25.9	1.668	2.607	8.9	21.9
3 22	12 51.86	− 3 27.5	1.640	2.623	4.5	21.7
4 1	12 42.80	− 2 24.9	1.639	2.638	0.8	21.4
4 11	12 33.89	− 1 25.2	1.667	2.653	4.9	21.7
4 21	12 26.12	− 0 35.0	1.722	2.667	9.1	22.0
5 1	12 20.25	+ 0 1.3	1.801	2.681	12.8	22.3
5 11	12 16.70	+ 0 21.1	1.900	2.694	15.9	22.5

292451 2006 SF_{359} 4 1.1 201°.83 1°.3/30.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.31	− 1 37.5	2.948	3.815	8.2	22.4
3 12	12 56.08	− 0 51.8	2.871	3.810	5.6	22.2
3 22	12 49.73	− 0 1.4	2.822	3.805	2.9	22.1
4 1	12 42.77	+ 0 49.9	2.803	3.799	1.4	21.9
4 11	12 35.79	+ 1 37.9	2.814	3.793	3.8	22.1
4 21	12 29.35	+ 2 19.0	2.855	3.786	6.6	22.3
5 1	12 23.95	+ 2 50.4	2.923	3.779	9.2	22.4
5 11	12 19.96	+ 3 10.2	3.013	3.771	11.4	22.6

140724 2001 UL_{94} 4 1.1 207°.71 2°.2/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 0.72	+ 0 12.1	2.461	3.338	9.3	20.2
3 12	12 55.83	+ 1 16.4	2.391	3.334	6.3	20.0
3 22	12 49.66	+ 2 25.4	2.348	3.331	3.4	19.8
4 1	12 42.77	+ 3 33.7	2.335	3.327	2.4	19.7
4 11	12 35.87	+ 4 35.7	2.351	3.323	5.0	19.9
4 21	12 29.63	+ 5 26.9	2.396	3.319	8.0	20.1
5 1	12 24.62	+ 6 4.0	2.465	3.315	10.9	20.2
5 11	12 21.23	+ 6 25.6	2.556	3.310	13.2	20.4

141559 2002 GQ_{76} 4 1.1 231°.85 3°.7/28.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.11	+ 3 12.6	1.802	2.682	11.9	20.7
3 12	13 0.73	+ 4 7.3	1.728	2.671	8.3	20.5
3 22	12 52.35	+ 5 5.2	1.680	2.660	4.8	20.3
4 1	12 42.81	+ 5 59.3	1.659	2.648	4.0	20.2
4 11	12 33.17	+ 6 42.7	1.667	2.636	7.0	20.3
4 21	12 24.47	+ 7 10.0	1.701	2.623	10.9	20.5
5 1	12 17.59	+ 7 18.3	1.759	2.609	14.5	20.7
5 11	12 13.09	+ 7 7.2	1.835	2.595	17.6	20.9

298285 2002 YD_{31} 4 1.1 87°.73 4°.7/ 6.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.21	−21 0.0	2.251	3.053	12.7	20.3
3 12	12 57.74	−21 4.0	2.177	3.061	10.1	20.2
3 22	12 50.70	−20 49.3	2.126	3.068	7.3	20.0
4 1	12 42.79	−20 16.9	2.102	3.076	5.1	19.9
4 11	12 34.86	−19 30.3	2.106	3.083	5.0	19.9
4 21	12 27.75	−18 34.6	2.137	3.091	7.1	20.0
5 1	12 22.13	−17 36.2	2.195	3.098	9.8	20.2
5 11	12 18.47	−16 41.1	2.276	3.106	12.4	20.4

27760 1991 RB_{7} 4 1.2 182°.77 0°.3/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.75	− 7 24.9	1.800	2.659	13.0	19.3
3 12	13 1.83	− 6 58.6	1.728	2.660	9.2	19.0
3 22	12 52.90	− 6 20.1	1.680	2.661	4.9	18.8
4 1	12 42.83	− 5 33.6	1.661	2.660	0.4	18.4
4 11	12 32.72	− 4 45.2	1.671	2.659	4.5	18.7
4 21	12 23.65	− 4 1.2	1.708	2.657	8.9	19.0
5 1	12 16.47	− 3 26.9	1.770	2.654	12.8	19.2
5 11	12 11.72	− 3 6.1	1.853	2.651	16.1	19.4

169269 2001 SN_{194} 4 1.2 63°.13 2°.2/ 3.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.49	−10 55.8	2.033	2.877	12.3	19.6
3 12	13 0.72	−11 16.0	1.969	2.890	9.0	19.4
3 22	12 52.23	−11 24.4	1.931	2.902	5.4	19.2
4 1	12 42.82	−11 22.5	1.921	2.915	2.3	19.0
4 11	12 33.45	−11 13.6	1.939	2.928	3.9	19.1
4 21	12 25.04	−11 1.7	1.986	2.941	7.4	19.4
5 1	12 18.33	−10 51.1	2.059	2.954	10.8	19.6
5 11	12 13.78	−10 45.6	2.154	2.967	13.6	19.8

60173 1999 UV_{50} 4 1.2 144°.72 3°.7/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.28	+ 4 20.2	1.983	2.866	10.9	19.3
3 12	12 58.49	+ 5 11.2	1.924	2.868	7.6	19.1
3 22	12 51.08	+ 6 3.2	1.891	2.871	4.5	18.9
4 1	12 42.80	+ 6 50.0	1.887	2.873	3.9	18.8
4 11	12 34.59	+ 7 25.6	1.910	2.875	6.6	19.0
4 21	12 27.28	+ 7 46.2	1.960	2.877	9.9	19.2
5 1	12 21.58	+ 7 49.8	2.033	2.879	13.0	19.4
5 11	12 17.93	+ 7 36.3	2.126	2.881	15.6	19.6

55993 1998 SZ_{102} 4 1.2 230°.88 1°.2/30.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.75	− 4 45.4	1.831	2.703	12.1	20.1
3 12	12 58.36	− 3 42.1	1.754	2.695	8.4	19.9
3 22	12 51.12	− 2 27.0	1.703	2.687	4.2	19.6
4 1	12 42.81	− 1 6.6	1.680	2.678	1.3	19.3
4 11	12 34.42	+ 0 11.2	1.685	2.669	5.2	19.6
4 21	12 26.91	+ 1 19.2	1.718	2.659	9.4	19.8
5 1	12 21.09	+ 2 11.6	1.774	2.649	13.2	20.0
5 11	12 17.50	+ 2 45.2	1.851	2.639	16.4	20.2

248367 2005 QG_{170} 4 1.2 228°.44 2°.8/29.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.14	+ 4 21.3	2.544	3.419	9.1	20.4
3 12	12 58.17	+ 4 49.1	2.472	3.413	6.3	20.2
3 22	12 50.86	+ 5 17.3	2.428	3.407	3.7	20.0
4 1	12 42.81	+ 5 41.6	2.413	3.401	3.0	20.0
4 11	12 34.74	+ 5 58.2	2.427	3.394	5.2	20.1
4 21	12 27.36	+ 6 4.4	2.469	3.388	8.1	20.3
5 1	12 21.24	+ 5 58.3	2.537	3.381	10.8	20.4
5 11	12 16.82	+ 5 39.8	2.627	3.374	13.1	20.6

499858 2011 EH_{70} 4 1.2 6°.65 1°.5/30.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 0.12	− 5 13.4	1.623	2.505	12.9	21.1
3 12	12 55.90	− 3 46.8	1.560	2.505	8.8	20.9
3 22	12 49.85	− 2 6.7	1.521	2.506	4.4	20.6
4 1	12 42.79	− 0 21.4	1.509	2.507	1.7	20.4
4 11	12 35.75	+ 1 18.9	1.525	2.508	5.7	20.7
4 21	12 29.70	+ 2 45.5	1.567	2.510	10.1	20.9
5 1	12 25.42	+ 3 52.0	1.633	2.512	14.0	21.2
5 11	12 23.38	+ 4 35.4	1.717	2.514	17.2	21.4

161238 2003 AC_{65} 4 1.2 134°.24 1°.1/30.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 3.94	− 1 41.2	2.834	3.697	8.6	20.7
3 12	12 57.83	− 1 12.8	2.775	3.712	5.9	20.5
3 22	12 50.60	− 0 40.4	2.744	3.726	3.0	20.4
4 1	12 42.81	− 0 7.6	2.743	3.740	1.2	20.2
4 11	12 35.10	+ 0 22.0	2.773	3.753	3.7	20.4
4 21	12 28.07	+ 0 45.5	2.832	3.766	6.5	20.6
5 1	12 22.21	+ 1 0.5	2.918	3.778	9.1	20.8
5 11	12 17.86	+ 1 5.5	3.027	3.790	11.2	21.0

260708 2005 JG_{143} 4 1.2 251°.17 0°.9/31.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.71	− 4 59.4	1.879	2.748	12.0	20.8
3 12	12 59.07	− 4 9.0	1.792	2.732	8.4	20.5
3 22	12 51.53	− 3 7.1	1.732	2.715	4.3	20.2
4 1	12 42.83	− 1 59.0	1.699	2.698	0.9	20.0
4 11	12 33.95	− 0 51.9	1.695	2.680	5.0	20.2
4 21	12 25.87	+ 0 7.4	1.718	2.661	9.3	20.4
5 1	12 19.46	+ 0 53.1	1.766	2.642	13.2	20.6
5 11	12 15.29	+ 1 21.9	1.834	2.623	16.5	20.8

16180 Rapoport 4 1.2 272°.43 4°.1/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.77	+ 1 47.5	1.412	2.303	13.8	17.7
3 12	13 0.27	+ 3 0.3	1.338	2.287	9.7	17.4
3 22	12 52.32	+ 4 20.7	1.288	2.270	5.5	17.1
4 1	12 42.85	+ 5 39.3	1.263	2.253	4.5	17.0
4 11	12 33.16	+ 6 45.6	1.264	2.236	8.3	17.1
4 21	12 24.57	+ 7 31.6	1.290	2.219	13.0	17.3
5 1	12 18.16	+ 7 52.8	1.337	2.202	17.3	17.6
5 11	12 14.60	+ 7 48.3	1.401	2.184	21.0	17.8

348940 2006 TY_{75} 4 1.2 130°.24 3°.3/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.17	−20 4.3	2.807	3.606	10.6	21.6
3 12	12 56.03	−19 34.2	2.732	3.618	8.2	21.4
3 22	12 49.72	−18 48.4	2.683	3.630	5.7	21.3
4 1	12 42.80	−17 48.8	2.662	3.642	3.6	21.2
4 11	12 35.94	−16 39.6	2.671	3.653	3.6	21.2
4 21	12 29.73	−15 25.6	2.709	3.664	5.7	21.3
5 1	12 24.69	−14 12.3	2.775	3.674	8.2	21.5
5 11	12 21.20	−13 4.5	2.865	3.684	10.4	21.7

465125 2006 WY_{190} 4 1.2 101°.57 0°.4/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.88	− 5 38.3	1.767	2.636	12.7	21.7
3 12	12 59.69	− 5 0.5	1.713	2.651	8.8	21.5
3 22	12 51.72	− 4 12.5	1.683	2.666	4.5	21.3
4 1	12 42.84	− 3 19.6	1.681	2.680	0.5	21.0
4 11	12 34.10	− 2 28.5	1.707	2.694	4.6	21.3
4 21	12 26.45	− 1 45.0	1.761	2.708	8.8	21.6
5 1	12 20.64	− 1 13.7	1.839	2.722	12.4	21.8
5 11	12 17.09	− 0 57.2	1.937	2.735	15.5	22.1

138583 2000 QF_{136} 4 1.2 193°.02 2°.3/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 0.63	+ 1 6.6	2.647	3.523	8.7	20.3
3 12	12 55.70	+ 2 11.6	2.579	3.521	6.0	20.2
3 22	12 49.58	+ 3 20.3	2.538	3.520	3.3	20.0
4 1	12 42.81	+ 4 27.6	2.527	3.517	2.5	19.9
4 11	12 36.04	+ 5 28.3	2.546	3.515	4.9	20.1
4 21	12 29.88	+ 6 18.3	2.593	3.512	7.7	20.2
5 1	12 24.87	+ 6 54.5	2.665	3.509	10.3	20.4
5 11	12 21.38	+ 7 15.9	2.759	3.505	12.6	20.6

146850 2002 AT_{99} 4 1.2 209°.80 2°.7/ 4.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.89	−15 16.9	2.526	3.351	10.8	20.1
3 12	12 57.41	−15 14.8	2.443	3.349	8.2	19.9
3 22	12 50.52	−14 59.2	2.385	3.346	5.3	19.7
4 1	12 42.82	−14 31.9	2.355	3.344	3.0	19.6
4 11	12 35.07	−13 56.1	2.354	3.341	3.6	19.6
4 21	12 27.96	−13 15.9	2.382	3.338	6.3	19.8
5 1	12 22.13	−12 36.1	2.437	3.335	9.2	20.0
5 11	12 18.03	−12 1.0	2.515	3.332	11.8	20.1

300107 2006 UY_{285} 4 1.2 251°.24 1°.7/ 3.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 0.59	−13 5.0	2.340	3.182	11.0	20.2
3 12	12 55.86	−12 28.2	2.258	3.178	8.1	20.0
3 22	12 49.73	−11 37.2	2.202	3.174	4.8	19.8
4 1	12 42.81	−10 35.0	2.174	3.169	1.9	19.6
4 11	12 35.85	− 9 26.7	2.175	3.165	3.4	19.7
4 21	12 29.58	− 8 18.2	2.205	3.161	6.7	19.9
5 1	12 24.62	− 7 15.0	2.261	3.157	9.9	20.1
5 11	12 21.39	− 6 21.7	2.340	3.153	12.7	20.3

380785 2005 VW_{5} 4 1.2 269°.44 0°.7/31.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.55	− 6 23.6	1.594	2.463	13.8	22.3
3 12	13 1.56	− 5 28.8	1.494	2.433	9.8	21.9
3 22	12 53.07	− 4 16.9	1.418	2.401	5.1	21.6
4 1	12 42.87	− 2 53.6	1.369	2.368	0.7	21.2
4 11	12 32.18	− 1 27.7	1.348	2.335	5.7	21.4
4 21	12 22.28	− 0 8.9	1.354	2.300	11.0	21.7
5 1	12 14.35	+ 0 54.5	1.383	2.264	15.9	21.8
5 11	12 9.20	+ 1 37.0	1.431	2.228	20.0	22.0

211436 2002 YN_{10} 4 1.2 75°.89 1°.7/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 3.80	−11 44.0	2.151	2.996	11.7	20.4
3 12	12 58.02	−11 25.4	2.096	3.018	8.5	20.2
3 22	12 50.79	−10 54.0	2.067	3.040	4.9	20.0
4 1	12 42.84	−10 13.0	2.065	3.061	1.9	19.8
4 11	12 35.02	− 9 27.2	2.092	3.082	3.5	20.0
4 21	12 28.10	− 8 41.8	2.148	3.103	6.9	20.2
5 1	12 22.70	− 8 1.6	2.229	3.124	10.1	20.5
5 11	12 19.20	− 7 30.5	2.333	3.145	12.7	20.7

123349 2000 VP_{61} 4 1.2 89°.20 3°.7/29.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 17.55	+ 7 26.7	2.040	2.901	11.6	19.5
3 12	13 7.35	+ 7 23.7	1.998	2.930	8.2	19.3
3 22	12 55.48	+ 7 16.6	1.984	2.958	4.9	19.2
4 1	12 42.92	+ 7 1.7	2.001	2.986	3.8	19.1
4 11	12 30.78	+ 6 36.5	2.049	3.014	6.2	19.3
4 21	12 20.00	+ 6 0.3	2.127	3.041	9.4	19.6
5 1	12 11.28	+ 5 13.4	2.232	3.067	12.4	19.8
5 11	12 4.99	+ 4 17.3	2.358	3.093	14.7	20.0

293947 2007 TO_{23} 4 1.2 101°.14 8°.5/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.61	−34 25.2	2.614	3.309	13.8	20.2
3 12	13 2.28	−35 24.6	2.542	3.325	12.1	20.1
3 22	12 53.12	−36 1.7	2.491	3.341	10.4	20.0
4 1	12 42.89	−36 13.9	2.465	3.356	9.0	19.9
4 11	12 32.54	−36 1.9	2.464	3.372	8.5	19.9
4 21	12 23.03	−35 29.0	2.490	3.387	8.9	19.9
5 1	12 15.15	−34 41.1	2.540	3.402	10.2	20.0
5 11	12 9.45	−33 45.2	2.614	3.416	11.8	20.2

203595 2002 CK_{292} 4 1.2 356°.55 1°.4/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.16	− 9 22.5	1.193	2.073	16.7	20.1
3 12	12 59.34	− 9 6.8	1.130	2.071	12.0	19.8
3 22	12 51.88	− 8 32.0	1.087	2.068	6.7	19.5
4 1	12 42.87	− 7 43.0	1.069	2.067	1.5	19.1
4 11	12 33.79	− 6 48.1	1.074	2.067	5.4	19.4
4 21	12 26.06	− 5 56.7	1.104	2.067	10.9	19.7
5 1	12 20.82	− 5 17.0	1.154	2.068	15.8	20.0
5 11	12 18.66	− 4 54.5	1.223	2.069	19.9	20.2

83081 2001 QB_{225} 4 1.2 179°.87 0°.2/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.10	− 7 23.5	2.399	3.257	10.2	20.4
3 12	12 56.84	− 6 47.5	2.325	3.258	7.2	20.2
3 22	12 50.22	− 6 1.9	2.278	3.258	3.8	20.0
4 1	12 42.85	− 5 10.5	2.259	3.258	0.2	19.7
4 11	12 35.48	− 4 18.3	2.270	3.258	3.5	20.0
4 21	12 28.80	− 3 29.9	2.309	3.258	6.9	20.2
5 1	12 23.41	− 2 49.6	2.375	3.257	10.0	20.4
5 11	12 19.75	− 2 20.4	2.463	3.256	12.7	20.6

383804 2007 YQ_{52} 4 1.2 68°.23 4°.1/ 5.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.53	−19 0.9	2.192	3.002	12.8	21.0
3 12	12 59.23	−19 6.8	2.140	3.031	9.9	20.9
3 22	12 51.42	−18 55.3	2.111	3.060	6.8	20.8
4 1	12 42.87	−18 27.7	2.110	3.089	4.5	20.7
4 11	12 34.48	−17 48.1	2.137	3.117	4.6	20.7
4 21	12 27.05	−17 1.6	2.192	3.146	6.9	20.9
5 1	12 21.22	−16 14.2	2.273	3.174	9.6	21.1
5 11	12 17.38	−15 31.1	2.377	3.201	12.1	21.3

214344 2005 JQ_{126} 4 1.2 291°.16 1°.5/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.52	− 9 14.2	1.557	2.421	14.4	20.7
3 12	13 0.81	− 9 9.8	1.466	2.398	10.5	20.4
3 22	12 52.67	− 8 50.5	1.397	2.376	5.9	20.1
4 1	12 42.91	− 8 18.9	1.355	2.353	1.6	19.7
4 11	12 32.75	− 7 40.5	1.339	2.330	4.9	19.9
4 21	12 23.49	− 7 1.9	1.349	2.307	9.9	20.1
5 1	12 16.25	− 6 30.3	1.383	2.284	14.6	20.3
5 11	12 11.80	− 6 11.0	1.436	2.262	18.6	20.5

61085 2000 LL_{21} 4 1.2 304°.64 0°.3/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.46	− 7 41.1	1.263	2.146	15.7	18.5
3 12	12 58.31	− 6 45.1	1.176	2.120	11.2	18.2
3 22	12 51.49	− 5 27.4	1.110	2.094	5.9	17.8
4 1	12 42.89	− 3 54.5	1.069	2.069	0.3	17.3
4 11	12 33.86	− 2 17.2	1.054	2.043	6.2	17.6
4 21	12 25.84	− 0 47.9	1.061	2.018	12.1	17.9
5 1	12 20.11	+ 0 23.0	1.091	1.993	17.5	18.1
5 11	12 17.49	+ 1 8.8	1.137	1.969	22.0	18.3

364768 2007 XC_{47} 4 1.2 201°.92 3°.6/28.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.57	+ 3 24.8	1.844	2.723	11.7	21.7
3 12	13 0.98	+ 4 17.0	1.777	2.719	8.2	21.5
3 22	12 52.48	+ 5 11.6	1.735	2.715	4.8	21.3
4 1	12 42.91	+ 6 1.9	1.722	2.711	3.9	21.2
4 11	12 33.32	+ 6 41.3	1.737	2.705	6.8	21.4
4 21	12 24.72	+ 7 5.0	1.779	2.699	10.6	21.6
5 1	12 17.93	+ 7 10.6	1.844	2.693	14.0	21.8
5 11	12 13.45	+ 6 57.9	1.929	2.686	16.9	22.0

299826 2006 SC_{168} 4 1.2 43°.71 1°.6/ 2.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 3.03	−10 49.3	2.028	2.880	12.0	20.1
3 12	12 57.68	−10 37.8	1.961	2.887	8.7	19.9
3 22	12 50.71	−10 13.6	1.919	2.894	5.0	19.6
4 1	12 42.88	− 9 39.5	1.904	2.901	1.8	19.4
4 11	12 35.07	− 9 0.2	1.918	2.908	3.7	19.6
4 21	12 28.12	− 8 21.0	1.959	2.916	7.4	19.8
5 1	12 22.73	− 7 46.9	2.026	2.924	10.8	20.0
5 11	12 19.34	− 7 21.9	2.114	2.932	13.7	20.2

426334 2012 VK_{45} 4 1.2 190°.86 3°.7/27.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.73	+ 5 55.9	2.459	3.339	9.1	21.0
3 12	12 56.54	+ 6 56.3	2.397	3.338	6.4	20.8
3 22	12 50.05	+ 7 56.7	2.362	3.337	4.1	20.7
4 1	12 42.87	+ 8 51.6	2.356	3.336	4.0	20.6
4 11	12 35.70	+ 9 35.8	2.379	3.335	6.1	20.8
4 21	12 29.23	+10 6.0	2.429	3.333	8.9	20.9
5 1	12 24.01	+10 20.2	2.504	3.331	11.4	21.1
5 11	12 20.45	+10 18.1	2.599	3.329	13.6	21.3

112684 2002 PX_{98} 4 1.2 129°.26 1°.2/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.33	− 2 30.7	2.317	3.186	10.1	19.9
3 12	12 57.66	− 1 50.0	2.256	3.196	6.9	19.7
3 22	12 50.62	− 1 3.6	2.222	3.206	3.5	19.5
4 1	12 42.88	− 0 15.9	2.218	3.215	1.3	19.3
4 11	12 35.21	+ 0 28.1	2.242	3.224	4.3	19.6
4 21	12 28.31	+ 1 4.1	2.295	3.233	7.6	19.8
5 1	12 22.80	+ 1 28.9	2.374	3.241	10.6	20.0
5 11	12 19.05	+ 1 40.8	2.474	3.249	13.1	20.2

148586 2001 RP_{5} 4 1.2 225°.08 2°.2/ 3.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.63	−12 37.4	1.984	2.827	12.7	21.1
3 12	12 59.66	−12 23.3	1.900	2.819	9.3	20.9
3 22	12 51.84	−11 53.9	1.840	2.811	5.6	20.6
4 1	12 42.91	−11 11.6	1.808	2.803	2.4	20.4
4 11	12 33.85	−10 21.3	1.804	2.794	4.0	20.5
4 21	12 25.62	− 9 28.9	1.828	2.784	7.9	20.7
5 1	12 19.04	− 8 40.7	1.878	2.775	11.6	20.9
5 11	12 14.66	− 8 1.9	1.950	2.765	14.8	21.1

428069 2006 HM_{8} 4 1.2 295°.96 0°.4/ 1.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.53	− 7 3.0	1.843	2.708	12.4	21.0
3 12	12 59.00	− 6 49.7	1.759	2.695	8.8	20.8
3 22	12 51.54	− 6 25.4	1.700	2.681	4.7	20.5
4 1	12 42.90	− 5 53.4	1.669	2.668	0.5	20.1
4 11	12 34.10	− 5 18.9	1.665	2.654	4.3	20.4
4 21	12 26.13	− 4 47.4	1.688	2.641	8.6	20.6
5 1	12 19.86	− 4 23.9	1.736	2.628	12.6	20.8
5 11	12 15.86	− 4 12.2	1.804	2.615	15.9	21.0

376836 2001 QD_{61} 4 1.2 134°.69 8°.5/19.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.81	+24 12.8	2.510	3.361	10.0	21.9
3 12	12 59.32	+26 7.7	2.492	3.380	8.8	21.8
3 22	12 51.45	+27 47.6	2.501	3.398	8.5	21.8
4 1	12 42.90	+29 5.6	2.538	3.415	9.3	21.9
4 11	12 34.51	+29 57.5	2.600	3.432	10.8	22.0
4 21	12 27.00	+30 22.4	2.685	3.447	12.4	22.2
5 1	12 20.98	+30 22.1	2.790	3.461	13.9	22.3
5 11	12 16.81	+29 59.8	2.909	3.475	15.1	22.5

502908 2015 EV_{12} 4 1.2 123°.95 2°.6/29.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.03	+ 1 20.8	1.936	2.816	11.2	21.6
3 12	12 59.06	+ 2 1.4	1.876	2.820	7.7	21.4
3 22	12 51.43	+ 2 45.4	1.842	2.825	4.2	21.2
4 1	12 42.90	+ 3 27.2	1.836	2.829	2.8	21.1
4 11	12 34.44	+ 4 0.9	1.858	2.834	5.8	21.3
4 21	12 26.92	+ 4 22.5	1.908	2.838	9.4	21.5
5 1	12 21.05	+ 4 29.2	1.981	2.842	12.7	21.7
5 11	12 17.29	+ 4 20.3	2.074	2.846	15.4	21.9

326463 2001 XA_{219} 4 1.2 270°.91 5°.4/27.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.25	+ 8 51.7	1.807	2.688	11.8	20.2
3 12	13 1.61	+ 9 34.5	1.731	2.671	8.6	20.0
3 22	12 52.89	+10 14.3	1.681	2.653	5.9	19.8
4 1	12 42.94	+10 44.2	1.658	2.635	5.7	19.8
4 11	12 32.85	+10 57.8	1.663	2.617	8.4	19.9
4 21	12 23.71	+10 51.8	1.693	2.599	11.9	20.0
5 1	12 16.43	+10 25.1	1.746	2.581	15.3	20.2
5 11	12 11.59	+ 9 39.1	1.818	2.562	18.2	20.4

189978 2004 CL_{77} 4 1.2 317°.69 2°.1/ 2.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.87	−10 26.7	1.158	2.034	17.3	20.4
3 12	13 0.76	−10 20.5	1.087	2.025	12.7	20.1
3 22	12 52.77	− 9 53.6	1.036	2.015	7.3	19.7
4 1	12 42.94	− 9 9.5	1.009	2.006	2.3	19.4
4 11	12 32.85	− 8 16.1	1.005	1.998	5.7	19.6
4 21	12 24.10	− 7 22.9	1.026	1.990	11.4	19.9
5 1	12 17.98	− 6 39.4	1.067	1.982	16.6	20.1
5 11	12 15.22	− 6 12.5	1.125	1.975	21.1	20.4

433648 2014 AO_{41} 4 1.2 110°.62 3°.5/27.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 1.48	+ 4 14.0	2.265	3.147	9.7	21.2
3 12	12 56.41	+ 5 22.0	2.211	3.155	6.7	21.0
3 22	12 50.00	+ 6 31.0	2.184	3.162	4.1	20.9
4 1	12 42.89	+ 7 35.0	2.185	3.169	3.8	20.9
4 11	12 35.85	+ 8 28.3	2.215	3.176	6.2	21.0
4 21	12 29.58	+ 9 6.8	2.272	3.183	9.1	21.2
5 1	12 24.67	+ 9 28.4	2.354	3.190	11.8	21.4
5 11	12 21.50	+ 9 32.8	2.455	3.196	14.1	21.6

21791 Mattweegman 4 1.2 220°.95 2°.9/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.81	+ 1 32.4	1.812	2.690	12.0	18.6
3 12	13 1.22	+ 2 14.5	1.740	2.682	8.3	18.3
3 22	12 52.65	+ 3 0.7	1.692	2.674	4.5	18.1
4 1	12 42.94	+ 3 44.9	1.673	2.666	3.1	18.0
4 11	12 33.15	+ 4 20.7	1.682	2.657	6.3	18.1
4 21	12 24.32	+ 4 43.0	1.718	2.647	10.3	18.3
5 1	12 17.32	+ 4 49.0	1.778	2.637	14.0	18.6
5 11	12 12.69	+ 4 37.7	1.857	2.627	17.0	18.7

26302 Zimolzak 4 1.2 249°.74 0°.3/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.30	− 7 27.1	1.508	2.377	14.4	18.8
3 12	13 1.28	− 6 57.4	1.428	2.366	10.3	18.5
3 22	12 52.86	− 6 12.6	1.372	2.353	5.5	18.2
4 1	12 42.94	− 5 17.5	1.342	2.341	0.3	17.8
4 11	12 32.81	− 4 19.5	1.338	2.328	5.2	18.1
4 21	12 23.73	− 3 26.8	1.361	2.314	10.3	18.4
5 1	12 16.78	− 2 46.2	1.407	2.301	14.9	18.6
5 11	12 12.63	− 2 22.4	1.472	2.287	18.7	18.8

72384 2001 CF_{12} 4 1.2 179°.66 2°.9/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.24	+ 1 30.7	2.094	2.968	10.7	20.2
3 12	12 59.85	+ 2 33.9	2.029	2.971	7.4	20.0
3 22	12 51.83	+ 3 41.0	1.991	2.972	4.1	19.8
4 1	12 42.93	+ 4 45.9	1.982	2.972	3.1	19.8
4 11	12 34.05	+ 5 42.0	2.002	2.972	5.9	19.9
4 21	12 26.05	+ 6 24.4	2.051	2.971	9.4	20.1
5 1	12 19.63	+ 6 50.2	2.124	2.969	12.5	20.3
5 11	12 15.24	+ 6 58.4	2.217	2.966	15.2	20.5

251942 1999 WR_{25} 4 1.2 291°.84 2°.2/30.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.40	− 1 36.5	1.492	2.376	13.6	21.0
3 12	13 0.00	− 0 53.6	1.410	2.356	9.5	20.7
3 22	12 52.22	− 0 1.1	1.351	2.336	4.9	20.4
4 1	12 42.94	+ 0 54.3	1.319	2.316	2.3	20.2
4 11	12 33.38	+ 1 44.4	1.313	2.296	6.5	20.4
4 21	12 24.79	+ 2 21.8	1.332	2.275	11.4	20.6
5 1	12 18.27	+ 2 41.2	1.374	2.255	15.9	20.8
5 11	12 14.50	+ 2 40.3	1.433	2.236	19.7	21.0

87767 2000 SZ_{91} 4 1.2 278°.84 4°.7/ 6.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.90	−21 41.9	2.272	3.072	12.7	19.7
3 12	12 56.96	−21 37.4	2.181	3.063	10.2	19.5
3 22	12 50.41	−21 13.3	2.114	3.055	7.4	19.3
4 1	12 42.90	−20 30.3	2.073	3.046	5.2	19.1
4 11	12 35.28	−19 31.9	2.060	3.038	5.0	19.1
4 21	12 28.37	−18 23.5	2.075	3.029	7.2	19.2
5 1	12 22.90	−17 11.9	2.115	3.021	10.0	19.4
5 11	12 19.35	−16 3.8	2.179	3.013	12.8	19.5

365838 2011 UR_{16} 4 1.2 22°.58 6°.6/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.77	+ 8 54.0	1.154	2.051	15.7	20.0
3 12	13 3.09	+ 9 22.8	1.109	2.057	11.4	19.8
3 22	12 53.72	+ 9 45.1	1.086	2.063	7.6	19.6
4 1	12 42.96	+ 9 52.0	1.087	2.070	6.9	19.6
4 11	12 32.45	+ 9 37.2	1.112	2.078	10.1	19.8
4 21	12 23.65	+ 8 59.0	1.160	2.087	14.3	20.0
5 1	12 17.58	+ 7 58.9	1.228	2.096	18.3	20.3
5 11	12 14.71	+ 6 40.5	1.312	2.107	21.6	20.6

83801 2001 TG_{218} 4 1.2 67°.66 0°.6/31.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	12 58.56	− 4 40.2	2.915	3.780	8.4	19.6
3 12	12 54.15	− 3 52.5	2.860	3.797	5.7	19.4
3 22	12 48.76	− 2 59.0	2.832	3.815	2.9	19.3
4 1	12 42.88	− 2 3.4	2.834	3.832	0.6	19.1
4 11	12 37.07	− 1 10.0	2.866	3.850	3.3	19.3
4 21	12 31.85	− 0 22.3	2.926	3.867	6.0	19.5
5 1	12 27.65	+ 0 16.4	3.014	3.885	8.5	19.7
5 11	12 24.78	+ 0 44.4	3.124	3.902	10.6	19.9

151101 2001 VN_{119} 4 1.2 135°.85 1°.3/ 2.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.67	−10 13.9	1.847	2.703	12.8	20.4
3 12	12 58.96	− 9 48.4	1.778	2.707	9.2	20.2
3 22	12 51.45	− 9 8.7	1.734	2.711	5.2	20.0
4 1	12 42.93	− 8 18.6	1.717	2.714	1.4	19.7
4 11	12 34.41	− 7 24.1	1.727	2.718	4.0	19.9
4 21	12 26.85	− 6 31.4	1.766	2.721	8.1	20.2
5 1	12 21.02	− 5 46.6	1.829	2.724	11.9	20.4
5 11	12 17.42	− 5 14.0	1.914	2.727	15.0	20.6

31949 2000 GR_{120} 4 1.2 211°.62 0°.2/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 4.31	− 6 50.5	2.373	3.229	10.4	20.6
3 12	12 58.46	− 5 59.5	2.288	3.220	7.3	20.4
3 22	12 51.12	− 4 58.1	2.230	3.211	3.7	20.1
4 1	12 42.92	− 3 50.5	2.202	3.201	0.2	19.8
4 11	12 34.65	− 2 42.4	2.204	3.190	3.8	20.1
4 21	12 27.05	− 1 39.4	2.235	3.178	7.5	20.3
5 1	12 20.81	− 0 46.4	2.293	3.166	10.7	20.5
5 11	12 16.37	− 0 6.6	2.373	3.153	13.5	20.6

295188 2008 FE_{98} 4 1.2 87°.29 3°.1/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.82	+ 0 36.1	1.633	2.518	12.6	20.9
3 12	12 59.07	+ 1 42.8	1.585	2.531	8.6	20.7
3 22	12 51.47	+ 2 54.5	1.562	2.545	4.7	20.5
4 1	12 42.93	+ 4 3.1	1.565	2.558	3.3	20.4
4 11	12 34.56	+ 5 0.8	1.597	2.571	6.6	20.7
4 21	12 27.33	+ 5 42.1	1.654	2.584	10.6	20.9
5 1	12 22.02	+ 6 3.8	1.734	2.597	14.1	21.2
5 11	12 19.03	+ 6 5.5	1.833	2.609	17.0	21.4

331963 2004 XK_{35} 4 1.2 278°.51 20°.7/15.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 17.99	−53 14.1	1.719	2.285	23.7	21.7
3 12	13 11.00	−54 56.7	1.599	2.244	23.0	21.5
3 22	12 59.11	−56 3.8	1.489	2.202	22.2	21.2
4 1	12 43.08	−56 20.9	1.392	2.158	21.4	21.0
4 11	12 25.06	−55 36.0	1.310	2.112	20.8	20.8
4 21	12 8.03	−53 44.1	1.244	2.065	20.9	20.7
5 1	11 54.83	−50 50.4	1.196	2.016	21.8	20.6
5 11	11 47.13	−47 10.5	1.166	1.965	23.5	20.5

118657 2000 JA_{57} 4 1.2 287°.92 4°.0/ 5.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.17	−18 22.9	1.774	2.603	14.5	19.5
3 12	12 58.34	−17 56.4	1.669	2.574	11.3	19.3
3 22	12 51.35	−17 5.3	1.586	2.546	7.7	19.0
4 1	12 42.93	−15 50.8	1.529	2.517	4.5	18.7
4 11	12 34.15	−14 18.4	1.499	2.487	5.0	18.7
4 21	12 26.11	−12 36.4	1.496	2.458	8.8	18.8
5 1	12 19.84	−10 55.1	1.519	2.428	13.0	19.0
5 11	12 16.05	− 9 24.0	1.562	2.398	16.9	19.2

506251 2016 PB_{13} 4 1.2 220°.86 5°.2/24.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.95	+13 38.3	2.768	3.642	8.4	22.1
3 12	12 56.63	+14 42.1	2.707	3.635	6.5	22.0
3 22	12 50.10	+15 40.9	2.673	3.627	5.3	21.9
4 1	12 42.91	+16 29.3	2.668	3.619	5.7	21.9
4 11	12 35.72	+17 3.2	2.692	3.611	7.4	22.0
4 21	12 29.15	+17 20.2	2.741	3.602	9.5	22.1
5 1	12 23.74	+17 19.4	2.814	3.593	11.5	22.2
5 11	12 19.86	+17 1.7	2.906	3.583	13.3	22.4

456136 2006 DD_{134} 4 1.2 52°.34 2°.2/30.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.12	− 2 11.0	1.265	2.155	15.2	21.1
3 12	13 0.43	− 1 21.9	1.214	2.163	10.5	20.9
3 22	12 52.33	− 0 23.2	1.186	2.171	5.3	20.6
4 1	12 42.95	+ 0 36.9	1.182	2.179	2.4	20.4
4 11	12 33.71	+ 1 29.1	1.204	2.188	6.8	20.7
4 21	12 25.90	+ 2 6.0	1.250	2.197	11.7	21.0
5 1	12 20.48	+ 2 23.2	1.318	2.206	16.1	21.3
5 11	12 17.93	+ 2 19.5	1.403	2.215	19.6	21.6

172769 2004 DV_{75} 4 1.2 8°.13 0°.5/31.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.79	− 5 21.5	1.785	2.660	12.2	20.0
3 12	12 56.99	− 4 45.9	1.720	2.661	8.5	19.8
3 22	12 50.44	− 4 0.0	1.679	2.663	4.3	19.5
4 1	12 42.92	− 3 9.0	1.665	2.664	0.5	19.2
4 11	12 35.42	− 2 19.2	1.679	2.667	4.6	19.6
4 21	12 28.84	− 1 36.6	1.719	2.669	8.8	19.8
5 1	12 23.94	− 1 6.0	1.783	2.673	12.5	20.0
5 11	12 21.18	− 0 50.3	1.868	2.676	15.6	20.2

301918 1999 TJ_{64} 4 1.2 197°.98 0°.6/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.86	− 8 1.3	2.685	3.535	9.5	21.4
3 12	12 57.30	− 7 47.4	2.606	3.533	6.7	21.2
3 22	12 50.47	− 7 25.2	2.553	3.531	3.7	21.0
4 1	12 42.93	− 6 57.3	2.530	3.529	0.7	20.8
4 11	12 35.35	− 6 27.1	2.537	3.526	3.1	21.0
4 21	12 28.39	− 5 58.3	2.573	3.523	6.2	21.2
5 1	12 22.61	− 5 34.4	2.636	3.520	9.1	21.3
5 11	12 18.41	− 5 18.2	2.722	3.517	11.6	21.5

136501 2005 JO_{68} 4 1.2 223°.33 4°.8/26.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.34	+ 9 13.0	2.311	3.193	9.5	20.1
3 12	12 57.07	+10 20.6	2.249	3.188	7.0	19.9
3 22	12 50.38	+11 25.8	2.215	3.183	5.1	19.8
4 1	12 42.93	+12 22.3	2.209	3.179	5.2	19.8
4 11	12 35.48	+13 4.8	2.231	3.174	7.4	19.9
4 21	12 28.76	+13 29.9	2.280	3.168	10.0	20.0
5 1	12 23.41	+13 36.0	2.351	3.163	12.6	20.2
5 11	12 19.83	+13 23.9	2.442	3.157	14.8	20.4

170729 2004 BR_{75} 4 1.2 156°.42 4°.6/26.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 2.66	+ 8 32.3	2.268	3.151	9.7	20.3
3 12	12 57.27	+ 9 37.4	2.214	3.153	7.0	20.1
3 22	12 50.47	+10 40.2	2.186	3.156	4.9	20.0
4 1	12 42.93	+11 34.4	2.186	3.158	5.0	20.0
4 11	12 35.46	+12 14.8	2.215	3.161	7.2	20.2
4 21	12 28.76	+12 38.2	2.270	3.163	9.9	20.3
5 1	12 23.47	+12 43.1	2.348	3.164	12.4	20.5
5 11	12 19.96	+12 30.3	2.445	3.166	14.6	20.7

222793 2002 CO_{205} 4 1.2 25°.99 0°.4/ 1.6 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.05	− 7 45.4	1.775	2.640	12.8	20.5
3 12	12 58.60	− 7 17.6	1.706	2.641	9.1	20.3
3 22	12 51.29	− 6 37.3	1.661	2.642	4.8	20.0
4 1	12 42.95	− 5 49.0	1.644	2.643	0.5	19.7
4 11	12 34.59	− 4 58.7	1.654	2.644	4.3	20.0
4 21	12 27.19	− 4 12.8	1.691	2.645	8.6	20.2
5 1	12 21.56	− 3 36.8	1.753	2.646	12.4	20.5
5 11	12 18.18	− 3 14.3	1.835	2.647	15.7	20.7

207933 2008 YF_{17} 4 1.2 158°.31 5°.2/25.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.40	+ 9 55.9	2.208	3.091	9.9	20.4
3 12	12 57.12	+11 9.0	2.155	3.093	7.3	20.2
3 22	12 50.41	+12 18.8	2.128	3.095	5.4	20.1
4 1	12 42.94	+13 18.5	2.130	3.097	5.7	20.2
4 11	12 35.52	+14 2.5	2.160	3.098	7.8	20.3
4 21	12 28.90	+14 27.6	2.215	3.100	10.4	20.4
5 1	12 23.71	+14 32.7	2.293	3.101	13.0	20.6
5 11	12 20.36	+14 18.6	2.390	3.102	15.1	20.8

263867 2009 DN_{33} 4 1.2 285°.95 1°.2/31.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.99	− 2 27.2	2.212	3.083	10.4	20.8
3 12	12 57.66	− 1 59.2	2.128	3.069	7.2	20.6
3 22	12 50.77	− 1 25.0	2.071	3.054	3.7	20.4
4 1	12 42.95	− 0 48.5	2.042	3.040	1.2	20.1
4 11	12 35.02	− 0 14.6	2.042	3.025	4.4	20.3
4 21	12 27.78	+ 0 12.4	2.070	3.011	8.1	20.5
5 1	12 21.93	+ 0 28.7	2.122	2.996	11.4	20.7
5 11	12 17.95	+ 0 32.4	2.197	2.982	14.3	20.9

500974 2013 QH_{76} 4 1.2 197°.20 1°.8/ 3.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.68	−12 21.5	2.425	3.259	10.9	22.6
3 12	12 59.41	−12 4.9	2.340	3.256	8.0	22.4
3 22	12 51.63	−11 35.7	2.282	3.252	4.8	22.2
4 1	12 42.97	−10 56.2	2.252	3.247	2.0	22.0
4 11	12 34.24	−10 10.4	2.252	3.241	3.4	22.0
4 21	12 26.21	− 9 23.1	2.282	3.235	6.7	22.2
5 1	12 19.56	− 8 39.3	2.339	3.228	9.9	22.4
5 11	12 14.76	− 8 3.1	2.418	3.220	12.6	22.6

214976 2008 AF_{66} 4 1.2 317°.34 1°.2/30.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.49	− 2 49.4	2.129	3.003	10.6	20.8
3 12	12 56.61	− 2 10.8	2.054	2.996	7.3	20.6
3 22	12 50.21	− 1 25.2	2.006	2.990	3.7	20.3
4 1	12 42.94	− 0 37.2	1.986	2.983	1.3	20.1
4 11	12 35.64	+ 0 7.7	1.994	2.977	4.6	20.4
4 21	12 29.07	+ 0 44.7	2.029	2.971	8.2	20.6
5 1	12 23.92	+ 1 9.9	2.090	2.965	11.5	20.8
5 11	12 20.63	+ 1 21.2	2.171	2.960	14.3	20.9

16290 4204 P–L 4 1.2 197°.32 1°.1/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.12	−11 18.8	2.308	3.156	10.9	19.4
3 12	12 56.26	−10 33.0	2.230	3.154	7.9	19.2
3 22	12 49.99	− 9 33.6	2.178	3.153	4.4	19.0
4 1	12 42.94	− 8 24.7	2.154	3.152	1.2	18.7
4 11	12 35.87	− 7 11.6	2.160	3.150	3.4	18.9
4 21	12 29.51	− 6 0.5	2.194	3.148	6.9	19.1
5 1	12 24.49	− 4 56.8	2.255	3.146	10.1	19.3
5 11	12 21.21	− 4 4.9	2.339	3.144	12.9	19.5

434853 2006 SO_{165} 4 1.2 170°.30 0°.9/ 2.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.04	−10 41.7	2.530	3.376	10.1	21.9
3 12	12 56.09	− 9 58.4	2.454	3.378	7.3	21.7
3 22	12 49.86	− 9 3.4	2.404	3.380	4.0	21.5
4 1	12 42.95	− 8 0.2	2.384	3.382	1.0	21.3
4 11	12 36.03	− 6 53.9	2.393	3.383	3.1	21.5
4 21	12 29.77	− 5 49.6	2.432	3.384	6.4	21.7
5 1	12 24.74	− 4 52.1	2.497	3.385	9.4	21.9
5 11	12 21.31	− 4 5.2	2.585	3.385	12.0	22.0

89068 2001 TQ_{148} 4 1.2 271°.62 4°.7/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.75	+ 5 26.3	1.703	2.591	12.0	19.5
3 12	12 59.17	+ 6 30.3	1.638	2.584	8.5	19.3
3 22	12 51.63	+ 7 35.4	1.599	2.577	5.4	19.1
4 1	12 42.98	+ 8 33.6	1.586	2.569	5.1	19.1
4 11	12 34.30	+ 9 17.4	1.600	2.562	8.0	19.2
4 21	12 26.61	+ 9 41.9	1.639	2.554	11.7	19.4
5 1	12 20.75	+ 9 44.7	1.701	2.547	15.1	19.6
5 11	12 17.26	+ 9 26.3	1.781	2.539	18.0	19.8

370054 2000 TO_{29} 4 1.2 154°.98 1°.2/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 5.67	−10 40.7	2.733	3.568	9.8	22.0
3 12	12 59.18	−10 21.8	2.661	3.579	7.1	21.8
3 22	12 51.41	− 9 52.9	2.616	3.589	4.0	21.6
4 1	12 42.98	− 9 16.5	2.602	3.599	1.3	21.4
4 11	12 34.58	− 8 36.4	2.618	3.607	3.0	21.6
4 21	12 26.88	− 7 56.4	2.664	3.615	6.0	21.8
5 1	12 20.42	− 7 20.5	2.739	3.622	8.8	22.0
5 11	12 15.61	− 6 51.9	2.837	3.628	11.2	22.2

196812 2003 SH_{225} 4 1.2 199°.37 0°.3/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.98	− 5 35.6	2.290	3.151	10.5	20.8
3 12	12 58.25	− 5 5.1	2.214	3.149	7.3	20.5
3 22	12 51.03	− 4 26.1	2.164	3.146	3.8	20.3
4 1	12 42.98	− 3 42.5	2.143	3.143	0.3	20.0
4 11	12 34.89	− 2 59.1	2.152	3.139	3.8	20.3
4 21	12 27.53	− 2 20.6	2.189	3.135	7.4	20.5
5 1	12 21.57	− 1 50.9	2.253	3.131	10.7	20.7
5 11	12 17.44	− 1 32.7	2.338	3.126	13.4	20.9

67867 2000 WL_{23} 4 1.2 135°.97 0°.5/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.82	− 7 16.4	1.657	2.526	13.4	19.5
3 12	12 59.16	− 6 9.2	1.596	2.534	9.3	19.3
3 22	12 51.58	− 4 47.8	1.559	2.542	4.8	19.0
4 1	12 42.99	− 3 19.2	1.550	2.549	0.5	18.7
4 11	12 34.47	− 1 52.2	1.569	2.556	5.0	19.0
4 21	12 27.03	− 0 35.2	1.615	2.563	9.4	19.3
5 1	12 21.50	+ 0 25.6	1.685	2.569	13.4	19.6
5 11	12 18.33	+ 1 6.7	1.775	2.574	16.6	19.8

292662 2006 UA_{60} 4 1.2 164°.67 3°.0/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.54	−18 6.0	2.702	3.512	10.6	21.1
3 12	12 56.42	−17 43.3	2.621	3.516	8.1	20.9
3 22	12 50.04	−17 5.5	2.565	3.519	5.5	20.7
4 1	12 42.97	−16 14.6	2.538	3.522	3.3	20.6
4 11	12 35.90	−15 14.5	2.540	3.525	3.5	20.6
4 21	12 29.46	−14 9.9	2.571	3.527	5.9	20.8
5 1	12 24.22	−13 6.0	2.629	3.529	8.6	20.9
5 11	12 20.57	−12 7.7	2.712	3.530	11.0	21.1

45893 2000 XL_{7} 4 1.2 243°.98 1°.2/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.50	− 8 46.6	1.723	2.580	13.5	18.3
3 12	13 1.96	− 8 39.2	1.638	2.568	9.8	18.1
3 22	12 53.19	− 8 18.6	1.577	2.555	5.5	17.8
4 1	12 43.04	− 7 47.6	1.544	2.542	1.3	17.4
4 11	12 32.65	− 7 11.5	1.538	2.528	4.5	17.6
4 21	12 23.18	− 6 36.1	1.560	2.514	9.1	17.9
5 1	12 15.65	− 6 7.6	1.606	2.499	13.4	18.1
5 11	12 10.70	− 5 50.6	1.673	2.484	17.0	18.3

74763 1999 RU_{212} 4 1.2 217°.11 2°.9/ 4.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.40	−15 18.1	2.023	2.853	13.0	21.3
3 12	13 0.24	−15 0.3	1.935	2.844	9.8	21.0
3 22	12 52.19	−14 24.6	1.871	2.835	6.2	20.8
4 1	12 43.02	−13 33.2	1.834	2.825	3.2	20.6
4 11	12 33.69	−12 31.1	1.826	2.815	4.2	20.6
4 21	12 25.18	−11 24.6	1.847	2.803	7.8	20.8
5 1	12 18.33	−10 20.8	1.893	2.791	11.4	21.0
5 11	12 13.70	− 9 25.9	1.962	2.778	14.6	21.2

471179 2010 KW_{20} 4 1.2 176°.24 2°.5/27.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	12 59.29	+ 5 30.3	3.762	4.635	6.4	23.4
3 12	12 54.54	+ 6 28.1	3.698	4.637	4.5	23.3
3 22	12 48.97	+ 7 26.0	3.664	4.639	2.9	23.1
4 1	12 42.96	+ 8 20.4	3.661	4.641	2.7	23.1
4 11	12 36.96	+ 9 7.9	3.689	4.642	4.3	23.3
4 21	12 31.40	+ 9 46.2	3.745	4.642	6.2	23.4
5 1	12 26.64	+10 13.5	3.828	4.642	8.1	23.5
5 11	12 22.96	+10 29.2	3.933	4.642	9.7	23.6

405409 2004 RQ_{72} 4 1.2 283°.28 1°.7/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.18	− 9 31.6	1.423	2.288	15.4	20.9
3 12	13 2.24	− 9 29.2	1.332	2.265	11.3	20.6
3 22	12 53.58	− 9 10.3	1.263	2.241	6.5	20.3
4 1	12 43.05	− 8 37.5	1.220	2.218	1.8	19.9
4 11	12 32.03	− 7 56.5	1.203	2.194	5.2	20.0
4 21	12 21.97	− 7 14.8	1.211	2.170	10.7	20.3
5 1	12 14.15	− 6 40.3	1.242	2.145	15.7	20.5
5 11	12 9.42	− 6 19.3	1.291	2.121	20.0	20.7

507322 2011 RG_{19} 4 1.2 188°.04 1°.3/30.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.39	− 1 9.9	2.595	3.462	9.2	21.9
3 12	12 57.68	− 0 44.8	2.523	3.462	6.3	21.7
3 22	12 50.69	− 0 15.6	2.478	3.461	3.2	21.5
4 1	12 43.00	+ 0 14.1	2.463	3.460	1.4	21.3
4 11	12 35.30	+ 0 40.4	2.478	3.459	4.0	21.5
4 21	12 28.26	+ 1 0.1	2.522	3.458	7.1	21.7
5 1	12 22.45	+ 1 10.4	2.592	3.456	9.9	21.9
5 11	12 18.26	+ 1 10.0	2.684	3.454	12.3	22.1

310006 2009 KU_1 4 1.2 261°.21 6°.4/24.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 5.23	+17 10.7	2.510	3.377	9.4	20.7
3 12	12 59.03	+17 57.0	2.447	3.366	7.5	20.5
3 22	12 51.41	+18 34.8	2.411	3.354	6.5	20.4
4 1	12 43.01	+18 58.7	2.403	3.343	6.8	20.4
4 11	12 34.63	+19 4.7	2.422	3.331	8.5	20.5
4 21	12 26.99	+18 51.2	2.466	3.319	10.7	20.6
5 1	12 20.73	+18 18.6	2.534	3.307	12.8	20.8
5 11	12 16.25	+17 28.8	2.620	3.295	14.7	20.9

386192 2007 VU_{150} 4 1.2 185°.63 4°.0/27.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.53	+ 7 33.3	2.448	3.327	9.2	21.6
3 12	12 57.82	+ 8 23.2	2.387	3.327	6.6	21.4
3 22	12 50.77	+ 9 11.5	2.353	3.326	4.4	21.3
4 1	12 43.00	+ 9 52.9	2.348	3.325	4.3	21.2
4 11	12 35.26	+10 22.9	2.372	3.324	6.4	21.4
4 21	12 28.25	+10 38.5	2.423	3.323	9.0	21.5
5 1	12 22.56	+10 38.4	2.498	3.322	11.6	21.7
5 11	12 18.58	+10 22.9	2.594	3.320	13.7	21.9

270553 Loureed 4 1.2 135°.56 2°.0/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.31	− 0 20.9	1.896	2.773	11.5	20.3
3 12	12 59.36	+ 0 10.9	1.831	2.774	8.0	20.1
3 22	12 51.67	+ 0 47.6	1.792	2.775	4.1	19.9
4 1	12 43.03	+ 1 24.0	1.780	2.776	2.1	19.7
4 11	12 34.40	+ 1 54.5	1.797	2.777	5.4	19.9
4 21	12 26.70	+ 2 14.7	1.841	2.778	9.2	20.2
5 1	12 20.69	+ 2 21.5	1.909	2.779	12.7	20.4
5 11	12 16.84	+ 2 13.8	1.997	2.779	15.6	20.6

190041 2004 RO_{106} 4 1.2 173°.89 2°.3/ 3.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.16	−13 5.1	2.050	2.890	12.4	20.3
3 12	12 59.25	−12 55.9	1.975	2.892	9.2	20.1
3 22	12 51.63	−12 31.9	1.923	2.893	5.6	19.9
4 1	12 43.03	−11 55.6	1.900	2.894	2.5	19.7
4 11	12 34.38	−11 11.4	1.905	2.894	3.9	19.8
4 21	12 26.59	−10 24.9	1.938	2.894	7.4	20.0
5 1	12 20.39	− 9 41.7	1.996	2.894	10.9	20.2
5 11	12 16.30	− 9 6.8	2.077	2.894	13.9	20.4

432299 2009 SK_{295} 4 1.2 130°.48 1°.9/30.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.25	− 3 22.2	1.832	2.710	11.9	21.7
3 12	12 57.26	− 2 0.3	1.770	2.714	8.1	21.5
3 22	12 50.59	− 0 28.5	1.733	2.718	4.1	21.2
4 1	12 43.01	+ 1 5.5	1.725	2.721	2.1	21.1
4 11	12 35.47	+ 2 33.4	1.745	2.725	5.6	21.3
4 21	12 28.86	+ 3 47.8	1.793	2.728	9.5	21.6
5 1	12 23.89	+ 4 43.7	1.864	2.732	13.0	21.8
5 11	12 21.02	+ 5 19.0	1.956	2.735	16.0	22.0

287815 2003 SC_{186} 4 1.2 213°.55 2°.1/ 3.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.47	−12 24.6	2.006	2.850	12.4	20.5
3 12	12 58.81	−12 14.9	1.929	2.849	9.2	20.3
3 22	12 51.42	−11 50.7	1.876	2.848	5.5	20.1
4 1	12 43.03	−11 14.6	1.851	2.846	2.4	19.9
4 11	12 34.57	−10 31.0	1.855	2.845	3.9	20.0
4 21	12 26.96	− 9 45.7	1.886	2.843	7.6	20.2
5 1	12 20.95	− 9 4.2	1.942	2.841	11.1	20.4
5 11	12 17.06	− 8 31.5	2.021	2.839	14.2	20.6

461521 2003 SE_{214} 4 1.2 130°.25 1°.7/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.44	− 2 5.5	1.875	2.746	12.0	21.9
3 12	13 0.75	− 1 18.7	1.820	2.761	8.2	21.7
3 22	12 52.34	− 0 25.3	1.792	2.775	4.2	21.5
4 1	12 43.05	+ 0 28.9	1.791	2.788	1.8	21.3
4 11	12 33.90	+ 1 17.4	1.820	2.801	5.2	21.6
4 21	12 25.81	+ 1 55.2	1.877	2.813	9.1	21.8
5 1	12 19.51	+ 2 18.6	1.958	2.825	12.5	22.1
5 11	12 15.43	+ 2 26.3	2.059	2.836	15.4	22.3

289315 2005 AN_{26} 4 1.2 135°.70 0°.5/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.18	− 5 42.8	2.714	3.562	9.5	24.0
3 12	13 0.81	− 4 48.0	2.657	3.586	6.5	23.8
3 22	12 52.22	− 3 45.9	2.629	3.610	3.3	23.6
4 1	12 43.05	− 2 40.8	2.633	3.632	0.5	23.4
4 11	12 34.03	− 1 37.6	2.669	3.652	3.5	23.7
4 21	12 25.82	− 0 40.9	2.735	3.671	6.6	23.9
5 1	12 18.95	+ 0 5.8	2.830	3.689	9.4	24.1
5 11	12 13.76	+ 0 40.5	2.949	3.705	11.6	24.3

275199 2009 WM_{140} 4 1.2 248°.41 1°.4/30.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.79	− 3 23.9	1.988	2.860	11.3	21.6
3 12	12 58.38	− 2 28.7	1.905	2.846	7.9	21.3
3 22	12 51.23	− 1 24.2	1.849	2.832	4.0	21.1
4 1	12 43.03	− 0 15.7	1.820	2.818	1.5	20.9
4 11	12 34.71	+ 0 49.8	1.821	2.803	5.1	21.1
4 21	12 27.16	+ 1 46.0	1.849	2.788	9.1	21.3
5 1	12 21.17	+ 2 28.0	1.902	2.772	12.7	21.5
5 11	12 17.25	+ 2 53.0	1.975	2.757	15.8	21.6

39193 2000 WJ_{188} 4 1.2 214°.81 5°.6/ 7.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 3.58	−23 59.7	2.039	2.831	14.3	19.4
3 12	12 58.30	−23 49.7	1.954	2.827	11.6	19.2
3 22	12 51.20	−23 15.7	1.890	2.824	8.6	19.0
4 1	12 43.04	−22 18.5	1.852	2.821	6.2	18.9
4 11	12 34.79	−21 2.1	1.842	2.817	5.8	18.8
4 21	12 27.41	−19 33.6	1.858	2.813	7.9	18.9
5 1	12 21.68	−18 1.2	1.901	2.809	10.9	19.1
5 11	12 18.14	−16 33.5	1.967	2.804	13.8	19.3

40379 1999 NG_{41} 4 1.2 150°.52 1°.6/30.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.17	− 2 15.6	1.978	2.847	11.5	19.3
3 12	13 0.55	− 1 28.0	1.918	2.857	7.9	19.1
3 22	12 52.26	− 0 33.6	1.884	2.867	4.0	18.8
4 1	12 43.08	+ 0 22.0	1.879	2.876	1.7	18.7
4 11	12 33.99	+ 1 12.5	1.903	2.883	5.0	18.9
4 21	12 25.87	+ 1 52.9	1.955	2.891	8.8	19.2
5 1	12 19.45	+ 2 19.4	2.032	2.897	12.2	19.4
5 11	12 15.16	+ 2 30.5	2.130	2.903	15.0	19.6

310116 2011 AT_{72} 4 1.2 268°.59 8°.9/22.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.15	+17 11.8	1.778	2.660	11.9	20.2
3 12	12 58.80	+19 1.0	1.722	2.646	9.8	20.0
3 22	12 51.50	+20 40.9	1.691	2.633	8.9	19.9
4 1	12 43.06	+22 1.1	1.687	2.619	9.8	20.0
4 11	12 34.57	+22 53.7	1.707	2.605	12.1	20.1
4 21	12 27.05	+23 15.3	1.750	2.591	14.8	20.2
5 1	12 21.35	+23 6.0	1.811	2.577	17.4	20.4
5 11	12 18.00	+22 29.1	1.888	2.563	19.7	20.5

468466 2004 JC_{21} 4 1.2 299°.23 3°.9/ 6.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 0.19	−20 35.3	2.181	2.992	12.8	20.9
3 12	12 55.82	−19 58.1	2.091	2.983	10.0	20.7
3 22	12 49.88	−18 59.4	2.023	2.974	7.0	20.5
4 1	12 43.03	−17 41.2	1.983	2.965	4.4	20.3
4 11	12 36.11	−16 8.7	1.971	2.956	4.4	20.3
4 21	12 29.91	−14 29.3	1.987	2.947	7.0	20.5
5 1	12 25.15	−12 50.8	2.030	2.939	10.2	20.6
5 11	12 22.30	−11 20.6	2.097	2.930	13.2	20.8

477202 2009 HX_{70} 4 1.2 305°.55 3°.3/ 5.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	12 59.55	−18 49.6	2.120	2.943	12.7	21.3
3 12	12 55.45	−18 2.2	2.021	2.924	9.8	21.1
3 22	12 49.73	−16 52.7	1.946	2.905	6.6	20.9
4 1	12 43.04	−15 23.6	1.898	2.886	3.7	20.6
4 11	12 36.20	−13 40.9	1.879	2.867	4.1	20.6
4 21	12 30.06	−11 52.3	1.887	2.849	7.3	20.8
5 1	12 25.34	−10 6.5	1.923	2.831	10.8	21.0
5 11	12 22.57	− 8 31.0	1.982	2.813	14.0	21.1

502345 2015 BV_{195} 4 1.2 242°.62 3°.6/28.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	12 58.48	+ 3 31.9	1.927	2.811	11.1	21.4
3 12	12 58.48	+ 4 29.5	1.861	2.806	7.7	21.1
3 22	12 51.26	+ 5 29.4	1.821	2.801	4.6	20.9
4 1	12 43.07	+ 6 25.1	1.808	2.796	3.9	20.9
4 11	12 34.87	+ 7 10.1	1.824	2.791	6.7	21.0
4 21	12 27.55	+ 7 39.6	1.866	2.785	10.2	21.2
5 1	12 21.84	+ 7 51.1	1.931	2.780	13.4	21.4
5 11	12 18.23	+ 7 44.0	2.015	2.775	16.2	21.6

188681 2005 SY_{220} 4 1.2 272°.96 4°.4/ 4.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.03	−15 35.8	1.817	2.645	14.2	20.0
3 12	13 3.15	−16 14.5	1.723	2.629	11.0	19.8
3 22	12 53.93	−16 37.6	1.653	2.612	7.5	19.5
4 1	12 43.14	−16 44.1	1.609	2.595	4.7	19.3
4 11	12 31.95	−16 36.0	1.594	2.577	5.4	19.3
4 21	12 21.57	−16 17.6	1.606	2.560	8.9	19.5
5 1	12 13.09	−15 55.0	1.642	2.542	12.7	19.7
5 11	12 7.24	−15 34.7	1.700	2.524	16.2	19.8

27119 1998 WH_8 4 1.2 197°.86 2°.0/30.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.91	− 0 53.0	1.944	2.818	11.4	18.8
3 12	12 59.81	− 0 9.3	1.874	2.816	7.9	18.6
3 22	12 51.94	+ 0 40.5	1.831	2.814	4.1	18.3
4 1	12 43.10	+ 1 30.7	1.815	2.811	2.1	18.2
4 11	12 34.23	+ 2 15.2	1.828	2.807	5.4	18.4
4 21	12 26.25	+ 2 48.8	1.869	2.804	9.2	18.6
5 1	12 19.94	+ 3 8.1	1.934	2.799	12.7	18.8
5 11	12 15.78	+ 3 11.5	2.019	2.795	15.7	19.0

100556 1997 GS_2 4 1.2 48°.94 0°.0/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.06	− 6 2.4	1.643	2.515	13.3	19.6
3 12	12 59.34	− 5 40.9	1.588	2.527	9.3	19.3
3 22	12 51.71	− 5 8.6	1.556	2.538	4.8	19.1
4 1	12 43.09	− 4 30.4	1.551	2.551	0.1	18.7
4 11	12 34.57	− 3 52.4	1.574	2.563	4.6	19.1
4 21	12 27.17	− 3 20.2	1.623	2.576	9.0	19.4
5 1	12 21.68	− 2 58.7	1.695	2.588	12.8	19.7
5 11	12 18.56	− 2 50.7	1.788	2.601	16.0	19.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
332357 2007 EO_{24}			4 1.2 196°.47	2°.1/30.0 17		
	h m	° ′			°	m
3 2	13 3.04	− 1 48.3	1.918	2.796	11.4	21.1
3 12	12 57.81	− 0 43.2	1.851	2.795	7.8	20.9
3 22	12 50.91	+ 0 29.6	1.810	2.794	4.0	20.7
4 1	12 43.08	+ 1 43.5	1.797	2.792	2.2	20.6
4 11	12 35.24	+ 2 51.4	1.813	2.791	5.5	20.8
4 21	12 28.28	+ 3 47.0	1.855	2.789	9.3	21.0
5 1	12 22.92	+ 4 26.1	1.922	2.787	12.8	21.2
5 11	12 19.62	+ 4 46.7	2.008	2.785	15.7	21.4
94949 2001 YU_{85}			4 1.2 149°.57	1°.0/ 2.1 18		
3 2	13 8.67	− 9 26.0	1.862	2.713	13.0	21.0
3 12	13 1.74	− 8 58.7	1.797	2.724	9.3	20.8
3 22	12 52.93	− 8 18.0	1.757	2.734	5.1	20.5
4 1	12 43.13	− 7 28.0	1.745	2.743	1.1	20.3
4 11	12 33.38	− 6 34.5	1.762	2.752	4.1	20.5
4 21	12 24.70	− 5 43.9	1.808	2.759	8.3	20.8
5 1	12 17.86	− 5 1.9	1.879	2.766	12.0	21.0
5 11	12 13.35	− 4 32.3	1.971	2.772	15.1	21.2
95151 2002 AU_{167}			4 1.2 148°.06	3°.0/ 4.0 18		
3 2	13 8.89	−15 5.6	1.957	2.785	13.4	20.2
3 12	13 1.87	−14 53.7	1.888	2.797	10.0	20.0
3 22	12 53.00	−14 24.4	1.844	2.808	6.3	19.8
4 1	12 43.13	−13 40.2	1.828	2.819	3.2	19.6
4 11	12 33.30	−12 46.2	1.840	2.828	4.2	19.7
4 21	12 24.49	−11 48.6	1.881	2.837	7.7	19.9
5 1	12 17.50	−10 54.3	1.949	2.844	11.2	20.1
5 11	12 12.80	−10 8.6	2.038	2.851	14.3	20.3
118960 2000 WQ_{124}			4 1.2 253°.65	19°.5/19.8 17		
3 2	13 25.09	+36 22.5	1.139	1.965	21.1	19.0
3 12	13 14.39	+37 43.0	1.104	1.959	19.8	18.9
3 22	12 59.79	+38 21.1	1.088	1.953	19.5	18.8
4 1	12 43.28	+38 2.0	1.089	1.946	20.3	18.8
4 11	12 27.44	+36 41.4	1.109	1.939	22.0	18.9
4 21	12 14.39	+34 25.9	1.145	1.932	24.2	19.1
5 1	12 5.40	+31 28.3	1.197	1.925	26.5	19.2
5 11	12 0.76	+28 3.2	1.262	1.918	28.6	19.4
274729 2008 UK_{188}			4 1.2 238°.14	1°.1/ 2.4 18		
3 2	13 2.45	−10 45.3	2.188	3.038	11.3	20.9
3 12	12 57.34	−10 5.5	2.103	3.029	8.2	20.7
3 22	12 50.67	− 9 11.8	2.044	3.020	4.6	20.5
4 1	12 43.10	− 8 8.0	2.013	3.011	1.2	20.2
4 11	12 35.43	− 6 59.6	2.012	3.002	3.6	20.3
4 21	12 28.49	− 5 52.8	2.038	2.992	7.3	20.6
5 1	12 22.96	− 4 53.4	2.091	2.982	10.8	20.8
5 11	12 19.32	− 4 5.8	2.166	2.972	13.8	20.9
291270 2006 BQ_{89}			4 1.2 270°.83	3°.3/28.9 17		
3 2	13 3.22	+ 2 4.1	1.880	2.764	11.3	20.5
3 12	12 58.02	+ 3 6.1	1.810	2.756	7.8	20.2
3 22	12 51.06	+ 4 12.3	1.766	2.748	4.4	20.0
4 1	12 43.11	+ 5 16.1	1.749	2.739	3.6	19.9
4 11	12 35.09	+ 6 10.3	1.760	2.731	6.5	20.1
4 21	12 27.94	+ 6 49.4	1.798	2.722	10.2	20.3
5 1	12 22.41	+ 7 10.1	1.859	2.714	13.6	20.5
5 11	12 19.01	+ 7 11.6	1.939	2.705	16.5	20.7
313546 2003 AY_{81}			4 1.2 73°.27	0°.0/ 1.2 18		
3 2	13 10.37	− 4 41.1	1.608	2.476	13.8	19.7
3 12	13 3.07	− 4 47.2	1.553	2.490	9.6	19.5
3 22	12 53.66	− 4 44.7	1.522	2.504	5.0	19.2
4 1	12 43.16	− 4 37.2	1.519	2.518	0.1	18.9
4 11	12 32.80	− 4 29.1	1.543	2.532	4.7	19.3
4 21	12 23.71	− 4 25.0	1.595	2.546	9.2	19.6
5 1	12 16.76	− 4 28.5	1.670	2.560	13.1	19.8
5 11	12 12.41	− 4 42.0	1.766	2.574	16.4	20.1
173950 2001 WC_{96}			4 1.2 189°.74	2°.0/29.5 18		
3 2	13 1.95	+ 0 59.5	2.914	3.784	8.2	21.6
3 12	12 56.61	+ 1 46.5	2.842	3.783	5.6	21.4
3 22	12 50.16	+ 2 36.4	2.799	3.781	3.0	21.2
4 1	12 43.09	+ 3 25.2	2.786	3.778	2.1	21.2
4 11	12 36.02	+ 4 8.8	2.803	3.775	4.3	21.3
4 21	12 29.52	+ 4 43.8	2.850	3.772	7.0	21.5
5 1	12 24.09	+ 5 7.7	2.922	3.768	9.5	21.6
5 11	12 20.08	+ 5 19.4	3.017	3.764	11.6	21.8
65633 5291 T_{-3}			4 1.2 324°.54	6°.2/26.3 18		
3 2	13 5.25	+13 0.2	1.982	2.863	10.9	18.4
3 12	12 59.36	+13 41.7	1.918	2.852	8.3	18.2
3 22	12 51.73	+14 16.2	1.879	2.841	6.5	18.0
4 1	12 43.13	+14 37.5	1.867	2.830	6.7	18.0
4 11	12 34.52	+14 40.6	1.882	2.820	8.8	18.1
4 21	12 26.82	+14 23.2	1.922	2.811	11.6	18.3
5 1	12 20.77	+13 45.5	1.985	2.801	14.4	18.4
5 11	12 16.85	+12 49.5	2.066	2.792	16.8	18.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
84772 2002 XG_{42}			4 1.2 47°.20	4°.2/ 5.5 17		
	h m	° ′			°	m
3 2	13 3.35	−18 30.5	1.930	2.753	13.8	19.2
3 12	12 58.06	−18 31.2	1.865	2.765	10.6	19.0
3 22	12 51.06	−18 12.4	1.824	2.778	7.3	18.9
4 1	12 43.12	−17 35.9	1.809	2.792	4.6	18.7
4 11	12 35.22	−16 46.2	1.821	2.805	4.8	18.8
4 21	12 28.28	−15 49.4	1.860	2.819	7.5	18.9
5 1	12 23.02	−14 52.6	1.924	2.833	10.7	19.2
5 11	12 19.90	−14 1.8	2.011	2.847	13.6	19.4
147608 2004 GB_{44}			4 1.2 233°.99	0°.9/31.5 17		
3 2	13 5.22	− 4 32.6	1.722	2.596	12.7	20.6
3 12	12 59.54	− 3 54.4	1.652	2.592	8.9	20.4
3 22	12 51.90	− 3 6.0	1.605	2.589	4.5	20.1
4 1	12 43.14	− 2 12.7	1.586	2.585	0.9	19.8
4 11	12 34.33	− 1 21.4	1.595	2.581	5.0	20.1
4 21	12 26.49	− 0 38.3	1.631	2.577	9.4	20.3
5 1	12 20.48	− 0 8.6	1.690	2.573	13.3	20.6
5 11	12 16.82	+ 0 5.1	1.769	2.569	16.6	20.8
47862 2000 ED_{175}			4 1.2 185°.57	5°.0/25.8 18		
3 2	13 2.82	+10 7.2	2.385	3.265	9.4	19.4
3 12	12 57.40	+11 21.6	2.328	3.265	6.9	19.2
3 22	12 50.62	+12 32.9	2.299	3.264	5.2	19.1
4 1	12 43.11	+13 34.7	2.299	3.263	5.5	19.1
4 11	12 35.63	+14 21.7	2.327	3.262	7.5	19.2
4 21	12 28.88	+14 50.7	2.381	3.261	10.0	19.4
5 1	12 23.47	+15 0.3	2.458	3.259	12.4	19.6
5 11	12 19.79	+14 51.5	2.554	3.256	14.5	19.7
392141 2009 HW_{15}			4 1.2 120°.48	2°.9/28.5 17		
3 2	13 0.71	+ 2 4.0	2.319	3.200	9.6	20.8
3 12	12 55.94	+ 3 17.3	2.260	3.204	6.6	20.6
3 22	12 49.87	+ 4 33.8	2.228	3.209	3.8	20.4
4 1	12 43.10	+ 5 47.3	2.225	3.213	3.2	20.4
4 11	12 36.36	+ 6 51.9	2.251	3.217	5.7	20.6
4 21	12 30.35	+ 7 43.0	2.304	3.221	8.7	20.7
5 1	12 25.63	+ 8 17.6	2.382	3.225	11.4	20.9
5 11	12 22.59	+ 8 35.0	2.481	3.229	13.8	21.1
504412 2007 XK_{58}			4 1.2 136°.42	3°.8/ 5.3 17		
3 2	13 3.67	−18 1.1	2.308	3.123	12.0	21.3
3 12	12 58.16	−18 7.1	2.228	3.124	9.3	21.1
3 22	12 51.09	−17 57.1	2.172	3.125	6.4	21.0
4 1	12 43.12	−17 32.0	2.144	3.125	4.1	20.8
4 11	12 35.09	−16 55.0	2.143	3.126	4.3	20.8
4 21	12 27.80	−16 11.0	2.171	3.126	6.8	21.0
5 1	12 21.93	−15 25.3	2.225	3.127	9.8	21.1
5 11	12 17.95	−14 43.4	2.302	3.128	12.4	21.3
153120 2000 SR_{90}			4 1.2 225°.07	6°.8/ 7.9 18		
3 2	13 6.24	−25 42.1	2.064	2.841	14.6	20.1
3 12	13 0.28	−26 4.5	1.976	2.835	12.1	19.9
3 22	12 52.33	−26 4.0	1.909	2.829	9.5	19.7
4 1	12 43.16	−25 39.4	1.867	2.822	7.3	19.5
4 11	12 33.79	−24 52.9	1.852	2.815	6.9	19.5
4 21	12 25.26	−23 50.0	1.863	2.808	8.6	19.6
5 1	12 18.46	−22 38.2	1.900	2.801	11.2	19.7
5 11	12 13.98	−21 26.0	1.959	2.793	14.0	19.9
503275 2015 RS_{5}			4 1.2 176°.97	10°.9/ 7.2 18		
3 2	13 17.54	−26 18.1	1.359	2.147	20.3	21.4
3 12	13 9.24	−27 55.8	1.286	2.148	17.1	21.2
3 22	12 57.44	−29 5.0	1.233	2.150	13.8	21.0
4 1	12 43.29	−29 38.5	1.203	2.150	11.4	20.9
4 11	12 28.63	−29 34.7	1.197	2.151	11.1	20.8
4 21	12 15.40	−28 59.2	1.215	2.150	13.1	21.0
5 1	12 5.23	−28 3.6	1.255	2.149	16.3	21.1
5 11	11 58.98	−27 1.3	1.314	2.148	19.5	21.3
418950 2009 EK_{24}			4 1.2 341°.41	3°.4/29.7 17		
3 2	13 3.51	+ 0 2.9	1.254	2.151	14.7	20.7
3 12	12 58.85	+ 1 0.8	1.192	2.144	10.2	20.4
3 22	12 51.72	+ 2 7.2	1.153	2.138	5.5	20.1
4 1	12 43.16	+ 3 12.8	1.138	2.133	3.6	20.0
4 11	12 34.53	+ 4 7.6	1.148	2.128	7.7	20.2
4 21	12 27.16	+ 4 43.9	1.181	2.124	12.7	20.4
5 1	12 22.10	+ 4 57.1	1.235	2.120	17.1	20.7
5 11	12 19.93	+ 4 46.3	1.305	2.118	20.8	20.9
60663 2000 FZ_{65}			4 1.2 257°.58	2°.0/30.4 17		
3 2	13 6.22	− 3 2.0	1.636	2.513	13.1	19.9
3 12	13 0.50	− 1 55.4	1.549	2.493	9.1	19.6
3 22	12 52.56	− 0 36.2	1.488	2.472	4.7	19.3
4 1	12 43.18	+ 0 48.4	1.453	2.450	2.2	19.1
4 11	12 33.53	+ 2 9.0	1.446	2.427	6.3	19.3
4 21	12 24.77	+ 3 17.3	1.466	2.404	11.0	19.5
5 1	12 17.92	+ 4 6.6	1.509	2.381	15.3	19.7
5 11	12 13.64	+ 4 33.9	1.571	2.356	19.0	19.9

162692 2000 UJ_8 4 1.2 174.°97 0.°9/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 6.66	−10 7.3	2.035	2.883	12.1	21.3
3 12	13 0.30	− 9 26.4	1.961	2.887	8.7	21.1
3 22	12 52.22	− 8 31.5	1.913	2.890	4.8	20.8
4 1	12 43.19	− 7 26.9	1.893	2.892	1.0	20.5
4 11	12 34.14	− 6 18.8	1.903	2.893	3.9	20.8
4 21	12 26.00	− 5 13.6	1.942	2.893	7.8	21.0
5 1	12 19.49	− 4 17.3	2.007	2.893	11.4	21.2
5 11	12 15.11	− 3 34.1	2.093	2.891	14.5	21.4

433309 2013 PM_{20} 4 1.2 206.°43 12.°4/12.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 17.00	−42 20.5	2.353	2.981	16.7	21.0
3 12	13 8.39	−44 2.7	2.264	2.977	15.3	20.9
3 22	12 56.88	−45 18.7	2.193	2.972	14.0	20.8
4 1	12 43.31	−46 2.1	2.143	2.966	12.9	20.7
4 11	12 29.02	−46 10.0	2.117	2.961	12.4	20.6
4 21	12 15.53	−45 44.2	2.113	2.954	12.6	20.6
5 1	12 4.21	−44 51.2	2.132	2.948	13.6	20.7
5 11	11 55.98	−43 40.8	2.172	2.940	14.9	20.8

338277 2002 TC_{323} 4 1.2 209.°20 0.°1/ 1.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.54	− 6 12.2	2.177	3.039	10.9	21.5
3 12	12 58.07	− 5 43.5	2.103	3.038	7.6	21.3
3 22	12 51.06	− 5 5.6	2.054	3.035	4.0	21.0
4 1	12 43.18	− 4 22.3	2.034	3.033	0.1	20.7
4 11	12 35.27	− 3 38.7	2.043	3.031	3.9	21.0
4 21	12 28.12	− 2 59.6	2.080	3.028	7.6	21.2
5 1	12 22.41	− 2 29.3	2.142	3.026	10.9	21.4
5 11	12 18.59	− 2 10.7	2.227	3.023	13.8	21.6

372941 2011 BQ_{70} 4 1.2 64.°44 1.°1/31.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.00	− 5 49.7	1.603	2.480	13.3	21.0
3 12	12 57.90	− 4 36.1	1.556	2.498	9.1	20.8
3 22	12 50.98	− 3 10.5	1.532	2.516	4.6	20.5
4 1	12 43.18	− 1 40.9	1.536	2.534	1.1	20.3
4 11	12 35.55	− 0 16.3	1.567	2.553	5.2	20.6
4 21	12 29.06	+ 0 55.6	1.625	2.571	9.5	20.9
5 1	12 24.42	+ 1 49.5	1.706	2.589	13.3	21.2
5 11	12 22.05	+ 2 22.9	1.808	2.608	16.3	21.4

160298 2003 FD_{72} 4 1.2 25.°41 6.°0/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.03	+ 5 6.1	1.274	2.178	14.0	19.2
3 12	12 56.87	+ 6 49.0	1.235	2.187	9.8	19.0
3 22	12 50.56	+ 8 32.5	1.219	2.198	6.5	18.8
4 1	12 43.17	+10 4.3	1.228	2.209	6.5	18.9
4 11	12 35.96	+11 13.8	1.262	2.222	9.8	19.1
4 21	12 30.05	+11 55.2	1.318	2.235	13.7	19.3
5 1	12 26.29	+12 6.8	1.394	2.249	17.3	19.6
5 11	12 25.09	+11 50.9	1.486	2.264	20.2	19.8

150921 2001 TC_{58} 4 1.2 132.°24 0.°8/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.23	−10 5.7	1.907	2.763	12.5	20.7
3 12	12 58.66	− 9 21.2	1.841	2.771	8.9	20.4
3 22	12 51.39	− 8 22.4	1.800	2.778	4.9	20.2
4 1	12 43.20	− 7 13.9	1.787	2.786	1.0	19.9
4 11	12 35.06	− 6 2.5	1.803	2.793	3.9	20.2
4 21	12 27.86	− 4 55.1	1.846	2.800	8.0	20.4
5 1	12 22.33	− 3 57.8	1.915	2.806	11.6	20.7
5 11	12 18.91	− 3 14.6	2.005	2.812	14.7	20.9

67565 2000 SN_{88} 4 1.2 341.°79 4.°6/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.39	+ 3 5.2	1.189	2.088	15.2	18.2
3 12	13 0.28	+ 3 54.6	1.129	2.081	10.6	17.9
3 22	12 52.53	+ 4 47.9	1.092	2.075	6.1	17.7
4 1	12 43.24	+ 5 35.5	1.078	2.069	4.9	17.6
4 11	12 33.89	+ 6 8.1	1.089	2.064	8.7	17.8
4 21	12 25.90	+ 6 19.3	1.122	2.060	13.6	18.0
5 1	12 20.40	+ 6 6.3	1.175	2.057	18.0	18.3
5 11	12 17.97	+ 5 30.1	1.244	2.054	21.8	18.5

496914 2001 SV_{229} 4 1.2 156.°13 0.°5/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.33	− 3 55.5	3.186	4.041	8.0	22.5
3 12	12 57.48	− 3 29.3	3.118	4.051	5.5	22.4
3 22	12 50.61	− 2 58.2	3.078	4.059	2.8	22.2
4 1	12 43.20	− 2 25.1	3.069	4.067	0.5	22.0
4 11	12 35.82	− 1 53.2	3.091	4.075	3.0	22.2
4 21	12 29.01	− 1 25.5	3.143	4.082	5.7	22.4
5 1	12 23.22	− 1 4.4	3.222	4.088	8.1	22.6
5 11	12 18.77	− 0 51.8	3.326	4.094	10.2	22.7

243741 2000 QS_{21} 4 1.2 185.°00 3.°5/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 0.64	+ 4 55.7	2.630	3.510	8.6	20.5
3 12	12 55.83	+ 6 16.2	2.568	3.510	6.0	20.3
3 22	12 49.83	+ 7 38.0	2.534	3.510	3.9	20.2
4 1	12 43.18	+ 8 55.1	2.529	3.509	3.8	20.2
4 11	12 36.53	+10 2.0	2.555	3.508	5.9	20.3
4 21	12 30.51	+10 54.7	2.607	3.507	8.5	20.5
5 1	12 25.63	+11 30.9	2.685	3.505	10.9	20.7
5 11	12 22.27	+11 49.8	2.783	3.503	13.0	20.8

355833 2008 TL_{186} 4 1.2 200.°54 2.°8/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.37	− 0 18.8	1.720	2.597	12.5	21.8
3 12	13 1.06	+ 0 48.9	1.651	2.594	8.6	21.5
3 22	12 52.74	+ 2 4.1	1.607	2.590	4.6	21.3
4 1	12 43.25	+ 3 19.1	1.591	2.585	3.0	21.2
4 11	12 33.72	+ 4 25.7	1.604	2.579	6.5	21.4
4 21	12 25.21	+ 5 17.2	1.643	2.573	10.7	21.6
5 1	12 18.59	+ 5 49.3	1.706	2.566	14.4	21.8
5 11	12 14.39	+ 6 0.8	1.788	2.558	17.6	22.0

30626 4240 P–L 4 1.2 322.°04 1.°4/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.28	− 9 16.6	2.040	2.894	11.9	19.0
3 12	12 59.42	− 9 18.4	1.963	2.890	8.6	18.8
3 22	12 51.83	− 9 9.1	1.911	2.887	4.9	18.5
4 1	12 43.23	− 8 51.3	1.887	2.885	1.5	18.3
4 11	12 34.56	− 8 28.6	1.891	2.882	3.8	18.4
4 21	12 26.69	− 8 5.7	1.924	2.879	7.6	18.7
5 1	12 20.41	− 7 47.0	1.981	2.876	11.1	18.9
5 11	12 16.22	− 7 36.3	2.061	2.874	14.1	19.1

118715 2000 QW_{35} 4 1.2 203.°61 1.°0/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.29	− 9 57.1	1.930	2.785	12.4	19.7
3 12	12 58.78	− 9 24.1	1.854	2.783	8.9	19.5
3 22	12 51.50	− 8 37.1	1.804	2.781	4.9	19.2
4 1	12 43.22	− 7 40.0	1.780	2.779	1.1	18.9
4 11	12 34.89	− 6 38.8	1.786	2.776	3.9	19.1
4 21	12 27.42	− 5 40.0	1.818	2.773	8.0	19.4
5 1	12 21.60	− 4 49.7	1.877	2.770	11.7	19.6
5 11	12 17.91	− 4 12.1	1.956	2.766	14.9	19.8

433623 2013 YG_{115} 4 1.2 332.°62 4.°1/27.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.25	+ 4 14.3	1.847	2.737	11.1	20.7
3 12	12 56.69	+ 5 20.9	1.781	2.729	7.8	20.5
3 22	12 50.43	+ 6 29.7	1.741	2.721	4.8	20.3
4 1	12 43.20	+ 7 33.6	1.728	2.713	4.4	20.2
4 11	12 35.95	+ 8 25.3	1.742	2.706	7.2	20.4
4 21	12 29.53	+ 8 59.8	1.781	2.699	10.7	20.6
5 1	12 24.72	+ 9 14.1	1.843	2.693	13.9	20.8
5 11	12 21.98	+ 9 8.2	1.924	2.687	16.7	21.0

93391 2000 SE_{282} 4 1.3 296.°46 2.°5/ 3.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.63	−12 37.7	1.692	2.544	14.0	19.7
3 12	12 59.36	−12 30.7	1.606	2.530	10.4	19.4
3 22	12 51.97	−12 6.5	1.544	2.516	6.4	19.1
4 1	12 43.26	−11 27.3	1.508	2.503	2.8	18.9
4 11	12 34.31	−10 38.4	1.499	2.489	4.5	19.0
4 21	12 26.25	− 9 46.4	1.516	2.476	8.8	19.2
5 1	12 20.05	− 8 58.8	1.557	2.463	12.9	19.4
5 11	12 16.33	− 8 21.6	1.619	2.450	16.6	19.6

309195 2007 ED_{94} 4 1.3 199.°31 2.°3/29.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.00	− 0 53.9	2.232	3.106	10.2	21.2
3 12	12 57.67	+ 0 26.7	2.161	3.103	7.0	20.9
3 22	12 50.86	+ 1 54.1	2.117	3.099	3.7	20.7
4 1	12 43.23	+ 3 21.8	2.102	3.095	2.5	20.6
4 11	12 35.57	+ 4 42.9	2.117	3.090	5.4	20.8
4 21	12 28.64	+ 5 51.4	2.160	3.084	8.8	21.0
5 1	12 23.10	+ 6 43.3	2.229	3.078	11.9	21.2
5 11	12 19.39	+ 7 16.7	2.318	3.071	14.5	21.4

203840 2002 VV_{53} 4 1.3 115.°65 1.°7/ 3.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.98	−12 16.3	2.244	3.086	11.4	20.5
3 12	12 57.63	−11 52.0	2.174	3.094	8.3	20.3
3 22	12 50.82	−11 14.5	2.129	3.101	4.9	20.1
4 1	12 43.23	−10 26.6	2.113	3.108	1.9	19.9
4 11	12 35.65	− 9 33.3	2.125	3.115	3.4	20.0
4 21	12 28.86	− 8 39.9	2.166	3.122	6.8	20.3
5 1	12 23.48	− 7 51.6	2.233	3.129	10.0	20.5
5 11	12 19.94	− 7 12.4	2.323	3.136	12.8	20.7

464489 2016 BB_{64} 4 1.3 336.°43 0.°6/ 1.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.96	− 7 48.2	1.243	2.125	16.0	20.7
3 12	12 59.32	− 7 27.9	1.173	2.116	11.4	20.4
3 22	12 52.09	− 6 50.6	1.125	2.107	6.2	20.1
4 1	12 43.27	− 6 1.3	1.100	2.099	0.7	19.6
4 11	12 34.27	− 5 8.4	1.101	2.092	5.5	20.0
4 21	12 26.50	− 4 20.8	1.125	2.086	11.0	20.2
5 1	12 21.10	− 3 46.1	1.170	2.081	15.9	20.5
5 11	12 18.72	− 3 29.3	1.234	2.076	20.1	20.7

374350 2005 UH_{155} 4 1.3 274.°94 4.°9/28.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.83	+ 7 11.3	1.770	2.653	12.0	20.2
3 12	13 1.44	+ 7 52.7	1.696	2.638	8.6	19.9
3 22	12 52.98	+ 8 32.6	1.647	2.622	5.6	19.7
4 1	12 43.29	+ 9 4.3	1.625	2.607	5.2	19.7
4 11	12 33.48	+ 9 21.3	1.630	2.591	7.9	19.8
4 21	12 24.61	+ 9 20.0	1.662	2.575	11.6	20.0
5 1	12 17.61	+ 8 58.9	1.716	2.560	15.1	20.1
5 11	12 13.03	+ 8 18.8	1.788	2.544	18.1	20.3

401933 2002 CR_{201} 4 1.3 90°.00 2°.1/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.59	−11 4.8	1.469	2.326	15.5	21.4
3 12	13 2.71	−10 57.5	1.416	2.344	11.2	21.2
3 22	12 53.59	−10 33.1	1.386	2.361	6.5	21.0
4 1	12 43.30	− 9 55.4	1.382	2.378	2.3	20.7
4 11	12 33.19	− 9 10.9	1.405	2.395	4.7	20.9
4 21	12 24.44	− 8 26.8	1.454	2.412	9.3	21.2
5 1	12 17.99	− 7 49.9	1.526	2.428	13.4	21.5
5 11	12 14.29	− 7 25.2	1.619	2.444	16.8	21.8

83131 2001 QY_{258} 4 1.3 131°.96 0°.9/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.43	−10 47.8	2.480	3.327	10.3	19.3
3 12	12 56.43	− 9 59.0	2.411	3.336	7.4	19.2
3 22	12 50.16	− 8 58.3	2.368	3.344	4.1	19.0
4 1	12 43.22	− 7 49.6	2.355	3.353	1.0	18.7
4 11	12 36.33	− 6 38.2	2.371	3.361	3.2	18.9
4 21	12 30.13	− 5 29.5	2.416	3.369	6.4	19.1
5 1	12 25.18	− 4 28.5	2.488	3.376	9.4	19.3
5 11	12 21.86	− 3 38.7	2.584	3.383	12.0	19.5

500308 2012 QA_{52} 4 1.3 219°.43 2°.1/ 3.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.32	−12 33.0	2.361	3.196	11.1	22.0
3 12	12 59.32	−12 27.4	2.274	3.189	8.2	21.8
3 22	12 51.76	−12 9.3	2.213	3.182	5.0	21.6
4 1	12 43.27	−11 40.5	2.180	3.174	2.2	21.4
4 11	12 34.67	−11 4.7	2.176	3.165	3.5	21.4
4 21	12 26.74	−10 26.4	2.202	3.157	6.8	21.6
5 1	12 20.21	− 9 50.5	2.254	3.147	10.0	21.8
5 11	12 15.54	− 9 21.1	2.329	3.138	12.8	22.0

286555 2002 CN_{181} 4 1.3 79°.64 1°.4/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.76	−10 15.8	1.760	2.616	13.4	21.1
3 12	12 59.81	− 9 57.3	1.701	2.630	9.6	20.9
3 22	12 52.03	− 9 24.7	1.667	2.644	5.4	20.7
4 1	12 43.28	− 8 41.6	1.660	2.658	1.6	20.4
4 11	12 34.63	− 7 54.2	1.681	2.671	4.1	20.6
4 21	12 27.04	− 7 8.5	1.728	2.685	8.2	20.9
5 1	12 21.30	− 6 30.3	1.801	2.699	11.9	21.2
5 11	12 17.84	− 6 3.7	1.895	2.712	15.0	21.4

112829 2002 QF_{11} 4 1.3 310°.00 1°.1/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.71	− 9 24.4	1.352	2.226	15.5	20.0
3 12	12 59.16	− 9 0.4	1.266	2.205	11.2	19.7
3 22	12 52.06	− 8 17.4	1.203	2.183	6.3	19.4
4 1	12 43.29	− 7 19.5	1.164	2.162	1.3	19.0
4 11	12 34.14	− 6 14.5	1.150	2.142	5.2	19.2
4 21	12 25.99	− 5 11.7	1.161	2.122	10.7	19.4
5 1	12 20.05	− 4 20.1	1.194	2.103	15.8	19.7
5 11	12 17.06	− 3 46.1	1.244	2.084	20.1	19.9

28227 1999 AN_{2} 4 1.3 42°.19 3°.8/29.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.96	+ 1 31.6	1.250	2.144	15.0	17.4
3 12	13 1.16	+ 2 24.5	1.199	2.149	10.4	17.1
3 22	12 52.90	+ 3 22.5	1.171	2.155	5.7	16.9
4 1	12 43.31	+ 4 16.3	1.168	2.161	4.1	16.8
4 11	12 33.83	+ 4 57.0	1.190	2.167	7.9	17.0
4 21	12 25.80	+ 5 18.4	1.235	2.173	12.6	17.3
5 1	12 20.20	+ 5 17.6	1.301	2.180	16.8	17.6
5 11	12 17.53	+ 4 55.1	1.385	2.187	20.3	17.8

497701 2006 SL_{85} 4 1.3 108°.00 0°.3/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.92	− 4 11.6	2.652	3.508	9.4	21.9
3 12	12 59.39	− 4 1.1	2.594	3.527	6.5	21.7
3 22	12 51.64	− 3 45.1	2.565	3.546	3.3	21.5
4 1	12 43.28	− 3 26.5	2.565	3.564	0.3	21.3
4 11	12 35.02	− 3 8.7	2.595	3.582	3.3	21.6
4 21	12 27.50	− 2 54.6	2.656	3.599	6.4	21.8
5 1	12 21.27	− 2 46.8	2.743	3.616	9.2	22.0
5 11	12 16.69	− 2 47.1	2.854	3.633	11.4	22.2

62322 2000 ST_{123} 4 1.3 236°.11 1°.3/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.19	− 3 51.4	2.048	2.919	11.1	20.0
3 12	12 57.97	− 2 49.9	1.969	2.909	7.7	19.7
3 22	12 51.10	− 1 38.8	1.916	2.899	3.9	19.5
4 1	12 43.26	− 0 23.7	1.891	2.889	1.4	19.3
4 11	12 35.35	+ 0 48.4	1.896	2.878	4.9	19.5
4 21	12 28.19	+ 1 51.2	1.928	2.867	8.7	19.7
5 1	12 22.53	+ 2 39.7	1.986	2.856	12.2	19.9
5 11	12 18.86	+ 3 11.2	2.064	2.844	15.2	20.1

186908 2004 LO_{21} 4 1.3 233°.61 2°.8/ 4.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.14	−16 45.6	2.343	3.163	11.7	20.7
3 12	12 58.58	−16 11.0	2.245	3.148	8.9	20.4
3 22	12 51.41	−15 18.5	2.171	3.132	5.8	20.2
4 1	12 43.28	−14 10.5	2.126	3.116	3.1	20.0
4 11	12 34.99	−12 51.8	2.111	3.099	3.7	20.0
4 21	12 27.36	−11 28.6	2.125	3.081	6.9	20.2
5 1	12 21.12	−10 7.8	2.166	3.063	10.2	20.4
5 11	12 16.76	− 8 55.4	2.230	3.043	13.2	20.5

155933 2001 QB_{2} 4 1.3 168°.48 3°.6/ 4.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.20	−17 8.2	2.329	3.140	12.1	21.3
3 12	13 1.32	−17 15.5	2.250	3.145	9.3	21.2
3 22	12 52.79	−17 7.3	2.195	3.150	6.3	21.0
4 1	12 43.31	−16 44.5	2.170	3.153	3.8	20.8
4 11	12 33.78	−16 10.2	2.173	3.156	4.2	20.9
4 21	12 25.04	−15 29.3	2.206	3.158	6.9	21.0
5 1	12 17.84	−14 47.0	2.265	3.160	9.9	21.2
5 11	12 12.65	−14 8.7	2.348	3.161	12.6	21.4

387593 2001 WO_{37} 4 1.3 175°.61 1°.6/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.08	+ 0 4.9	3.191	4.056	7.7	22.3
3 12	12 56.66	+ 0 48.0	3.121	4.059	5.3	22.1
3 22	12 50.23	+ 1 34.1	3.080	4.062	2.8	22.0
4 1	12 43.26	+ 2 19.6	3.069	4.063	1.7	21.9
4 11	12 36.31	+ 3 1.0	3.090	4.064	3.8	22.0
4 21	12 29.88	+ 3 35.2	3.140	4.065	6.3	22.2
5 1	12 24.43	+ 3 59.8	3.217	4.065	8.6	22.4
5 11	12 20.30	+ 4 13.6	3.316	4.064	10.6	22.5

171700 2000 SA_{211} 4 1.3 218°.01 4°.0/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.03	+ 3 54.3	1.727	2.609	12.3	20.2
3 12	13 1.56	+ 4 50.4	1.659	2.602	8.6	20.0
3 22	12 53.04	+ 5 48.9	1.616	2.595	5.1	19.7
4 1	12 43.34	+ 6 42.5	1.600	2.588	4.3	19.7
4 11	12 33.57	+ 7 23.8	1.612	2.580	7.4	19.8
4 21	12 24.83	+ 7 47.7	1.651	2.571	11.3	20.0
5 1	12 17.98	+ 7 51.8	1.712	2.562	14.9	20.2
5 11	12 13.59	+ 7 35.9	1.792	2.552	17.9	20.4

336268 2008 SL_{179} 4 1.3 274°.71 2°.9/ 3.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.18	−12 43.8	1.931	2.770	13.1	20.6
3 12	13 1.75	−13 3.5	1.837	2.753	9.8	20.4
3 22	12 53.22	−13 9.5	1.768	2.736	6.2	20.1
4 1	12 43.35	−13 2.7	1.726	2.718	3.1	19.9
4 11	12 33.16	−12 45.8	1.713	2.701	4.4	19.9
4 21	12 23.73	−12 23.5	1.727	2.683	8.2	20.1
5 1	12 16.02	−12 1.2	1.767	2.665	12.1	20.3
5 11	12 10.69	−11 44.2	1.828	2.647	15.4	20.5

84805 2002 YS_{8} 4 1.3 12°.93 6°.3/25.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.75	+11 33.8	1.899	2.786	11.0	18.6
3 12	12 57.64	+12 43.6	1.849	2.788	8.3	18.4
3 22	12 50.89	+13 47.8	1.826	2.789	6.4	18.3
4 1	12 43.28	+14 39.0	1.829	2.792	6.8	18.3
4 11	12 35.74	+15 11.2	1.858	2.794	9.0	18.5
4 21	12 29.15	+15 21.3	1.911	2.797	11.8	18.7
5 1	12 24.18	+15 9.1	1.987	2.800	14.5	18.8
5 11	12 21.27	+14 36.3	2.080	2.804	16.8	19.0

91459 1999 RE_{69} 4 1.3 166°.75 2°.3/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.18	−12 10.3	2.194	3.029	11.9	19.8
3 12	13 1.36	−12 20.9	2.117	3.032	8.8	19.6
3 22	12 52.84	−12 19.2	2.066	3.035	5.4	19.4
4 1	12 43.34	−12 6.7	2.044	3.037	2.5	19.2
4 11	12 33.78	−11 46.6	2.051	3.039	3.8	19.3
4 21	12 25.04	−11 23.1	2.087	3.041	7.2	19.5
5 1	12 17.88	−11 1.0	2.149	3.042	10.5	19.7
5 11	12 12.79	−10 44.3	2.234	3.043	13.3	19.9

104725 2000 GX_{176} 4 1.3 149°.13 0°.4/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.56	− 7 51.2	2.261	3.117	10.8	19.9
3 12	12 58.04	− 7 21.7	2.191	3.122	7.6	19.7
3 22	12 51.06	− 6 42.3	2.147	3.126	4.1	19.5
4 1	12 43.29	− 5 56.4	2.131	3.130	0.5	19.2
4 11	12 35.53	− 5 8.9	2.145	3.134	3.6	19.5
4 21	12 28.53	− 4 24.9	2.187	3.138	7.1	19.7
5 1	12 22.93	− 3 48.6	2.255	3.141	10.3	19.9
5 11	12 19.16	− 3 23.2	2.345	3.144	13.1	20.1

333287 1999 RD_{202} 4 1.3 255°.18 4°.3/ 5.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.79	−19 55.3	2.221	3.027	12.8	20.9
3 12	12 59.19	−19 51.0	2.120	3.009	10.1	20.7
3 22	12 51.82	−19 27.6	2.042	2.990	7.2	20.5
4 1	12 43.32	−18 45.7	1.992	2.971	4.7	20.3
4 11	12 34.58	−17 48.5	1.969	2.951	4.8	20.2
4 21	12 26.50	−16 41.7	1.975	2.931	7.4	20.4
5 1	12 19.91	−15 32.0	2.007	2.910	10.6	20.5
5 11	12 15.38	−14 26.5	2.063	2.889	13.7	20.7

121374 1999 TG_{80} 4 1.3 207°.35 0°.6/31.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.36	− 6 0.9	1.886	2.752	12.2	21.6
3 12	12 59.58	− 5 5.8	1.810	2.748	8.5	21.4
3 22	12 51.98	− 3 58.7	1.760	2.742	4.3	21.1
4 1	12 43.32	− 2 45.2	1.738	2.736	0.7	20.8
4 11	12 34.59	− 1 32.5	1.744	2.730	4.7	21.1
4 21	12 26.75	− 0 27.8	1.778	2.723	8.9	21.3
5 1	12 20.58	+ 0 23.4	1.837	2.715	12.7	21.5
5 11	12 16.62	+ 0 57.7	1.917	2.707	15.9	21.7

361605 2007 SU_{17} 4 1.3 290.°57 0.°2/ 1.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 5.03	− 7 4.3	1.385	2.263	15.0	21.4
3 12	13 0.06	− 6 22.2	1.299	2.241	10.7	21.1
3 22	12 52.54	− 5 22.5	1.236	2.219	5.6	20.7
4 1	12 43.34	− 4 10.9	1.198	2.197	0.2	20.3
4 11	12 33.77	− 2 56.4	1.186	2.175	5.7	20.6
4 21	12 25.20	− 1 48.8	1.198	2.153	11.2	20.9
5 1	12 18.80	− 0 56.6	1.233	2.132	16.2	21.1
5 11	12 15.33	− 0 25.2	1.286	2.110	20.4	21.3

45743 2000 HR_{53} 4 1.3 163.°27 3.°7/28.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.61	+ 6 33.9	2.363	3.240	9.6	18.7
3 12	12 58.68	+ 7 16.7	2.303	3.243	6.8	18.6
3 22	12 51.36	+ 7 58.3	2.270	3.245	4.3	18.4
4 1	12 43.31	+ 8 33.6	2.266	3.248	4.0	18.4
4 11	12 35.30	+ 8 58.2	2.291	3.250	6.2	18.5
4 21	12 28.07	+ 9 9.1	2.344	3.252	9.0	18.7
5 1	12 22.21	+ 9 5.0	2.421	3.253	11.6	18.9
5 11	12 18.13	+ 8 46.1	2.518	3.254	13.9	19.1

174070 2002 EV_{82} 4 1.3 288.°60 1.°1/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.15	− 9 1.5	1.482	2.349	14.8	20.4
3 12	13 0.77	− 8 42.0	1.392	2.327	10.7	20.1
3 22	12 52.89	− 8 5.7	1.324	2.304	6.0	19.8
4 1	12 43.36	− 7 16.1	1.282	2.281	1.2	19.4
4 11	12 33.41	− 6 20.1	1.267	2.258	5.0	19.6
4 21	12 24.39	− 5 25.8	1.277	2.235	10.3	19.8
5 1	12 17.45	− 4 41.1	1.310	2.212	15.2	20.0
5 11	12 13.38	− 4 12.0	1.361	2.189	19.3	20.2

77082 2001 DM_{33} 4 1.3 348.°09 2.°3/30.7 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.35	− 1 32.4	1.218	2.112	15.3	18.5
3 12	12 59.56	− 0 58.1	1.155	2.106	10.6	18.2
3 22	12 52.21	− 0 14.5	1.115	2.101	5.5	17.9
4 1	12 43.34	+ 0 30.9	1.099	2.096	2.4	17.7
4 11	12 34.40	+ 1 9.3	1.107	2.092	6.9	17.9
4 21	12 26.76	+ 1 33.4	1.138	2.089	12.1	18.2
5 1	12 21.51	+ 1 38.6	1.191	2.087	16.8	18.5
5 11	12 19.24	+ 1 23.2	1.260	2.086	20.6	18.7

311282 2005 EO_{315} 4 1.3 117.°79 1.°9/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.41	− 2 34.3	1.761	2.635	12.4	21.5
3 12	13 0.20	− 1 28.2	1.710	2.652	8.5	21.3
3 22	12 52.21	− 0 14.3	1.685	2.668	4.3	21.0
4 1	12 43.35	+ 1 0.3	1.687	2.684	2.1	20.9
4 11	12 34.64	+ 2 7.9	1.719	2.699	5.6	21.2
4 21	12 27.03	+ 3 2.2	1.777	2.713	9.5	21.4
5 1	12 21.26	+ 3 39.2	1.860	2.727	13.1	21.7
5 11	12 17.74	+ 3 57.6	1.962	2.740	16.0	21.9

389134 2009 AW_{32} 4 1.3 101.°53 1.°9/30.2 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.82	− 0 54.9	2.178	3.053	10.4	21.7
3 12	12 57.51	− 0 5.0	2.120	3.062	7.1	21.5
3 22	12 50.78	+ 0 49.8	2.088	3.071	3.7	21.3
4 1	12 43.31	+ 1 44.4	2.085	3.080	2.0	21.2
4 11	12 35.91	+ 2 33.1	2.111	3.089	4.9	21.4
4 21	12 29.32	+ 3 11.5	2.164	3.097	8.2	21.6
5 1	12 24.15	+ 3 36.5	2.242	3.106	11.3	21.8
5 11	12 20.80	+ 3 46.6	2.342	3.114	13.8	22.0

382897 2004 QZ_{18} 4 1.3 237.°34 5.°9/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.81	−26 23.9	2.488	3.249	12.8	21.8
3 12	12 59.83	−26 28.7	2.383	3.232	10.7	21.6
3 22	12 52.13	−26 12.5	2.300	3.215	8.3	21.4
4 1	12 43.35	−25 34.8	2.244	3.197	6.4	21.3
4 11	12 34.35	−24 37.6	2.215	3.178	6.0	21.2
4 21	12 25.98	−23 25.8	2.215	3.158	7.5	21.3
5 1	12 19.04	−22 5.8	2.241	3.138	10.0	21.4
5 11	12 14.07	−20 45.2	2.292	3.117	12.5	21.5

303279 2004 RK_{191} 4 1.3 212.°25 3.°6/ 4.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.47	−15 43.0	1.747	2.579	14.5	20.8
3 12	13 2.03	−15 40.5	1.664	2.574	11.1	20.5
3 22	12 53.38	−15 18.4	1.604	2.568	7.2	20.3
4 1	12 43.39	−14 38.3	1.571	2.561	3.9	20.1
4 11	12 33.21	−13 44.8	1.566	2.554	4.8	20.1
4 21	12 24.01	−12 45.1	1.588	2.546	8.7	20.3
5 1	12 16.76	−11 47.0	1.635	2.537	12.6	20.5
5 11	12 12.08	−10 57.5	1.703	2.528	16.1	20.7

284317 2006 QV_{123} 4 1.3 180.°71 4.°1/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.31	−22 31.1	3.149	3.923	10.1	22.2
3 12	12 58.37	−22 37.4	3.060	3.924	8.1	22.1
3 22	12 51.20	−22 29.3	2.997	3.925	6.0	21.9
4 1	12 43.33	−22 7.1	2.961	3.925	4.4	21.8
4 11	12 35.40	−21 33.0	2.955	3.925	4.2	21.8
4 21	12 28.02	−20 50.3	2.978	3.924	5.7	21.9
5 1	12 21.73	−20 3.4	3.029	3.922	7.8	22.0
5 11	12 16.95	−19 16.7	3.105	3.920	9.8	22.2

499571 2010 SV_{27} 4 1.3 270.°32 0.°4/ 1.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 6.14	− 8 2.2	1.652	2.517	13.6	22.2
3 12	13 0.52	− 7 31.6	1.563	2.498	9.8	21.9
3 22	12 52.67	− 6 45.9	1.497	2.478	5.3	21.6
4 1	12 43.38	− 5 49.5	1.459	2.458	0.5	21.2
4 11	12 33.79	− 4 49.1	1.447	2.437	4.8	21.4
4 21	12 25.07	− 3 52.4	1.463	2.416	9.7	21.7
5 1	12 18.25	− 3 6.3	1.502	2.395	14.1	21.9
5 11	12 14.01	− 2 36.0	1.561	2.374	17.9	22.1

433678 2014 EW_{16} 4 1.3 103.°80 1.°2/ 2.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.94	− 9 33.9	2.459	3.304	10.4	21.1
3 12	12 58.89	− 9 29.8	2.393	3.316	7.5	20.9
3 22	12 51.48	− 9 16.1	2.353	3.328	4.2	20.7
4 1	12 43.34	− 8 55.2	2.343	3.340	1.3	20.6
4 11	12 35.25	− 8 30.5	2.362	3.352	3.2	20.7
4 21	12 27.91	− 8 5.9	2.410	3.364	6.4	20.9
5 1	12 21.91	− 7 45.1	2.485	3.375	9.4	21.1
5 11	12 17.66	− 7 31.0	2.583	3.386	11.9	21.3

190434 1999 XX_{78} 4 1.3 218.°31 2.°6/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.57	−15 49.7	2.396	3.220	11.4	20.2
3 12	12 58.12	−15 25.2	2.306	3.212	8.6	20.0
3 22	12 51.17	−14 45.0	2.241	3.204	5.5	19.8
4 1	12 43.34	−13 51.3	2.205	3.195	2.9	19.6
4 11	12 35.41	−12 48.3	2.198	3.186	3.6	19.7
4 21	12 28.15	−11 41.6	2.219	3.176	6.6	19.8
5 1	12 22.23	−10 37.1	2.268	3.166	9.8	20.0
5 11	12 18.12	− 9 40.1	2.340	3.155	12.6	20.2

208474 2001 UP_{122} 4 1.3 176.°87 1.°8/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.73	+ 0 55.0	3.064	3.931	7.9	21.7
3 12	12 57.16	+ 1 33.8	2.995	3.934	5.4	21.5
3 22	12 50.53	+ 2 15.1	2.954	3.935	2.9	21.3
4 1	12 43.32	+ 2 55.3	2.944	3.936	1.9	21.2
4 11	12 36.13	+ 3 30.8	2.964	3.937	4.0	21.4
4 21	12 29.49	+ 3 58.6	3.013	3.937	6.6	21.6
5 1	12 23.88	+ 4 16.5	3.089	3.937	9.0	21.7
5 11	12 19.65	+ 4 23.4	3.188	3.936	11.0	21.9

201726 2003 UH_{195} 4 1.3 165.°41 2.°0/ 3.6 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.24	−13 29.0	2.241	3.078	11.6	20.5
3 12	12 57.89	−13 2.7	2.165	3.081	8.6	20.3
3 22	12 51.04	−12 21.8	2.114	3.083	5.2	20.1
4 1	12 43.34	−11 29.3	2.091	3.085	2.3	19.9
4 11	12 35.62	−10 30.0	2.097	3.087	3.5	20.0
4 21	12 28.67	− 9 29.5	2.131	3.088	6.9	20.2
5 1	12 23.13	− 8 33.5	2.192	3.089	10.1	20.4
5 11	12 19.47	− 7 46.7	2.275	3.090	12.9	20.6

128344 2004 GW_{7} 4 1.3 67.°80 1.°1/ 2.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.63	− 8 37.1	1.226	2.101	16.7	19.8
3 12	13 2.46	− 8 22.0	1.171	2.109	11.9	19.6
3 22	12 53.66	− 7 49.8	1.137	2.117	6.5	19.3
4 1	12 43.41	− 7 5.5	1.127	2.126	1.2	19.0
4 11	12 33.24	− 6 17.1	1.143	2.135	5.3	19.3
4 21	12 24.56	− 5 33.2	1.184	2.144	10.7	19.6
5 1	12 18.45	− 5 1.0	1.246	2.152	15.4	19.9
5 11	12 15.45	− 4 45.0	1.327	2.161	19.3	20.2

122469 2000 QK_{155} 4 1.3 175.°18 5.°1/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.48	−22 35.1	2.201	2.992	13.4	20.1
3 12	12 59.58	−22 32.2	2.119	2.994	10.7	19.9
3 22	12 51.97	−22 8.6	2.060	2.996	7.9	19.7
4 1	12 43.37	−21 24.8	2.027	2.997	5.6	19.6
4 11	12 34.70	−20 24.5	2.022	2.998	5.3	19.6
4 21	12 26.86	−19 13.7	2.046	2.998	7.4	19.7
5 1	12 20.61	−17 59.4	2.095	2.998	10.2	19.8
5 11	12 16.42	−16 48.8	2.168	2.997	13.0	20.0

503255 2015 KM_{71} 4 1.3 193.°16 6.°8/22.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.11	+18 44.2	2.558	3.426	9.3	20.6
3 12	12 57.62	+19 53.3	2.511	3.425	7.6	20.5
3 22	12 50.83	+20 53.0	2.490	3.424	6.8	20.5
4 1	12 43.34	+21 37.6	2.497	3.422	7.4	20.5
4 11	12 35.92	+22 3.0	2.530	3.421	9.0	20.6
4 21	12 29.22	+22 7.4	2.588	3.419	10.9	20.7
5 1	12 23.83	+21 51.2	2.668	3.417	12.8	20.9
5 11	12 20.12	+21 16.3	2.765	3.415	14.4	21.0

192645 1999 RJ_{47} 4 1.3 220.°97 4.°4/ 6.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.90	−20 41.4	2.539	3.331	11.8	21.4
3 12	13 0.49	−20 53.0	2.442	3.320	9.4	21.2
3 22	12 52.45	−20 48.2	2.369	3.309	6.8	21.0
4 1	12 43.40	−20 26.9	2.324	3.297	4.8	20.8
4 11	12 34.16	−19 51.6	2.308	3.284	4.8	20.8
4 21	12 25.54	−19 6.4	2.321	3.271	6.9	20.9
5 1	12 18.30	−18 16.6	2.361	3.256	9.6	21.1
5 11	12 12.93	−17 28.1	2.425	3.242	12.2	21.2

392743 2012 SG_{38} 4 1.3 216°.47 0°.4/ 1.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 4.71	− 7 26.0	2.185	3.042	11.1	21.7
3 12	12 58.97	− 7 7.9	2.107	3.038	7.9	21.5
3 22	12 51.63	− 6 40.0	2.056	3.035	4.2	21.3
4 1	12 43.39	− 6 5.5	2.032	3.031	0.5	21.0
4 11	12 35.08	− 5 29.1	2.038	3.027	3.7	21.2
4 21	12 27.53	− 4 55.2	2.072	3.023	7.4	21.4
5 1	12 21.44	− 4 28.4	2.131	3.019	10.8	21.6
5 11	12 17.28	− 4 11.7	2.213	3.014	13.7	21.8

91418 1999 NY_{56} 4 1.3 213°.17 2°.8/ 4.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.39	−16 42.5	2.277	3.100	11.9	19.7
3 12	12 58.06	−16 11.2	2.190	3.094	9.1	19.5
3 22	12 51.17	−15 22.4	2.127	3.088	5.9	19.3
4 1	12 43.38	−14 18.5	2.092	3.081	3.2	19.1
4 11	12 35.50	−13 4.5	2.086	3.074	3.8	19.1
4 21	12 28.35	−11 46.5	2.109	3.067	6.9	19.3
5 1	12 22.60	−10 31.3	2.159	3.059	10.1	19.5
5 11	12 18.75	− 9 24.7	2.232	3.050	13.0	19.6

195524 2002 JN_{20} 4 1.3 350°.44 3°.5/29.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.65	+ 3 8.6	1.820	2.704	11.6	19.7
3 12	12 59.08	+ 3 57.9	1.759	2.704	8.1	19.5
3 22	12 51.73	+ 4 49.5	1.722	2.703	4.7	19.2
4 1	12 43.40	+ 5 36.9	1.714	2.703	3.7	19.2
4 11	12 35.09	+ 6 13.6	1.732	2.703	6.6	19.4
4 21	12 27.74	+ 6 35.3	1.777	2.702	10.3	19.6
5 1	12 22.09	+ 6 39.4	1.845	2.702	13.6	19.8
5 11	12 18.64	+ 6 25.7	1.932	2.702	16.4	20.0

218759 2005 VR_{98} 4 1.3 159°.21 4°.9/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.32	−20 1.8	2.104	2.906	13.5	19.8
3 12	13 1.63	−20 22.8	2.026	2.911	10.7	19.6
3 22	12 53.08	−20 25.1	1.972	2.916	7.7	19.4
4 1	12 43.44	−20 9.0	1.945	2.920	5.3	19.3
4 11	12 33.72	−19 37.2	1.946	2.923	5.3	19.3
4 21	12 24.87	−18 54.8	1.975	2.926	7.7	19.5
5 1	12 17.72	−18 8.1	2.030	2.929	10.7	19.6
5 11	12 12.80	−17 23.7	2.107	2.931	13.5	19.8

207596 2006 QZ_{81} 4 1.3 176°.38 1°.7/ 3.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.93	−12 4.7	2.671	3.506	10.0	21.2
3 12	12 58.20	−11 54.9	2.592	3.507	7.4	21.0
3 22	12 51.16	−11 34.2	2.539	3.508	4.4	20.8
4 1	12 43.39	−11 4.7	2.515	3.509	1.9	20.7
4 11	12 35.59	−10 29.9	2.521	3.510	3.1	20.7
4 21	12 28.41	− 9 53.5	2.556	3.510	6.0	20.9
5 1	12 22.46	− 9 19.8	2.618	3.510	8.9	21.1
5 11	12 18.12	− 8 52.1	2.704	3.509	11.4	21.3

300124 2006 VG_{14} 4 1.3 126°.89 2°.1/ 3.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.94	−12 48.4	2.476	3.311	10.7	21.2
3 12	12 58.27	−12 44.2	2.403	3.317	7.9	21.1
3 22	12 51.21	−12 28.1	2.355	3.323	4.8	20.9
4 1	12 43.39	−12 2.1	2.335	3.328	2.2	20.7
4 11	12 35.56	−11 29.8	2.345	3.334	3.3	20.8
4 21	12 28.43	−10 55.2	2.383	3.339	6.3	21.0
5 1	12 22.61	−10 22.7	2.449	3.344	9.2	21.2
5 11	12 18.52	− 9 56.2	2.537	3.349	11.8	21.4

456956 2008 AR_{62} 4 1.3 55°.38 8°.2/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.79	−25 54.0	1.502	2.299	18.2	21.2
3 12	13 1.12	−26 25.0	1.437	2.309	15.1	21.0
3 22	12 52.99	−26 26.0	1.392	2.318	11.7	20.9
4 1	12 43.44	−25 55.5	1.369	2.328	9.0	20.7
4 11	12 33.85	−24 57.3	1.371	2.339	8.3	20.7
4 21	12 25.54	−23 39.8	1.397	2.349	10.2	20.8
5 1	12 19.56	−22 13.8	1.447	2.360	13.3	21.0
5 11	12 16.48	−20 50.3	1.517	2.370	16.4	21.3

141066 2001 XF_{13} 4 1.3 36°.02 4°.6/28.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.09	+ 8 22.1	1.990	2.871	10.9	19.3
3 12	12 59.87	+ 8 50.5	1.939	2.879	7.8	19.1
3 22	12 52.05	+ 9 15.2	1.914	2.887	5.2	18.9
4 1	12 43.42	+ 9 31.0	1.916	2.896	4.8	18.9
4 11	12 34.91	+ 9 33.5	1.946	2.904	7.1	19.1
4 21	12 27.38	+ 9 20.5	2.003	2.913	10.1	19.3
5 1	12 21.51	+ 8 51.8	2.083	2.923	12.9	19.5
5 11	12 17.71	+ 8 8.4	2.183	2.932	15.4	19.7

405362 2003 WT_{114} 4 1.3 141°.70 1°.0/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.48	− 9 51.0	1.986	2.835	12.4	22.4
3 12	13 0.91	− 9 20.2	1.922	2.848	8.8	22.2
3 22	12 52.63	− 8 36.4	1.883	2.860	4.9	22.0
4 1	12 43.44	− 7 43.5	1.873	2.871	1.1	21.7
4 11	12 34.33	− 6 47.3	1.892	2.881	3.8	21.9
4 21	12 26.18	− 5 53.9	1.939	2.891	7.8	22.2
5 1	12 19.75	− 5 8.6	2.012	2.900	11.3	22.4
5 11	12 15.46	− 4 35.3	2.107	2.908	14.3	22.6

51780 2001 MB_{9} 4 1.3 154°.57 3°.5/ 5.4 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 4.51	−18 9.1	2.473	3.283	11.5	19.7
3 12	12 58.72	−18 8.6	2.395	3.288	8.9	19.5
3 22	12 51.48	−17 52.6	2.342	3.293	6.1	19.3
4 1	12 43.42	−17 22.4	2.316	3.297	3.9	19.2
4 11	12 35.32	−16 41.3	2.319	3.302	4.1	19.2
4 21	12 27.94	−15 53.8	2.351	3.305	6.5	19.3
5 1	12 21.91	−15 5.2	2.409	3.309	9.2	19.5
5 11	12 17.68	−14 20.6	2.492	3.312	11.8	19.7

483322 2016 NN_{23} 4 1.3 244°.74 4°.9/ 7.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.58	−23 37.6	2.866	3.636	11.1	21.9
3 12	12 59.51	−23 57.2	2.760	3.619	9.1	21.7
3 22	12 51.95	−24 0.9	2.679	3.601	7.0	21.5
4 1	12 43.44	−23 48.4	2.624	3.583	5.3	21.4
4 11	12 34.70	−23 21.0	2.599	3.564	5.1	21.4
4 21	12 26.48	−22 42.1	2.602	3.545	6.6	21.4
5 1	12 19.44	−21 56.4	2.633	3.525	8.8	21.5
5 11	12 14.09	−21 9.1	2.688	3.505	11.1	21.7

165495 2001 BY_{47} 4 1.3 72°.68 1°.4/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.28	− 9 53.2	1.437	2.301	15.4	19.4
3 12	13 1.81	− 9 33.0	1.390	2.322	11.0	19.2
3 22	12 53.18	− 8 56.5	1.365	2.343	6.1	19.0
4 1	12 43.46	− 8 8.7	1.367	2.365	1.5	18.7
4 11	12 33.98	− 7 16.9	1.395	2.386	4.6	19.0
4 21	12 25.89	− 6 28.7	1.449	2.407	9.3	19.3
5 1	12 20.05	− 5 50.5	1.527	2.428	13.4	19.6
5 11	12 16.89	− 5 26.4	1.624	2.449	16.8	19.9

429120 2009 SW_{267} 4 1.3 166°.79 4°.4/ 6.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.39	−20 20.5	2.169	2.973	13.1	22.0
3 12	12 59.52	−20 11.9	2.090	2.977	10.3	21.8
3 22	12 51.96	−19 43.6	2.034	2.980	7.3	21.6
4 1	12 43.44	−18 56.9	2.005	2.983	4.8	21.5
4 11	12 34.88	−17 56.0	2.005	2.986	4.8	21.5
4 21	12 27.15	−16 46.9	2.032	2.988	7.2	21.6
5 1	12 21.00	−15 36.5	2.086	2.989	10.3	21.8
5 11	12 16.90	−14 31.5	2.163	2.990	13.1	22.0

483340 2016 QK_{75} 4 1.3 245°.05 0°.4/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 0.46	−10 41.2	2.587	3.434	9.9	21.0
3 12	12 55.87	− 9 23.7	2.496	3.422	7.1	20.8
3 22	12 49.99	− 7 52.4	2.433	3.411	3.8	20.6
4 1	12 43.39	− 6 11.8	2.400	3.399	0.5	20.3
4 11	12 36.72	− 4 28.4	2.397	3.386	3.3	20.5
4 21	12 30.64	− 2 48.5	2.425	3.374	6.7	20.7
5 1	12 25.71	− 1 18.2	2.481	3.361	9.8	20.8
5 11	12 22.34	− 0 1.8	2.560	3.348	12.4	21.0

375338 2008 SN_{8} 4 1.3 113°.54 3°.0/ 4.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.32	−15 1.7	2.121	2.950	12.5	20.8
3 12	13 0.08	−15 0.3	2.054	2.963	9.4	20.6
3 22	12 52.21	−14 43.5	2.012	2.975	6.0	20.5
4 1	12 43.45	−14 13.3	1.997	2.987	3.2	20.3
4 11	12 34.73	−13 33.8	2.012	2.999	4.0	20.4
4 21	12 26.89	−12 50.3	2.054	3.011	7.1	20.6
5 1	12 20.66	−12 8.2	2.122	3.022	10.3	20.8
5 11	12 16.48	−11 32.5	2.214	3.033	13.1	21.0

209427 2004 FO_{50} 4 1.3 359°.31 0°.3/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.76	− 6 32.2	1.897	2.764	12.0	19.3
3 12	12 58.47	− 6 18.8	1.827	2.763	8.5	19.1
3 22	12 51.44	− 5 55.5	1.781	2.762	4.5	18.9
4 1	12 43.43	− 5 25.9	1.763	2.762	0.3	18.5
4 11	12 35.38	− 4 55.0	1.772	2.762	4.1	18.8
4 21	12 28.20	− 4 27.7	1.809	2.762	8.1	19.1
5 1	12 22.65	− 4 8.5	1.870	2.763	11.8	19.3
5 11	12 19.22	− 4 0.4	1.952	2.764	14.8	19.5

114608 2003 DC_{7} 4 1.3 154°.45 5°.2/24.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.21	+13 52.3	2.899	3.771	8.1	20.4
3 12	12 56.86	+15 6.5	2.853	3.779	6.3	20.2
3 22	12 50.42	+16 15.2	2.836	3.787	5.2	20.2
4 1	12 43.40	+17 13.2	2.848	3.794	5.6	20.2
4 11	12 36.45	+17 56.5	2.888	3.801	7.2	20.3
4 21	12 30.12	+18 22.7	2.955	3.807	9.1	20.5
5 1	12 24.92	+18 31.3	3.045	3.813	11.0	20.6
5 11	12 21.17	+18 23.2	3.154	3.818	12.6	20.8

437690 2014 DR_{26} 4 1.3 163°.91 0°.9/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.58	− 9 30.5	2.321	3.173	10.7	21.1
3 12	12 57.41	− 9 5.8	2.247	3.174	7.7	20.9
3 22	12 50.81	− 8 30.0	2.198	3.174	4.3	20.7
4 1	12 43.42	− 7 46.5	2.177	3.175	1.0	20.5
4 11	12 36.01	− 6 59.8	2.185	3.176	3.3	20.6
4 21	12 29.30	− 6 14.6	2.222	3.176	6.8	20.9
5 1	12 23.94	− 5 35.7	2.285	3.177	10.0	21.1
5 11	12 20.34	− 5 6.4	2.371	3.177	12.7	21.2

138735 2000 SR_{199} 4 1.3 137°.31 0°.4/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 4.05	− 4 33.3	2.508	3.368	9.7	20.3
3 12	12 58.29	− 4 14.7	2.439	3.374	6.8	20.1
3 22	12 51.22	− 3 49.7	2.398	3.379	3.5	19.9
4 1	12 43.43	− 3 21.6	2.385	3.385	0.4	19.6
4 11	12 35.67	− 2 54.2	2.403	3.390	3.5	19.9
4 21	12 28.60	− 2 31.1	2.449	3.395	6.8	20.1
5 1	12 22.81	− 2 15.4	2.522	3.399	9.7	20.3
5 11	12 18.69	− 2 9.2	2.617	3.404	12.2	20.5

70354 1999 RM_{183} 4 1.3 180°.81 0°.6/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.48	− 7 44.3	1.857	2.714	12.7	19.4
3 12	13 1.82	− 7 27.6	1.784	2.715	9.1	19.1
3 22	12 53.21	− 6 59.2	1.736	2.715	4.9	18.9
4 1	12 43.49	− 6 22.9	1.717	2.716	0.7	18.6
4 11	12 33.73	− 5 43.8	1.726	2.715	4.2	18.8
4 21	12 24.94	− 5 7.8	1.762	2.714	8.5	19.1
5 1	12 17.95	− 4 39.8	1.824	2.713	12.3	19.3
5 11	12 13.31	− 4 23.4	1.908	2.711	15.5	19.5

467742 2009 SS_{28} 4 1.3 187°.72 0°.4/ 1.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.98	− 6 38.8	2.052	2.908	11.7	22.0
3 12	13 1.33	− 6 29.7	1.977	2.908	8.3	21.8
3 22	12 52.91	− 6 11.3	1.928	2.907	4.4	21.5
4 1	12 43.49	− 5 46.7	1.907	2.906	0.4	21.2
4 11	12 34.00	− 5 20.3	1.916	2.905	3.9	21.5
4 21	12 25.38	− 4 56.7	1.953	2.903	7.9	21.7
5 1	12 18.39	− 4 39.9	2.015	2.900	11.4	21.9
5 11	12 13.55	− 4 33.1	2.100	2.897	14.4	22.1

280408 2003 WP_{59} 4 1.3 158°.43 1°.3/30.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.90	− 2 9.5	2.429	3.296	9.7	21.6
3 12	12 58.21	− 1 27.6	2.363	3.302	6.7	21.4
3 22	12 51.18	− 0 40.1	2.325	3.307	3.4	21.2
4 1	12 43.43	+ 0 8.4	2.315	3.312	1.4	21.0
4 11	12 35.72	+ 0 53.2	2.336	3.317	4.2	21.2
4 21	12 28.73	+ 1 30.1	2.385	3.321	7.5	21.4
5 1	12 23.04	+ 1 56.0	2.460	3.324	10.4	21.6
5 11	12 19.07	+ 2 9.2	2.557	3.327	12.8	21.8

402143 2004 RM_{26} 4 1.3 257°.15 0°.6/31.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.90	− 5 27.4	1.615	2.485	13.6	22.0
3 12	13 1.83	− 4 49.0	1.527	2.466	9.6	21.7
3 22	12 53.42	− 3 57.5	1.463	2.446	5.0	21.4
4 1	12 43.51	− 2 58.1	1.426	2.426	0.7	21.0
4 11	12 33.28	− 1 58.2	1.417	2.404	5.4	21.3
4 21	12 23.95	− 1 5.7	1.435	2.383	10.3	21.5
5 1	12 16.61	− 0 27.1	1.476	2.361	14.8	21.7
5 11	12 11.93	− 0 6.2	1.536	2.338	18.6	21.9

214927 2007 UJ_{111} 4 1.3 75°.43 0°.2/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.53	− 7 59.1	1.439	2.310	14.9	21.1
3 12	13 0.63	− 7 17.6	1.389	2.326	10.5	20.9
3 22	12 52.60	− 6 21.3	1.361	2.343	5.5	20.7
4 1	12 43.48	− 5 16.4	1.360	2.359	0.3	20.3
4 11	12 34.54	− 4 11.4	1.386	2.376	4.9	20.7
4 21	12 26.92	− 3 14.2	1.437	2.392	9.7	21.0
5 1	12 21.46	− 2 31.1	1.512	2.409	13.8	21.3
5 11	12 18.61	− 2 5.5	1.607	2.425	17.2	21.6

87070 2000 KP_{59} 4 1.3 246°.57 6°.9/25.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.86	+14 3.6	1.987	2.863	11.2	19.7
3 12	13 1.35	+15 8.4	1.920	2.849	8.7	19.5
3 22	12 52.97	+16 6.4	1.879	2.834	7.0	19.4
4 1	12 43.51	+16 49.9	1.864	2.819	7.4	19.3
4 11	12 33.98	+17 12.9	1.877	2.803	9.6	19.4
4 21	12 25.35	+17 12.5	1.915	2.787	12.4	19.6
5 1	12 18.43	+16 48.5	1.975	2.770	15.2	19.7
5 11	12 13.75	+16 3.2	2.053	2.753	17.6	19.9

175095 2004 JC_{1} 4 1.3 293°.88 1°.1/31.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.09	− 3 22.6	2.169	3.039	10.6	20.2
3 12	12 58.02	− 2 46.1	2.071	3.011	7.4	19.9
3 22	12 51.27	− 2 1.3	2.000	2.983	3.8	19.6
4 1	12 43.47	− 1 12.5	1.957	2.955	1.1	19.4
4 11	12 35.43	− 0 25.2	1.942	2.927	4.5	19.6
4 21	12 27.99	+ 0 15.4	1.956	2.898	8.4	19.7
5 1	12 21.92	+ 0 44.9	1.994	2.870	12.0	19.9
5 11	12 17.78	+ 1 0.3	2.054	2.842	15.0	20.1

117742 2005 GW_{31} 4 1.3 226°.92 0°.2/ 1.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.92	− 8 32.7	1.830	2.691	12.7	20.0
3 12	12 59.42	− 7 40.7	1.750	2.683	9.0	19.8
3 22	12 52.01	− 6 33.8	1.694	2.675	4.8	19.5
4 1	12 43.49	− 5 17.1	1.666	2.666	0.3	19.1
4 11	12 34.85	− 3 58.1	1.667	2.656	4.4	19.4
4 21	12 27.08	− 2 44.3	1.695	2.646	8.8	19.7
5 1	12 21.02	− 1 42.6	1.748	2.636	12.8	19.9
5 11	12 17.23	− 0 57.4	1.822	2.625	16.1	20.1

43701 1115 $T\text{-}_{1}$ 4 1.3 279°.65 0°.7/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 3.04	− 9 20.7	1.845	2.706	12.6	19.5
3 12	12 58.08	− 8 40.6	1.767	2.699	9.0	19.3
3 22	12 51.31	− 7 45.9	1.713	2.692	4.9	19.0
4 1	12 43.47	− 6 40.9	1.686	2.685	0.8	18.7
4 11	12 35.53	− 5 32.4	1.687	2.678	4.1	18.9
4 21	12 28.45	− 4 27.5	1.716	2.671	8.4	19.2
5 1	12 23.01	− 3 32.5	1.769	2.663	12.3	19.4
5 11	12 19.75	− 2 52.1	1.843	2.656	15.5	19.6

374178 2004 XJ_{69} 4 1.3 72°.42 6°.0/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.89	+11 6.3	1.808	2.689	11.8	20.5
3 12	13 1.21	+11 52.0	1.767	2.704	8.7	20.3
3 22	12 52.78	+12 31.2	1.751	2.718	6.4	20.2
4 1	12 43.52	+12 57.1	1.762	2.732	6.3	20.2
4 11	12 34.48	+13 4.9	1.800	2.746	8.5	20.4
4 21	12 26.60	+12 52.8	1.864	2.760	11.5	20.6
5 1	12 20.58	+12 21.1	1.949	2.774	14.3	20.8
5 11	12 16.83	+11 32.3	2.054	2.788	16.7	21.0

303737 2005 QR_{66} 4 1.3 217°.70 0°.5/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.13	− 4 22.8	2.920	3.779	8.5	21.7
3 12	12 56.90	− 3 49.2	2.836	3.771	5.9	21.5
3 22	12 50.51	− 3 9.4	2.780	3.762	3.0	21.3
4 1	12 43.46	− 2 26.7	2.754	3.753	0.6	21.1
4 11	12 36.36	− 1 44.9	2.759	3.743	3.3	21.3
4 21	12 29.78	− 1 7.5	2.792	3.733	6.3	21.5
5 1	12 24.25	− 0 37.8	2.853	3.723	8.9	21.6
5 11	12 20.15	− 0 18.0	2.937	3.712	11.2	21.8

197859 2004 QH_{22} 4 1.3 133°.34 12°.1/16.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.41	−42 36.4	2.059	2.703	18.4	19.5
3 12	13 5.68	−43 27.5	1.988	2.719	16.6	19.4
3 22	12 55.39	−43 45.5	1.934	2.735	14.8	19.2
4 1	12 43.61	−43 25.9	1.900	2.750	13.2	19.2
4 11	12 31.77	−42 29.0	1.888	2.764	12.2	19.1
4 21	12 21.26	−41 0.3	1.899	2.777	12.2	19.1
5 1	12 13.17	−39 9.3	1.934	2.790	13.1	19.2
5 11	12 8.10	−37 7.9	1.991	2.801	14.7	19.4

458855 2011 UK_{84} 4 1.3 128°.21 1°.1/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.77	− 3 20.9	1.652	2.522	13.3	21.8
3 12	13 2.75	− 2 54.4	1.594	2.533	9.3	21.5
3 22	12 53.69	− 2 19.7	1.561	2.544	4.7	21.3
4 1	12 43.56	− 1 42.1	1.556	2.554	1.1	21.1
4 11	12 33.52	− 1 7.7	1.578	2.564	5.2	21.4
4 21	12 24.68	− 0 42.0	1.628	2.573	9.6	21.6
5 1	12 17.89	− 0 28.9	1.702	2.582	13.4	21.9
5 11	12 13.62	− 0 30.3	1.796	2.590	16.6	22.1

427486 2001 XQ_{223} 4 1.3 110°.36 6°.2/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.31	−24 46.9	1.904	2.693	15.2	20.9
3 12	12 59.68	−24 46.8	1.832	2.702	12.4	20.7
3 22	12 52.13	−24 21.5	1.781	2.711	9.4	20.5
4 1	12 43.51	−23 31.5	1.755	2.719	6.9	20.4
4 11	12 34.88	−22 21.2	1.755	2.728	6.4	20.4
4 21	12 27.25	−20 57.8	1.783	2.736	8.3	20.5
5 1	12 21.45	−19 30.0	1.836	2.744	11.2	20.7
5 11	12 17.98	−18 6.6	1.911	2.752	14.0	20.9

438871 2009 HU_{60} 4 1.3 283°.59 1°.7/30.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.50	+ 0 22.7	2.281	3.150	10.2	21.4
3 12	13 0.26	+ 0 33.3	2.194	3.133	7.1	21.2
3 22	12 52.39	+ 0 46.9	2.133	3.116	3.7	21.0
4 1	12 43.53	+ 1 0.0	2.102	3.098	1.8	20.8
4 11	12 34.52	+ 1 8.5	2.100	3.081	4.7	21.0
4 21	12 26.19	+ 1 9.5	2.127	3.063	8.2	21.1
5 1	12 19.26	+ 1 0.4	2.179	3.046	11.5	21.3
5 11	12 14.25	+ 0 39.9	2.253	3.028	14.2	21.5

416157 2002 RK_{143} 4 1.3 198°.56 2°.3/ 3.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.08	−13 11.5	2.032	2.869	12.6	22.3
3 12	13 0.80	−12 57.5	1.951	2.866	9.4	22.1
3 22	12 52.71	−12 28.1	1.894	2.863	5.7	21.8
4 1	12 43.54	−11 45.6	1.865	2.859	2.5	21.6
4 11	12 34.27	−10 54.8	1.865	2.854	3.9	21.7
4 21	12 25.84	−10 1.6	1.893	2.849	7.6	21.9
5 1	12 19.05	− 9 12.2	1.947	2.843	11.2	22.1
5 11	12 14.44	− 8 31.8	2.023	2.836	14.4	22.3

345674 2006 UU_{67} 4 1.3 245°.80 3°.4/28.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.30	+ 5 19.1	2.328	3.205	9.7	20.6
3 12	12 58.60	+ 5 57.2	2.259	3.200	6.8	20.4
3 22	12 51.45	+ 6 35.2	2.217	3.194	4.2	20.2
4 1	12 43.51	+ 7 8.3	2.204	3.189	3.6	20.2
4 11	12 35.54	+ 7 31.7	2.219	3.183	5.9	20.3
4 21	12 28.30	+ 7 42.5	2.262	3.177	8.9	20.5
5 1	12 22.42	+ 7 38.7	2.329	3.171	11.7	20.7
5 11	12 18.34	+ 7 20.3	2.417	3.165	14.1	20.8

148742 2001 TM_{120} 4 1.3 245°.41 5°.2/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 10.10	−18 1.7	1.829	2.646	14.6	19.7
3 12	13 3.24	−18 42.9	1.746	2.642	11.5	19.5
3 22	12 54.13	−19 6.2	1.686	2.636	8.1	19.3
4 1	12 43.59	−19 10.6	1.652	2.631	5.5	19.1
4 11	12 32.80	−18 58.0	1.646	2.626	5.8	19.1
4 21	12 22.93	−18 33.2	1.667	2.620	8.7	19.3
5 1	12 14.99	−18 2.6	1.714	2.615	12.2	19.5
5 11	12 9.65	−17 33.4	1.781	2.609	15.4	19.7

193689 2001 FQ_{4} 4 1.3 209°.93 1°.4/30.9 17

3 2	13 4.01	− 2 32.0	2.050	2.922	11.0	20.7
3 12	12 58.56	− 1 50.4	1.980	2.921	7.6	20.5
3 22	12 51.49	− 1 1.7	1.935	2.919	3.9	20.2
4 1	12 43.51	− 0 11.0	1.919	2.916	1.5	20.0
4 11	12 35.51	+ 0 35.9	1.932	2.914	4.8	20.3
4 21	12 28.32	+ 1 13.9	1.972	2.912	8.5	20.5
5 1	12 22.65	+ 1 39.4	2.036	2.909	11.9	20.7
5 11	12 18.96	+ 1 50.1	2.122	2.906	14.7	20.9

469126 2015 EB_{16} 4 1.3 273°.82 3°.3/29.1 17

3 2	13 4.40	+ 2 42.7	1.892	2.774	11.3	21.1
3 12	12 58.96	+ 3 34.4	1.822	2.766	7.9	20.9
3 22	12 51.75	+ 4 29.3	1.777	2.758	4.5	20.6
4 1	12 43.52	+ 5 21.0	1.760	2.750	3.6	20.6
4 11	12 35.23	+ 6 3.1	1.771	2.742	6.5	20.7
4 21	12 27.80	+ 6 30.6	1.808	2.733	10.1	20.9
5 1	12 22.00	+ 6 40.6	1.869	2.725	13.5	21.1
5 11	12 18.35	+ 6 32.6	1.949	2.717	16.4	21.3

111084 2001 VK_{58} 4 1.3 198°.37 3°.9/28.9 17

3 2	13 9.33	+ 6 4.7	2.066	2.939	10.9	19.8
3 12	13 2.23	+ 6 36.2	1.998	2.937	7.7	19.6
3 22	12 53.38	+ 7 6.6	1.958	2.934	4.8	19.4
4 1	12 43.57	+ 7 30.4	1.946	2.930	4.1	19.4
4 11	12 33.76	+ 7 43.0	1.963	2.926	6.6	19.5
4 21	12 24.87	+ 7 41.3	2.007	2.922	9.9	19.7
5 1	12 17.65	+ 7 24.1	2.076	2.917	13.0	19.9
5 11	12 12.58	+ 6 51.8	2.166	2.912	15.6	20.1

218723 2005 UY_{140} 4 1.3 72°.38 1°.6/30.8 18

3 2	13 3.98	− 3 50.2	1.667	2.545	12.8	19.9
3 12	12 58.64	− 2 43.6	1.618	2.561	8.8	19.7
3 22	12 51.53	− 1 27.7	1.594	2.578	4.4	19.5
4 1	12 43.52	− 0 9.8	1.597	2.595	1.7	19.3
4 11	12 35.67	+ 1 1.9	1.628	2.611	5.4	19.6
4 21	12 28.92	+ 2 0.7	1.686	2.628	9.5	19.9
5 1	12 23.99	+ 2 42.1	1.767	2.644	13.1	20.1
5 11	12 21.29	+ 3 4.2	1.868	2.661	16.1	20.4

497338 2005 UN_{48} 4 1.3 204°.01 0°.4/31.9 17

3 2	13 4.93	− 5 58.5	2.316	3.174	10.5	23.6
3 12	12 59.10	− 5 13.5	2.235	3.169	7.3	23.4
3 22	12 51.75	− 4 19.0	2.182	3.163	3.8	23.1
4 1	12 43.54	− 3 19.3	2.157	3.156	0.4	22.9
4 11	12 35.27	− 2 19.8	2.163	3.149	3.9	23.1
4 21	12 27.70	− 1 25.8	2.197	3.141	7.5	23.3
5 1	12 21.51	− 0 41.9	2.258	3.132	10.8	23.5
5 11	12 17.15	− 0 11.0	2.341	3.123	13.6	23.7

139996 2001 SC_{37} 4 1.3 112°.98 0°.8/31.6 18

3 2	13 6.57	− 4 22.9	1.862	2.731	12.2	20.6
3 12	13 0.36	− 3 48.5	1.805	2.743	8.4	20.4
3 22	12 52.41	− 3 5.6	1.772	2.755	4.3	20.1
4 1	12 43.56	− 2 19.1	1.768	2.767	0.8	19.9
4 11	12 34.80	− 1 35.1	1.792	2.778	4.6	20.2
4 21	12 27.06	− 0 58.8	1.844	2.789	8.6	20.4
5 1	12 21.06	− 0 34.4	1.920	2.800	12.1	20.7
5 11	12 17.25	− 0 24.0	2.017	2.811	15.1	20.9

241411 2008 UK_{113} 4 1.3 209°.93 1°.6/ 3.0 17

3 2	13 4.12	−11 44.3	2.164	3.008	11.7	20.9
3 12	12 58.64	−11 21.9	2.084	3.005	8.5	20.7
3 22	12 51.55	−10 45.8	2.029	3.002	5.0	20.4
4 1	12 43.54	− 9 59.0	2.002	2.998	1.8	20.2
4 11	12 35.45	− 9 6.3	2.003	2.994	3.6	20.3
4 21	12 28.12	− 8 13.2	2.033	2.990	7.2	20.5
5 1	12 22.26	− 7 25.3	2.090	2.985	10.6	20.7
5 11	12 18.35	− 6 47.0	2.168	2.980	13.6	20.9

313597 2003 ON_{8} 4 1.3 235°.23 0°.8/ 2.0 16

3 2	13 8.16	− 8 46.2	1.911	2.764	12.6	21.6
3 12	13 1.74	− 8 22.3	1.821	2.750	9.1	21.3
3 22	12 53.30	− 7 44.9	1.756	2.734	5.0	21.0
4 1	12 43.60	− 6 57.8	1.720	2.718	0.9	20.7
4 11	12 33.66	− 6 6.2	1.712	2.701	4.2	20.9
4 21	12 24.53	− 5 16.7	1.732	2.684	8.6	21.1
5 1	12 17.12	− 4 35.0	1.777	2.665	12.6	21.3
5 11	12 12.04	− 4 5.7	1.844	2.646	16.0	21.5

231758 1999 TO_{320} 4 1.3 93°.70 1°.9/ 3.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 6.24	−12 2.0	2.026	2.869	12.4	20.4
3 12	13 0.04	−11 49.6	1.967	2.887	9.1	20.2
3 22	12 52.22	−11 23.6	1.933	2.905	5.4	20.0
4 1	12 43.56	−10 46.7	1.927	2.923	2.1	19.8
4 11	12 35.00	−10 3.9	1.950	2.940	3.7	19.9
4 21	12 27.40	− 9 20.6	2.001	2.957	7.3	20.2
5 1	12 21.44	− 8 41.9	2.077	2.974	10.6	20.4
5 11	12 17.56	− 8 12.2	2.176	2.991	13.4	20.6

87698 2000 SK_{15} 4 1.3 185°.48 2°.7/ 4.4 18

3 2	13 3.39	−16 27.4	2.104	2.931	12.6	19.6
3 12	12 58.16	−15 44.2	2.023	2.932	9.5	19.4
3 22	12 51.31	−14 42.1	1.967	2.931	6.0	19.2
4 1	12 43.53	−13 24.2	1.939	2.931	3.0	19.0
4 11	12 35.73	−11 56.6	1.940	2.929	3.8	19.0
4 21	12 28.73	−10 26.7	1.969	2.928	7.2	19.2
5 1	12 23.26	− 9 1.8	2.025	2.926	10.6	19.4
5 11	12 19.78	− 7 48.1	2.104	2.924	13.7	19.6

165545 2001 DE_{36} 4 1.3 81°.55 0°.3/ 1.1 18

3 2	13 7.28	− 6 56.6	1.493	2.364	14.5	19.9
3 12	13 1.06	− 6 8.4	1.447	2.385	10.1	19.6
3 22	12 52.81	− 5 7.2	1.425	2.407	5.2	19.4
4 1	12 43.58	− 3 59.6	1.429	2.428	0.3	19.1
4 11	12 34.58	− 2 53.9	1.461	2.450	5.0	19.5
4 21	12 26.91	− 1 57.8	1.519	2.471	9.6	19.8
5 1	12 21.36	− 1 16.6	1.601	2.491	13.6	20.1
5 11	12 18.34	− 0 53.2	1.702	2.511	16.8	20.3

241688 2000 SF_{26} 4 1.3 195°.24 2°.0/ 4.4 17

3 2	13 1.66	−15 31.0	3.264	4.079	8.9	21.5
3 12	12 56.51	−15 3.0	3.174	4.076	6.7	21.4
3 22	12 50.31	−14 23.5	3.111	4.072	4.3	21.2
4 1	12 43.51	−13 34.4	3.077	4.067	2.2	21.0
4 11	12 36.67	−12 38.9	3.075	4.062	2.7	21.1
4 21	12 30.33	−11 40.9	3.102	4.057	5.1	21.2
5 1	12 24.95	−10 44.5	3.158	4.051	7.5	21.4
5 11	12 20.89	− 9 53.4	3.239	4.044	9.7	21.5

299874 2006 SU_{297} 4 1.3 250°.25 1°.5/30.8 17

3 2	13 5.04	− 0 53.9	2.371	3.240	9.9	21.0
3 12	12 59.16	− 0 31.5	2.290	3.229	6.9	20.8
3 22	12 51.80	− 0 4.6	2.235	3.218	3.6	20.5
4 1	12 43.56	+ 0 22.8	2.210	3.207	1.5	20.4
4 11	12 35.23	+ 0 46.6	2.214	3.195	4.4	20.5
4 21	12 27.57	+ 1 3.1	2.247	3.184	7.8	20.7
5 1	12 21.24	+ 1 9.6	2.305	3.172	10.9	20.9
5 11	12 16.72	+ 1 4.4	2.385	3.160	13.5	21.1

140550 2001 TY_{198} 4 1.3 87°.03 4°.1/28.2 18

3 2	13 4.95	+ 6 54.1	2.152	3.032	10.2	19.6
3 12	12 59.10	+ 7 34.7	2.093	3.034	7.3	19.4
3 22	12 51.73	+ 8 13.6	2.061	3.036	4.7	19.3
4 1	12 43.55	+ 8 45.5	2.057	3.038	4.3	19.3
4 11	12 35.43	+ 9 5.5	2.082	3.041	6.6	19.4
4 21	12 28.15	+ 9 10.7	2.132	3.043	9.6	19.6
5 1	12 22.37	+ 9 0.0	2.207	3.045	12.4	19.8
5 11	12 18.50	+ 8 33.7	2.302	3.047	14.8	20.0

309401 2007 TW_{237} 4 1.3 187°.04 1°.2/ 2.4 17

3 2	13 6.34	−10 30.4	1.598	2.457	14.3	21.2
3 12	13 0.59	− 9 56.0	1.527	2.457	10.3	20.9
3 22	12 52.70	− 9 4.3	1.480	2.457	5.8	20.7
4 1	12 43.58	− 7 59.9	1.458	2.457	1.4	20.4
4 11	12 34.41	− 6 50.3	1.465	2.456	4.5	20.6
4 21	12 26.30	− 5 43.6	1.497	2.454	9.2	20.8
5 1	12 20.19	− 4 47.3	1.554	2.453	13.4	21.1
5 11	12 16.63	− 4 6.5	1.632	2.451	17.0	21.3

435250 2007 TX_{55} 4 1.3 175°.29 1°.3/30.9 17

3 2	13 5.26	− 1 28.1	2.438	3.304	9.7	21.6
3 12	12 59.21	− 1 4.6	2.368	3.306	6.7	21.4
3 22	12 51.77	− 0 36.5	2.324	3.307	3.4	21.2
4 1	12 43.56	− 0 7.7	2.311	3.308	1.3	21.0
4 11	12 35.36	+ 0 17.7	2.327	3.308	4.1	21.2
4 21	12 27.87	+ 0 36.4	2.371	3.309	7.4	21.4
5 1	12 21.70	+ 0 45.5	2.442	3.309	10.4	21.6
5 11	12 17.29	+ 0 43.7	2.535	3.308	12.9	21.8

498645 2008 SZ_{43} 4 1.3 163°.92 0°.6/ 2.0 17

3 2	13 3.03	− 9 40.0	2.349	3.199	10.7	22.1
3 12	12 57.71	− 8 51.6	2.277	3.204	7.6	21.9
3 22	12 51.01	− 7 51.3	2.230	3.208	4.1	21.6
4 1	12 43.54	− 6 43.2	2.212	3.211	0.7	21.4
4 11	12 36.08	− 5 32.9	2.225	3.214	3.4	21.6
4 21	12 29.35	− 4 26.1	2.266	3.217	6.9	21.8
5 1	12 23.96	− 3 27.8	2.334	3.219	10.1	22.0
5 11	12 20.31	− 2 41.6	2.424	3.221	12.8	22.2

336314 2008 TC_{45} 4 1.3 188°.53 0°.5/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 4.78	− 4 46.3	2.418	3.278	10.0	21.4
3 12	12 58.92	− 4 14.9	2.343	3.278	7.0	21.2
3 22	12 51.64	− 3 36.1	2.295	3.276	3.6	21.0
4 1	12 43.56	− 2 53.6	2.276	3.275	0.5	20.8
4 11	12 35.46	− 2 12.0	2.286	3.272	3.8	21.0
4 21	12 28.06	− 1 35.7	2.326	3.270	7.2	21.2
5 1	12 21.98	− 1 8.3	2.392	3.267	10.3	21.4
5 11	12 17.66	− 0 52.0	2.480	3.263	12.9	21.6

135916 2002 TN_{139} 4 1.3 186°.48 2°.8/ 4.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.05	−15 3.7	2.133	2.960	12.5	20.1
3 12	13 0.73	−14 51.9	2.052	2.960	9.4	19.9
3 22	12 52.67	−14 23.9	1.995	2.959	6.0	19.7
4 1	12 43.60	−13 41.8	1.967	2.958	3.1	19.5
4 11	12 34.45	−12 50.1	1.967	2.956	4.0	19.6
4 21	12 26.12	−11 54.3	1.997	2.953	7.3	19.8
5 1	12 19.38	−11 0.7	2.052	2.950	10.7	20.0
5 11	12 14.74	−10 14.8	2.131	2.946	13.7	20.2

151279 2002 AY_{184} 4 1.3 132°.18 5°.9/25.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.42	+10 26.7	1.956	2.839	11.0	20.1
3 12	12 59.50	+11 46.9	1.911	2.848	8.1	19.9
3 22	12 51.96	+13 2.4	1.892	2.857	6.1	19.8
4 1	12 43.58	+14 5.5	1.900	2.865	6.4	19.9
4 11	12 35.32	+14 49.9	1.936	2.873	8.6	20.0
4 21	12 28.03	+15 12.6	1.997	2.881	11.5	20.2
5 1	12 22.41	+15 12.7	2.081	2.889	14.1	20.4
5 11	12 18.86	+14 52.2	2.182	2.896	16.4	20.6

505189 2012 TL_{126} 4 1.3 54°.78 0°.8/31.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.08	− 3 2.0	2.002	2.871	11.4	21.1
3 12	12 59.99	− 2 50.7	1.939	2.877	7.9	20.9
3 22	12 52.24	− 2 33.3	1.901	2.883	4.0	20.7
4 1	12 43.59	− 2 13.4	1.891	2.890	0.8	20.4
4 11	12 34.98	− 1 55.6	1.910	2.896	4.3	20.7
4 21	12 27.26	− 1 43.7	1.956	2.902	8.1	20.9
5 1	12 21.17	− 1 40.8	2.028	2.909	11.5	21.2
5 11	12 17.14	− 1 48.8	2.121	2.916	14.4	21.4

370947 2005 SM_{42} 4 1.3 273°.43 1°.9/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.67	−11 55.7	1.730	2.583	13.7	21.3
3 12	12 59.34	−11 32.8	1.654	2.580	10.0	21.1
3 22	12 52.04	−10 53.0	1.603	2.577	5.9	20.8
4 1	12 43.58	− 9 59.7	1.577	2.574	2.1	20.6
4 11	12 35.04	− 8 59.1	1.580	2.571	4.2	20.7
4 21	12 27.44	− 7 58.5	1.609	2.568	8.5	21.0
5 1	12 21.66	− 7 4.9	1.662	2.565	12.4	21.2
5 11	12 18.24	− 6 23.7	1.737	2.562	15.9	21.4

269786 1999 TV_{229} 4 1.3 210°.65 0°.1/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.27	− 7 55.0	2.073	2.933	11.5	21.5
3 12	12 58.08	− 7 7.6	1.997	2.930	8.1	21.3
3 22	12 51.28	− 6 8.2	1.947	2.927	4.3	21.1
4 1	12 43.56	− 5 1.2	1.924	2.923	0.2	20.7
4 11	12 35.81	− 3 53.0	1.931	2.919	3.9	21.0
4 21	12 28.83	− 2 49.8	1.965	2.915	7.9	21.2
5 1	12 23.33	− 1 57.1	2.025	2.911	11.4	21.5
5 11	12 19.80	− 1 18.4	2.107	2.906	14.3	21.6

437654 2014 BS_{63} 4 1.3 99°.23 5°.5/25.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.66	+12 2.6	2.375	3.255	9.4	20.7
3 12	12 57.35	+13 21.6	2.338	3.271	7.1	20.5
3 22	12 50.76	+14 35.0	2.328	3.286	5.6	20.5
4 1	12 43.55	+15 36.4	2.346	3.302	6.0	20.5
4 11	12 36.46	+16 21.1	2.392	3.317	7.8	20.7
4 21	12 30.16	+16 46.5	2.463	3.332	10.1	20.8
5 1	12 25.21	+16 52.1	2.557	3.347	12.3	21.0
5 11	12 21.95	+16 39.3	2.670	3.361	14.1	21.2

299475 2006 BQ_{140} 4 1.3 103°.17 3°.6/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.46	− 0 7.6	1.427	2.315	13.9	20.6
3 12	12 59.97	+ 1 22.3	1.376	2.324	9.5	20.4
3 22	12 52.35	+ 2 59.8	1.350	2.333	5.2	20.1
4 1	12 43.60	+ 4 34.7	1.350	2.342	3.9	20.1
4 11	12 34.97	+ 5 56.6	1.377	2.350	7.5	20.3
4 21	12 27.60	+ 6 57.6	1.428	2.359	11.9	20.6
5 1	12 22.33	+ 7 33.9	1.502	2.367	15.8	20.8
5 11	12 19.66	+ 7 45.2	1.593	2.375	18.9	21.1

350389 2012 VM_{11} 4 1.3 201°.91 3°.5/28.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.75	+ 5 17.4	2.317	3.194	9.7	21.4
3 12	12 58.92	+ 5 58.5	2.251	3.192	6.8	21.2
3 22	12 51.65	+ 6 39.6	2.213	3.190	4.2	21.0
4 1	12 43.59	+ 7 15.6	2.203	3.187	3.7	21.0
4 11	12 35.53	+ 7 41.8	2.222	3.185	6.0	21.1
4 21	12 28.22	+ 7 55.0	2.268	3.182	8.9	21.3
5 1	12 22.30	+ 7 53.5	2.339	3.179	11.7	21.5
5 11	12 18.19	+ 7 37.1	2.430	3.176	14.1	21.6

347655 2001 TU_{153} 4 1.3 168°.57 2°.4/ 4.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 2.83	−16 23.5	3.074	3.885	9.4	22.1
3 12	12 57.36	−16 5.0	2.992	3.890	7.2	22.0
3 22	12 50.77	−15 34.3	2.937	3.894	4.7	21.8
4 1	12 43.56	−14 53.1	2.911	3.898	2.6	21.7
4 11	12 36.34	−14 4.6	2.915	3.901	3.0	21.7
4 21	12 29.68	−13 12.8	2.949	3.904	5.3	21.8
5 1	12 24.08	−12 21.7	3.011	3.906	7.8	22.0
5 11	12 19.90	−11 35.4	3.098	3.907	10.0	22.2

259526 2003 UL_{40} 4 1.3 195°.82 1°.5/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.60	− 2 32.1	2.019	2.886	11.4	21.5
3 12	13 1.12	− 1 49.6	1.945	2.883	7.9	21.3
3 22	12 52.88	− 0 59.8	1.897	2.880	4.1	21.1
4 1	12 43.63	− 0 7.7	1.878	2.876	1.5	20.9
4 11	12 34.33	+ 0 40.6	1.889	2.871	4.9	21.1
4 21	12 25.89	+ 1 19.8	1.928	2.865	8.8	21.3
5 1	12 19.09	+ 1 46.0	1.991	2.859	12.3	21.5
5 11	12 14.42	+ 1 57.1	2.076	2.852	15.3	21.7

299359 2005 SG_{259} 4 1.3 195°.83 3°.1/28.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.58	+ 6 30.7	2.900	3.771	8.2	21.0
3 12	12 58.58	+ 7 1.5	2.832	3.769	5.8	20.8
3 22	12 51.40	+ 7 31.1	2.791	3.766	3.7	20.7
4 1	12 43.58	+ 7 55.9	2.781	3.763	3.3	20.6
4 11	12 35.77	+ 8 12.3	2.800	3.759	5.1	20.7
4 21	12 28.57	+ 8 18.0	2.848	3.755	7.6	20.9
5 1	12 22.49	+ 8 11.8	2.922	3.751	9.9	21.0
5 11	12 17.90	+ 7 53.6	3.018	3.746	11.9	21.2

301656 2010 EW_{128} 4 1.3 345°.81 0°.5/ 1.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.26	− 8 43.9	1.136	2.021	16.9	20.9
3 12	12 59.04	− 8 3.8	1.071	2.015	12.1	20.6
3 22	12 52.14	− 7 2.7	1.028	2.010	6.5	20.3
4 1	12 43.61	− 5 47.4	1.007	2.006	0.7	19.8
4 11	12 34.97	− 4 28.6	1.011	2.003	5.7	20.2
4 21	12 27.66	− 3 17.5	1.038	2.000	11.5	20.5
5 1	12 22.85	− 2 23.4	1.085	1.998	16.6	20.8
5 11	12 21.15	− 1 51.8	1.150	1.997	20.9	21.0

372930 2011 BZ_{28} 4 1.3 9°.29 1°.8/30.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.16	− 2 5.1	1.546	2.428	13.4	20.9
3 12	12 59.75	− 1 30.0	1.484	2.429	9.3	20.7
3 22	12 52.27	− 0 47.1	1.446	2.430	4.7	20.4
4 1	12 43.62	− 0 2.3	1.434	2.431	1.9	20.2
4 11	12 34.97	+ 0 37.2	1.449	2.433	5.8	20.5
4 21	12 27.43	+ 1 5.5	1.489	2.435	10.2	20.8
5 1	12 21.86	+ 1 18.4	1.552	2.437	14.2	21.0
5 11	12 18.79	+ 1 14.3	1.634	2.440	17.5	21.2

208433 2001 TX_{84} 4 1.3 302°.92 1°.4/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.48	−11 52.3	2.163	3.012	11.5	19.9
3 12	12 56.79	−11 12.6	2.086	3.010	8.4	19.7
3 22	12 50.61	−10 18.4	2.033	3.008	4.8	19.4
4 1	12 43.57	− 9 13.5	2.009	3.006	1.6	19.2
4 11	12 36.49	− 8 3.4	2.013	3.004	3.5	19.3
4 21	12 30.15	− 6 54.5	2.045	3.002	7.1	19.6
5 1	12 25.21	− 5 52.6	2.103	3.000	10.5	19.8
5 11	12 22.12	− 5 2.3	2.184	2.998	13.4	20.0

17727 1997 YU_{11} 4 1.3 176°.89 0°.7/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.21	− 4 16.5	1.749	2.616	12.9	18.1
3 12	13 2.43	− 3 53.3	1.680	2.618	9.0	17.8
3 22	12 53.63	− 3 21.1	1.637	2.619	4.6	17.6
4 1	12 43.68	− 2 44.5	1.621	2.620	0.7	17.3
4 11	12 33.70	− 2 9.4	1.633	2.620	4.9	17.6
4 21	12 24.77	− 1 41.3	1.673	2.620	9.2	17.8
5 1	12 17.75	− 1 24.5	1.738	2.619	13.1	18.1
5 11	12 13.18	− 1 21.5	1.822	2.618	16.4	18.3

94695 2001 XN_{35} 4 1.3 111°.13 10°.5/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.98	−37 55.3	2.004	2.697	17.5	18.8
3 12	13 1.08	−38 23.2	1.928	2.707	15.5	18.6
3 22	12 53.00	−38 19.4	1.871	2.716	13.4	18.5
4 1	12 43.65	−37 41.2	1.834	2.726	11.6	18.4
4 11	12 34.26	−36 30.0	1.820	2.735	10.5	18.4
4 21	12 26.00	−34 52.1	1.831	2.743	10.8	18.4
5 1	12 19.79	−32 57.0	1.866	2.752	12.2	18.5
5 11	12 16.20	−30 56.1	1.924	2.760	14.1	18.6

258490 2002 AQ_{45} 4 1.3 332°.73 3°.2/29.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.51	− 1 29.9	1.172	2.071	15.4	19.7
3 12	12 58.46	− 0 18.8	1.107	2.060	10.7	19.4
3 22	12 51.82	+ 1 4.9	1.064	2.050	5.6	19.0
4 1	12 43.62	+ 2 31.1	1.045	2.041	3.4	18.9
4 11	12 35.27	+ 3 47.6	1.050	2.032	7.9	19.1
4 21	12 28.18	+ 4 44.4	1.078	2.024	13.2	19.4
5 1	12 23.45	+ 5 15.3	1.126	2.017	18.0	19.6
5 11	12 21.74	+ 5 18.7	1.190	2.011	21.9	19.9

89593 2001 XC_{147} 4 1.3 272°.81 5°.2/26.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 3.52	+10 44.9	2.317	3.197	9.6	19.8
3 12	12 58.17	+11 46.0	2.245	3.180	7.2	19.6
3 22	12 51.32	+12 44.0	2.199	3.164	5.4	19.5
4 1	12 43.61	+13 32.7	2.182	3.147	5.7	19.4
4 11	12 35.81	+14 6.6	2.192	3.130	7.7	19.5
4 21	12 28.69	+14 22.5	2.228	3.113	10.4	19.7
5 1	12 22.93	+14 19.1	2.287	3.096	13.0	19.8
5 11	12 18.98	+13 57.0	2.366	3.078	15.2	20.0

13237 1998 HC_{98} 4 1.3 287°.05 0°.8/ 1.8 17

3 2	13 9.38	− 7 22.2	1.320	2.193	15.9	18.6
3 12	13 3.48	− 7 16.6	1.230	2.168	11.5	18.2
3 22	12 54.63	− 6 55.9	1.161	2.142	6.3	17.9
4 1	12 43.73	− 6 23.4	1.118	2.117	0.9	17.4
4 11	12 32.22	− 5 45.5	1.100	2.091	5.6	17.7
4 21	12 21.69	− 5 10.2	1.107	2.065	11.5	17.9
5 1	12 13.55	− 4 45.0	1.135	2.039	16.9	18.1
5 11	12 8.70	− 4 35.8	1.182	2.013	21.4	18.3

380052 2013 RR_{72} 4 1.3 347°.11 0°.5/ 1.8 17

3 2	13 1.30	−10 44.0	1.663	2.528	13.6	20.2
3 12	12 57.00	− 9 27.1	1.592	2.526	9.7	20.0
3 22	12 50.82	− 7 50.9	1.544	2.524	5.2	19.7
4 1	12 43.59	− 6 2.2	1.524	2.523	0.6	19.3
4 11	12 36.33	− 4 10.6	1.531	2.522	4.5	19.6
4 21	12 30.03	− 2 26.2	1.566	2.521	9.0	19.9
5 1	12 25.48	− 0 57.4	1.625	2.520	13.1	20.1
5 11	12 23.19	+ 0 10.7	1.705	2.520	16.6	20.4

324455 2006 UH_{1} 4 1.3 64°.58 2°.4/ 3.1 18

3 2	13 11.23	−11 1.6	1.470	2.325	15.6	20.4
3 12	13 3.87	−11 11.9	1.426	2.352	11.3	20.2
3 22	12 54.31	−11 6.0	1.406	2.379	6.6	20.0
4 1	12 43.70	−10 46.7	1.411	2.407	2.6	19.8
4 11	12 33.39	−10 19.6	1.444	2.434	4.7	20.0
4 21	12 24.54	− 9 51.1	1.503	2.462	9.0	20.3
5 1	12 18.02	− 9 27.3	1.586	2.489	12.9	20.6
5 11	12 14.25	− 9 12.9	1.689	2.516	16.2	20.9

39235 2000 YH_{55} 4 1.3 261°.42 7°.8/23.8 18

3 2	13 7.64	+14 16.9	1.860	2.738	11.7	18.6
3 12	13 1.50	+15 57.3	1.784	2.712	9.2	18.4
3 22	12 53.25	+17 33.0	1.734	2.686	7.9	18.3
4 1	12 43.68	+18 54.0	1.711	2.658	8.6	18.3
4 11	12 33.86	+19 51.5	1.715	2.630	11.1	18.4
4 21	12 24.86	+20 20.8	1.743	2.600	14.1	18.5
5 1	12 17.65	+20 20.7	1.791	2.570	17.1	18.6
5 11	12 12.83	+19 53.3	1.855	2.540	19.7	18.8

21076 Kokoschka 4 1.3 231°.23 0°.8/ 2.1 17

3 2	13 6.65	− 9 24.6	2.002	2.854	12.2	20.1
3 12	13 0.61	− 8 53.5	1.914	2.841	8.8	19.9
3 22	12 52.71	− 8 8.7	1.850	2.828	4.9	19.6
4 1	12 43.67	− 7 13.8	1.815	2.814	1.0	19.3
4 11	12 34.45	− 6 14.5	1.809	2.799	4.0	19.5
4 21	12 26.00	− 5 17.2	1.831	2.784	8.2	19.7
5 1	12 19.16	− 4 27.8	1.879	2.768	12.0	19.9
5 11	12 14.50	− 3 50.8	1.949	2.751	15.2	20.1

377610 2005 RU_{43} 4 1.3 220°.34 0°.7/ 2.1 17

3 2	13 5.33	− 9 31.4	2.210	3.059	11.3	22.9
3 12	12 59.52	− 8 55.4	2.123	3.049	8.1	22.7
3 22	12 52.07	− 8 6.8	2.062	3.039	4.5	22.5
4 1	12 43.65	− 7 9.1	2.030	3.028	0.9	22.2
4 11	12 35.11	− 6 7.6	2.027	3.017	3.6	22.4
4 21	12 27.28	− 5 8.2	2.053	3.004	7.5	22.6
5 1	12 20.89	− 4 16.4	2.105	2.991	11.0	22.8
5 11	12 16.46	− 3 36.3	2.180	2.978	14.0	23.0

420814 2013 HW_{27} 4 1.3 301°.69 2°.0/ 2.9 17

3 2	13 3.92	−12 6.9	1.403	2.267	15.6	21.0
3 12	12 59.32	−11 37.9	1.319	2.251	11.5	20.7
3 22	12 52.28	−10 46.9	1.258	2.234	6.8	20.4
4 1	12 43.66	− 9 37.8	1.221	2.218	2.3	20.0
4 11	12 34.75	− 8 18.4	1.210	2.202	4.9	20.1
4 21	12 26.85	− 6 58.7	1.224	2.187	10.1	20.4
5 1	12 21.10	− 5 48.5	1.261	2.171	15.0	20.6
5 11	12 18.19	− 4 55.3	1.316	2.156	19.1	20.8

284269 2006 HF_{84} 4 1.3 289°.48 2°.5/ 4.1 17

3 2	13 2.31	−15 48.4	2.052	2.885	12.7	20.8
3 12	12 57.68	−15 3.6	1.944	2.856	9.6	20.6
3 22	12 51.24	−13 58.0	1.860	2.826	6.1	20.3
4 1	12 43.63	−12 34.1	1.803	2.796	2.9	20.0
4 11	12 35.73	−10 57.8	1.775	2.765	3.9	20.0
4 21	12 28.47	− 9 16.9	1.775	2.735	7.8	20.2
5 1	12 22.68	− 7 40.0	1.802	2.704	11.7	20.4
5 11	12 18.96	− 6 14.5	1.851	2.673	15.2	20.5

283559 2001 VW_{32} 4 1.3 102°.57 2°.0/ 3.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 3.06	−14 17.0	2.561	3.389	10.6	20.9
3 12	12 57.62	−13 51.5	2.498	3.408	7.8	20.7
3 22	12 50.93	−13 13.1	2.461	3.427	4.8	20.5
4 1	12 43.61	−12 24.5	2.453	3.446	2.3	20.4
4 11	12 36.37	−11 30.0	2.475	3.464	3.1	20.5
4 21	12 29.86	−10 34.4	2.525	3.482	6.0	20.7
5 1	12 24.61	− 9 42.4	2.603	3.499	8.8	20.9
5 11	12 21.00	− 8 58.0	2.704	3.516	11.2	21.1

368568 2004 GY_{46} 4 1.3 212°.51 0°.9/ 2.3 17

3 2	13 4.00	−10 55.6	1.983	2.834	12.3	21.8
3 12	12 58.70	−10 2.4	1.902	2.829	8.9	21.6
3 22	12 51.67	− 8 53.2	1.847	2.823	4.9	21.3
4 1	12 43.64	− 7 32.6	1.819	2.818	1.1	21.0
4 11	12 35.54	− 6 7.7	1.821	2.811	3.9	21.2
4 21	12 28.26	− 4 45.8	1.851	2.805	8.0	21.4
5 1	12 22.55	− 3 33.8	1.907	2.798	11.7	21.6
5 11	12 18.93	− 2 36.7	1.984	2.790	14.9	21.8

221281 2005 US_{351} 4 1.3 270°.41 1°.9/ 2.9 17

3 2	13 5.81	−11 26.5	1.800	2.651	13.3	20.6
3 12	13 0.24	−11 13.3	1.712	2.636	9.8	20.3
3 22	12 52.61	−10 44.4	1.647	2.621	5.8	20.0
4 1	12 43.69	−10 2.4	1.610	2.606	2.1	19.8
4 11	12 34.53	− 9 12.6	1.600	2.591	4.2	19.9
4 21	12 26.20	− 8 21.4	1.617	2.575	8.5	20.1
5 1	12 19.63	− 7 35.5	1.659	2.559	12.6	20.3
5 11	12 15.44	− 7 0.5	1.722	2.544	16.1	20.5

423225 2004 RR_{227} 4 1.3 223°.68 0°.9/ 2.3 17

3 2	13 4.92	− 9 41.5	2.258	3.106	11.1	22.0
3 12	12 59.21	− 9 13.1	2.172	3.097	8.0	21.8
3 22	12 51.91	− 8 32.6	2.111	3.087	4.5	21.6
4 1	12 43.66	− 7 43.2	2.079	3.077	1.0	21.3
4 11	12 35.30	− 6 49.8	2.076	3.066	3.5	21.5
4 21	12 27.64	− 5 57.8	2.102	3.055	7.2	21.7
5 1	12 21.38	− 5 12.3	2.155	3.043	10.7	21.9
5 11	12 17.02	− 4 37.2	2.229	3.031	13.6	22.0

457578 2008 YB_{155} 4 1.3 220°.46 13°.6/13.9 16

3 2	13 14.46	−42 7.4	1.977	2.628	18.9	22.3
3 12	13 7.03	−43 33.8	1.886	2.620	17.3	22.2
3 22	12 56.51	−44 29.6	1.812	2.611	15.7	22.0
4 1	12 43.84	−44 47.6	1.757	2.601	14.4	21.9
4 11	12 30.50	−44 25.0	1.723	2.590	13.7	21.8
4 21	12 18.17	−43 24.4	1.711	2.579	13.9	21.8
5 1	12 8.32	−41 54.1	1.722	2.567	15.0	21.9
5 11	12 1.86	−40 6.3	1.752	2.555	16.7	21.9

286045 2001 SM_{218} 4 1.3 77°.74 1°.6/30.3 18

3 2	13 1.68	− 3 17.0	2.166	3.039	10.5	20.8
3 12	12 56.77	− 1 57.2	2.117	3.059	7.1	20.6
3 22	12 50.53	− 0 30.5	2.096	3.079	3.6	20.4
4 1	12 43.63	+ 0 56.8	2.103	3.099	1.8	20.3
4 11	12 36.86	+ 2 17.8	2.140	3.120	4.7	20.5
4 21	12 30.92	+ 3 26.8	2.205	3.139	8.1	20.8
5 1	12 26.37	+ 4 20.1	2.296	3.159	11.1	21.0
5 11	12 23.56	+ 4 55.9	2.407	3.179	13.5	21.2

231852 2000 SX_{94} 4 1.3 151°.46 2°.3/ 3.9 18

3 2	13 5.29	−14 32.1	2.307	3.136	11.6	21.4
3 12	12 59.36	−14 8.3	2.235	3.145	8.6	21.2
3 22	12 51.93	−13 29.8	2.187	3.153	5.4	21.0
4 1	12 43.68	−12 39.1	2.168	3.160	2.6	20.9
4 11	12 35.45	−11 41.0	2.178	3.167	3.5	20.9
4 21	12 28.01	−10 40.9	2.217	3.174	6.7	21.1
5 1	12 22.01	− 9 44.4	2.284	3.180	9.8	21.3
5 11	12 17.88	− 8 56.2	2.373	3.185	12.5	21.5

427772 2004 VK_{22} 4 1.3 126°.57 5°.3/26.9 18

3 2	13 7.73	+11 12.9	2.228	3.101	10.2	20.8
3 12	13 0.94	+12 0.3	2.182	3.115	7.5	20.6
3 22	12 52.68	+12 42.3	2.163	3.127	5.6	20.5
4 1	12 43.71	+13 13.2	2.173	3.140	5.6	20.5
4 11	12 34.89	+13 28.6	2.211	3.152	7.5	20.7
4 21	12 27.01	+13 26.6	2.276	3.163	10.1	20.8
5 1	12 20.70	+13 7.1	2.365	3.174	12.6	21.0
5 11	12 16.32	+12 31.7	2.473	3.185	14.7	21.2

177727 2005 JP 4 1.3 55°.07 1°.4/31.2 18

3 2	13 5.90	− 4 2.4	1.348	2.232	14.8	19.9
3 12	13 0.35	− 3 13.3	1.300	2.246	10.2	19.7
3 22	12 52.59	− 2 13.2	1.276	2.261	5.2	19.4
4 1	12 43.71	− 1 9.8	1.277	2.276	1.5	19.2
4 11	12 35.00	− 0 12.0	1.305	2.291	5.9	19.5
4 21	12 27.65	+ 0 32.9	1.357	2.307	10.7	19.9
5 1	12 22.53	+ 1 0.1	1.432	2.322	14.8	20.1
5 11	12 20.07	+ 1 7.7	1.525	2.338	18.2	20.4

12436 1996 BY_1 4 1.4 187°.29 2°.0/ 3.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 5.94	−12 41.6	2.436	3.268	10.9	18.3
3 12	12 59.82	−12 34.8	2.354	3.268	8.1	18.1
3 22	12 52.19	−12 15.9	2.299	3.267	4.9	17.9
4 1	12 43.70	−11 46.7	2.272	3.265	2.2	17.7
4 11	12 35.15	−11 10.7	2.274	3.263	3.4	17.8
4 21	12 27.29	−10 32.5	2.306	3.261	6.6	18.0
5 1	12 20.79	− 9 56.6	2.365	3.258	9.6	18.2
5 11	12 16.11	− 9 27.1	2.447	3.255	12.3	18.3

213018 1995 UD_{11} 4 1.4 252°.31 0°.7/ 2.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.01	− 9 5.1	1.731	2.591	13.4	21.1
3 12	13 0.40	− 8 31.7	1.646	2.578	9.6	20.9
3 22	12 52.71	− 7 43.1	1.586	2.565	5.3	20.6
4 1	12 43.72	− 6 43.3	1.552	2.551	0.9	20.2
4 11	12 34.53	− 5 39.0	1.547	2.537	4.4	20.5
4 21	12 26.22	− 4 37.8	1.568	2.523	9.1	20.7
5 1	12 19.73	− 3 46.5	1.614	2.508	13.3	20.9
5 11	12 15.67	− 3 10.0	1.680	2.493	16.8	21.1

343116 2009 DU_{132} 4 1.4 139°.02 1°.7/ 3.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.93	−11 37.6	2.484	3.321	10.6	21.3
3 12	12 59.02	−11 29.5	2.412	3.329	7.7	21.1
3 22	12 51.73	−11 10.2	2.366	3.337	4.6	20.9
4 1	12 43.69	−10 42.0	2.349	3.344	1.8	20.7
4 11	12 35.65	−10 8.6	2.362	3.351	3.2	20.8
4 21	12 28.32	− 9 34.0	2.403	3.358	6.3	21.0
5 1	12 22.31	− 9 2.5	2.471	3.364	9.3	21.2
5 11	12 18.04	− 8 37.7	2.563	3.370	11.9	21.4

382759 2003 LT_3 4 1.4 345°.27 13°.8/12.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	12 54.24	+24 24.0	1.299	2.193	14.6	18.9
3 12	12 52.64	+27 35.9	1.257	2.168	13.8	18.8
3 22	12 48.80	+30 28.8	1.237	2.144	14.6	18.7
4 1	12 43.59	+32 45.8	1.239	2.122	16.6	18.8
4 11	12 38.23	+34 15.6	1.260	2.102	19.2	18.9
4 21	12 33.94	+34 54.5	1.297	2.085	21.9	19.0
5 1	12 31.74	+34 44.5	1.347	2.070	24.3	19.2
5 11	12 32.23	+33 52.0	1.406	2.057	26.3	19.3

172037 2001 WZ_{32} 4 1.4 143°.83 3°.9/27.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.46	+ 7 54.3	2.631	3.507	8.7	20.8
3 12	12 57.87	+ 8 46.8	2.578	3.515	6.3	20.7
3 22	12 51.08	+ 9 37.3	2.552	3.523	4.3	20.5
4 1	12 43.67	+10 20.9	2.555	3.531	4.2	20.6
4 11	12 36.33	+10 53.3	2.588	3.538	6.1	20.7
4 21	12 29.67	+11 12.0	2.648	3.544	8.5	20.8
5 1	12 24.24	+11 15.6	2.732	3.551	10.8	21.0
5 11	12 20.38	+11 4.4	2.837	3.557	12.8	21.2

198430 2004 VB_{93} 4 1.4 194°.39 2°.4/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.54	−14 8.1	2.085	2.921	12.4	20.5
3 12	12 59.03	−13 48.3	2.006	2.920	9.2	20.3
3 22	12 51.85	−13 12.7	1.951	2.919	5.7	20.0
4 1	12 43.70	−12 23.7	1.924	2.917	2.7	19.8
4 11	12 35.49	−11 26.2	1.925	2.915	3.8	19.9
4 21	12 28.07	−10 26.3	1.955	2.913	7.3	20.1
5 1	12 22.20	− 9 30.2	2.010	2.911	10.7	20.3
5 11	12 18.35	− 8 43.1	2.088	2.908	13.7	20.5

258283 2001 UC_{37} 4 1.4 122°.26 8°.0/24.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.24	+17 36.2	1.923	2.795	11.7	20.2
3 12	13 1.50	+18 47.4	1.885	2.805	9.4	20.0
3 22	12 53.04	+19 46.6	1.874	2.816	8.1	20.0
4 1	12 43.74	+20 26.5	1.888	2.826	8.6	20.0
4 11	12 34.64	+20 42.1	1.929	2.836	10.5	20.2
4 21	12 26.66	+20 32.3	1.994	2.845	12.9	20.3
5 1	12 20.51	+19 58.6	2.079	2.854	15.2	20.5
5 11	12 16.58	+19 4.4	2.182	2.863	17.2	20.7

310452 2000 QT_6 4 1.4 208°.48 0°.5/ 1.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.45	− 8 10.9	1.963	2.816	12.3	21.8
3 12	13 1.87	− 7 42.4	1.881	2.810	8.8	21.6
3 22	12 53.39	− 7 1.6	1.824	2.802	4.8	21.4
4 1	12 43.77	− 6 12.2	1.795	2.794	0.6	21.0
4 11	12 34.01	− 5 19.8	1.796	2.785	4.1	21.3
4 21	12 25.11	− 4 30.5	1.825	2.775	8.3	21.5
5 1	12 17.91	− 3 49.9	1.880	2.765	12.1	21.7
5 11	12 12.96	− 3 21.9	1.956	2.753	15.4	21.9

376252 2011 EV_{85} 4 1.4 188°.40 3°.5/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.62	+ 3 39.0	1.962	2.842	11.1	20.4
3 12	12 59.77	+ 4 27.0	1.899	2.842	7.7	20.2
3 22	12 52.22	+ 5 16.7	1.861	2.841	4.5	20.0
4 1	12 43.74	+ 6 2.0	1.852	2.841	3.7	20.0
4 11	12 35.28	+ 6 36.9	1.871	2.840	6.4	20.1
4 21	12 27.71	+ 6 57.4	1.917	2.839	9.8	20.3
5 1	12 21.76	+ 7 1.1	1.987	2.838	13.0	20.5
5 11	12 17.89	+ 6 48.0	2.076	2.837	15.7	20.7

357352 2003 QE_{95} 4 1.4 218°.14 3°.0/29.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.19	+ 1 57.5	2.033	2.906	11.1	21.8
3 12	13 1.62	+ 2 49.7	1.956	2.896	7.7	21.6
3 22	12 53.24	+ 3 46.0	1.905	2.885	4.3	21.4
4 1	12 43.79	+ 4 40.2	1.883	2.873	3.2	21.3
4 11	12 34.22	+ 5 26.0	1.890	2.861	6.1	21.4
4 21	12 25.48	+ 5 58.6	1.925	2.848	9.7	21.6
5 1	12 18.36	+ 6 14.7	1.984	2.833	13.1	21.8
5 11	12 13.39	+ 6 13.5	2.064	2.818	16.0	22.0

194784 2001 YE_{83} 4 1.4 196°.61 5°.8/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.05	−22 22.3	1.889	2.686	15.0	20.6
3 12	13 2.50	−22 30.8	1.805	2.683	12.1	20.4
3 22	12 53.81	−22 15.9	1.742	2.680	8.9	20.1
4 1	12 43.81	−21 37.5	1.705	2.676	6.3	20.0
4 11	12 33.62	−20 39.1	1.695	2.672	6.1	20.0
4 21	12 24.39	−19 27.3	1.713	2.666	8.6	20.1
5 1	12 17.05	−18 10.8	1.757	2.660	11.8	20.3
5 11	12 12.22	−16 58.1	1.822	2.653	15.0	20.5

259706 2003 YP_{42} 4 1.4 68°.17 1°.4/31.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.37	− 3 51.9	1.455	2.335	14.2	21.1
3 12	13 0.57	− 3 2.0	1.407	2.351	9.8	20.8
3 22	12 52.69	− 2 2.1	1.384	2.368	4.9	20.6
4 1	12 43.77	− 0 59.4	1.386	2.385	1.5	20.4
4 11	12 35.04	− 0 2.1	1.416	2.401	5.7	20.7
4 21	12 27.59	+ 0 42.7	1.471	2.418	10.2	21.0
5 1	12 22.26	+ 1 10.6	1.548	2.435	14.2	21.3
5 11	12 19.46	+ 1 19.9	1.645	2.451	17.4	21.5

53259 1999 FQ_1 4 1.4 253°.46 1°.4/30.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.52	− 3 23.0	2.209	3.081	10.4	19.5
3 12	12 56.83	− 2 19.4	2.133	3.074	7.1	19.3
3 22	12 50.68	− 1 7.4	2.085	3.068	3.6	19.1
4 1	12 43.70	+ 0 7.5	2.065	3.062	1.5	18.9
4 11	12 36.68	+ 1 18.9	2.074	3.056	4.6	19.1
4 21	12 30.35	+ 2 21.0	2.111	3.049	8.2	19.3
5 1	12 25.37	+ 3 9.4	2.174	3.043	11.4	19.5
5 11	12 22.17	+ 3 41.5	2.257	3.036	14.1	19.7

50518 2000 DL_{109} 4 1.4 158°.08 1°.1/31.1 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.45	− 3 36.6	2.239	3.101	10.6	21.0
3 12	13 0.15	− 2 46.0	2.174	3.110	7.3	20.8
3 22	12 52.35	− 1 48.1	2.136	3.119	3.7	20.6
4 1	12 43.76	− 0 47.8	2.128	3.126	1.2	20.4
4 11	12 35.22	+ 0 9.1	2.150	3.133	4.4	20.6
4 21	12 27.50	+ 0 57.7	2.201	3.139	7.9	20.9
5 1	12 21.26	+ 1 34.1	2.277	3.144	11.0	21.1
5 11	12 16.92	+ 1 56.2	2.376	3.148	13.7	21.3

205238 2000 QU_{161} 4 1.4 279°.30 8°.5/ 7.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.50	−24 50.7	1.535	2.333	17.8	20.4
3 12	13 2.79	−25 35.2	1.441	2.315	14.9	20.1
3 22	12 54.29	−25 52.8	1.367	2.296	11.7	19.9
4 1	12 43.85	−25 39.9	1.316	2.277	9.1	19.7
4 11	12 32.84	−24 57.2	1.289	2.257	8.7	19.6
4 21	12 22.75	−23 50.7	1.287	2.238	11.0	19.7
5 1	12 14.95	−22 30.9	1.308	2.218	14.5	19.8
5 11	12 10.29	−21 9.6	1.348	2.199	18.2	20.0

4732 Froeschlé 4 1.4 184°.34 3°.6/ 6.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.40	−20 43.4	2.586	3.385	11.4	16.8
3 12	12 56.63	−20 11.8	2.500	3.385	8.9	16.6
3 22	12 50.54	−19 22.2	2.439	3.385	6.3	16.5
4 1	12 43.71	−18 16.7	2.406	3.385	4.0	16.3
4 11	12 36.85	−16 59.6	2.401	3.384	3.9	16.3
4 21	12 30.64	−15 36.3	2.426	3.383	6.1	16.4
5 1	12 25.67	−14 13.1	2.478	3.382	8.8	16.6
5 11	12 22.35	−12 55.9	2.555	3.381	11.3	16.8

294909 2008 DB_{28} 4 1.4 179°.90 5°.2/24.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.11	+14 54.8	3.003	3.872	8.0	21.8
3 12	12 57.58	+15 57.3	2.950	3.873	6.3	21.7
3 22	12 50.94	+16 54.0	2.926	3.874	5.2	21.6
4 1	12 43.72	+17 40.1	2.930	3.874	5.6	21.6
4 11	12 36.53	+18 11.9	2.963	3.874	7.1	21.7
4 21	12 29.94	+18 27.4	3.023	3.873	9.0	21.8
5 1	12 24.45	+18 26.0	3.105	3.872	10.8	22.0
5 11	12 20.39	+18 8.9	3.208	3.870	12.4	22.1

333235 2012 HZ_{49} 4 1.4 284°.18 9°.3/22.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.24	+18 8.6	1.722	2.602	12.4	20.1
3 12	12 59.79	+19 47.4	1.670	2.592	10.2	19.9
3 22	12 52.35	+21 14.9	1.643	2.583	9.3	19.9
4 1	12 43.78	+22 21.1	1.641	2.573	10.1	19.9
4 11	12 35.19	+22 58.8	1.664	2.563	12.3	20.0
4 21	12 27.63	+23 5.1	1.709	2.553	15.0	20.1
5 1	12 21.97	+22 40.9	1.772	2.543	17.6	20.3
5 11	12 18.70	+21 50.1	1.851	2.534	19.8	20.4

128261 2003 SX_{298} 4 1.4 288°.29 1°.9/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 5.39	− 3 23.5	1.482	2.364	13.9	20.1
3 12	13 0.35	− 2 25.4	1.394	2.339	9.8	19.8
3 22	12 52.88	− 1 13.6	1.328	2.313	5.1	19.5
4 1	12 43.80	+ 0 5.0	1.289	2.286	2.0	19.2
4 11	12 34.34	+ 1 20.8	1.276	2.260	6.4	19.4
4 21	12 25.76	+ 2 24.6	1.289	2.233	11.6	19.6
5 1	12 19.20	+ 3 9.3	1.323	2.207	16.3	19.8
5 11	12 15.41	+ 3 30.9	1.376	2.180	20.3	20.0

174849 2003 YL_{155} 4 1.4 65°.48 2°.8/30.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.25	− 0 33.7	1.433	2.320	13.9	19.9
3 12	13 0.51	+ 0 24.8	1.387	2.334	9.6	19.7
3 22	12 52.68	+ 1 29.8	1.365	2.348	5.0	19.5
4 1	12 43.79	+ 2 33.2	1.368	2.363	3.0	19.4
4 11	12 35.08	+ 3 26.4	1.398	2.378	6.7	19.6
4 21	12 27.66	+ 4 3.4	1.453	2.392	11.0	19.9
5 1	12 22.37	+ 4 20.6	1.531	2.407	14.9	20.2
5 11	12 19.65	+ 4 17.5	1.627	2.422	18.0	20.4

279030 2008 UR_{365} 4 1.4 206°.10 0°.2/ 1.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.50	− 7 52.5	2.138	2.997	11.2	21.6
3 12	12 58.25	− 7 9.6	2.062	2.994	7.9	21.4
3 22	12 51.45	− 6 15.2	2.011	2.991	4.2	21.2
4 1	12 43.75	− 5 13.6	1.989	2.988	0.3	20.8
4 11	12 36.01	− 4 10.6	1.996	2.985	3.8	21.1
4 21	12 29.03	− 3 12.2	2.030	2.981	7.6	21.4
5 1	12 23.48	− 2 23.3	2.091	2.977	11.0	21.6
5 11	12 19.85	− 1 47.7	2.173	2.973	14.0	21.7

368735 2005 UL_{217} 4 1.4 100°.09 4°.6/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.49	−21 59.6	2.040	2.839	14.0	20.6
3 12	12 59.63	−21 32.1	1.978	2.861	11.0	20.4
3 22	12 52.13	−20 42.2	1.939	2.882	7.8	20.3
4 1	12 43.79	−19 32.4	1.926	2.903	5.1	20.2
4 11	12 35.58	−18 8.3	1.942	2.923	4.9	20.2
4 21	12 28.37	−16 37.5	1.986	2.943	7.3	20.4
5 1	12 22.85	−15 8.1	2.056	2.962	10.2	20.6
5 11	12 19.42	−13 46.9	2.150	2.981	13.0	20.8

79457 1997 XD_{6} 4 1.4 228°.42 5°.7/26.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.77	+11 26.5	2.099	2.973	10.7	19.6
3 12	13 1.98	+12 19.2	2.030	2.962	8.0	19.4
3 22	12 53.42	+13 7.1	1.988	2.951	6.0	19.2
4 1	12 43.84	+13 43.7	1.973	2.939	6.1	19.2
4 11	12 34.22	+14 3.4	1.987	2.927	8.3	19.3
4 21	12 25.45	+14 3.4	2.027	2.914	11.2	19.5
5 1	12 18.32	+13 43.1	2.091	2.900	14.0	19.6
5 11	12 13.32	+13 4.1	2.173	2.886	16.4	19.8

370038 2000 SN_{27} 4 1.4 161°.87 2°.5/ 4.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.05	−16 33.7	2.345	3.166	11.7	21.6
3 12	12 58.53	−15 50.3	2.268	3.172	8.8	21.4
3 22	12 51.55	−14 49.9	2.215	3.177	5.6	21.2
4 1	12 43.78	−13 35.6	2.192	3.182	2.8	21.0
4 11	12 36.02	−12 12.7	2.198	3.187	3.5	21.1
4 21	12 29.02	−10 47.8	2.233	3.190	6.6	21.3
5 1	12 23.41	− 9 27.4	2.296	3.194	9.7	21.5
5 11	12 19.63	− 8 16.8	2.382	3.196	12.4	21.6

43682 2002 JB_{7} 4 1.4 43°.90 2°.2/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.11	− 3 52.0	1.182	2.075	15.8	18.9
3 12	12 59.31	− 2 37.1	1.139	2.089	10.8	18.7
3 22	12 52.16	− 1 9.7	1.119	2.104	5.5	18.4
4 1	12 43.80	+ 0 19.9	1.123	2.120	2.3	18.2
4 11	12 35.65	+ 1 40.2	1.152	2.136	6.8	18.6
4 21	12 28.96	+ 2 42.0	1.204	2.153	11.8	18.9
5 1	12 24.64	+ 3 20.1	1.278	2.170	16.2	19.2
5 11	12 23.10	+ 3 33.3	1.370	2.188	19.7	19.5

349066 2006 XF_{18} 4 1.4 142°.16 1°.9/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.87	− 1 0.9	2.088	2.958	11.0	21.5
3 12	13 0.50	− 0 14.2	2.030	2.969	7.5	21.3
3 22	12 52.57	+ 0 37.7	1.998	2.980	3.9	21.1
4 1	12 43.82	+ 1 29.4	1.995	2.990	2.0	21.0
4 11	12 35.15	+ 2 15.3	2.021	3.000	5.0	21.2
4 21	12 27.39	+ 2 50.7	2.076	3.009	8.5	21.5
5 1	12 21.20	+ 3 12.6	2.155	3.017	11.7	21.7
5 11	12 17.02	+ 3 19.5	2.256	3.025	14.4	21.9

437253 2012 XF_{80} 4 1.4 196°.97 0°.4/31.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.03	− 6 0.7	2.438	3.299	9.9	22.1
3 12	12 57.08	− 5 11.0	2.363	3.298	6.9	21.9
3 22	12 50.79	− 4 12.3	2.314	3.296	3.6	21.7
4 1	12 43.76	− 3 8.9	2.295	3.294	0.4	21.4
4 11	12 36.70	− 2 6.1	2.305	3.291	3.7	21.6
4 21	12 30.30	− 1 9.1	2.343	3.288	7.1	21.9
5 1	12 25.13	− 0 22.0	2.408	3.285	10.1	22.0
5 11	12 21.63	+ 0 12.2	2.496	3.282	12.7	22.2

14594 Jindrašilhán 4 1.4 93°.19 0°.9/31.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 11.74	− 2 33.3	1.691	2.559	13.2	18.1
3 12	13 4.15	− 2 31.1	1.637	2.575	9.2	17.8
3 22	12 54.54	− 2 22.7	1.608	2.590	4.7	17.6
4 1	12 43.90	− 2 12.0	1.607	2.606	0.9	17.4
4 11	12 33.41	− 2 3.7	1.635	2.621	4.9	17.7
4 21	12 24.16	− 2 1.6	1.690	2.636	9.2	18.0
5 1	12 16.98	− 2 8.9	1.769	2.651	12.9	18.2
5 11	12 12.32	− 2 27.0	1.869	2.665	16.0	18.5

463187 2012 BC_{120} 4 1.4 106°.00 1°.0/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.05	− 4 56.1	1.655	2.526	13.3	21.9
3 12	13 0.91	− 4 6.3	1.602	2.541	9.2	21.7
3 22	12 52.87	− 3 6.1	1.573	2.556	4.7	21.4
4 1	12 43.84	− 2 1.8	1.572	2.570	1.0	21.2
4 11	12 34.95	− 1 1.0	1.598	2.584	5.0	21.5
4 21	12 27.21	− 0 10.3	1.652	2.598	9.4	21.8
5 1	12 21.41	+ 0 25.4	1.729	2.611	13.2	22.0
5 11	12 17.97	+ 0 43.9	1.826	2.624	16.3	22.3

331952 2004 TB_{356} 4 1.4 157°.79 3°.7/27.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.68	+ 5 47.6	2.616	3.491	8.8	21.3
3 12	12 58.08	+ 7 7.8	2.561	3.500	6.2	21.1
3 22	12 51.25	+ 8 27.9	2.534	3.508	4.1	21.0
4 1	12 43.78	+ 9 42.3	2.538	3.515	4.0	21.0
4 11	12 36.37	+10 45.4	2.572	3.522	6.1	21.2
4 21	12 29.63	+11 33.5	2.633	3.528	8.6	21.3
5 1	12 24.11	+12 4.7	2.720	3.533	11.0	21.5
5 11	12 20.18	+12 18.8	2.827	3.538	13.0	21.7

386569 2009 DX_{118} 4 1.4 112°.98 1°.0/31.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.58	− 3 56.0	2.449	3.314	9.7	21.4
3 12	12 57.35	− 3 2.1	2.391	3.329	6.7	21.2
3 22	12 50.88	− 2 1.5	2.361	3.344	3.4	21.0
4 1	12 43.77	− 0 59.0	2.360	3.358	1.1	20.9
4 11	12 36.74	+ 0 0.2	2.389	3.372	3.9	21.1
4 21	12 30.43	+ 0 51.5	2.446	3.385	7.1	21.3
5 1	12 25.39	+ 1 31.5	2.530	3.399	10.0	21.5
5 11	12 21.98	+ 1 58.2	2.635	3.412	12.4	21.7

324533 2006 VF_{146} 4 1.4 20°.08 5°.4/28.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.01	+ 4 54.3	1.300	2.199	14.2	19.5
3 12	12 59.18	+ 6 6.3	1.254	2.204	10.0	19.3
3 22	12 52.10	+ 7 19.3	1.230	2.210	6.3	19.1
4 1	12 43.81	+ 8 22.8	1.231	2.216	5.8	19.0
4 11	12 35.65	+ 9 7.9	1.257	2.224	9.1	19.2
4 21	12 28.80	+ 9 29.1	1.306	2.232	13.2	19.5
5 1	12 24.15	+ 9 24.7	1.375	2.240	16.9	19.7
5 11	12 22.19	+ 8 56.4	1.461	2.249	20.1	20.0

33432 1999 ET_{3} 4 1.4 88°.12 1°.7/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.58	− 0 31.0	2.153	3.025	10.6	18.5
3 12	12 59.61	− 0 7.7	2.092	3.032	7.3	18.3
3 22	12 52.11	+ 0 19.6	2.058	3.040	3.8	18.1
4 1	12 43.82	+ 0 46.7	2.052	3.048	1.7	18.0
4 11	12 35.58	+ 1 9.0	2.075	3.056	4.7	18.2
4 21	12 28.18	+ 1 23.1	2.125	3.063	8.1	18.4
5 1	12 22.28	+ 1 26.2	2.201	3.071	11.2	18.6
5 11	12 18.30	+ 1 17.3	2.299	3.078	13.9	18.8

419415 2010 AF_{78} 4 1.4 121°.03 3°.9/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.18	+ 5 51.1	2.263	3.141	9.9	21.1
3 12	12 59.20	+ 6 54.9	2.217	3.157	7.0	20.9
3 22	12 51.84	+ 7 57.8	2.198	3.173	4.5	20.8
4 1	12 43.81	+ 8 53.8	2.208	3.189	4.2	20.8
4 11	12 35.91	+ 9 37.8	2.247	3.204	6.4	21.0
4 21	12 28.86	+10 6.4	2.314	3.218	9.2	21.2
5 1	12 23.24	+10 17.9	2.404	3.232	11.8	21.4
5 11	12 19.44	+10 12.9	2.515	3.246	14.0	21.6

522268 2016 AG_{277} 4 1.4 337°.18 8°.4/ 7.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.42	−23 32.5	1.316	2.137	19.1	20.7
3 12	13 0.71	−24 14.9	1.240	2.129	15.7	20.5
3 22	12 53.20	−24 27.6	1.182	2.121	12.1	20.2
4 1	12 43.87	−24 7.8	1.147	2.115	9.1	20.0
4 11	12 34.20	−23 18.0	1.134	2.109	8.6	20.0
4 21	12 25.73	−22 6.4	1.144	2.103	11.1	20.1
5 1	12 19.74	−20 44.7	1.177	2.099	14.9	20.3
5 11	12 17.00	−19 25.1	1.228	2.095	18.6	20.5

439355 2012 XT_{116} 4 1.4 63°.92 3°.6/ 5.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.05	−18 54.7	2.258	3.073	12.3	21.0
3 12	12 57.25	−18 34.9	2.179	3.075	9.5	20.9
3 22	12 50.94	−17 56.9	2.125	3.077	6.5	20.7
4 1	12 43.78	−17 2.7	2.097	3.080	4.0	20.5
4 11	12 36.60	−15 56.8	2.097	3.082	4.1	20.5
4 21	12 30.16	−14 45.0	2.126	3.085	6.7	20.7
5 1	12 25.12	−13 34.0	2.181	3.088	9.7	20.9
5 11	12 21.93	−12 29.5	2.259	3.090	12.5	21.1

64216 2001 TQ_{106} 4 1.4 92°.44 2°.1/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.28	− 0 36.9	1.816	2.691	12.1	18.9
3 12	13 0.90	+ 0 3.9	1.768	2.709	8.3	18.7
3 22	12 52.80	+ 0 49.5	1.745	2.727	4.3	18.5
4 1	12 43.86	+ 1 34.3	1.749	2.745	2.2	18.4
4 11	12 35.08	+ 2 12.0	1.783	2.763	5.4	18.6
4 21	12 27.38	+ 2 38.3	1.843	2.780	9.2	18.9
5 1	12 21.48	+ 2 50.2	1.928	2.797	12.6	19.1
5 11	12 17.79	+ 2 46.9	2.032	2.813	15.4	19.3

203465 2001 YN_{137} 4 1.4 128°.78 2°.5/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.78	+ 0 12.3	1.701	2.575	12.8	20.7
3 12	13 3.46	+ 0 51.8	1.649	2.590	8.9	20.5
3 22	12 54.19	+ 1 35.9	1.622	2.604	4.7	20.2
4 1	12 43.91	+ 2 18.4	1.623	2.618	2.6	20.1
4 11	12 33.80	+ 2 52.7	1.652	2.631	6.0	20.4
4 21	12 24.90	+ 3 14.4	1.709	2.643	10.0	20.6
5 1	12 18.02	+ 3 20.6	1.789	2.654	13.6	20.9
5 11	12 13.60	+ 3 10.7	1.889	2.665	16.6	21.1

402183 2004 TF_{87} 4 1.4 71°.68 0°.8/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.13	− 3 46.0	1.370	2.247	15.1	20.3
3 12	13 3.50	− 3 33.9	1.310	2.252	10.6	20.0
3 22	12 54.41	− 3 12.2	1.274	2.257	5.5	19.7
4 1	12 43.93	− 2 46.1	1.263	2.262	0.8	19.4
4 11	12 33.48	− 2 22.0	1.279	2.268	5.6	19.8
4 21	12 24.38	− 2 5.9	1.321	2.273	10.6	20.1
5 1	12 17.65	− 2 2.2	1.385	2.278	15.0	20.3
5 11	12 13.85	− 2 13.4	1.467	2.284	18.7	20.6

345670 2006 UX_{26} 4 1.4 82°.39 0°.3/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.04	− 5 15.7	2.298	3.160	10.4	20.7
3 12	12 58.45	− 4 51.6	2.239	3.174	7.2	20.5
3 22	12 51.49	− 4 20.2	2.206	3.188	3.7	20.3
4 1	12 43.82	− 3 45.1	2.202	3.201	0.3	20.0
4 11	12 36.22	− 3 10.7	2.228	3.215	3.6	20.3
4 21	12 29.41	− 2 41.2	2.281	3.229	7.1	20.6
5 1	12 23.98	− 2 19.9	2.361	3.243	10.1	20.8
5 11	12 20.31	− 2 9.1	2.462	3.256	12.7	21.0

406375 2007 RH_{298} 4 1.4 150°.73 1°.6/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.98	−11 38.0	1.882	2.727	13.1	21.9
3 12	13 1.52	−11 8.9	1.815	2.737	9.5	21.7
3 22	12 53.21	−10 24.3	1.772	2.745	5.5	21.5
4 1	12 43.89	− 9 28.0	1.756	2.753	1.8	21.2
4 11	12 34.60	− 8 26.0	1.770	2.760	3.9	21.4
4 21	12 26.30	− 7 25.3	1.812	2.767	8.0	21.7
5 1	12 19.80	− 6 32.0	1.879	2.773	11.7	21.9
5 11	12 15.56	− 5 50.8	1.968	2.778	14.8	22.1

225205 2008 KO_{41} 4 1.4 53°.86 5°.7/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.25	−23 22.4	1.587	2.398	16.8	19.5
3 12	12 58.55	−22 53.5	1.519	2.407	13.4	19.3
3 22	12 51.76	−21 54.8	1.473	2.417	9.7	19.1
4 1	12 43.83	−20 28.6	1.450	2.427	6.5	18.9
4 11	12 35.94	−18 42.2	1.454	2.437	6.0	18.9
4 21	12 29.20	−16 46.1	1.484	2.447	8.7	19.1
5 1	12 24.46	−14 51.7	1.539	2.457	12.2	19.3
5 11	12 22.23	−13 8.9	1.616	2.468	15.6	19.6

125598 2001 XF_{45} 4 1.4 219°.67 0°.6/ 2.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.53	− 8 3.7	2.333	3.180	10.8	19.8
3 12	13 1.06	− 7 48.6	2.244	3.170	7.8	19.6
3 22	12 52.97	− 7 23.6	2.182	3.159	4.3	19.4
4 1	12 43.89	− 6 51.6	2.149	3.148	0.8	19.1
4 11	12 34.66	− 6 16.5	2.146	3.136	3.5	19.3
4 21	12 26.12	− 5 42.9	2.173	3.123	7.2	19.5
5 1	12 18.99	− 5 15.1	2.226	3.109	10.6	19.7
5 11	12 13.77	− 4 56.5	2.302	3.095	13.4	19.8

469647 2004 TC_{94} 4 1.4 146°.32 0°.6/31.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.66	− 4 6.3	2.278	3.139	10.5	22.3
3 12	13 0.31	− 3 40.8	2.213	3.148	7.3	22.1
3 22	12 52.48	− 3 8.4	2.175	3.157	3.8	21.9
4 1	12 43.87	− 2 33.2	2.166	3.165	0.6	21.7
4 11	12 35.29	− 1 59.4	2.187	3.172	3.9	22.0
4 21	12 27.52	− 1 31.4	2.236	3.179	7.4	22.2
5 1	12 21.20	− 1 12.5	2.311	3.186	10.6	22.4
5 11	12 16.76	− 1 4.6	2.409	3.192	13.2	22.6

423255 2004 TR_{206} 4 1.4 235°.39 5°.0/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.54	+10 11.6	2.230	3.103	10.2	21.3
3 12	13 1.77	+10 53.8	2.157	3.091	7.6	21.1
3 22	12 53.32	+11 32.3	2.111	3.078	5.4	20.9
4 1	12 43.90	+12 1.2	2.093	3.064	5.3	20.9
4 11	12 34.42	+12 15.6	2.104	3.051	7.5	21.0
4 21	12 25.73	+12 12.9	2.142	3.036	10.3	21.1
5 1	12 18.57	+11 52.2	2.205	3.021	13.1	21.3
5 11	12 13.42	+11 14.6	2.286	3.006	15.5	21.4

394787 2008 HC_{42} 4 1.4 287°.12 1°.9/ 3.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 0.79	−13 44.7	2.527	3.362	10.5	20.7
3 12	12 56.26	−13 16.9	2.440	3.355	7.8	20.5
3 22	12 50.41	−12 35.7	2.379	3.347	4.8	20.3
4 1	12 43.79	−11 43.5	2.347	3.340	2.2	20.1
4 11	12 37.11	−10 44.8	2.343	3.333	3.2	20.2
4 21	12 31.02	− 9 44.4	2.368	3.326	6.2	20.4
5 1	12 26.12	− 8 47.5	2.420	3.319	9.2	20.5
5 11	12 22.83	− 7 58.5	2.495	3.312	11.9	20.7

146402 2001 QV_{164} 4 1.4 170°.14 1°.8/30.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.46	− 1 27.6	2.110	2.979	10.9	21.0
3 12	13 0.29	− 0 42.0	2.044	2.983	7.5	20.8
3 22	12 52.53	+ 0 9.5	2.004	2.986	3.9	20.5
4 1	12 43.88	+ 1 1.8	1.993	2.989	1.9	20.4
4 11	12 35.25	+ 1 48.9	2.011	2.991	4.9	20.6
4 21	12 27.46	+ 2 26.3	2.058	2.993	8.5	20.8
5 1	12 21.22	+ 2 50.3	2.129	2.993	11.8	21.0
5 11	12 16.96	+ 2 59.5	2.222	2.994	14.5	21.2

28356 1999 FF_{38} 4 1.4 158°.85 1°.0/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.16	−11 0.6	2.242	3.085	11.4	19.4
3 12	12 59.33	−10 16.7	2.170	3.093	8.2	19.2
3 22	12 52.00	− 9 19.5	2.125	3.100	4.6	19.0
4 1	12 43.86	− 8 13.0	2.108	3.106	1.2	18.8
4 11	12 35.74	− 7 2.8	2.121	3.111	3.4	18.9
4 21	12 28.41	− 5 55.0	2.163	3.116	7.0	19.2
5 1	12 22.54	− 4 55.0	2.232	3.120	10.3	19.4
5 11	12 18.54	− 4 7.0	2.323	3.124	13.1	19.6

496023 2008 RH_{66} 4 1.4 165°.42 0°.2/ 1.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.56	− 6 45.7	2.639	3.487	9.7	21.6
3 12	13 0.12	− 6 28.4	2.566	3.493	6.8	21.4
3 22	12 52.36	− 6 3.5	2.520	3.498	3.6	21.2
4 1	12 43.88	− 5 33.8	2.504	3.503	0.3	20.9
4 11	12 35.39	− 5 3.0	2.519	3.507	3.2	21.1
4 21	12 27.59	− 4 34.7	2.563	3.510	6.4	21.4
5 1	12 21.05	− 4 12.3	2.635	3.513	9.3	21.6
5 11	12 16.19	− 3 58.3	2.730	3.515	11.8	21.7

495425 2014 SP_{177} 4 1.4 242°.81 1°.8/30.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.04	− 2 37.2	1.723	2.596	12.8	22.0
3 12	13 1.88	− 1 49.3	1.640	2.581	8.9	21.7
3 22	12 53.58	− 0 51.6	1.582	2.565	4.6	21.4
4 1	12 43.93	+ 0 9.8	1.552	2.549	1.8	21.2
4 11	12 34.06	+ 1 7.3	1.549	2.532	5.7	21.4
4 21	12 25.09	+ 1 54.1	1.574	2.514	10.2	21.6
5 1	12 17.97	+ 2 25.0	1.622	2.496	14.3	21.8
5 11	12 13.33	+ 2 37.5	1.690	2.477	17.8	22.0

348964 2006 UC_{49} 4 1.4 88°.29 2°.0/ 3.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.01	−13 57.8	2.224	3.062	11.6	20.9
3 12	12 57.19	−13 23.9	2.151	3.067	8.6	20.7
3 22	12 50.91	−12 34.8	2.102	3.071	5.3	20.5
4 1	12 43.83	−11 33.8	2.081	3.076	2.3	20.3
4 11	12 36.74	−10 26.0	2.089	3.080	3.4	20.4
4 21	12 30.40	− 9 17.5	2.126	3.084	6.7	20.6
5 1	12 25.45	− 8 14.2	2.188	3.089	10.0	20.8
5 11	12 22.32	− 7 20.9	2.274	3.093	12.8	21.0

338924 2004 EO_{19} 4 1.4 115°.78 1°.7/ 3.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.84	−11 12.1	2.319	3.160	11.1	20.7
3 12	12 59.78	−11 9.1	2.251	3.169	8.1	20.5
3 22	12 52.24	−10 54.8	2.207	3.179	4.8	20.3
4 1	12 43.88	−10 31.4	2.192	3.188	1.9	20.2
4 11	12 35.54	−10 2.5	2.207	3.197	3.4	20.3
4 21	12 27.97	− 9 32.5	2.250	3.206	6.7	20.5
5 1	12 21.83	− 9 5.5	2.320	3.214	9.8	20.7
5 11	12 17.54	− 8 45.4	2.413	3.223	12.4	20.9

326340 2000 RC_{79} 4 1.4 245°.35 2°.3/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.39	−17 39.2	2.392	3.206	11.7	21.2
3 12	12 58.92	−16 23.8	2.284	3.186	8.9	21.0
3 22	12 51.88	−14 46.9	2.203	3.165	5.6	20.8
4 1	12 43.88	−12 51.9	2.151	3.144	2.6	20.5
4 11	12 35.73	−10 45.5	2.131	3.121	3.5	20.6
4 21	12 28.22	− 8 36.1	2.142	3.098	6.9	20.7
5 1	12 22.06	− 6 32.1	2.182	3.074	10.4	20.9
5 11	12 17.74	− 4 40.9	2.247	3.050	13.5	21.1

383995 2008 TG_{169} 4 1.4 150°.85 0°.5/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.73	− 8 45.4	2.146	3.001	11.3	22.0
3 12	12 58.41	− 8 5.8	2.075	3.005	8.0	21.8
3 22	12 51.56	− 7 14.5	2.030	3.009	4.3	21.6
4 1	12 43.86	− 6 15.6	2.014	3.013	0.6	21.3
4 11	12 36.17	− 5 14.8	2.026	3.016	3.6	21.6
4 21	12 29.27	− 4 17.7	2.067	3.019	7.4	21.8
5 1	12 23.82	− 3 29.6	2.134	3.022	10.7	22.0
5 11	12 20.27	− 2 53.8	2.222	3.025	13.6	22.2

9103 Komatsubara 4 1.4 272°.56 3°.0/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 6.98	−13 38.8	1.369	2.225	16.4	17.1
3 12	13 1.64	−13 23.5	1.287	2.212	12.3	16.8
3 22	12 53.65	−12 45.2	1.226	2.199	7.6	16.5
4 1	12 43.95	−11 46.6	1.190	2.185	3.3	16.2
4 11	12 33.92	−10 34.6	1.180	2.171	5.2	16.3
4 21	12 24.98	− 9 19.0	1.194	2.157	10.2	16.5
5 1	12 18.34	− 8 10.0	1.231	2.143	15.2	16.7
5 11	12 14.73	− 7 15.9	1.288	2.129	19.4	17.0

385883 2006 SO_{125} 4 1.4 180°.81 4°.4/26.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.44	+ 8 9.6	2.430	3.311	9.2	20.5
3 12	12 57.35	+ 9 18.4	2.372	3.311	6.7	20.4
3 22	12 50.95	+10 25.5	2.341	3.311	4.7	20.3
4 1	12 43.84	+11 25.1	2.339	3.311	4.8	20.3
4 11	12 36.75	+12 11.9	2.365	3.311	6.8	20.4
4 21	12 30.35	+12 42.5	2.418	3.311	9.4	20.5
5 1	12 25.22	+12 55.4	2.495	3.310	11.8	20.7
5 11	12 21.75	+12 50.8	2.591	3.309	13.9	20.9

145597 2006 QP_6 4 1.4 98°.08 2°.5/30.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.28	− 1 50.8	1.610	2.492	13.0	20.1
3 12	12 59.75	− 0 36.8	1.558	2.503	8.9	19.9
3 22	12 52.32	+ 0 45.3	1.531	2.515	4.6	19.6
4 1	12 43.90	+ 2 7.4	1.531	2.526	2.6	19.5
4 11	12 35.59	+ 3 20.7	1.559	2.537	6.2	19.8
4 21	12 28.40	+ 4 18.4	1.612	2.548	10.3	20.0
5 1	12 23.12	+ 4 56.2	1.689	2.559	14.0	20.3
5 11	12 20.18	+ 5 12.9	1.785	2.570	17.1	20.5

385136 2013 SF_{51} 4 1.4 136°.56 2°.7/29.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.07	+ 2 14.4	2.082	2.956	10.8	21.0
3 12	13 0.69	+ 2 49.0	2.023	2.964	7.5	20.8
3 22	12 52.73	+ 3 25.7	1.990	2.971	4.1	20.6
4 1	12 43.92	+ 3 59.5	1.986	2.978	2.9	20.6
4 11	12 35.18	+ 4 25.3	2.011	2.985	5.5	20.7
4 21	12 27.34	+ 4 39.5	2.063	2.991	8.9	21.0
5 1	12 21.08	+ 4 40.1	2.141	2.997	12.0	21.2
5 11	12 16.84	+ 4 26.4	2.238	3.003	14.6	21.4

208097 2000 AC_{145} 4 1.4 190°.18 6°.8/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.93	−34 16.9	2.965	3.657	12.4	21.5
3 12	12 59.84	−34 13.3	2.867	3.656	10.7	21.4
3 22	12 52.29	−33 47.7	2.791	3.653	9.0	21.2
4 1	12 43.90	−32 59.2	2.740	3.650	7.5	21.1
4 11	12 35.46	−31 49.8	2.717	3.646	6.8	21.1
4 21	12 27.71	−30 23.8	2.721	3.642	7.3	21.1
5 1	12 21.29	−28 47.3	2.753	3.636	8.8	21.2
5 11	12 16.65	−27 7.6	2.810	3.630	10.6	21.3

301821 2011 PP_8 4 1.4 251°.92 1°.9/29.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.48	− 1 40.1	2.350	3.224	9.8	21.2
3 12	12 56.80	− 0 31.3	2.271	3.213	6.7	21.0
3 22	12 50.73	+ 0 44.6	2.219	3.202	3.5	20.8
4 1	12 43.85	+ 2 2.0	2.196	3.191	2.1	20.7
4 11	12 36.90	+ 3 14.7	2.203	3.180	4.8	20.8
4 21	12 30.58	+ 4 17.3	2.238	3.169	8.2	21.0
5 1	12 25.52	+ 5 5.5	2.298	3.157	11.2	21.2
5 11	12 22.14	+ 5 37.2	2.380	3.145	13.8	21.4

469238 2016 JU_8 4 1.4 11°.46 11°.0/22.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.93	+17 2.4	1.223	2.123	14.8	19.4
3 12	12 57.87	+18 58.9	1.191	2.126	12.1	19.2
3 22	12 51.48	+20 39.9	1.182	2.131	11.0	19.2
4 1	12 43.87	+21 52.2	1.195	2.136	12.0	19.3
4 11	12 36.45	+22 27.3	1.229	2.143	14.5	19.4
4 21	12 30.42	+22 23.4	1.283	2.151	17.5	19.6
5 1	12 26.68	+21 43.5	1.354	2.161	20.3	19.8
5 11	12 25.66	+20 33.7	1.439	2.171	22.7	20.1

498722 2008 TW_{112} 4 1.4 252°.36 3°.0/ 4.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.98	−16 0.4	2.173	2.998	12.3	21.4
3 12	12 59.49	−15 46.4	2.076	2.982	9.4	21.2
3 22	12 52.24	−15 15.4	2.004	2.966	6.2	20.9
4 1	12 43.92	−14 29.1	1.960	2.949	3.4	20.7
4 11	12 35.38	−13 31.5	1.944	2.932	4.0	20.7
4 21	12 27.51	−12 28.5	1.956	2.914	7.3	20.9
5 1	12 21.12	−11 26.5	1.995	2.896	10.7	21.1
5 11	12 16.75	−10 31.7	2.056	2.878	13.9	21.3

114768 2003 JH_{12} 4 1.4 167°.49 0°.4/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.59	− 5 6.6	2.831	3.689	8.8	20.8
3 12	12 57.32	− 4 35.5	2.759	3.692	6.1	20.6
3 22	12 50.90	− 3 57.9	2.714	3.695	3.2	20.4
4 1	12 43.86	− 3 17.0	2.698	3.697	0.4	20.2
4 11	12 36.82	− 2 36.9	2.713	3.700	3.2	20.4
4 21	12 30.36	− 2 1.0	2.757	3.702	6.2	20.6
5 1	12 24.99	− 1 32.5	2.829	3.703	8.9	20.8
5 11	12 21.08	− 1 13.6	2.923	3.705	11.1	21.0

198898 2005 US_{16} 4 1.4 220°.36 0°.4/ 1.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.84	− 8 43.8	1.618	2.479	14.0	21.7
3 12	13 1.82	− 7 58.6	1.539	2.472	10.1	21.4
3 22	12 53.57	− 6 56.9	1.483	2.463	5.4	21.2
4 1	12 43.97	− 5 43.8	1.455	2.454	0.5	20.8
4 11	12 34.20	− 4 27.4	1.455	2.444	4.8	21.1
4 21	12 25.44	− 3 16.2	1.481	2.434	9.6	21.3
5 1	12 18.66	− 2 17.7	1.532	2.423	14.0	21.5
5 11	12 14.48	− 1 36.8	1.602	2.411	17.7	21.8

521274 2015 HH_{194} 4 1.4 37°.97 2°.3/29.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 0.04	− 2 21.7	1.886	2.768	11.3	20.6
3 12	12 55.91	− 0 46.9	1.834	2.780	7.7	20.4
3 22	12 50.26	+ 0 55.8	1.808	2.792	4.0	20.2
4 1	12 43.84	+ 2 38.4	1.811	2.805	2.6	20.1
4 11	12 37.50	+ 4 12.4	1.842	2.818	5.7	20.3
4 21	12 32.03	+ 5 30.9	1.900	2.832	9.3	20.6
5 1	12 28.06	+ 6 29.5	1.982	2.846	12.5	20.8
5 11	12 25.99	+ 7 6.8	2.084	2.860	15.2	21.0

68946 2002 PX_{138} 4 1.4 238°.07 4°.8/27.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.58	+ 7 20.8	2.101	2.978	10.6	19.8
3 12	13 1.26	+ 8 28.4	2.022	2.961	7.7	19.5
3 22	12 53.15	+ 9 36.1	1.971	2.942	5.2	19.3
4 1	12 43.96	+10 36.8	1.947	2.924	5.1	19.3
4 11	12 34.61	+11 24.0	1.953	2.904	7.6	19.4
4 21	12 26.03	+11 53.0	1.985	2.883	10.8	19.6
5 1	12 18.99	+12 1.7	2.041	2.862	13.9	19.7
5 11	12 14.05	+11 50.4	2.116	2.840	16.5	19.9

54156 2000 HK_{47} 4 1.4 158°.64 2°.8/30.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.35	+ 1 0.5	1.744	2.619	12.5	19.2
3 12	13 3.24	+ 1 45.0	1.685	2.626	8.7	19.0
3 22	12 54.15	+ 2 33.8	1.651	2.632	4.7	18.8
4 1	12 44.00	+ 3 20.3	1.645	2.638	3.0	18.7
4 11	12 33.91	+ 3 58.0	1.667	2.643	6.2	18.9
4 21	12 24.94	+ 4 22.0	1.717	2.648	10.2	19.1
5 1	12 17.92	+ 4 29.6	1.790	2.651	13.8	19.4
5 11	12 13.33	+ 4 20.1	1.883	2.654	16.8	19.6

33590 Sreelakshmi 4 1.4 254°.57 4°.4/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.52	+ 4 18.2	1.579	2.463	13.0	18.5
3 12	13 2.30	+ 5 10.8	1.508	2.452	9.2	18.3
3 22	12 53.82	+ 6 5.8	1.461	2.441	5.6	18.0
4 1	12 43.99	+ 6 55.2	1.442	2.429	4.7	17.9
4 11	12 34.02	+ 7 31.2	1.449	2.417	7.9	18.1
4 21	12 25.10	+ 7 48.5	1.481	2.405	12.0	18.3
5 1	12 18.22	+ 7 44.4	1.536	2.393	15.9	18.5
5 11	12 13.98	+ 7 19.3	1.608	2.380	19.2	18.7

226728 2004 PF_{92} 4 1.4 286°.37 8°.7/ 9.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.52	−28 43.4	1.837	2.603	16.5	20.2
3 12	13 1.02	−29 22.5	1.748	2.594	14.1	20.0
3 22	12 53.24	−29 35.0	1.680	2.585	11.5	19.8
4 1	12 43.97	−29 18.3	1.634	2.575	9.4	19.6
4 11	12 34.39	−28 33.5	1.613	2.566	8.7	19.6
4 21	12 25.70	−27 26.2	1.617	2.557	10.0	19.6
5 1	12 18.97	−26 5.0	1.645	2.548	12.5	19.8
5 11	12 14.88	−24 40.2	1.694	2.539	15.3	19.9

38268 Zenkert 4 1.4 76°.57 0°.2/ 1.6 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.21	− 6 35.9	1.827	2.692	12.6	19.1
3 12	13 0.32	− 6 17.5	1.765	2.699	8.9	18.9
3 22	12 52.62	− 5 48.7	1.727	2.707	4.7	18.7
4 1	12 43.94	− 5 13.6	1.716	2.715	0.3	18.3
4 11	12 35.29	− 4 37.5	1.733	2.723	4.2	18.6
4 21	12 27.62	− 4 5.9	1.778	2.731	8.3	18.9
5 1	12 21.70	− 3 43.2	1.847	2.739	12.0	19.1
5 11	12 18.00	− 3 32.5	1.937	2.746	15.1	19.4

127104 2002 GJ_{88} 4 1.4 52°.78 3°.5/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.38	+ 1 45.6	1.741	2.627	11.9	19.5
3 12	12 58.37	+ 2 57.3	1.687	2.633	8.2	19.3
3 22	12 51.61	+ 4 13.1	1.657	2.639	4.7	19.1
4 1	12 43.90	+ 5 25.4	1.655	2.645	3.7	19.1
4 11	12 36.26	+ 6 26.3	1.680	2.651	6.8	19.3
4 21	12 29.60	+ 7 10.3	1.731	2.657	10.4	19.5
5 1	12 24.66	+ 7 34.3	1.805	2.664	13.8	19.7
5 11	12 21.88	+ 7 37.8	1.898	2.670	16.6	19.9

130646 2000 SW_{74} 4 1.4 190°.35 1°.7/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.66	− 2 44.2	1.774	2.645	12.5	20.6
3 12	13 1.43	− 1 54.5	1.704	2.645	8.7	20.4
3 22	12 53.26	− 0 56.1	1.660	2.643	4.5	20.1
4 1	12 43.98	+ 0 4.9	1.644	2.642	1.8	19.9
4 11	12 34.66	+ 1 1.3	1.657	2.639	5.4	20.1
4 21	12 26.32	+ 1 46.8	1.696	2.636	9.6	20.4
5 1	12 19.80	+ 2 17.0	1.760	2.632	13.4	20.6
5 11	12 15.63	+ 2 29.7	1.843	2.628	16.6	20.8

306361 2011 SR_{217} 4 1.4 202.°40 0.°8/31.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 1.02	− 5 30.1	2.590	3.452	9.4	21.4
3 12	12 56.36	− 4 23.9	2.514	3.450	6.5	21.2
3 22	12 50.46	− 3 8.9	2.464	3.447	3.3	21.0
4 1	12 43.87	− 1 49.9	2.445	3.443	0.8	20.8
4 11	12 37.26	− 0 32.5	2.456	3.440	3.7	21.0
4 21	12 31.25	+ 0 38.1	2.496	3.436	6.9	21.2
5 1	12 26.39	+ 1 37.5	2.562	3.432	9.8	21.4
5 11	12 23.06	+ 2 22.9	2.651	3.428	12.3	21.5

285623 2000 RD_{24} 4 1.4 217.°71 1.°9/30.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.24	− 1 53.4	1.861	2.732	12.1	21.8
3 12	13 1.85	− 1 6.1	1.783	2.723	8.4	21.5
3 22	12 53.51	− 0 11.0	1.731	2.714	4.4	21.2
4 1	12 44.00	+ 0 46.2	1.708	2.704	2.0	21.1
4 11	12 34.36	+ 1 38.6	1.713	2.693	5.5	21.3
4 21	12 25.61	+ 2 20.4	1.745	2.682	9.6	21.5
5 1	12 18.61	+ 2 47.2	1.802	2.670	13.4	21.7
5 11	12 13.92	+ 2 56.9	1.879	2.657	16.6	21.9

342960 2009 BP 4 1.4 185.°61 2.°1/30.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.69	+ 0 40.6	2.324	3.196	9.9	21.5
3 12	12 58.99	+ 1 18.3	2.256	3.196	6.8	21.3
3 22	12 51.86	+ 1 59.6	2.214	3.196	3.7	21.1
4 1	12 43.94	+ 2 39.8	2.201	3.195	2.2	21.0
4 11	12 36.01	+ 3 14.1	2.218	3.194	4.9	21.2
4 21	12 28.81	+ 3 38.7	2.263	3.193	8.1	21.4
5 1	12 22.97	+ 3 50.9	2.333	3.192	11.1	21.5
5 11	12 18.91	+ 3 49.7	2.424	3.190	13.6	21.7

23335 2542 P–L 4 1.4 162.°48 1.°2/31.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.55	− 3 14.4	2.001	2.866	11.6	19.6
3 12	13 1.83	− 2 31.9	1.936	2.873	8.1	19.4
3 22	12 53.38	− 1 41.9	1.897	2.879	4.1	19.2
4 1	12 44.00	− 0 49.3	1.887	2.885	1.3	19.0
4 11	12 34.66	− 0 0.3	1.907	2.890	4.7	19.2
4 21	12 26.25	+ 0 39.9	1.954	2.894	8.6	19.5
5 1	12 19.52	+ 1 7.4	2.027	2.897	12.0	19.7
5 11	12 14.94	+ 1 20.3	2.121	2.899	14.9	19.9

386300 2008 SB_{26} 4 1.4 186.°98 0.°3/ 1.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.77	− 7 24.7	2.258	3.112	10.9	22.2
3 12	12 59.82	− 7 1.5	2.182	3.112	7.7	22.0
3 22	12 52.33	− 6 28.7	2.132	3.111	4.1	21.8
4 1	12 43.97	− 5 49.6	2.111	3.110	0.4	21.5
4 11	12 35.55	− 5 8.7	2.119	3.108	3.6	21.7
4 21	12 27.88	− 4 30.9	2.156	3.106	7.2	22.0
5 1	12 21.65	− 4 0.4	2.219	3.104	10.5	22.2
5 11	12 17.29	− 3 40.2	2.305	3.101	13.3	22.3

249508 2010 AE_{55} 4 1.4 359.°82 5.°0/ 5.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.09	−17 6.7	1.672	2.504	15.1	19.7
3 12	13 1.33	−17 44.6	1.598	2.502	11.8	19.5
3 22	12 53.34	−18 3.7	1.545	2.501	8.2	19.3
4 1	12 44.01	−18 3.8	1.518	2.501	5.4	19.1
4 11	12 34.50	−17 47.6	1.518	2.501	5.7	19.2
4 21	12 25.97	−17 20.3	1.543	2.502	8.8	19.3
5 1	12 19.43	−16 48.9	1.593	2.503	12.4	19.5
5 11	12 15.48	−16 20.2	1.663	2.505	15.7	19.8

346256 2008 EP_{32} 4 1.4 39.°84 9.°8/13.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.25	−36 36.2	2.094	2.798	16.6	19.6
3 12	12 59.15	−37 8.5	2.024	2.811	14.6	19.5
3 22	12 52.11	−37 11.7	1.973	2.824	12.6	19.4
4 1	12 43.95	−36 43.7	1.942	2.838	10.8	19.3
4 11	12 35.77	−35 46.3	1.935	2.852	9.9	19.3
4 21	12 28.59	−34 25.1	1.952	2.867	10.1	19.3
5 1	12 23.25	−32 48.3	1.994	2.882	11.4	19.4
5 11	12 20.26	−31 5.7	2.058	2.897	13.2	19.5

45384 2000 AB_{125} 4 1.4 122.°28 1.°1/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.31	−10 44.3	2.083	2.934	11.8	19.1
3 12	12 58.18	−10 6.5	2.012	2.938	8.5	18.9
3 22	12 51.49	− 9 15.1	1.967	2.943	4.8	18.7
4 1	12 43.93	− 8 14.0	1.950	2.947	1.3	18.5
4 11	12 36.38	− 7 9.0	1.961	2.952	3.6	18.7
4 21	12 29.64	− 6 6.4	2.000	2.956	7.3	18.9
5 1	12 24.38	− 5 11.6	2.066	2.960	10.8	19.1
5 11	12 21.06	− 4 28.9	2.153	2.964	13.7	19.3

348908 2006 SA_{397} 4 1.4 150.°50 0.°3/ 1.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.55	− 8 45.4	2.379	3.234	10.4	21.4
3 12	12 56.81	− 7 56.3	2.306	3.236	7.3	21.2
3 22	12 50.72	− 6 56.0	2.259	3.238	3.9	21.0
4 1	12 43.91	− 5 48.9	2.241	3.240	0.4	20.7
4 11	12 37.08	− 4 40.3	2.253	3.242	3.4	20.9
4 21	12 30.94	− 3 35.8	2.293	3.244	6.8	21.2
5 1	12 26.06	− 2 40.2	2.360	3.246	9.9	21.4
5 11	12 22.86	− 1 56.9	2.449	3.247	12.6	21.5

55739 1989 TV 4 1.4 167.°02 0.°6/31.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 4.61	− 6 31.0	2.431	3.286	10.2	20.1
3 12	12 58.88	− 5 20.9	2.360	3.293	7.1	19.9
3 22	12 51.78	− 4 0.8	2.317	3.298	3.6	19.7
4 1	12 43.96	− 2 35.9	2.304	3.303	0.6	19.4
4 11	12 36.15	− 1 12.5	2.322	3.307	3.8	19.7
4 21	12 29.07	+ 0 3.5	2.370	3.310	7.3	19.9
5 1	12 23.31	+ 1 7.5	2.444	3.312	10.3	20.1
5 11	12 19.26	+ 1 56.6	2.541	3.314	12.9	20.3

133621 2003 UD_{120} 4 1.4 34.°96 1.°8/ 3.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.23	−13 5.6	1.812	2.663	13.3	19.3
3 12	12 57.62	−12 22.3	1.743	2.667	9.7	19.1
3 22	12 51.26	−11 21.1	1.698	2.671	5.8	18.8
4 1	12 43.94	−10 6.4	1.680	2.676	2.1	18.6
4 11	12 36.61	− 8 45.3	1.690	2.681	3.9	18.7
4 21	12 30.20	− 7 25.5	1.726	2.687	7.9	19.0
5 1	12 25.46	− 6 14.4	1.788	2.692	11.6	19.2
5 11	12 22.84	− 5 17.4	1.872	2.698	14.9	19.4

32773 1986 TD 4 1.4 60.°59 8.°4/28.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 24.86	+19 18.1	1.650	2.500	14.4	17.5
3 12	13 12.81	+19 18.4	1.627	2.537	11.3	17.4
3 22	12 58.81	+19 1.0	1.630	2.574	8.9	17.3
4 1	12 44.23	+18 20.8	1.661	2.611	8.6	17.4
4 11	12 30.54	+17 17.3	1.722	2.648	10.3	17.6
4 21	12 18.89	+15 53.8	1.810	2.684	12.9	17.8
5 1	12 9.98	+14 15.3	1.922	2.720	15.5	18.0
5 11	12 4.04	+12 27.2	2.055	2.756	17.6	18.3

371203 2005 YS_{289} 4 1.4 253.°05 1.°7/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	12 56.51	+ 3 15.9	4.495	5.367	5.5	21.2
3 12	12 52.84	+ 3 50.1	4.423	5.363	3.8	21.0
3 22	12 48.51	+ 4 25.0	4.380	5.359	2.2	20.9
4 1	12 43.83	+ 4 58.3	4.367	5.355	1.8	20.9
4 11	12 39.14	+ 5 27.5	4.384	5.351	3.1	21.0
4 21	12 34.76	+ 5 50.9	4.431	5.347	4.9	21.1
5 1	12 31.00	+ 6 7.0	4.504	5.343	6.5	21.2
5 11	12 28.09	+ 6 14.8	4.600	5.339	8.0	21.3

500740 2012 XJ_{140} 4 1.4 146.°45 2.°5/29.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.34	+ 2 21.0	2.598	3.471	9.0	21.9
3 12	12 57.90	+ 3 6.7	2.538	3.478	6.2	21.7
3 22	12 51.24	+ 3 54.3	2.505	3.485	3.5	21.5
4 1	12 43.94	+ 4 39.3	2.501	3.491	2.6	21.5
4 11	12 36.68	+ 5 17.3	2.527	3.497	4.9	21.6
4 21	12 30.08	+ 5 44.9	2.581	3.503	7.6	21.8
5 1	12 24.69	+ 6 0.1	2.661	3.508	10.2	22.0
5 11	12 20.88	+ 6 1.9	2.762	3.513	12.4	22.2

288067 2003 UX_{350} 4 1.4 185.°75 1.°4/30.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.69	− 2 44.8	2.281	3.149	10.2	21.1
3 12	12 58.34	− 1 52.8	2.210	3.149	7.1	20.9
3 22	12 51.55	− 0 53.9	2.166	3.149	3.6	20.7
4 1	12 43.96	+ 0 6.9	2.151	3.148	1.5	20.6
4 11	12 36.35	+ 1 4.0	2.166	3.147	4.5	20.8
4 21	12 29.46	+ 1 52.4	2.208	3.145	7.9	21.0
5 1	12 23.93	+ 2 28.4	2.276	3.144	11.0	21.2
5 11	12 20.18	+ 2 49.8	2.366	3.141	13.6	21.3

505065 2011 SS_{163} 4 1.4 246.°28 2.°0/ 3.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.25	−12 26.3	2.419	3.255	10.9	21.7
3 12	12 58.76	−12 23.6	2.336	3.251	8.0	21.5
3 22	12 51.79	−12 9.0	2.278	3.247	4.9	21.3
4 1	12 43.97	−11 44.3	2.249	3.242	2.2	21.1
4 11	12 36.06	−11 13.2	2.248	3.238	3.4	21.1
4 21	12 28.80	−10 39.6	2.277	3.234	6.5	21.3
5 1	12 22.85	−10 8.0	2.332	3.229	9.6	21.5
5 11	12 18.67	− 9 42.5	2.410	3.224	12.3	21.7

315809 2008 GZ_{59} 4 1.4 14.°19 0.°7/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.72	− 9 17.4	1.207	2.090	16.3	20.2
3 12	12 57.83	− 8 35.4	1.151	2.094	11.6	19.9
3 22	12 51.56	− 7 33.7	1.117	2.099	6.3	19.6
4 1	12 43.96	− 6 19.2	1.106	2.105	0.9	19.3
4 11	12 36.39	− 5 2.1	1.120	2.113	5.2	19.6
4 21	12 30.12	− 3 52.7	1.158	2.121	10.5	19.9
5 1	12 26.12	− 2 59.2	1.218	2.131	15.2	20.2
5 11	12 24.91	− 2 26.4	1.295	2.141	19.1	20.5

378313 2007 FF_{45} 4 1.4 289.°57 0.°6/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.84	− 4 10.8	1.784	2.654	12.5	21.0
3 12	13 0.90	− 3 52.7	1.713	2.651	8.8	20.8
3 22	12 53.02	− 3 26.0	1.666	2.648	4.5	20.5
4 1	12 44.03	− 2 55.1	1.647	2.646	0.6	20.2
4 11	12 34.96	− 2 25.5	1.656	2.643	4.7	20.5
4 21	12 26.84	− 2 2.2	1.691	2.641	8.9	20.8
5 1	12 20.50	− 1 49.4	1.751	2.638	12.8	21.0
5 11	12 16.48	− 1 49.7	1.832	2.635	16.0	21.2

496999 2002 TU_{379} 4 1.4 112.°60 0.°1/ 1.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 3.36	− 7 4.4	2.315	3.173	10.5	22.2
3 12	12 58.03	− 6 18.4	2.255	3.187	7.3	22.0
3 22	12 51.35	− 5 23.1	2.220	3.201	3.8	21.8
4 1	12 43.97	− 4 22.8	2.215	3.214	0.2	21.5
4 11	12 36.66	− 3 22.8	2.239	3.227	3.6	21.8
4 21	12 30.11	− 2 28.4	2.291	3.239	7.0	22.1
5 1	12 24.92	− 1 43.7	2.370	3.252	10.1	22.3
5 11	12 21.46	− 1 11.5	2.472	3.264	12.7	22.5

170290 2003 RE_{16} 4 1.4 147.°36 0.°4/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.21	− 5 58.9	1.903	2.764	12.3	21.9
3 12	13 1.66	− 5 20.6	1.840	2.774	8.6	21.7
3 22	12 53.34	− 4 31.9	1.802	2.783	4.5	21.5
4 1	12 44.06	− 3 37.9	1.793	2.792	0.4	21.2
4 11	12 34.83	− 2 44.8	1.813	2.800	4.4	21.5
4 21	12 26.59	− 1 58.3	1.861	2.808	8.4	21.8
5 1	12 20.11	− 1 23.3	1.934	2.815	12.0	22.0
5 11	12 15.83	− 1 2.5	2.028	2.821	15.0	22.2

277643 2006 BO_{112} 4 1.4 0.°16 3.°4/ 3.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.59	−13 15.7	1.487	2.342	15.4	20.3
3 12	13 0.40	−13 34.3	1.417	2.340	11.6	20.0
3 22	12 52.91	−13 35.0	1.369	2.339	7.3	19.8
4 1	12 44.04	−13 19.2	1.346	2.339	3.7	19.5
4 11	12 35.04	−12 51.5	1.349	2.339	5.0	19.6
4 21	12 27.13	−12 18.3	1.377	2.340	9.1	19.9
5 1	12 21.32	−11 46.7	1.428	2.342	13.3	20.1
5 11	12 18.20	−11 22.9	1.499	2.345	16.9	20.3

127904 2003 GB_{23} 4 1.4 322.°73 2.°0/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.12	−11 56.9	1.537	2.399	14.7	19.8
3 12	12 58.66	−11 34.3	1.457	2.386	10.8	19.5
3 22	12 52.02	−10 52.6	1.398	2.374	6.4	19.2
4 1	12 44.01	− 9 55.2	1.366	2.362	2.3	18.9
4 11	12 35.80	− 8 49.0	1.359	2.351	4.5	19.0
4 21	12 28.54	− 7 42.3	1.378	2.340	9.2	19.3
5 1	12 23.21	− 6 43.5	1.420	2.330	13.6	19.5
5 11	12 20.45	− 5 58.8	1.482	2.321	17.4	19.7

427766 2004 TE_{183} 4 1.4 202.°93 1.°2/ 2.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.46	− 9 24.3	1.963	2.816	12.3	21.0
3 12	13 0.54	− 9 13.2	1.888	2.815	8.9	20.7
3 22	12 52.81	− 8 49.8	1.837	2.813	5.0	20.5
4 1	12 44.04	− 8 17.3	1.814	2.811	1.3	20.2
4 11	12 35.20	− 7 40.2	1.819	2.810	3.8	20.4
4 21	12 27.20	− 7 3.9	1.852	2.808	7.8	20.6
5 1	12 20.85	− 6 33.6	1.910	2.805	11.5	20.9
5 11	12 16.65	− 6 13.2	1.991	2.803	14.6	21.1

497891 2006 UF_{279} 4 1.4 153.°50 2.°6/28.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.07	+ 4 26.6	2.941	3.811	8.1	21.9
3 12	12 58.30	+ 5 3.6	2.881	3.819	5.7	21.8
3 22	12 51.43	+ 5 40.8	2.849	3.827	3.4	21.6
4 1	12 43.99	+ 6 14.3	2.848	3.834	2.8	21.6
4 11	12 36.59	+ 6 40.6	2.876	3.840	4.7	21.7
4 21	12 29.81	+ 6 57.2	2.933	3.846	7.2	21.9
5 1	12 24.12	+ 7 2.3	3.016	3.852	9.5	22.1
5 11	12 19.87	+ 6 55.7	3.121	3.857	11.4	22.2

499335 2009 WE_{201} 4 1.4 100.°08 1.°4/31.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.70	− 3 6.2	1.855	2.729	11.9	21.7
3 12	12 59.26	− 2 19.0	1.793	2.734	8.2	21.5
3 22	12 52.11	− 1 23.7	1.756	2.739	4.2	21.3
4 1	12 44.02	− 0 26.0	1.747	2.745	1.5	21.1
4 11	12 35.96	+ 0 27.3	1.766	2.750	5.0	21.4
4 21	12 28.82	+ 1 10.7	1.812	2.755	8.9	21.6
5 1	12 23.36	+ 1 40.0	1.883	2.760	12.5	21.8
5 11	12 20.01	+ 1 53.2	1.974	2.765	15.4	22.0

501386 2013 YU_{68} 4 1.4 93.°05 5.°4/25.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.52	+10 22.6	2.227	3.110	9.8	20.8
3 12	12 57.50	+11 43.4	2.182	3.118	7.3	20.7
3 22	12 51.09	+13 0.1	2.163	3.127	5.5	20.6
4 1	12 43.98	+14 6.1	2.172	3.136	5.8	20.6
4 11	12 36.94	+14 55.5	2.209	3.144	7.9	20.8
4 21	12 30.69	+15 25.4	2.272	3.152	10.4	20.9
5 1	12 25.83	+15 34.7	2.357	3.161	12.8	21.1
5 11	12 22.74	+15 24.5	2.461	3.169	14.8	21.3

462538 2009 BP_{89} 4 1.4 143.°59 1.°3/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.16	−10 41.5	1.870	2.717	13.1	22.8
3 12	13 2.37	−10 12.0	1.806	2.730	9.5	22.6
3 22	12 53.73	− 9 27.8	1.767	2.742	5.4	22.4
4 1	12 44.09	− 8 33.1	1.755	2.753	1.5	22.1
4 11	12 34.51	− 7 33.9	1.773	2.763	4.0	22.3
4 21	12 25.97	− 6 36.8	1.819	2.773	8.1	22.6
5 1	12 19.26	− 5 47.9	1.890	2.781	11.8	22.8
5 11	12 14.84	− 5 11.4	1.983	2.789	14.9	23.0

501462 2014 BD_{7} 4 1.4 156.°06 1.°3/30.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 3.11	− 2 21.2	2.447	3.315	9.6	22.0
3 12	12 57.85	− 1 35.4	2.380	3.319	6.6	21.8
3 22	12 51.27	− 0 44.0	2.341	3.323	3.4	21.6
4 1	12 43.99	+ 0 8.8	2.330	3.327	1.4	21.4
4 11	12 36.72	+ 0 57.8	2.349	3.330	4.2	21.6
4 21	12 30.14	+ 1 38.9	2.397	3.334	7.4	21.8
5 1	12 24.81	+ 2 8.7	2.470	3.337	10.3	22.0
5 11	12 21.14	+ 2 25.5	2.565	3.339	12.7	22.2

423669 2005 YG_{149} 4 1.4 61.°09 1.°0/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.61	− 9 11.1	1.608	2.469	14.2	21.7
3 12	13 1.31	− 8 49.7	1.565	2.496	10.0	21.5
3 22	12 53.14	− 8 14.6	1.545	2.523	5.5	21.3
4 1	12 44.06	− 7 30.4	1.553	2.551	1.2	21.1
4 11	12 35.24	− 6 43.7	1.587	2.579	4.2	21.3
4 21	12 27.67	− 6 0.8	1.649	2.606	8.5	21.7
5 1	12 22.10	− 5 27.3	1.735	2.633	12.3	21.9
5 11	12 18.93	− 5 6.5	1.842	2.661	15.3	22.2

506041 2015 KQ_{73} 4 1.4 348.°20 0.°2/ 1.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 0.32	− 7 49.7	1.796	2.667	12.4	20.7
3 12	12 56.34	− 6 49.7	1.724	2.662	8.7	20.5
3 22	12 50.65	− 5 35.4	1.676	2.658	4.6	20.2
4 1	12 43.97	− 4 12.7	1.655	2.654	0.2	19.9
4 11	12 37.24	− 2 49.5	1.661	2.650	4.4	20.2
4 21	12 31.35	− 1 33.5	1.695	2.648	8.6	20.5
5 1	12 27.04	− 0 31.2	1.753	2.645	12.4	20.7
5 11	12 24.81	+ 0 13.4	1.831	2.644	15.7	20.9

390440 2013 YF_{68} 4 1.4 88.°65 2.°7/29.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.25	+ 1 48.0	2.227	3.105	10.0	21.0
3 12	12 57.97	+ 2 43.5	2.176	3.119	6.9	20.9
3 22	12 51.33	+ 3 41.4	2.151	3.132	3.9	20.7
4 1	12 44.00	+ 4 36.4	2.155	3.146	2.9	20.7
4 11	12 36.76	+ 5 22.9	2.188	3.159	5.4	20.8
4 21	12 30.32	+ 5 57.1	2.249	3.173	8.5	21.1
5 1	12 25.27	+ 6 16.5	2.333	3.186	11.3	21.3
5 11	12 21.98	+ 6 20.4	2.439	3.199	13.7	21.4

3182 Shimanto 4 1.4 134.°96 5.°1/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.59	−23 4.4	2.081	2.873	14.0	16.6
3 12	12 59.88	−22 49.1	2.007	2.883	11.2	16.4
3 22	12 52.44	−22 11.1	1.955	2.892	8.2	16.2
4 1	12 44.05	−21 11.7	1.930	2.901	5.7	16.1
4 11	12 35.66	−19 55.6	1.932	2.910	5.3	16.1
4 21	12 28.19	−18 29.9	1.962	2.918	7.5	16.2
5 1	12 22.37	−17 2.4	2.019	2.926	10.4	16.4
5 11	12 18.68	−15 40.8	2.099	2.933	13.2	16.6

425997 2011 HS_{102} 4 1.4 1.°66 7.°8/25.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.07	+13 3.3	1.533	2.423	12.9	20.5
3 12	12 59.81	+14 17.5	1.485	2.422	9.9	20.3
3 22	12 52.49	+15 23.5	1.461	2.422	8.0	20.2
4 1	12 44.05	+16 12.0	1.462	2.422	8.4	20.2
4 11	12 35.70	+16 35.8	1.487	2.423	10.9	20.4
4 21	12 28.50	+16 32.0	1.536	2.424	14.0	20.6
5 1	12 23.32	+16 1.4	1.604	2.426	17.0	20.8
5 11	12 20.62	+15 7.1	1.689	2.428	19.6	21.0

426202 2012 KB_{12} 4 1.4 112.°13 11.°0/18.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.24	+24 45.4	1.811	2.675	12.7	20.3
3 12	12 59.76	+26 48.1	1.783	2.678	11.3	20.2
3 22	12 52.40	+28 31.9	1.779	2.682	11.1	20.2
4 1	12 44.05	+29 47.4	1.800	2.685	12.1	20.3
4 11	12 35.81	+30 28.8	1.843	2.688	13.9	20.4
4 21	12 28.68	+30 35.4	1.907	2.692	15.9	20.5
5 1	12 23.42	+30 9.6	1.988	2.695	17.8	20.7
5 11	12 20.49	+29 16.7	2.082	2.698	19.4	20.8

108096 2001 FY_{183} 4 1.4 88.°90 1.°2/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.35	− 3 30.2	1.570	2.443	13.8	19.8
3 12	13 2.61	− 2 57.3	1.523	2.463	9.5	19.6
3 22	12 53.86	− 2 15.8	1.499	2.482	4.8	19.4
4 1	12 44.11	− 1 31.8	1.503	2.501	1.2	19.1
4 11	12 34.57	− 0 51.9	1.534	2.520	5.2	19.5
4 21	12 26.30	− 0 21.8	1.592	2.538	9.6	19.8
5 1	12 20.13	− 0 5.4	1.673	2.556	13.5	20.0
5 11	12 16.46	− 0 4.4	1.774	2.574	16.6	20.3

235932 2005 EE_{116} 4 1.4 241.°71 0.°8/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.41	− 4 27.7	2.139	3.007	10.8	20.7
3 12	12 58.28	− 3 45.2	2.064	3.002	7.5	20.5
3 22	12 51.59	− 2 54.2	2.015	2.997	3.9	20.3
4 1	12 44.02	− 1 59.1	1.994	2.992	0.9	20.0
4 11	12 36.40	− 1 5.8	2.002	2.987	4.2	20.3
4 21	12 29.51	− 0 19.6	2.037	2.982	8.0	20.5
5 1	12 24.04	+ 0 15.3	2.098	2.977	11.3	20.7
5 11	12 20.46	+ 0 36.3	2.181	2.972	14.2	20.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
229752 2007 JL_{36}			4 1.4 256.°38	2.°1/ 3.5 17		
	h m	° ′			°	m
3 2	13 4.61	−12 56.5	1.980	2.823	12.6	20.7
3 12	12 59.32	−12 36.1	1.895	2.814	9.4	20.5
3 22	12 52.23	−11 59.9	1.834	2.805	5.7	20.2
4 1	12 44.05	−11 10.3	1.800	2.795	2.4	20.0
4 11	12 35.73	−10 12.7	1.795	2.786	3.9	20.1
4 21	12 28.19	− 9 13.2	1.817	2.776	7.7	20.3
5 1	12 22.23	− 8 18.4	1.865	2.766	11.4	20.5
5 11	12 18.40	− 7 33.6	1.935	2.756	14.6	20.7
40710 1999 RS_{245}			4 1.4 105.°26	4.°4/27.6 18		
3 2	13 4.62	+ 5 41.2	1.990	2.873	10.8	18.9
3 12	12 59.04	+ 6 57.9	1.945	2.887	7.6	18.7
3 22	12 51.93	+ 8 14.1	1.926	2.901	4.9	18.6
4 1	12 44.04	+ 9 22.5	1.935	2.914	4.7	18.6
4 11	12 36.27	+10 16.8	1.972	2.928	7.2	18.7
4 21	12 29.43	+10 52.8	2.035	2.941	10.2	18.9
5 1	12 24.17	+11 8.8	2.121	2.953	13.0	19.1
5 11	12 20.88	+11 5.4	2.227	2.966	15.4	19.3
217981 2001 VN_{88}			4 1.4 154.°76	6.°0/26.1 16		
3 2	13 8.27	+12 48.1	2.168	3.041	10.5	21.2
3 12	13 1.52	+13 48.3	2.120	3.049	7.9	21.0
3 22	12 53.21	+14 41.9	2.098	3.056	6.2	20.9
4 1	12 44.10	+15 22.6	2.104	3.063	6.4	20.9
4 11	12 35.09	+15 45.5	2.138	3.069	8.3	21.1
4 21	12 27.03	+15 48.4	2.199	3.074	10.9	21.2
5 1	12 20.57	+15 31.3	2.282	3.079	13.4	21.4
5 11	12 16.12	+14 56.1	2.384	3.083	15.4	21.6
386611 2009 HF_{97}			4 1.4 98.°59	1.°5/30.6 17		
3 2	13 0.88	− 3 21.3	2.323	3.194	9.9	20.7
3 12	12 56.37	− 2 11.7	2.257	3.198	6.8	20.5
3 22	12 50.54	− 0 54.5	2.217	3.201	3.5	20.3
4 1	12 43.99	+ 0 24.7	2.207	3.204	1.5	20.1
4 11	12 37.44	+ 1 39.7	2.226	3.207	4.4	20.4
4 21	12 31.59	+ 2 45.1	2.274	3.210	7.7	20.6
5 1	12 27.00	+ 3 36.6	2.346	3.213	10.7	20.8
5 11	12 24.07	+ 4 12.3	2.441	3.216	13.3	20.9
149683 2004 GM_{30}			4 1.4 290.°17	0.°6/ 1.9 17		
3 2	13 5.83	− 8 3.1	1.649	2.515	13.6	20.6
3 12	13 0.55	− 7 40.4	1.559	2.494	9.8	20.3
3 22	12 53.05	− 7 3.4	1.493	2.473	5.4	20.0
4 1	12 44.10	− 6 15.8	1.453	2.452	0.7	19.6
4 11	12 34.83	− 5 23.9	1.440	2.430	4.6	19.8
4 21	12 26.39	− 4 34.8	1.453	2.409	9.5	20.0
5 1	12 19.81	− 3 55.4	1.490	2.388	13.9	20.3
5 11	12 15.77	− 3 30.6	1.547	2.367	17.7	20.4
153506 2001 RC_{133}			4 1.4 127.°84	2.°2/30.0 18		
3 2	13 6.46	− 0 15.8	2.174	3.044	10.6	21.3
3 12	13 0.21	+ 0 41.2	2.122	3.062	7.3	21.1
3 22	12 52.51	+ 1 42.5	2.097	3.078	3.8	20.9
4 1	12 44.08	+ 2 42.5	2.100	3.094	2.3	20.8
4 11	12 35.76	+ 3 35.4	2.134	3.110	5.1	21.0
4 21	12 28.33	+ 4 16.7	2.196	3.124	8.4	21.3
5 1	12 22.41	+ 4 43.5	2.282	3.138	11.4	21.5
5 11	12 18.40	+ 4 54.7	2.390	3.151	13.9	21.7
73018 2002 EN_{66}			4 1.4 291.°59	0.°5/ 1.1 18		
3 2	13 4.84	− 6 48.4	1.433	2.310	14.6	19.6
3 12	13 0.03	− 5 59.5	1.352	2.293	10.4	19.3
3 22	12 52.82	− 4 53.9	1.293	2.276	5.4	19.0
4 1	12 44.10	− 3 37.6	1.260	2.260	0.5	18.6
4 11	12 35.10	− 2 19.8	1.254	2.243	5.5	18.9
4 21	12 27.10	− 1 10.1	1.272	2.226	10.8	19.1
5 1	12 21.17	− 0 16.5	1.313	2.210	15.5	19.4
5 11	12 18.00	+ 0 16.3	1.373	2.194	19.5	19.6
28787 Peterpinko			4 1.4 226.°41	2.°2/30.4 18		
3 2	13 6.22	− 0 38.9	1.908	2.783	11.6	18.8
3 12	13 0.40	+ 0 7.2	1.835	2.777	8.0	18.6
3 22	12 52.78	+ 0 59.6	1.788	2.770	4.2	18.4
4 1	12 44.10	+ 1 52.3	1.768	2.763	2.3	18.2
4 11	12 35.34	+ 2 39.1	1.777	2.756	5.5	18.4
4 21	12 27.43	+ 3 14.5	1.813	2.748	9.4	18.6
5 1	12 21.18	+ 3 34.9	1.873	2.740	13.0	18.8
5 11	12 17.10	+ 3 38.6	1.953	2.732	16.0	19.0
406129 2006 VN_{84}			4 1.4 88.°48	0.°9/31.7 18		
3 2	13 9.25	− 3 48.2	1.717	2.586	13.0	20.9
3 12	13 2.40	− 3 19.4	1.670	2.608	9.0	20.7
3 22	12 53.72	− 2 42.7	1.648	2.631	4.6	20.5
4 1	12 44.14	− 2 3.3	1.654	2.653	1.0	20.3
4 11	12 34.77	− 1 27.1	1.689	2.675	4.8	20.6
4 21	12 26.60	− 0 59.2	1.750	2.696	8.9	20.9
5 1	12 20.37	− 0 43.4	1.836	2.717	12.5	21.1
5 11	12 16.49	− 0 41.4	1.942	2.738	15.5	21.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
387109 2012 TM_{151}			4 1.4 166.°08	0.°0/ 1.4 17		
	h m	° ′			°	m
3 2	13 3.75	− 6 41.4	2.553	3.408	9.8	22.2
3 12	12 58.29	− 6 10.8	2.481	3.411	6.9	22.0
3 22	12 51.53	− 5 32.0	2.435	3.414	3.6	21.8
4 1	12 44.06	− 4 48.4	2.418	3.417	0.2	21.5
4 11	12 36.57	− 4 4.2	2.431	3.420	3.3	21.8
4 21	12 29.74	− 3 23.8	2.474	3.422	6.6	22.0
5 1	12 24.14	− 2 50.7	2.543	3.423	9.5	22.2
5 11	12 20.17	− 2 27.8	2.634	3.425	12.0	22.4
358093 2006 KQ_{3}			4 1.4 282.°24	3.°1/30.1 17		
3 2	13 8.10	+ 0 33.4	1.476	2.360	13.8	21.1
3 12	13 2.31	+ 1 16.7	1.395	2.340	9.7	20.8
3 22	12 54.04	+ 2 7.1	1.338	2.321	5.3	20.5
4 1	12 44.19	+ 2 57.3	1.307	2.301	3.3	20.3
4 11	12 34.03	+ 3 39.2	1.302	2.281	7.1	20.5
4 21	12 24.85	+ 4 5.9	1.322	2.261	11.9	20.7
5 1	12 17.79	+ 4 12.9	1.365	2.241	16.3	20.9
5 11	12 13.55	+ 3 59.0	1.425	2.221	20.1	21.1
103287 2000 AD_{41}			4 1.4 125.°62	1.°1/ 2.3 18		
3 2	13 10.95	− 9 12.1	1.516	2.375	15.0	19.8
3 12	13 3.95	− 8 53.1	1.457	2.388	10.7	19.6
3 22	12 54.70	− 8 18.9	1.422	2.400	5.9	19.3
4 1	12 44.22	− 7 33.9	1.413	2.412	1.3	19.0
4 11	12 33.82	− 6 44.8	1.432	2.423	4.6	19.3
4 21	12 24.71	− 5 59.0	1.477	2.433	9.4	19.6
5 1	12 17.84	− 5 22.8	1.547	2.444	13.6	19.9
5 11	12 13.70	− 5 0.4	1.637	2.453	17.1	20.1
109042 2001 QB_{14}			4 1.4 148.°17	0.°8/ 2.2 18		
3 2	13 7.21	− 8 58.6	2.119	2.969	11.7	20.3
3 12	13 0.89	− 8 33.7	2.052	2.978	8.3	20.1
3 22	12 52.96	− 7 57.4	2.009	2.986	4.6	19.9
4 1	12 44.14	− 7 13.3	1.996	2.995	0.9	19.6
4 11	12 35.35	− 6 26.3	2.012	3.002	3.6	19.8
4 21	12 27.42	− 5 41.8	2.057	3.009	7.4	20.1
5 1	12 21.06	− 5 4.6	2.127	3.015	10.8	20.3
5 11	12 16.72	− 4 38.1	2.220	3.021	13.6	20.5
233974 1993 FG_{45}			4 1.5 101.°89	0.°2/ 1.3 17		
3 2	13 6.50	− 5 30.5	1.864	2.730	12.3	20.5
3 12	13 0.60	− 5 10.6	1.797	2.733	8.6	20.2
3 22	12 52.89	− 4 41.3	1.755	2.736	4.5	20.0
4 1	12 44.17	− 4 6.7	1.740	2.739	0.2	19.7
4 11	12 35.43	− 3 32.2	1.753	2.742	4.3	20.0
4 21	12 27.62	− 3 3.0	1.794	2.745	8.4	20.2
5 1	12 21.52	− 2 43.3	1.860	2.748	12.1	20.5
5 11	12 17.63	− 2 35.9	1.946	2.751	15.2	20.7
371063 2005 UB_{253}			4 1.5 172.°20	3.°9/ 5.9 17		
3 2	13 5.43	−19 55.9	2.247	3.051	12.7	21.5
3 12	12 59.72	−19 34.3	2.165	3.054	9.9	21.3
3 22	12 52.39	−18 53.2	2.108	3.057	6.9	21.2
4 1	12 44.15	−17 54.5	2.078	3.059	4.3	21.0
4 11	12 35.86	−16 42.7	2.077	3.061	4.4	21.0
4 21	12 28.37	−15 24.1	2.104	3.062	6.9	21.2
5 1	12 22.38	−14 5.8	2.159	3.062	10.0	21.3
5 11	12 18.35	−12 54.2	2.237	3.062	12.8	21.5
415139 2012 DM_{61}			4 1.5 58.°48	2.°6/30.6 16		
3 2	13 8.64	+ 0 15.5	1.471	2.354	13.9	21.2
3 12	13 2.36	+ 0 45.5	1.417	2.362	9.6	21.0
3 22	12 53.88	+ 1 20.4	1.386	2.370	5.1	20.7
4 1	12 44.21	+ 1 53.9	1.382	2.377	2.7	20.6
4 11	12 34.64	+ 2 19.1	1.404	2.385	6.4	20.8
4 21	12 26.32	+ 2 31.2	1.452	2.393	10.8	21.1
5 1	12 20.17	+ 2 27.2	1.522	2.402	14.8	21.3
5 11	12 16.67	+ 2 6.6	1.611	2.410	18.0	21.6
74537 1999 JQ_{11}			4 1.5 66.°62	22.°3/20.2 18		
3 2	13 27.47	+41 7.7	1.036	1.850	23.6	18.4
3 12	13 16.27	+42 25.0	1.023	1.858	22.6	18.4
3 22	13 1.14	+42 50.2	1.024	1.865	22.3	18.4
4 1	12 44.52	+42 11.0	1.042	1.874	22.8	18.4
4 11	12 29.21	+40 27.0	1.075	1.882	24.1	18.6
4 21	12 17.24	+37 48.7	1.123	1.890	25.7	18.7
5 1	12 9.60	+34 31.0	1.185	1.899	27.4	18.9
5 11	12 6.31	+30 49.4	1.259	1.907	28.9	19.1
58020 2002 VE_{17}			4 1.5 53.°69	0.°7/ 2.3 18		
3 2	13 2.55	−11 14.6	1.826	2.682	12.9	18.4
3 12	12 57.69	−10 3.9	1.780	2.710	9.2	18.2
3 22	12 51.26	− 8 38.0	1.760	2.737	5.0	18.0
4 1	12 44.11	− 7 3.5	1.767	2.765	0.9	17.8
4 11	12 37.14	− 5 28.5	1.803	2.794	3.8	18.1
4 21	12 31.19	− 4 0.9	1.866	2.822	7.8	18.4
5 1	12 26.88	− 2 46.9	1.955	2.850	11.3	18.6
5 11	12 24.57	− 1 50.2	2.066	2.878	14.1	18.9

381702 2009 FP_{75} 4 1.5 33°.05 6°.6/26.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 5.52	+11 54.8	1.685	2.572	12.2	19.7
3 12	12 59.86	+12 48.4	1.649	2.587	9.1	19.6
3 22	12 52.44	+13 34.3	1.638	2.602	6.9	19.5
4 1	12 44.16	+14 5.2	1.652	2.619	7.0	19.5
4 11	12 36.11	+14 15.9	1.693	2.635	9.2	19.7
4 21	12 29.22	+14 4.6	1.757	2.653	12.1	19.9
5 1	12 24.18	+13 31.9	1.843	2.671	14.9	20.1
5 11	12 21.39	+12 40.6	1.947	2.689	17.2	20.3

423221 2004 RP_{201} 4 1.5 143°.40 1°.3/ 2.9 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.42	−10 29.7	2.437	3.275	10.8	21.9
3 12	13 0.90	−10 18.4	2.368	3.287	7.8	21.7
3 22	12 52.93	− 9 56.3	2.326	3.298	4.5	21.5
4 1	12 44.20	− 9 26.1	2.312	3.309	1.5	21.3
4 11	12 35.49	− 8 51.6	2.329	3.319	3.2	21.5
4 21	12 27.55	− 8 16.9	2.375	3.329	6.5	21.7
5 1	12 21.00	− 7 46.4	2.449	3.337	9.5	21.9
5 11	12 16.26	− 7 23.3	2.545	3.346	12.1	22.1

329806 2004 RG_{50} 4 1.5 269°.52 3°.1/28.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.86	+ 0 18.7	1.991	2.869	11.0	21.5
3 12	12 58.86	+ 1 47.2	1.901	2.845	7.7	21.2
3 22	12 52.08	+ 3 24.5	1.839	2.820	4.3	21.0
4 1	12 44.17	+ 5 3.1	1.805	2.795	3.4	20.8
4 11	12 36.02	+ 6 34.4	1.800	2.769	6.5	21.0
4 21	12 28.56	+ 7 51.0	1.822	2.743	10.3	21.2
5 1	12 22.58	+ 8 47.7	1.868	2.716	13.9	21.3
5 11	12 18.66	+ 9 22.1	1.934	2.689	16.9	21.5

288095 2003 WD_{18} 4 1.5 170°.66 1°.2/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	12 57.93	−12 14.0	4.538	5.364	6.4	20.8
3 12	12 53.89	−12 6.1	4.455	5.365	4.7	20.7
3 22	12 49.16	−11 51.7	4.399	5.365	2.9	20.6
4 1	12 44.04	−11 32.3	4.372	5.366	1.3	20.4
4 11	12 38.91	−11 9.7	4.377	5.366	1.9	20.5
4 21	12 34.09	−10 45.9	4.411	5.366	3.7	20.6
5 1	12 29.91	−10 23.0	4.474	5.367	5.5	20.7
5 11	12 26.60	−10 3.1	4.562	5.367	7.1	20.9

375852 2009 VZ_{11} 4 1.5 65°.92 2°.2/30.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.44	− 0 10.0	1.739	2.617	12.4	20.9
3 12	13 1.32	+ 0 17.2	1.679	2.621	8.6	20.7
3 22	12 53.29	+ 0 49.1	1.643	2.626	4.5	20.5
4 1	12 44.23	+ 1 20.5	1.635	2.631	2.2	20.3
4 11	12 35.20	+ 1 45.5	1.654	2.636	5.6	20.5
4 21	12 27.20	+ 1 59.6	1.700	2.641	9.6	20.8
5 1	12 21.05	+ 2 0.1	1.770	2.646	13.2	21.0
5 11	12 17.21	+ 1 45.7	1.860	2.651	16.3	21.2

369996 1999 TT_{7} 4 1.5 154°.07 2°.3/29.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.86	+ 2 45.0	2.702	3.566	9.0	22.0
3 12	13 1.04	+ 3 14.3	2.641	3.577	6.2	21.9
3 22	12 52.95	+ 3 44.7	2.607	3.586	3.5	21.7
4 1	12 44.22	+ 4 12.4	2.604	3.595	2.4	21.6
4 11	12 35.54	+ 4 33.7	2.632	3.603	4.6	21.8
4 21	12 27.57	+ 4 45.8	2.690	3.611	7.4	22.0
5 1	12 20.89	+ 4 47.2	2.773	3.618	10.0	22.2
5 11	12 15.85	+ 4 37.1	2.880	3.624	12.1	22.3

115955 2003 WJ_{40} 4 1.5 3°.19 0°.5/ 1.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.31	− 4 26.6	1.372	2.251	15.0	19.6
3 12	13 2.40	− 4 15.8	1.308	2.251	10.6	19.3
3 22	12 54.05	− 3 54.4	1.267	2.251	5.5	19.0
4 1	12 44.27	− 3 27.5	1.252	2.251	0.5	18.7
4 11	12 34.43	− 3 1.6	1.262	2.251	5.4	19.0
4 21	12 25.83	− 2 42.8	1.297	2.253	10.5	19.3
5 1	12 19.51	− 2 36.1	1.355	2.254	15.0	19.6
5 11	12 16.05	− 2 44.2	1.432	2.256	18.7	19.8

356950 2012 VF_{75} 4 1.5 42°.18 4°.1/ 6.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.46	−20 38.2	1.853	2.671	14.4	19.6
3 12	12 57.08	−19 55.6	1.792	2.688	11.2	19.4
3 22	12 51.03	−18 49.5	1.754	2.707	7.7	19.2
4 1	12 44.13	−17 23.5	1.742	2.725	4.7	19.1
4 11	12 37.33	−15 44.6	1.757	2.744	4.6	19.1
4 21	12 31.51	−14 1.5	1.800	2.763	7.4	19.3
5 1	12 27.34	−12 23.0	1.869	2.783	10.7	19.6
5 11	12 25.23	−10 56.3	1.960	2.803	13.7	19.8

383719 2007 UN_{59} 4 1.5 24°.43 1°.2/31.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.41	− 2 47.6	1.988	2.860	11.3	20.5
3 12	12 59.06	− 2 18.1	1.922	2.862	7.8	20.3
3 22	12 52.07	− 1 41.8	1.881	2.864	4.0	20.0
4 1	12 44.18	− 1 3.3	1.869	2.867	1.2	19.8
4 11	12 36.29	− 0 28.1	1.884	2.869	4.6	20.1
4 21	12 29.23	− 0 0.6	1.927	2.872	8.4	20.3
5 1	12 23.73	+ 0 15.4	1.995	2.875	11.8	20.5
5 11	12 20.23	+ 0 18.1	2.083	2.878	14.6	20.7

396562 1999 TQ_{314} 4 1.5 230°.32 0°.8/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 10.00	− 8 29.1	1.502	2.364	14.9	22.0
3 12	13 3.60	− 8 8.9	1.423	2.356	10.7	21.7
3 22	12 54.73	− 7 33.2	1.368	2.347	5.9	21.4
4 1	12 44.31	− 6 46.0	1.339	2.337	1.0	21.0
4 11	12 33.65	− 5 54.2	1.337	2.327	4.9	21.3
4 21	12 24.06	− 5 5.5	1.361	2.317	10.0	21.5
5 1	12 16.66	− 4 27.0	1.409	2.306	14.6	21.8
5 11	12 12.11	− 4 3.6	1.476	2.294	18.5	22.0

469175 2016 CS_{259} 4 1.5 74°.17 4°.0/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.99	−21 36.3	1.693	2.509	15.7	20.7
3 12	12 58.32	−20 24.5	1.623	2.519	12.2	20.5
3 22	12 51.75	−18 43.6	1.575	2.529	8.2	20.3
4 1	12 44.17	−16 38.3	1.553	2.539	4.7	20.1
4 11	12 36.67	−14 17.9	1.560	2.549	4.7	20.1
4 21	12 30.23	−11 54.5	1.595	2.559	8.1	20.3
5 1	12 25.65	− 9 39.7	1.656	2.569	11.9	20.6
5 11	12 23.37	− 7 42.5	1.740	2.579	15.3	20.8

38686 2000 QE_{10} 4 1.5 213°.61 1°.5/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.74	−11 13.3	2.007	2.849	12.6	19.6
3 12	13 2.25	−10 48.5	1.920	2.841	9.2	19.4
3 22	12 53.85	−10 9.0	1.858	2.831	5.3	19.1
4 1	12 44.28	− 9 17.6	1.824	2.821	1.7	18.9
4 11	12 34.54	− 8 19.9	1.819	2.810	3.9	19.0
4 21	12 25.60	− 7 22.0	1.843	2.797	8.0	19.2
5 1	12 18.32	− 6 30.2	1.893	2.784	11.8	19.4
5 11	12 13.27	− 5 49.6	1.965	2.770	15.0	19.6

98417 2000 UW_{21} 4 1.5 156°.31 1°.8/30.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.48	− 2 0.2	1.923	2.792	11.8	20.8
3 12	13 1.90	− 1 9.2	1.861	2.800	8.2	20.6
3 22	12 53.55	− 0 11.2	1.826	2.808	4.2	20.3
4 1	12 44.26	+ 0 47.8	1.819	2.815	1.9	20.2
4 11	12 35.03	+ 1 41.2	1.841	2.821	5.2	20.4
4 21	12 26.76	+ 2 23.8	1.891	2.827	9.1	20.6
5 1	12 20.23	+ 2 51.6	1.966	2.832	12.5	20.9
5 11	12 15.88	+ 3 3.0	2.061	2.836	15.4	21.1

382176 2012 JR_{25} 4 1.5 307°.44 4°.3/28.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.94	+ 3 30.8	1.507	2.397	13.2	20.7
3 12	13 0.83	+ 4 22.4	1.422	2.369	9.4	20.4
3 22	12 53.33	+ 5 18.5	1.361	2.342	5.6	20.1
4 1	12 44.26	+ 6 11.1	1.325	2.314	4.6	19.9
4 11	12 34.82	+ 6 51.7	1.315	2.287	8.1	20.1
4 21	12 26.26	+ 7 13.5	1.330	2.260	12.6	20.2
5 1	12 19.69	+ 7 12.8	1.365	2.234	16.8	20.4
5 11	12 15.84	+ 6 48.8	1.419	2.208	20.5	20.6

389708 2011 RV_{6} 4 1.5 13°.96 3°.0/ 4.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.23	−13 50.7	1.834	2.678	13.5	20.6
3 12	12 59.13	−13 55.8	1.764	2.681	10.1	20.4
3 22	12 52.19	−13 44.8	1.717	2.685	6.4	20.2
4 1	12 44.20	−13 19.8	1.697	2.689	3.3	20.0
4 11	12 36.16	−12 45.1	1.704	2.694	4.2	20.1
4 21	12 29.02	−12 6.2	1.737	2.699	7.7	20.3
5 1	12 23.58	−11 29.3	1.796	2.705	11.3	20.5
5 11	12 20.35	−10 59.7	1.876	2.711	14.5	20.7

62111 2000 RG_{99} 4 1.5 36°.15 7°.0/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.66	−25 31.3	1.584	2.384	17.3	17.8
3 12	12 59.03	−25 29.0	1.516	2.392	14.2	17.6
3 22	12 52.23	−24 56.5	1.469	2.401	10.8	17.4
4 1	12 44.21	−23 54.4	1.444	2.410	7.9	17.3
4 11	12 36.17	−22 28.1	1.445	2.419	7.1	17.2
4 21	12 29.28	−20 46.8	1.471	2.430	9.1	17.4
5 1	12 24.44	−19 1.7	1.521	2.440	12.3	17.6
5 11	12 22.17	−17 23.4	1.593	2.451	15.5	17.8

126001 2001 YE_{46} 4 1.5 195°.24 4°.2/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.82	−18 41.8	1.921	2.739	14.0	20.1
3 12	13 0.27	−18 37.2	1.841	2.738	10.9	19.9
3 22	12 52.81	−18 12.2	1.784	2.738	7.5	19.7
4 1	12 44.24	−17 28.2	1.753	2.736	4.7	19.5
4 11	12 35.55	−16 29.7	1.750	2.735	4.8	19.5
4 21	12 27.74	−15 23.1	1.774	2.734	7.8	19.7
5 1	12 21.65	−14 16.2	1.824	2.732	11.2	19.9
5 11	12 17.81	−13 15.8	1.896	2.730	14.4	20.1

480783 2016 PX_{25} 4 1.5 231°.59 7°.5/20.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.62	+20 52.4	2.614	3.477	9.3	21.3
3 12	12 57.61	+22 25.4	2.565	3.469	7.9	21.2
3 22	12 51.26	+23 48.6	2.543	3.462	7.5	21.2
4 1	12 44.17	+24 55.2	2.548	3.453	8.2	21.2
4 11	12 37.06	+25 40.8	2.579	3.445	9.7	21.3
4 21	12 30.61	+26 3.1	2.634	3.436	11.5	21.4
5 1	12 25.40	+26 2.3	2.709	3.427	13.3	21.5
5 11	12 21.84	+25 40.4	2.801	3.418	14.8	21.6

202495 2006 BB_{86} 4 1.5 147.°43 3.°1/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.46	+ 0 15.5	1.607	2.487	13.1	21.3
3 12	13 2.13	+ 1 20.7	1.551	2.495	9.1	21.0
3 22	12 53.76	+ 2 31.9	1.519	2.502	4.9	20.8
4 1	12 44.29	+ 3 41.2	1.515	2.508	3.3	20.7
4 11	12 34.89	+ 4 40.3	1.539	2.514	6.7	20.9
4 21	12 26.65	+ 5 23.1	1.588	2.520	10.8	21.2
5 1	12 20.40	+ 5 46.0	1.661	2.525	14.5	21.4
5 11	12 16.64	+ 5 48.4	1.753	2.529	17.6	21.7

375915 2009 WL_{26} 4 1.5 61.°65 4.°1/ 5.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.36	−19 31.4	1.741	2.566	15.0	20.2
3 12	12 58.59	−18 56.3	1.671	2.573	11.6	20.0
3 22	12 51.92	−17 56.9	1.624	2.580	7.9	19.8
4 1	12 44.21	−16 36.2	1.601	2.587	4.6	19.6
4 11	12 36.51	−15 1.2	1.606	2.594	4.7	19.6
4 21	12 29.81	−13 21.0	1.639	2.602	8.0	19.8
5 1	12 24.91	−11 44.9	1.696	2.609	11.6	20.0
5 11	12 22.29	−10 20.8	1.776	2.617	14.9	20.3

192856 1999 VG_{190} 4 1.5 145.°20 2.°1/ 4.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.24	−14 48.1	2.448	3.274	11.1	20.8
3 12	12 58.72	−14 12.6	2.376	3.284	8.2	20.6
3 22	12 51.83	−13 22.5	2.329	3.294	5.1	20.5
4 1	12 44.21	−12 20.8	2.310	3.303	2.4	20.3
4 11	12 36.61	−11 12.5	2.322	3.312	3.2	20.4
4 21	12 29.74	−10 3.0	2.363	3.320	6.3	20.6
5 1	12 24.20	− 8 57.9	2.431	3.327	9.3	20.8
5 11	12 20.38	− 8 1.8	2.522	3.334	11.9	20.9

354571 2004 TN_{150} 4 1.5 334.°50 0.°0/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.20	− 4 51.9	1.252	2.131	16.1	20.0
3 12	13 4.03	− 4 58.9	1.184	2.126	11.4	19.7
3 22	12 55.06	− 4 55.2	1.138	2.120	6.1	19.4
4 1	12 44.37	− 4 44.7	1.116	2.116	0.3	18.9
4 11	12 33.47	− 4 33.1	1.121	2.111	5.6	19.3
4 21	12 23.90	− 4 26.5	1.149	2.107	11.1	19.6
5 1	12 16.86	− 4 30.0	1.199	2.104	16.0	19.9
5 11	12 13.04	− 4 47.0	1.267	2.101	20.1	20.1

117428 2005 AS_{22} 4 1.5 0.°54 6.°0/28.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.74	+ 5 32.1	1.028	1.936	16.2	18.8
3 12	13 0.33	+ 6 21.5	0.978	1.933	11.5	18.5
3 22	12 53.11	+ 7 10.7	0.949	1.931	7.3	18.2
4 1	12 44.27	+ 7 48.8	0.942	1.930	6.4	18.2
4 11	12 35.46	+ 8 6.3	0.958	1.931	10.0	18.4
4 21	12 28.18	+ 7 57.9	0.995	1.934	14.8	18.6
5 1	12 23.57	+ 7 22.9	1.050	1.938	19.2	18.9
5 11	12 22.18	+ 6 23.8	1.121	1.943	22.9	19.2

285302 1998 UD_{12} 4 1.5 200.°71 0.°5/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.87	− 9 21.8	1.829	2.683	13.0	21.9
3 12	13 1.72	− 8 31.5	1.750	2.679	9.3	21.7
3 22	12 53.59	− 7 25.5	1.696	2.674	5.1	21.4
4 1	12 44.30	− 6 8.9	1.670	2.669	0.6	21.1
4 11	12 34.90	− 4 49.1	1.673	2.662	4.3	21.3
4 21	12 26.42	− 3 33.9	1.704	2.655	8.7	21.6
5 1	12 19.72	− 2 30.2	1.760	2.647	12.7	21.8
5 11	12 15.35	− 1 42.6	1.837	2.638	16.1	22.0

423606 2005 WW_{34} 4 1.5 121.°84 0.°6/31.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.22	− 5 16.1	1.971	2.836	11.8	22.3
3 12	13 0.29	− 4 38.6	1.911	2.847	8.2	22.0
3 22	12 52.71	− 3 52.1	1.875	2.857	4.2	21.8
4 1	12 44.26	− 3 1.2	1.868	2.867	0.6	21.6
4 11	12 35.85	− 2 11.9	1.890	2.877	4.3	21.9
4 21	12 28.38	− 1 29.5	1.939	2.887	8.1	22.1
5 1	12 22.52	− 0 58.4	2.014	2.896	11.6	22.3
5 11	12 18.73	− 0 40.9	2.110	2.905	14.5	22.6

42267 2001 QJ_{81} 4 1.5 167.°84 3.°3/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.75	−16 52.8	2.382	3.193	11.9	19.2
3 12	13 1.98	−16 56.6	2.302	3.198	9.1	19.0
3 22	12 53.61	−16 45.3	2.248	3.203	6.1	18.9
4 1	12 44.30	−16 19.9	2.222	3.207	3.7	18.7
4 11	12 34.93	−15 43.7	2.226	3.210	4.0	18.7
4 21	12 26.33	−15 1.3	2.258	3.212	6.7	18.9
5 1	12 19.20	−14 18.0	2.318	3.214	9.7	19.1
5 11	12 14.02	−13 39.0	2.402	3.215	12.4	19.3

336201 2008 SU_{3} 4 1.5 202.°88 3.°0/28.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.60	+ 0 8.5	1.977	2.858	11.0	20.1
3 12	12 57.83	+ 1 38.3	1.912	2.857	7.6	19.9
3 22	12 51.46	+ 3 14.6	1.873	2.855	4.2	19.7
4 1	12 44.20	+ 4 49.9	1.863	2.854	3.3	19.7
4 11	12 36.92	+ 6 15.9	1.882	2.852	6.2	19.8
4 21	12 30.45	+ 7 26.3	1.928	2.851	9.7	20.0
5 1	12 25.48	+ 8 16.9	1.997	2.849	13.0	20.2
5 11	12 22.46	+ 8 46.2	2.087	2.847	15.7	20.4

372954 2011 BJ_{89} 4 1.5 166.°03 8.°2/ 9.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.87	−29 56.6	2.151	2.892	15.2	21.1
3 12	13 3.18	−30 41.8	2.069	2.895	12.9	20.9
3 22	12 54.41	−31 3.1	2.008	2.898	10.7	20.8
4 1	12 44.35	−30 58.0	1.972	2.901	8.8	20.7
4 11	12 34.08	−30 27.8	1.961	2.903	8.2	20.6
4 21	12 24.69	−29 36.8	1.976	2.905	9.2	20.7
5 1	12 17.11	−28 32.4	2.017	2.906	11.3	20.8
5 11	12 11.94	−27 23.1	2.080	2.907	13.6	21.0

285238 1997 WX_{10} 4 1.5 268.°14 4.°7/28.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.07	+ 7 3.6	1.815	2.693	11.9	21.3
3 12	13 3.34	+ 7 39.4	1.736	2.675	8.6	21.0
3 22	12 54.50	+ 8 13.8	1.682	2.657	5.6	20.8
4 1	12 44.36	+ 8 40.2	1.656	2.639	5.0	20.7
4 11	12 34.04	+ 8 52.7	1.658	2.620	7.7	20.8
4 21	12 24.61	+ 8 47.5	1.686	2.602	11.4	21.0
5 1	12 17.02	+ 8 23.3	1.737	2.583	14.9	21.2
5 11	12 11.87	+ 7 40.8	1.808	2.563	17.9	21.4

162615 2000 SO_{103} 4 1.5 44.°87 2.°0/ 2.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.54	− 9 11.0	1.267	2.136	16.7	19.0
3 12	13 4.07	− 9 27.1	1.212	2.146	12.1	18.7
3 22	12 54.96	− 9 27.4	1.178	2.156	6.9	18.4
4 1	12 44.38	− 9 14.8	1.169	2.166	2.2	18.2
4 11	12 33.85	− 8 54.8	1.185	2.177	5.1	18.4
4 21	12 24.78	− 8 34.2	1.227	2.189	10.2	18.7
5 1	12 18.26	− 8 19.5	1.290	2.200	14.7	19.0
5 11	12 14.83	− 8 15.5	1.373	2.213	18.5	19.3

26075 Levitsvet 4 1.5 224.°85 0.°5/ 1.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.25	− 6 16.8	1.721	2.586	13.2	19.1
3 12	13 2.14	− 5 28.5	1.640	2.576	9.3	18.8
3 22	12 53.89	− 4 26.7	1.583	2.565	4.9	18.6
4 1	12 44.34	− 3 17.0	1.554	2.553	0.5	18.2
4 11	12 34.60	− 2 7.1	1.553	2.541	4.9	18.5
4 21	12 25.78	− 1 4.5	1.580	2.528	9.6	18.7
5 1	12 18.83	− 0 15.7	1.631	2.514	13.8	19.0
5 11	12 14.35	+ 0 15.5	1.702	2.499	17.3	19.2

83798 2001 TG_{214} 4 1.5 325.°43 4.°0/ 5.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.37	−17 23.4	2.093	2.914	12.9	19.2
3 12	12 59.87	−17 37.9	2.011	2.910	10.0	19.0
3 22	12 52.61	−17 35.7	1.952	2.907	6.9	18.8
4 1	12 44.28	−17 17.6	1.920	2.903	4.4	18.6
4 11	12 35.81	−16 46.7	1.916	2.900	4.6	18.6
4 21	12 28.11	−16 7.8	1.939	2.897	7.4	18.8
5 1	12 21.95	−15 26.7	1.988	2.894	10.5	19.0
5 11	12 17.88	−14 49.2	2.059	2.891	13.5	19.2

61924 2000 RL_{2} 4 1.5 108.°83 0.°3/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.03	− 7 25.5	2.518	3.370	10.0	18.8
3 12	12 58.51	− 7 2.3	2.454	3.383	7.0	18.6
3 22	12 51.71	− 6 30.8	2.417	3.396	3.8	18.4
4 1	12 44.24	− 5 54.1	2.409	3.408	0.4	18.2
4 11	12 36.82	− 5 16.2	2.431	3.420	3.2	18.4
4 21	12 30.09	− 4 41.3	2.481	3.432	6.4	18.6
5 1	12 24.63	− 4 13.0	2.558	3.444	9.3	18.8
5 11	12 20.80	− 3 53.7	2.658	3.455	11.8	19.0

458755 2011 RU_{10} 4 1.5 180.°11 1.°9/30.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.44	− 2 25.8	1.832	2.702	12.3	22.1
3 12	13 2.02	− 1 28.3	1.764	2.704	8.5	21.9
3 22	12 53.71	− 0 22.3	1.722	2.705	4.4	21.6
4 1	12 44.34	+ 0 45.6	1.709	2.705	2.0	21.5
4 11	12 34.95	+ 1 48.2	1.724	2.705	5.5	21.7
4 21	12 26.52	+ 2 39.1	1.767	2.704	9.5	21.9
5 1	12 19.88	+ 3 14.0	1.834	2.702	13.2	22.1
5 11	12 15.54	+ 3 30.9	1.921	2.699	16.3	22.4

341436 2007 TC_{233} 4 1.5 194.°01 1.°0/31.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.10	− 3 19.2	2.468	3.332	9.7	21.2
3 12	12 58.65	− 2 43.4	2.394	3.330	6.7	21.0
3 22	12 51.84	− 2 1.3	2.346	3.329	3.5	20.8
4 1	12 44.27	− 1 16.8	2.328	3.326	1.0	20.6
4 11	12 36.66	− 0 34.5	2.340	3.324	3.9	20.8
4 21	12 29.71	+ 0 1.4	2.380	3.321	7.2	21.0
5 1	12 24.02	+ 0 27.5	2.446	3.318	10.2	21.2
5 11	12 20.00	+ 0 41.7	2.534	3.314	12.7	21.4

311156 2004 TZ_{41} 4 1.5 210.°18 0.°2/ 1.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.85	− 6 30.3	1.836	2.692	12.9	21.3
3 12	13 3.85	− 6 14.4	1.755	2.686	9.2	21.1
3 22	12 54.77	− 5 47.8	1.700	2.679	4.9	20.8
4 1	12 44.42	− 5 14.1	1.672	2.672	0.3	20.4
4 11	12 33.90	− 4 38.5	1.674	2.663	4.4	20.7
4 21	12 24.30	− 4 6.7	1.704	2.654	8.8	21.0
5 1	12 16.55	− 3 43.7	1.759	2.644	12.8	21.2
5 11	12 11.23	− 3 32.8	1.835	2.633	16.2	21.4

59908 1999 RS_{154} 4 1.5 143°.06 1°.1/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 2.87	−10 23.0	2.524	3.369	10.2	18.9
3 12	12 57.78	− 9 59.2	2.450	3.372	7.4	18.7
3 22	12 51.38	− 9 24.7	2.401	3.376	4.2	18.5
4 1	12 44.25	− 8 42.4	2.381	3.379	1.2	18.3
4 11	12 37.11	− 7 56.5	2.391	3.382	3.0	18.4
4 21	12 30.61	− 7 11.4	2.430	3.385	6.2	18.7
5 1	12 25.34	− 6 31.4	2.495	3.388	9.2	18.8
5 11	12 21.69	− 5 59.8	2.583	3.390	11.8	19.0

251940 1999 WT_{15} 4 1.5 261°.90 0°.4/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.70	− 8 31.5	1.748	2.608	13.2	22.0
3 12	13 1.13	− 7 54.6	1.657	2.589	9.5	21.7
3 22	12 53.43	− 7 2.5	1.590	2.570	5.2	21.4
4 1	12 44.36	− 5 59.3	1.551	2.550	0.6	21.0
4 11	12 35.00	− 4 51.9	1.539	2.529	4.5	21.2
4 21	12 26.45	− 3 48.0	1.554	2.508	9.2	21.5
5 1	12 19.67	− 2 54.5	1.594	2.487	13.5	21.7
5 11	12 15.33	− 2 16.6	1.654	2.465	17.2	21.9

462311 2008 GY_{102} 4 1.5 334°.37 0°.0/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.84	− 8 34.3	1.421	2.298	14.7	20.8
3 12	12 57.89	− 7 32.3	1.348	2.289	10.4	20.5
3 22	12 51.74	− 6 11.2	1.298	2.281	5.5	20.2
4 1	12 44.28	− 4 38.1	1.274	2.274	0.2	19.8
4 11	12 36.69	− 3 3.0	1.276	2.267	5.1	20.1
4 21	12 30.13	− 1 36.3	1.303	2.260	10.2	20.4
5 1	12 25.56	− 0 26.6	1.353	2.255	14.8	20.6
5 11	12 23.58	+ 0 20.9	1.422	2.250	18.6	20.9

365936 2011 YF_{78} 4 1.5 148°.37 3°.8/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.04	+ 3 22.6	1.699	2.579	12.5	21.0
3 12	13 2.49	+ 4 11.4	1.642	2.585	8.7	20.7
3 22	12 53.98	+ 5 2.1	1.610	2.590	5.1	20.5
4 1	12 44.39	+ 5 47.7	1.605	2.595	4.0	20.5
4 11	12 34.87	+ 6 21.6	1.629	2.599	6.9	20.6
4 21	12 26.44	+ 6 39.3	1.678	2.603	10.8	20.9
5 1	12 19.95	+ 6 38.7	1.750	2.607	14.3	21.1
5 11	12 15.87	+ 6 19.8	1.841	2.610	17.2	21.3

264705 2002 AK_{135} 4 1.5 111°.60 2°.5/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.24	+ 0 1.9	2.063	2.936	10.9	21.2
3 12	13 0.18	+ 1 4.6	2.015	2.956	7.5	21.0
3 22	12 52.62	+ 2 11.4	1.994	2.976	4.0	20.8
4 1	12 44.33	+ 3 16.2	2.002	2.995	2.6	20.8
4 11	12 36.18	+ 4 12.8	2.039	3.013	5.4	21.0
4 21	12 28.96	+ 4 56.5	2.103	3.031	8.8	21.2
5 1	12 23.31	+ 5 24.3	2.193	3.049	11.8	21.4
5 11	12 19.60	+ 5 35.6	2.302	3.065	14.3	21.7

201232 2002 RV_{5} 4 1.5 90°.48 4°.6/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.62	−21 1.9	2.144	2.946	13.3	20.4
3 12	12 59.24	−20 57.2	2.072	2.957	10.5	20.2
3 22	12 52.23	−20 32.6	2.024	2.967	7.5	20.0
4 1	12 44.31	−19 49.4	2.002	2.978	5.1	19.9
4 11	12 36.40	−18 51.9	2.008	2.988	4.9	19.9
4 21	12 29.32	−17 45.8	2.042	2.999	7.1	20.1
5 1	12 23.80	−16 38.0	2.101	3.009	10.0	20.3
5 11	12 20.28	−15 35.1	2.184	3.019	12.7	20.4

55390 2001 SY_{276} 4 1.5 178°.03 3°.1/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.77	−17 3.3	2.596	3.408	11.0	19.8
3 12	12 59.15	−17 2.3	2.513	3.409	8.4	19.6
3 22	12 52.14	−16 47.2	2.456	3.410	5.7	19.5
4 1	12 44.31	−16 19.4	2.426	3.410	3.4	19.3
4 11	12 36.42	−15 41.8	2.426	3.411	3.7	19.3
4 21	12 29.16	−14 58.6	2.454	3.410	6.1	19.5
5 1	12 23.17	−14 14.8	2.510	3.410	8.9	19.7
5 11	12 18.87	−13 34.8	2.590	3.409	11.4	19.8

74018 1998 FF_{148} 4 1.5 309°.31 1°.6/31.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.74	− 3 16.3	1.340	2.226	14.8	19.3
3 12	13 0.87	− 2 39.0	1.262	2.208	10.4	19.0
3 22	12 53.44	− 1 49.5	1.206	2.191	5.4	18.7
4 1	12 44.38	− 0 54.5	1.175	2.174	1.7	18.4
4 11	12 35.01	− 0 2.8	1.170	2.157	6.3	18.6
4 21	12 26.68	+ 0 37.4	1.189	2.140	11.6	18.8
5 1	12 20.56	+ 0 59.9	1.229	2.125	16.4	19.1
5 11	12 17.37	+ 1 1.6	1.287	2.109	20.5	19.3

312727 2010 RO_{108} 4 1.5 283°.43 3°.3/ 3.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.31	−13 21.8	1.534	2.383	15.4	20.6
3 12	13 2.52	−13 31.4	1.451	2.371	11.6	20.3
3 22	12 54.27	−13 22.9	1.390	2.359	7.3	20.0
4 1	12 44.43	−12 57.2	1.354	2.347	3.6	19.8
4 11	12 34.28	−12 19.2	1.345	2.335	5.0	19.8
4 21	12 25.10	−11 35.5	1.361	2.323	9.4	20.0
5 1	12 18.02	−10 53.9	1.401	2.311	13.8	20.2
5 11	12 13.76	−10 21.4	1.461	2.299	17.7	20.5

13022 1988 RL_{9} 4 1.5 157°.88 2°.6/ 3.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 10.40	−12 43.4	1.575	2.421	15.2	17.4
3 12	13 3.73	−12 36.2	1.506	2.426	11.2	17.2
3 22	12 54.76	−12 10.8	1.460	2.431	6.8	17.0
4 1	12 44.45	−11 29.8	1.440	2.435	2.9	16.7
4 11	12 34.08	−10 39.3	1.448	2.439	4.6	16.8
4 21	12 24.88	− 9 46.7	1.482	2.442	9.0	17.1
5 1	12 17.82	− 8 59.5	1.541	2.444	13.2	17.4
5 11	12 13.48	− 8 23.7	1.621	2.446	16.8	17.6

111614 2002 AC_{109} 4 1.5 177°.74 5°.3/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.30	−24 47.4	2.682	3.449	11.8	19.8
3 12	12 59.58	−25 5.6	2.596	3.450	9.7	19.7
3 22	12 52.40	−25 6.2	2.533	3.451	7.5	19.5
4 1	12 44.34	−24 49.1	2.496	3.451	5.8	19.4
4 11	12 36.17	−24 16.3	2.488	3.451	5.4	19.4
4 21	12 28.64	−23 31.5	2.508	3.451	6.7	19.5
5 1	12 22.40	−22 40.0	2.554	3.451	8.9	19.6
5 11	12 17.91	−21 47.5	2.624	3.450	11.1	19.8

192785 1999 UK_{30} 4 1.5 150°.69 0°.5/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.91	− 5 59.8	1.906	2.774	12.0	20.8
3 12	12 58.83	− 5 11.4	1.837	2.775	8.4	20.6
3 22	12 52.06	− 4 11.9	1.793	2.775	4.3	20.4
4 1	12 44.33	− 3 6.8	1.777	2.776	0.5	20.1
4 11	12 36.57	− 2 2.7	1.789	2.776	4.4	20.4
4 21	12 29.66	− 1 5.9	1.828	2.777	8.4	20.6
5 1	12 24.35	− 0 21.8	1.892	2.777	12.1	20.8
5 11	12 21.10	+ 0 6.8	1.977	2.778	15.1	21.0

204926 2008 TX_{8} 4 1.5 187°.67 3°.0/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.55	+ 2 39.3	2.102	2.979	10.6	20.0
3 12	12 59.83	+ 3 26.6	2.037	2.978	7.4	19.7
3 22	12 52.53	+ 4 16.3	1.998	2.978	4.2	19.6
4 1	12 44.35	+ 5 2.9	1.987	2.977	3.2	19.5
4 11	12 36.16	+ 5 40.7	2.005	2.976	5.8	19.6
4 21	12 28.79	+ 6 5.7	2.051	2.975	9.2	19.8
5 1	12 22.91	+ 6 15.3	2.120	2.974	12.2	20.0
5 11	12 18.99	+ 6 8.9	2.210	2.972	14.9	20.2

174033 2002 AW_{42} 4 1.5 270°.77 1°.4/30.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.53	− 2 19.0	2.301	3.172	10.0	20.6
3 12	12 57.65	− 1 34.2	2.230	3.170	6.9	20.4
3 22	12 51.36	− 0 43.1	2.186	3.169	3.6	20.1
4 1	12 44.29	+ 0 9.6	2.170	3.167	1.5	20.0
4 11	12 37.20	+ 0 58.6	2.184	3.165	4.4	20.2
4 21	12 30.79	+ 1 39.3	2.225	3.164	7.7	20.4
5 1	12 25.68	+ 2 8.2	2.291	3.162	10.8	20.6
5 11	12 22.30	+ 2 23.3	2.379	3.160	13.4	20.8

107358 2001 CH_{28} 4 1.5 324°.22 3°.1/30.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.00	+ 0 21.5	1.247	2.141	15.0	18.9
3 12	13 1.16	+ 0 56.2	1.174	2.124	10.6	18.6
3 22	12 53.64	+ 1 38.1	1.123	2.108	5.7	18.2
4 1	12 44.41	+ 2 19.8	1.097	2.092	3.3	18.0
4 11	12 34.90	+ 2 52.3	1.095	2.077	7.5	18.2
4 21	12 26.54	+ 3 8.6	1.116	2.063	12.7	18.5
5 1	12 20.53	+ 3 4.2	1.157	2.050	17.4	18.7
5 11	12 17.59	+ 2 38.2	1.216	2.038	21.5	18.9

498234 2007 UA_{53} 4 1.5 187°.24 0°.1/ 1.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.94	− 7 11.1	2.479	3.333	10.0	22.1
3 12	12 58.56	− 6 38.5	2.403	3.333	7.1	21.9
3 22	12 51.83	− 5 56.9	2.352	3.332	3.8	21.7
4 1	12 44.33	− 5 9.7	2.331	3.331	0.3	21.4
4 11	12 36.79	− 4 21.6	2.340	3.329	3.3	21.7
4 21	12 29.90	− 3 37.0	2.378	3.327	6.7	21.9
5 1	12 24.27	− 3 0.0	2.442	3.325	9.8	22.1
5 11	12 20.31	− 2 33.5	2.529	3.323	12.4	22.3

296712 2009 SA_{330} 4 1.5 206°.61 2°.0/ 3.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.42	−11 28.8	2.213	3.048	11.8	21.4
3 12	13 2.63	−11 32.9	2.128	3.043	8.7	21.1
3 22	12 54.07	−11 25.0	2.068	3.038	5.2	20.9
4 1	12 44.44	−11 6.7	2.036	3.031	2.2	20.7
4 11	12 34.66	−10 41.5	2.035	3.024	3.7	20.8
4 21	12 25.62	−10 13.8	2.062	3.017	7.2	21.0
5 1	12 18.12	− 9 48.2	2.117	3.009	10.6	21.2
5 11	12 12.69	− 9 28.9	2.194	3.001	13.6	21.4

435319 2007 UQ_{126} 4 1.5 98°.32 3°.4/ 5.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.14	−18 24.6	2.269	3.084	12.2	21.4
3 12	12 58.13	−18 3.1	2.195	3.092	9.4	21.2
3 22	12 51.63	−17 24.0	2.146	3.100	6.4	21.0
4 1	12 44.32	−16 29.3	2.123	3.108	3.8	20.9
4 11	12 37.01	−15 23.8	2.129	3.115	4.0	20.9
4 21	12 30.45	−14 13.3	2.164	3.123	6.6	21.0
5 1	12 25.31	−13 4.1	2.224	3.131	9.6	21.2
5 11	12 22.00	−12 2.0	2.309	3.138	12.3	21.4

279371 2010 AT_{75} 4 1.5 88°.46 0°.2/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 4.78	− 8 37.6	1.985	2.842	12.0	21.0
3 12	12 59.24	− 7 44.2	1.932	2.864	8.4	20.8
3 22	12 52.18	− 6 38.8	1.905	2.885	4.5	20.6
4 1	12 44.34	− 5 26.8	1.907	2.906	0.4	20.3
4 11	12 36.65	− 4 14.8	1.937	2.926	3.8	20.6
4 21	12 29.89	− 3 9.3	1.995	2.947	7.6	20.9
5 1	12 24.72	− 2 15.2	2.079	2.967	11.0	21.1
5 11	12 21.52	− 1 35.9	2.185	2.986	13.8	21.4

502143 2015 BQ_{27} 4 1.5 85°.45 2°.1/30.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.51	− 1 26.7	1.897	2.774	11.6	21.2
3 12	12 59.14	− 0 25.8	1.845	2.788	7.9	21.0
3 22	12 52.15	+ 0 41.2	1.819	2.802	4.1	20.8
4 1	12 44.35	+ 1 47.9	1.821	2.816	2.2	20.7
4 11	12 36.64	+ 2 47.5	1.851	2.830	5.3	20.9
4 21	12 29.88	+ 3 34.6	1.909	2.844	9.0	21.2
5 1	12 24.74	+ 4 5.6	1.990	2.858	12.3	21.4
5 11	12 21.62	+ 4 19.2	2.092	2.872	15.0	21.6

200669 2001 TL_{114} 4 1.5 198°.07 0°.0/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.59	− 6 15.4	1.816	2.674	12.9	20.6
3 12	13 3.67	− 5 52.5	1.739	2.671	9.2	20.3
3 22	12 54.69	− 5 18.8	1.687	2.667	4.9	20.1
4 1	12 44.48	− 4 38.2	1.664	2.663	0.2	19.7
4 11	12 34.15	− 3 56.5	1.669	2.658	4.5	20.0
4 21	12 24.78	− 3 19.7	1.702	2.652	8.9	20.3
5 1	12 17.27	− 2 52.7	1.760	2.645	12.9	20.5
5 11	12 12.19	− 2 39.0	1.840	2.637	16.2	20.7

467333 2002 CR_{280} 4 1.5 107°.19 1°.7/30.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.13	− 2 24.9	1.957	2.828	11.5	22.1
3 12	13 0.21	− 1 32.4	1.904	2.844	7.9	21.9
3 22	12 52.71	− 0 33.2	1.878	2.860	4.1	21.7
4 1	12 44.39	+ 0 26.8	1.879	2.876	1.7	21.6
4 11	12 36.18	+ 1 21.2	1.910	2.891	4.9	21.8
4 21	12 28.93	+ 2 5.0	1.968	2.906	8.6	22.1
5 1	12 23.31	+ 2 34.4	2.051	2.921	11.9	22.3
5 11	12 19.73	+ 2 48.0	2.154	2.935	14.6	22.5

78191 2002 NE_{41} 4 1.5 177°.58 3°.9/28.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.56	+ 4 10.0	1.920	2.798	11.4	20.0
3 12	13 1.35	+ 5 12.7	1.859	2.800	8.0	19.7
3 22	12 53.37	+ 6 17.1	1.824	2.802	4.9	19.6
4 1	12 44.42	+ 7 16.2	1.817	2.802	4.2	19.5
4 11	12 35.49	+ 8 3.3	1.838	2.803	6.9	19.7
4 21	12 27.49	+ 8 33.8	1.886	2.802	10.3	19.9
5 1	12 21.18	+ 8 45.4	1.958	2.801	13.5	20.1
5 11	12 17.03	+ 8 38.1	2.049	2.800	16.2	20.3

328239 2008 FU_{64} 4 1.5 331°.98 0°.8/31.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.79	− 5 59.5	1.391	2.274	14.5	20.6
3 12	12 58.62	− 5 7.2	1.319	2.264	10.2	20.3
3 22	12 52.19	− 3 59.3	1.270	2.254	5.3	20.0
4 1	12 44.37	− 2 42.8	1.246	2.245	0.8	19.7
4 11	12 36.40	− 1 27.1	1.248	2.237	5.6	20.0
4 21	12 29.48	− 0 21.6	1.274	2.229	10.7	20.2
5 1	12 24.60	+ 0 26.4	1.322	2.222	15.2	20.5
5 11	12 22.37	+ 0 53.1	1.389	2.215	19.1	20.7

496864 2000 CW_{108} 4 1.5 120°.15 1°.9/30.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.09	− 1 18.1	2.060	2.935	10.9	21.9
3 12	12 58.83	− 0 26.3	1.997	2.939	7.5	21.7
3 22	12 52.02	+ 0 31.5	1.961	2.944	3.9	21.5
4 1	12 44.37	+ 1 29.6	1.953	2.948	2.0	21.3
4 11	12 36.74	+ 2 22.0	1.973	2.952	5.0	21.5
4 21	12 29.93	+ 3 3.7	2.021	2.957	8.6	21.8
5 1	12 24.60	+ 3 31.1	2.093	2.961	11.8	22.0
5 11	12 21.19	+ 3 42.8	2.186	2.965	14.5	22.2

294554 2007 YE_{28} 4 1.5 196°.07 1°.9/ 3.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.86	−12 29.2	2.590	3.422	10.4	21.2
3 12	12 59.22	−12 23.9	2.508	3.421	7.7	21.0
3 22	12 52.20	−12 7.4	2.451	3.419	4.7	20.8
4 1	12 44.38	−11 41.4	2.423	3.417	2.1	20.6
4 11	12 36.49	−11 9.3	2.425	3.414	3.1	20.7
4 21	12 29.21	−10 35.0	2.455	3.412	6.1	20.9
5 1	12 23.17	−10 2.8	2.513	3.409	9.1	21.1
5 11	12 18.80	− 9 36.3	2.595	3.405	11.6	21.2

32216 2000 OY_{17} 4 1.5 200°.50 3°.2/ 5.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.72	−17 18.9	2.561	3.373	11.1	18.8
3 12	12 59.18	−17 18.5	2.476	3.371	8.6	18.6
3 22	12 52.20	−17 3.7	2.415	3.368	5.8	18.4
4 1	12 44.38	−16 35.7	2.382	3.365	3.6	18.3
4 11	12 36.47	−15 57.5	2.378	3.362	3.8	18.3
4 21	12 29.18	−15 13.3	2.403	3.359	6.2	18.4
5 1	12 23.17	−14 28.1	2.455	3.355	9.0	18.6
5 11	12 18.87	−13 46.7	2.530	3.352	11.6	18.8

396434 2014 EL_{44} 4 1.5 74°.99 1°.7/30.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 5.43	− 0 3.2	2.277	3.148	10.1	20.7
3 12	12 59.63	+ 0 18.4	2.214	3.154	7.0	20.5
3 22	12 52.40	+ 0 43.4	2.177	3.159	3.7	20.3
4 1	12 44.39	+ 1 7.9	2.169	3.165	1.8	20.2
4 11	12 36.41	+ 1 27.7	2.190	3.170	4.5	20.4
4 21	12 29.20	+ 1 39.5	2.239	3.176	7.8	20.6
5 1	12 23.38	+ 1 40.8	2.313	3.182	10.8	20.8
5 11	12 19.37	+ 1 30.5	2.409	3.187	13.3	21.0

96337 1997 LG_2 4 1.5 207°.42 1°.5/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	12 56.80	+ 2 42.8	4.637	5.508	5.4	20.1
3 12	12 53.15	+ 3 14.9	4.567	5.506	3.7	20.0
3 22	12 48.86	+ 3 47.8	4.525	5.505	2.1	19.8
4 1	12 44.22	+ 4 19.3	4.514	5.504	1.6	19.8
4 11	12 39.58	+ 4 47.3	4.533	5.502	2.9	19.9
4 21	12 35.25	+ 5 9.7	4.581	5.501	4.6	20.0
5 1	12 31.51	+ 5 25.4	4.657	5.499	6.3	20.1
5 11	12 28.59	+ 5 33.3	4.755	5.498	7.7	20.2

234821 2002 RT_{34} 4 1.5 247°.15 1°.9/30.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.83	− 1 18.4	2.340	3.210	9.9	21.0
3 12	12 58.63	− 0 24.1	2.256	3.196	6.9	20.8
3 22	12 51.95	+ 0 36.7	2.198	3.181	3.6	20.6
4 1	12 44.38	+ 1 38.9	2.170	3.165	2.0	20.4
4 11	12 36.69	+ 2 36.9	2.171	3.149	4.8	20.6
4 21	12 29.62	+ 3 25.6	2.200	3.133	8.2	20.8
5 1	12 23.84	+ 4 1.1	2.255	3.116	11.3	20.9
5 11	12 19.82	+ 4 21.4	2.331	3.099	14.0	21.1

99518 2002 EV_{30} 4 1.5 312°.47 2°.6/30.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.39	− 1 36.9	1.317	2.207	14.7	18.8
3 12	13 0.60	− 0 44.8	1.245	2.194	10.3	18.5
3 22	12 53.30	+ 0 18.0	1.196	2.181	5.4	18.2
4 1	12 44.45	+ 1 23.6	1.172	2.168	2.7	18.0
4 11	12 35.37	+ 2 22.2	1.173	2.156	7.0	18.2
4 21	12 27.41	+ 3 5.5	1.197	2.144	12.1	18.5
5 1	12 21.67	+ 3 27.7	1.243	2.133	16.7	18.7
5 11	12 18.83	+ 3 26.8	1.307	2.122	20.6	18.9

30391 2000 KA_{23} 4 1.5 262°.31 5°.0/26.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.90	+ 8 14.7	2.145	3.029	10.1	19.0
3 12	12 58.01	+ 9 33.0	2.083	3.023	7.4	18.8
3 22	12 51.61	+10 50.0	2.048	3.018	5.3	18.7
4 1	12 44.36	+11 58.8	2.041	3.012	5.4	18.7
4 11	12 37.08	+12 52.8	2.061	3.006	7.7	18.8
4 21	12 30.54	+13 28.0	2.107	3.001	10.5	19.0
5 1	12 25.42	+13 42.5	2.176	2.995	13.2	19.1
5 11	12 22.14	+13 36.8	2.264	2.989	15.5	19.3

209346 2004 CZ_{93} 4 1.5 74°.80 4°.2/ 5.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.95	−18 31.1	2.120	2.934	13.0	20.4
3 12	13 0.23	−18 43.1	2.046	2.940	10.2	20.2
3 22	12 52.82	−18 37.8	1.996	2.947	7.1	20.1
4 1	12 44.42	−18 15.8	1.973	2.953	4.6	19.9
4 11	12 35.97	−17 40.5	1.977	2.959	4.7	19.9
4 21	12 28.34	−16 57.1	2.009	2.966	7.2	20.1
5 1	12 22.28	−16 11.4	2.067	2.973	10.2	20.3
5 11	12 18.28	−15 29.4	2.148	2.979	13.0	20.5

54957 2001 PT_7 4 1.5 322°.19 4°.1/30.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.33	+ 2 22.1	1.081	1.981	16.4	18.1
3 12	13 3.17	+ 2 49.1	1.011	1.963	11.6	17.8
3 22	12 54.88	+ 3 20.4	0.961	1.946	6.6	17.5
4 1	12 44.54	+ 3 47.7	0.935	1.929	4.3	17.3
4 11	12 33.82	+ 4 1.6	0.932	1.913	8.6	17.4
4 21	12 24.42	+ 3 55.7	0.950	1.899	14.2	17.7
5 1	12 17.77	+ 3 26.7	0.988	1.885	19.4	17.9
5 11	12 14.64	+ 2 35.1	1.042	1.872	23.7	18.2

338515 2003 QU_{48} 4 1.5 219°.85 1°.6/ 3.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.80	−11 13.7	2.712	3.542	10.0	21.9
3 12	13 1.29	−11 10.4	2.617	3.531	7.4	21.7
3 22	12 53.32	−10 56.9	2.549	3.519	4.4	21.5
4 1	12 44.47	−10 34.9	2.511	3.506	1.7	21.2
4 11	12 35.45	−10 7.5	2.503	3.492	3.1	21.3
4 21	12 27.00	− 9 38.2	2.526	3.478	6.2	21.5
5 1	12 19.77	− 9 10.9	2.576	3.463	9.2	21.7
5 11	12 14.21	− 8 49.3	2.650	3.448	11.8	21.8

210555 1999 TZ_{42} 4 1.5 285°.69 0°.2/ 1.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.11	− 8 5.2	1.536	2.404	14.3	20.8
3 12	13 1.03	− 7 26.1	1.443	2.380	10.3	20.5
3 22	12 53.56	− 6 29.9	1.374	2.355	5.6	20.2
4 1	12 44.49	− 5 21.1	1.331	2.330	0.4	19.7
4 11	12 35.01	− 4 7.8	1.314	2.305	5.0	20.0
4 21	12 26.37	− 2 58.7	1.324	2.279	10.3	20.3
5 1	12 19.70	− 2 2.3	1.356	2.254	15.0	20.5
5 11	12 15.73	− 1 24.3	1.408	2.228	19.1	20.7

119900 2002 CK_{306} 4 1.5 220.°50 1.°8/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 2.31	−13 22.8	2.588	3.421	10.4	20.1
3 12	12 57.46	−12 56.3	2.503	3.417	7.7	19.9
3 22	12 51.29	−12 17.0	2.445	3.413	4.7	19.7
4 1	12 44.37	−11 27.4	2.414	3.408	2.0	19.5
4 11	12 37.38	−10 31.7	2.413	3.404	3.1	19.6
4 21	12 30.99	− 9 34.5	2.441	3.399	6.1	19.8
5 1	12 25.78	− 8 40.9	2.497	3.394	9.0	19.9
5 11	12 22.17	− 7 55.0	2.575	3.389	11.6	20.1

122181 2000 KZ_{46} 4 1.5 234.°26 6.°6/24.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.84	+15 10.1	2.352	3.222	9.9	20.3
3 12	13 0.76	+16 33.3	2.283	3.205	7.8	20.2
3 22	12 53.08	+17 50.6	2.242	3.188	6.7	20.1
4 1	12 44.46	+18 54.8	2.229	3.171	7.2	20.1
4 11	12 35.73	+19 39.9	2.244	3.152	9.1	20.2
4 21	12 27.70	+20 2.7	2.284	3.133	11.5	20.3
5 1	12 21.09	+20 2.5	2.346	3.113	13.9	20.4
5 11	12 16.36	+19 40.9	2.426	3.092	15.9	20.5

345698 2006 UN_{243} 4 1.5 109.°93 0.°2/ 1.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.05	− 7 56.1	2.579	3.431	9.8	21.7
3 12	12 57.84	− 7 16.8	2.518	3.446	6.9	21.5
3 22	12 51.42	− 6 28.6	2.483	3.462	3.7	21.3
4 1	12 44.38	− 5 35.3	2.478	3.477	0.3	21.1
4 11	12 37.39	− 4 41.3	2.502	3.491	3.1	21.3
4 21	12 31.09	− 3 51.3	2.556	3.506	6.3	21.5
5 1	12 25.99	− 3 9.0	2.636	3.520	9.1	21.7
5 11	12 22.47	− 2 37.1	2.740	3.534	11.5	21.9

36726 2000 RS_{46} 4 1.5 160.°30 0.°7/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.77	− 9 3.6	2.880	3.723	9.1	19.4
3 12	12 58.30	− 8 44.2	2.805	3.728	6.5	19.2
3 22	12 51.67	− 8 16.3	2.757	3.733	3.6	19.0
4 1	12 44.39	− 7 42.6	2.739	3.737	0.9	18.8
4 11	12 37.11	− 7 6.3	2.751	3.741	2.8	19.0
4 21	12 30.40	− 6 31.1	2.793	3.745	5.7	19.2
5 1	12 24.79	− 6 0.5	2.862	3.748	8.4	19.3
5 11	12 20.64	− 5 37.1	2.955	3.751	10.7	19.5

319119 2005 XP_{65} 4 1.5 52.°45 0.°8/ 1.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.40	− 5 29.3	1.125	2.012	17.0	20.4
3 12	13 2.60	− 4 51.9	1.084	2.029	11.8	20.1
3 22	12 54.22	− 4 0.5	1.063	2.047	6.1	19.9
4 1	12 44.53	− 3 2.9	1.067	2.066	0.8	19.5
4 11	12 35.10	− 2 8.9	1.096	2.085	6.0	20.0
4 21	12 27.30	− 1 26.9	1.148	2.105	11.3	20.3
5 1	12 22.10	− 1 2.5	1.221	2.124	15.9	20.6
5 11	12 19.95	− 0 57.9	1.312	2.144	19.6	20.9

467374 2004 QH_{28} 4 1.5 145.°54 2.°4/ 4.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.64	−14 48.5	1.993	2.829	12.9	22.0
3 12	12 59.36	−14 15.9	1.920	2.833	9.6	21.8
3 22	12 52.38	−13 25.8	1.870	2.837	6.0	21.6
4 1	12 44.45	−12 21.3	1.848	2.841	2.8	21.4
4 11	12 36.49	−11 8.2	1.854	2.845	3.8	21.5
4 21	12 29.39	− 9 53.7	1.888	2.848	7.4	21.7
5 1	12 23.88	− 8 44.6	1.948	2.851	10.9	21.9
5 11	12 20.43	− 7 46.4	2.031	2.854	14.0	22.1

16763 1996 TG_{12} 4 1.5 208.°09 4.°8/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.44	−21 9.9	1.993	2.798	14.1	18.9
3 12	13 0.06	−20 59.8	1.909	2.795	11.2	18.7
3 22	12 52.83	−20 27.6	1.848	2.792	8.0	18.5
4 1	12 44.49	−19 34.3	1.812	2.789	5.3	18.4
4 11	12 36.02	−18 24.5	1.804	2.786	5.2	18.3
4 21	12 28.40	−17 4.8	1.824	2.782	7.7	18.5
5 1	12 22.44	−15 43.3	1.869	2.778	10.9	18.7
5 11	12 18.68	−14 27.8	1.937	2.774	14.0	18.9

504258 2006 VX_{20} 4 1.5 186.°74 2.°9/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.42	+ 5 2.3	2.796	3.668	8.5	21.7
3 12	12 58.77	+ 5 41.5	2.729	3.667	5.9	21.6
3 22	12 51.93	+ 6 20.7	2.690	3.666	3.6	21.4
4 1	12 44.44	+ 6 55.9	2.680	3.665	3.1	21.4
4 11	12 36.95	+ 7 23.1	2.701	3.664	5.1	21.5
4 21	12 30.06	+ 7 39.6	2.749	3.662	7.6	21.7
5 1	12 24.30	+ 7 43.7	2.823	3.659	10.0	21.8
5 11	12 20.05	+ 7 35.0	2.919	3.656	12.1	22.0

293283 2007 CV_{59} 4 1.5 70.°69 2.°0/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.32	−12 24.8	1.628	2.479	14.5	20.6
3 12	13 1.33	−12 1.9	1.578	2.501	10.6	20.5
3 22	12 53.41	−11 21.9	1.550	2.523	6.2	20.2
4 1	12 44.51	−10 28.8	1.549	2.545	2.3	20.0
4 11	12 35.78	− 9 29.5	1.576	2.567	4.1	20.2
4 21	12 28.24	− 8 31.4	1.629	2.589	8.3	20.5
5 1	12 22.68	− 7 41.0	1.707	2.611	12.1	20.8
5 11	12 19.51	− 7 3.3	1.806	2.633	15.3	21.0

209005 2003 BO_{26} 4 1.5 351.°94 5.°4/26.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 0.99	+ 6 51.0	1.723	2.617	11.6	19.3
3 12	12 56.96	+ 8 18.0	1.666	2.612	8.3	19.1
3 22	12 51.18	+ 9 45.1	1.634	2.608	5.8	18.9
4 1	12 44.40	+11 3.3	1.628	2.605	5.9	18.9
4 11	12 37.61	+12 4.6	1.649	2.602	8.6	19.1
4 21	12 31.71	+12 43.6	1.694	2.600	11.9	19.2
5 1	12 27.46	+12 58.2	1.760	2.598	15.0	19.4
5 11	12 25.32	+12 49.1	1.844	2.598	17.7	19.6

429166 2009 VT_{26} 4 1.5 151.°83 0.°9/31.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.80	− 3 54.9	2.086	2.950	11.2	22.3
3 12	13 0.73	− 3 20.0	2.020	2.956	7.8	22.1
3 22	12 53.06	− 2 37.4	1.980	2.962	4.0	21.9
4 1	12 44.50	− 1 51.9	1.969	2.968	0.9	21.7
4 11	12 35.96	− 1 8.7	1.988	2.973	4.3	21.9
4 21	12 28.27	− 0 32.7	2.034	2.978	8.0	22.2
5 1	12 22.13	− 0 7.7	2.106	2.982	11.4	22.4
5 11	12 17.98	+ 0 4.1	2.199	2.986	14.2	22.6

363301 2002 LZ_{60} 4 1.5 299.°54 2.°5/ 3.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.22	−13 37.2	1.434	2.292	15.7	20.7
3 12	12 59.78	−13 5.5	1.348	2.275	11.8	20.5
3 22	12 52.93	−12 10.1	1.284	2.258	7.2	20.1
4 1	12 44.51	−10 54.5	1.245	2.241	2.9	19.8
4 11	12 35.77	− 9 26.5	1.231	2.224	4.8	19.9
4 21	12 27.99	− 7 56.3	1.243	2.207	9.8	20.1
5 1	12 22.30	− 6 34.5	1.278	2.191	14.6	20.4
5 11	12 19.40	− 5 29.4	1.332	2.175	18.8	20.6

180305 2003 WD_{151} 4 1.5 117.°84 2.°1/30.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.75	− 2 22.1	1.948	2.819	11.6	19.8
3 12	13 0.65	− 0 58.6	1.900	2.840	7.9	19.6
3 22	12 52.96	+ 0 32.1	1.878	2.860	4.1	19.4
4 1	12 44.50	+ 2 2.4	1.885	2.880	2.3	19.3
4 11	12 36.19	+ 3 24.7	1.922	2.899	5.4	19.6
4 21	12 28.87	+ 4 32.7	1.987	2.917	9.0	19.8
5 1	12 23.20	+ 5 22.6	2.076	2.935	12.3	20.1
5 11	12 19.58	+ 5 53.1	2.186	2.951	14.9	20.3

341312 2007 ST_{19} 4 1.5 86.°25 0.°9/ 2.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.64	− 9 27.9	2.100	2.952	11.7	21.6
3 12	12 59.23	− 9 4.8	2.034	2.961	8.4	21.4
3 22	12 52.28	− 8 30.0	1.993	2.969	4.7	21.2
4 1	12 44.47	− 7 47.0	1.980	2.978	1.1	20.9
4 11	12 36.68	− 7 0.8	1.995	2.986	3.5	21.1
4 21	12 29.70	− 6 16.7	2.039	2.995	7.2	21.4
5 1	12 24.22	− 5 39.4	2.108	3.003	10.6	21.6
5 11	12 20.67	− 5 12.5	2.200	3.011	13.4	21.8

239454 2007 TY_{234} 4 1.5 221.°76 0.°5/ 2.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.62	− 8 11.5	2.173	3.028	11.2	21.2
3 12	12 59.26	− 7 43.5	2.094	3.024	8.0	21.0
3 22	12 52.33	− 7 4.5	2.041	3.020	4.4	20.7
4 1	12 44.47	− 6 18.2	2.017	3.016	0.6	20.4
4 11	12 36.54	− 5 29.5	2.021	3.011	3.6	20.7
4 21	12 29.34	− 4 43.7	2.054	3.007	7.4	20.9
5 1	12 23.57	− 4 5.5	2.112	3.002	10.8	21.1
5 11	12 19.69	− 3 38.6	2.192	2.997	13.7	21.3

288851 2004 RW_{205} 4 1.5 168.°78 2.°3/ 3.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.56	−12 55.1	1.760	2.601	14.1	21.3
3 12	13 3.01	−12 39.4	1.687	2.605	10.4	21.1
3 22	12 54.40	−12 6.4	1.638	2.608	6.3	20.8
4 1	12 44.58	−11 19.2	1.616	2.611	2.6	20.6
4 11	12 34.71	−10 23.4	1.623	2.613	4.2	20.7
4 21	12 25.85	− 9 26.0	1.657	2.615	8.4	21.0
5 1	12 18.92	− 8 34.0	1.716	2.616	12.3	21.2
5 11	12 14.45	− 7 53.1	1.797	2.616	15.7	21.4

500635 2012 UG_{173} 4 1.5 135.°80 0.°0/ 1.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.52	− 6 5.5	2.445	3.300	10.1	21.4
3 12	12 59.68	− 5 49.0	2.376	3.307	7.1	21.2
3 22	12 52.46	− 5 25.0	2.334	3.314	3.8	21.0
4 1	12 44.49	− 4 56.6	2.321	3.320	0.2	20.7
4 11	12 36.52	− 4 27.6	2.337	3.326	3.3	21.0
4 21	12 29.27	− 4 1.8	2.383	3.332	6.7	21.2
5 1	12 23.32	− 3 42.6	2.455	3.338	9.7	21.4
5 11	12 19.10	− 3 32.5	2.549	3.343	12.3	21.6

39586 1993 FW_{27} 4 1.5 177.°91 1.°2/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.27	−10 49.6	2.216	3.060	11.4	20.3
3 12	12 59.67	−10 20.3	2.139	3.062	8.3	20.1
3 22	12 52.53	− 9 38.1	2.088	3.063	4.7	19.8
4 1	12 44.50	− 8 46.4	2.066	3.063	1.4	19.6
4 11	12 36.42	− 7 50.2	2.073	3.063	3.4	19.7
4 21	12 29.10	− 6 55.1	2.108	3.063	7.0	20.0
5 1	12 23.21	− 6 6.3	2.169	3.063	10.4	20.2
5 11	12 19.21	− 5 27.9	2.254	3.062	13.2	20.4

344268 2001 SU_{349} 4 1.5 155°.58 4°.6/ 6.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.83	−21 41.6	2.789	3.565	11.2	21.5
3 12	13 2.72	−22 15.3	2.707	3.571	9.0	21.3
3 22	12 54.10	−22 34.1	2.649	3.578	6.7	21.2
4 1	12 44.58	−22 37.7	2.620	3.583	5.0	21.1
4 11	12 34.95	−22 27.4	2.621	3.589	4.9	21.1
4 21	12 25.97	−22 6.3	2.651	3.594	6.5	21.2
5 1	12 18.30	−21 38.9	2.709	3.598	8.7	21.3
5 11	12 12.41	−21 10.0	2.791	3.602	10.9	21.5

300798 2007 VV_{331} 4 1.5 2°.21 1°.0/ 2.5 17 R

3 2	13 3.29	− 9 18.8	1.960	2.819	12.1	20.4
3 12	12 58.45	− 8 59.6	1.888	2.818	8.7	20.2
3 22	12 51.94	− 8 28.1	1.841	2.818	4.9	20.0
4 1	12 44.47	− 7 47.7	1.820	2.818	1.2	19.7
4 11	12 36.95	− 7 3.5	1.828	2.819	3.7	19.9
4 21	12 30.23	− 6 21.2	1.862	2.820	7.6	20.1
5 1	12 25.06	− 5 45.8	1.922	2.821	11.2	20.4
5 11	12 21.90	− 5 21.2	2.003	2.823	14.2	20.6

421549 2014 ON_{183} 4 1.5 196°.82 1°.0/31.6 17

3 2	13 9.20	− 3 58.6	2.001	2.863	11.7	22.5
3 12	13 2.57	− 3 19.0	1.924	2.859	8.2	22.3
3 22	12 54.12	− 2 30.7	1.874	2.856	4.2	22.0
4 1	12 44.60	− 1 38.5	1.852	2.851	1.0	21.8
4 11	12 34.99	− 0 48.4	1.860	2.845	4.6	22.0
4 21	12 26.23	− 0 6.1	1.897	2.839	8.6	22.2
5 1	12 19.14	+ 0 24.2	1.958	2.831	12.3	22.5
5 11	12 14.22	+ 0 39.9	2.041	2.823	15.3	22.6

416190 2002 TF_{105} 4 1.5 179°.18 1°.7/ 3.2 16

3 2	13 7.27	−12 1.1	1.995	2.837	12.6	21.4
3 12	13 1.24	−11 36.8	1.918	2.838	9.3	21.2
3 22	12 53.41	−10 57.5	1.867	2.839	5.5	21.0
4 1	12 44.56	−10 6.2	1.843	2.839	2.0	20.7
4 11	12 35.64	− 9 8.6	1.849	2.839	3.7	20.9
4 21	12 27.58	− 8 10.7	1.882	2.839	7.6	21.1
5 1	12 21.17	− 7 18.8	1.941	2.838	11.3	21.3
5 11	12 16.90	− 6 37.6	2.023	2.836	14.4	21.5

147262 2002 YV 4 1.5 115°.60 1°.8/ 3.3 18

3 2	13 7.58	−12 15.9	1.930	2.772	13.0	20.4
3 12	13 1.37	−11 51.3	1.869	2.788	9.5	20.2
3 22	12 53.42	−11 11.6	1.832	2.804	5.6	20.0
4 1	12 44.56	−10 20.4	1.823	2.819	2.1	19.8
4 11	12 35.77	− 9 23.3	1.842	2.833	3.8	19.9
4 21	12 27.97	− 8 26.6	1.890	2.847	7.6	20.2
5 1	12 21.88	− 7 36.4	1.963	2.861	11.1	20.4
5 11	12 17.96	− 6 57.1	2.059	2.874	14.1	20.7

309384 2007 TF_{148} 4 1.5 173°.47 2°.2/30.5 18

3 2	13 9.34	− 0 22.0	2.048	2.915	11.3	21.4
3 12	13 2.56	+ 0 23.5	1.981	2.919	7.8	21.2
3 22	12 54.05	+ 1 14.2	1.941	2.923	4.1	20.9
4 1	12 44.60	+ 2 4.4	1.930	2.925	2.3	20.8
4 11	12 35.15	+ 2 48.5	1.949	2.927	5.3	21.0
4 21	12 26.59	+ 3 21.6	1.996	2.928	8.9	21.2
5 1	12 19.68	+ 3 40.5	2.068	2.927	12.3	21.4
5 11	12 14.88	+ 3 44.0	2.160	2.927	15.0	21.6

307144 2002 CP_{227} 4 1.5 41°.07 4°.7/ 5.1 18

3 2	13 7.82	−17 1.0	1.373	2.216	17.2	20.3
3 12	13 2.27	−17 9.5	1.307	2.220	13.2	20.1
3 22	12 54.19	−16 53.7	1.261	2.223	8.9	19.8
4 1	12 44.61	−16 14.8	1.240	2.228	5.2	19.6
4 11	12 34.93	−15 18.8	1.244	2.232	5.7	19.7
4 21	12 26.50	−14 14.4	1.272	2.237	9.6	19.9
5 1	12 20.42	−13 11.4	1.324	2.241	13.9	20.2
5 11	12 17.28	−12 18.2	1.396	2.246	17.7	20.4

172405 2003 BH_{65} 4 1.5 180°.55 2°.6/ 4.8 18

3 2	13 4.22	−16 0.9	2.687	3.503	10.5	20.8
3 12	12 58.78	−15 49.4	2.604	3.504	8.0	20.7
3 22	12 52.02	−15 24.6	2.546	3.505	5.2	20.5
4 1	12 44.50	−14 48.0	2.517	3.505	2.9	20.3
4 11	12 36.92	−14 3.1	2.517	3.504	3.3	20.4
4 21	12 29.96	−13 14.2	2.547	3.504	5.9	20.5
5 1	12 24.19	−12 26.0	2.604	3.503	8.6	20.7
5 11	12 20.03	−11 42.8	2.685	3.501	11.1	20.9

355784 2008 RY_{139} 4 1.5 116°.60 0°.2/ 1.7 18

3 2	13 9.81	− 8 14.5	1.585	2.446	14.3	21.8
3 12	13 3.14	− 7 29.2	1.531	2.464	10.1	21.5
3 22	12 54.41	− 6 29.5	1.501	2.481	5.4	21.3
4 1	12 44.63	− 5 21.5	1.499	2.498	0.4	21.0
4 11	12 34.99	− 4 13.1	1.525	2.515	4.6	21.3
4 21	12 26.60	− 3 12.1	1.578	2.530	9.2	21.6
5 1	12 20.30	− 2 24.4	1.655	2.545	13.2	21.9
5 11	12 16.53	− 1 53.6	1.752	2.559	16.5	22.1

65127 2002 CG_{63} 4 1.5 273°.75 0°.6/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.79	− 7 27.3	2.146	2.995	11.6	18.7
3 12	13 3.19	− 7 21.2	2.037	2.963	8.4	18.5
3 22	12 54.60	− 7 5.1	1.954	2.931	4.7	18.2
4 1	12 44.65	− 6 41.5	1.899	2.898	0.8	17.8
4 11	12 34.28	− 6 14.1	1.875	2.864	3.9	18.0
4 21	12 24.45	− 5 47.6	1.879	2.830	8.1	18.2
5 1	12 16.10	− 5 26.7	1.910	2.795	12.0	18.4
5 11	12 9.89	− 5 15.4	1.962	2.759	15.3	18.5

381553 2008 TO_{76} 4 1.5 202°.05 0°.2/ 1.4 17

3 2	13 7.06	− 5 23.3	2.112	2.971	11.3	21.7
3 12	13 1.01	− 5 5.7	2.036	2.969	8.0	21.5
3 22	12 53.27	− 4 39.7	1.986	2.967	4.2	21.2
4 1	12 44.58	− 4 9.0	1.965	2.964	0.2	20.9
4 11	12 35.80	− 3 38.0	1.973	2.961	3.9	21.2
4 21	12 27.82	− 3 11.4	2.009	2.958	7.8	21.4
5 1	12 21.36	− 2 53.1	2.071	2.955	11.2	21.6
5 11	12 16.91	− 2 45.7	2.154	2.951	14.1	21.8

15953 1998 BD_{8} 4 1.5 181°.81 4°.6/ 6.2 18

3 2	13 8.81	−20 30.9	2.327	3.121	12.6	18.1
3 12	13 2.24	−20 45.8	2.243	3.122	10.0	17.9
3 22	12 53.94	−20 43.3	2.182	3.122	7.3	17.7
4 1	12 44.61	−20 23.3	2.149	3.122	5.0	17.6
4 11	12 35.15	−19 48.6	2.145	3.122	5.0	17.5
4 21	12 26.44	−19 3.8	2.169	3.120	7.1	17.7
5 1	12 19.24	−18 14.8	2.220	3.118	9.9	17.8
5 11	12 14.08	−17 27.5	2.294	3.116	12.6	18.0

499832 2011 DH_{36} 4 1.5 116°.14 0°.0/ 1.5 17

3 2	13 5.43	− 7 1.6	1.851	2.715	12.4	21.7
3 12	12 59.98	− 6 23.6	1.785	2.720	8.8	21.5
3 22	12 52.76	− 5 34.1	1.744	2.725	4.6	21.3
4 1	12 44.55	− 4 37.7	1.730	2.729	0.2	20.9
4 11	12 36.34	− 3 41.0	1.744	2.734	4.2	21.3
4 21	12 29.04	− 2 50.1	1.786	2.738	8.3	21.5
5 1	12 23.43	− 2 10.3	1.852	2.742	12.0	21.8
5 11	12 19.96	− 1 44.9	1.939	2.746	15.1	22.0

419460 2010 CJ_{148} 4 1.5 2°.79 4°.1/ 4.4 16

3 2	13 4.52	−13 49.9	1.328	2.189	16.6	20.1
3 12	13 0.00	−14 20.5	1.262	2.187	12.6	19.9
3 22	12 53.03	−14 31.6	1.218	2.187	8.2	19.6
4 1	12 44.57	−14 24.0	1.197	2.188	4.5	19.4
4 11	12 35.97	−14 2.2	1.200	2.191	5.4	19.4
4 21	12 28.53	−13 32.7	1.228	2.195	9.6	19.7
5 1	12 23.35	−13 3.4	1.278	2.200	13.9	19.9
5 11	12 21.03	−12 41.3	1.347	2.207	17.7	20.2

420700 2012 KW_{47} 4 1.5 285°.27 8°.9/23.2 17

3 2	13 6.50	+17 18.5	1.739	2.618	12.3	20.6
3 12	13 0.96	+18 49.0	1.680	2.603	10.1	20.5
3 22	12 53.37	+20 9.5	1.645	2.588	8.9	20.4
4 1	12 44.59	+21 10.3	1.636	2.574	9.7	20.4
4 11	12 35.71	+21 43.9	1.652	2.559	11.9	20.5
4 21	12 27.82	+21 47.3	1.691	2.544	14.7	20.6
5 1	12 21.80	+21 20.8	1.748	2.529	17.4	20.7
5 11	12 18.18	+20 28.2	1.822	2.515	19.8	20.9

77906 2001 TU_{162} 4 1.5 209°.10 0°.6/ 2.9 18

3 2	12 56.83	− 9 46.7	4.762	5.599	5.9	20.2
3 12	12 53.21	− 9 26.2	4.678	5.597	4.2	20.1
3 22	12 48.96	− 9 0.3	4.622	5.595	2.4	19.9
4 1	12 44.36	− 8 30.5	4.596	5.593	0.7	19.8
4 11	12 39.74	− 7 58.9	4.600	5.591	1.7	19.9
4 21	12 35.40	− 7 27.5	4.635	5.589	3.6	20.0
5 1	12 31.65	− 6 58.4	4.698	5.586	5.3	20.1
5 11	12 28.71	− 6 33.5	4.786	5.584	6.9	20.2

31734 1999 JT_{71} 4 1.5 100°.63 0°.2/ 1.3 18

3 2	13 2.32	− 7 24.6	2.230	3.090	10.8	18.5
3 12	12 57.56	− 6 29.1	2.163	3.097	7.5	18.3
3 22	12 51.40	− 5 22.9	2.123	3.103	3.9	18.1
4 1	12 44.48	− 4 11.0	2.111	3.110	0.2	17.7
4 11	12 37.58	− 2 59.3	2.128	3.116	3.7	18.1
4 21	12 31.42	− 1 53.8	2.174	3.123	7.3	18.3
5 1	12 26.60	− 0 59.2	2.245	3.129	10.5	18.5
5 11	12 23.52	− 0 18.6	2.339	3.135	13.2	18.7

522375 2016 CX_{302} 4 1.5 305°.03 3°.8/ 3.9 17

3 2	13 9.43	−13 21.2	1.487	2.336	15.8	20.8
3 12	13 3.48	−13 50.7	1.403	2.323	12.0	20.5
3 22	12 54.94	−14 3.2	1.342	2.310	7.7	20.2
4 1	12 44.68	−13 58.7	1.306	2.297	4.1	20.0
4 11	12 34.04	−13 40.7	1.296	2.285	5.3	20.0
4 21	12 24.38	−13 14.8	1.311	2.273	9.7	20.2
5 1	12 16.91	−12 48.4	1.350	2.261	14.1	20.4
5 11	12 12.39	−12 28.3	1.408	2.250	18.0	20.6

355250 2007 HX_{24} 4 1.5 309.°50 0.°9/31.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 4.37	− 6 15.4	1.199	2.086	16.1	21.2
3 12	13 0.17	− 5 20.9	1.123	2.070	11.4	20.8
3 22	12 53.26	− 4 7.2	1.069	2.053	6.0	20.5
4 1	12 44.59	− 2 41.9	1.038	2.037	0.9	20.1
4 11	12 35.59	− 1 16.2	1.032	2.021	6.3	20.4
4 21	12 27.73	− 0 1.7	1.049	2.006	12.1	20.6
5 1	12 22.24	+ 0 52.6	1.087	1.992	17.4	20.9
5 11	12 19.87	+ 1 21.6	1.142	1.978	21.8	21.1

520851 2014 UD_{239} 4 1.5 356.°49 6.°7/27.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.95	+ 9 56.9	1.414	2.308	13.6	19.8
3 12	13 0.75	+10 47.1	1.360	2.304	10.1	19.5
3 22	12 53.30	+11 32.0	1.329	2.301	7.3	19.4
4 1	12 44.59	+12 2.6	1.323	2.299	7.1	19.3
4 11	12 35.92	+12 12.1	1.342	2.298	9.9	19.5
4 21	12 28.45	+11 57.1	1.384	2.298	13.5	19.7
5 1	12 23.12	+11 18.0	1.446	2.298	17.0	19.9
5 11	12 20.43	+10 17.3	1.526	2.300	19.9	20.1

326964 2004 JR_{14} 4 1.5 320.°75 2.°8/30.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.04	− 0 59.5	1.449	2.337	13.7	20.1
3 12	12 59.50	− 0 1.6	1.377	2.325	9.5	19.9
3 22	12 52.72	+ 1 5.8	1.328	2.312	5.1	19.6
4 1	12 44.57	+ 2 14.7	1.305	2.301	2.9	19.4
4 11	12 36.25	+ 3 16.0	1.308	2.289	6.8	19.6
4 21	12 28.94	+ 4 1.9	1.336	2.278	11.5	19.8
5 1	12 23.63	+ 4 27.3	1.385	2.268	15.7	20.0
5 11	12 20.92	+ 4 30.2	1.452	2.258	19.3	20.3

503561 2016 FT_{52} 4 1.5 64.°82 2.°3/ 3.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.53	−12 2.0	1.595	2.448	14.7	21.0
3 12	13 1.72	−11 56.0	1.531	2.455	10.8	20.8
3 22	12 53.78	−11 33.0	1.489	2.462	6.5	20.5
4 1	12 44.63	−10 56.1	1.473	2.469	2.6	20.3
4 11	12 35.46	−10 11.0	1.484	2.476	4.4	20.4
4 21	12 27.39	− 9 24.6	1.522	2.483	8.7	20.7
5 1	12 21.33	− 8 43.7	1.583	2.490	12.7	20.9
5 11	12 17.81	− 8 13.8	1.666	2.497	16.1	21.2

99911 1995 SE_{53} 4 1.5 145.°84 0.°2/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.68	− 7 2.0	1.986	2.843	12.0	20.0
3 12	13 1.42	− 6 17.1	1.922	2.854	8.4	19.8
3 22	12 53.47	− 5 21.1	1.884	2.864	4.4	19.6
4 1	12 44.61	− 4 19.0	1.874	2.874	0.2	19.2
4 11	12 35.80	− 3 17.1	1.894	2.883	4.1	19.6
4 21	12 27.92	− 2 21.5	1.943	2.891	8.0	19.8
5 1	12 21.69	− 1 37.1	2.016	2.898	11.6	20.0
5 11	12 17.56	− 1 7.0	2.112	2.905	14.5	20.3

15382 Vian 4 1.5 335.°58 2.°5/ 3.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.66	−14 7.0	1.325	2.185	16.7	18.1
3 12	13 0.10	−13 27.6	1.254	2.182	12.4	17.8
3 22	12 53.09	−12 23.0	1.205	2.179	7.5	17.5
4 1	12 44.60	−10 57.7	1.180	2.176	3.0	17.3
4 11	12 35.98	− 9 21.2	1.181	2.174	4.9	17.4
4 21	12 28.55	− 7 44.9	1.207	2.172	9.9	17.6
5 1	12 23.37	− 6 19.7	1.255	2.170	14.7	17.9
5 11	12 21.04	− 5 13.5	1.323	2.168	18.8	18.1

356833 2011 VL 4 1.5 214.°89 3.°8/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.80	−20 57.0	2.956	3.744	10.4	21.9
3 12	12 58.49	−20 53.8	2.862	3.737	8.2	21.7
3 22	12 51.89	−20 35.8	2.791	3.729	6.0	21.6
4 1	12 44.54	−20 3.7	2.749	3.721	4.1	21.4
4 11	12 37.08	−19 20.1	2.736	3.713	4.0	21.4
4 21	12 30.14	−18 28.7	2.752	3.704	5.8	21.5
5 1	12 24.30	−17 34.3	2.795	3.695	8.1	21.6
5 11	12 19.98	−16 41.6	2.864	3.686	10.4	21.8

212557 2006 SW_{49} 4 1.6 94.°12 1.°2/31.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.58	− 1 14.8	2.293	3.157	10.3	20.2
3 12	13 1.18	− 1 6.5	2.229	3.165	7.2	20.0
3 22	12 53.30	− 0 54.4	2.191	3.173	3.7	19.8
4 1	12 44.62	− 0 41.6	2.183	3.180	1.2	19.6
4 11	12 35.97	− 0 32.0	2.204	3.188	4.1	19.8
4 21	12 28.12	− 0 28.4	2.254	3.196	7.5	20.0
5 1	12 21.71	− 0 33.2	2.330	3.203	10.6	20.2
5 11	12 17.16	− 0 47.8	2.428	3.210	13.1	20.4

115192 2003 SO_{106} 4 1.6 167.°67 1.°4/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.77	−10 41.1	1.922	2.768	12.9	20.8
3 12	13 2.33	−10 19.2	1.850	2.772	9.3	20.6
3 22	12 54.03	− 9 43.0	1.802	2.776	5.4	20.3
4 1	12 44.66	− 8 56.1	1.782	2.780	1.6	20.1
4 11	12 35.25	− 8 4.0	1.791	2.782	3.9	20.2
4 21	12 26.77	− 7 12.8	1.829	2.784	7.9	20.5
5 1	12 20.03	− 6 28.3	1.892	2.786	11.6	20.7
5 11	12 15.53	− 5 55.1	1.976	2.786	14.8	20.9

453322 2008 WC_{37} 4 1.6 79.°86 0.°0/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.43	− 7 29.6	1.357	2.228	15.6	21.9
3 12	13 3.07	− 6 49.5	1.312	2.249	11.0	21.6
3 22	12 54.45	− 5 54.6	1.289	2.270	5.8	21.4
4 1	12 44.68	− 4 51.8	1.291	2.291	0.3	21.0
4 11	12 35.14	− 3 49.6	1.321	2.311	5.1	21.4
4 21	12 27.04	− 2 56.2	1.376	2.331	10.0	21.8
5 1	12 21.26	− 2 17.6	1.454	2.351	14.2	22.1
5 11	12 18.23	− 1 56.9	1.551	2.371	17.7	22.4

55559 2001 YS_{110} 4 1.6 141.°10 2.°6/ 5.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.36	−18 4.0	2.663	3.473	10.8	19.3
3 12	12 57.46	−17 19.0	2.585	3.481	8.2	19.1
3 22	12 51.32	−16 18.1	2.533	3.489	5.4	19.0
4 1	12 44.52	−15 4.0	2.509	3.497	3.0	18.8
4 11	12 37.73	−13 41.4	2.516	3.504	3.2	18.8
4 21	12 31.60	−12 16.1	2.552	3.511	5.8	19.0
5 1	12 26.65	−10 53.8	2.616	3.517	8.5	19.2
5 11	12 23.27	− 9 39.7	2.705	3.523	11.0	19.4

79455 1997 WH_{46} 4 1.6 137.°84 0.°5/31.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.05	− 5 18.7	2.557	3.415	9.6	20.2
3 12	12 58.61	− 4 37.4	2.493	3.426	6.7	20.1
3 22	12 51.91	− 3 48.9	2.455	3.436	3.4	19.9
4 1	12 44.55	− 2 56.9	2.447	3.446	0.5	19.6
4 11	12 37.23	− 2 6.2	2.469	3.456	3.5	19.9
4 21	12 30.58	− 1 21.1	2.521	3.465	6.7	20.1
5 1	12 25.16	− 0 45.1	2.598	3.474	9.5	20.3
5 11	12 21.34	− 0 20.5	2.698	3.482	11.9	20.5

313491 2002 UN_{55} 4 1.6 296.°71 4.°8/28.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.57	+ 4 12.3	1.516	2.406	13.1	20.4
3 12	13 0.49	+ 5 25.0	1.448	2.395	9.3	20.1
3 22	12 53.21	+ 6 41.2	1.405	2.384	5.8	19.9
4 1	12 44.62	+ 7 51.9	1.388	2.373	5.2	19.8
4 11	12 35.91	+ 8 47.7	1.397	2.363	8.4	20.0
4 21	12 28.21	+ 9 22.3	1.430	2.352	12.5	20.2
5 1	12 22.49	+ 9 32.5	1.484	2.342	16.3	20.4
5 11	12 19.34	+ 9 18.6	1.556	2.332	19.6	20.6

437223 2012 WO_{35} 4 1.6 177.°62 6.°2/23.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.34	+17 26.3	2.755	3.621	8.8	21.6
3 12	12 58.78	+18 34.2	2.707	3.622	7.1	21.5
3 22	12 51.99	+19 34.1	2.686	3.623	6.2	21.4
4 1	12 44.56	+20 20.7	2.693	3.624	6.7	21.4
4 11	12 37.16	+20 50.0	2.727	3.624	8.2	21.5
4 21	12 30.43	+21 0.3	2.787	3.624	10.0	21.7
5 1	12 24.90	+20 51.4	2.870	3.624	11.9	21.8
5 11	12 20.94	+20 25.0	2.970	3.623	13.5	21.9

483046 2015 JG_{3} 4 1.6 128.°86 19.°3/15.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 18.17	+36 51.9	1.185	2.016	20.2	21.0
3 12	13 9.77	+39 4.9	1.177	2.024	19.3	21.0
3 22	12 58.07	+40 34.6	1.186	2.033	19.5	21.0
4 1	12 44.87	+41 8.9	1.213	2.041	20.5	21.1
4 11	12 32.32	+40 44.8	1.256	2.048	22.1	21.2
4 21	12 22.16	+39 28.4	1.314	2.055	23.8	21.4
5 1	12 15.46	+37 29.8	1.384	2.061	25.5	21.5
5 11	12 12.48	+35 1.1	1.464	2.067	26.9	21.7

278888 2008 TP_{87} 4 1.6 254.°21 1.°0/31.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.19	− 5 1.7	2.170	3.035	10.8	21.2
3 12	12 59.07	− 4 1.7	2.080	3.017	7.6	20.9
3 22	12 52.33	− 2 50.9	2.016	2.998	3.9	20.7
4 1	12 44.59	− 1 34.5	1.981	2.980	1.0	20.4
4 11	12 36.67	− 0 19.0	1.976	2.960	4.4	20.6
4 21	12 29.40	+ 0 49.1	1.999	2.941	8.3	20.8
5 1	12 23.51	+ 1 44.6	2.047	2.921	11.8	21.0
5 11	12 19.52	+ 2 23.9	2.117	2.900	14.8	21.2

62156 2000 SL_{23} 4 1.6 197.°85 1.°1/31.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.01	− 4 54.0	2.318	3.181	10.3	19.8
3 12	12 58.76	− 3 44.0	2.241	3.178	7.2	19.6
3 22	12 52.08	− 2 24.5	2.192	3.174	3.7	19.4
4 1	12 44.57	− 1 0.8	2.172	3.170	1.1	19.2
4 11	12 37.02	+ 0 20.5	2.182	3.165	4.2	19.4
4 21	12 30.15	+ 1 33.4	2.221	3.160	7.8	19.6
5 1	12 24.60	+ 2 33.2	2.286	3.154	10.9	19.8
5 11	12 20.80	+ 3 16.9	2.373	3.148	13.6	20.0

39087 2000 VN_{50} 4 1.6 265.°66 3.°4/ 4.5 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.50	−15 40.4	1.584	2.425	15.4	18.1
3 12	13 1.25	−15 23.8	1.499	2.413	11.7	17.8
3 22	12 53.69	−14 44.8	1.436	2.402	7.5	17.5
4 1	12 44.67	−13 45.6	1.398	2.390	3.9	17.3
4 11	12 35.38	−12 32.2	1.387	2.377	4.8	17.3
4 21	12 27.04	−11 13.2	1.402	2.365	9.1	17.5
5 1	12 20.69	− 9 58.1	1.441	2.353	13.4	17.7
5 11	12 17.01	− 8 54.9	1.501	2.340	17.3	17.9

213882 2003 SQ_{250} 4 1.6 164°.32 1°.7/31.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.81	− 1 29.3	2.083	2.947	11.2	20.8
3 12	13 2.87	− 0 53.8	2.017	2.954	7.8	20.6
3 22	12 54.25	− 0 12.7	1.978	2.960	4.1	20.4
4 1	12 44.70	+ 0 29.1	1.968	2.965	1.7	20.2
4 11	12 35.16	+ 1 6.3	1.988	2.969	4.8	20.5
4 21	12 26.53	+ 1 34.4	2.036	2.973	8.5	20.7
5 1	12 19.54	+ 1 50.2	2.110	2.976	11.8	20.9
5 11	12 14.63	+ 1 52.3	2.205	2.978	14.6	21.1

219655 2001 UY_{213} 4 1.6 182°.03 6°.6/24.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.07	+13 36.2	2.154	3.030	10.4	20.6
3 12	13 0.26	+15 8.9	2.103	3.031	8.1	20.5
3 22	12 52.87	+16 35.5	2.079	3.031	6.7	20.4
4 1	12 44.62	+17 48.1	2.083	3.031	7.2	20.4
4 11	12 36.39	+18 40.5	2.114	3.030	9.2	20.5
4 21	12 29.00	+19 9.7	2.170	3.029	11.7	20.7
5 1	12 23.12	+19 14.9	2.248	3.027	14.1	20.9
5 11	12 19.20	+18 58.2	2.344	3.024	16.1	21.0

308099 2004 VC_{33} 4 1.6 242°.09 3°.4/29.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.25	+ 1 38.8	1.743	2.620	12.4	21.5
3 12	13 2.95	+ 2 35.7	1.662	2.604	8.7	21.3
3 22	12 54.50	+ 3 38.3	1.607	2.588	4.9	21.0
4 1	12 44.72	+ 4 39.4	1.579	2.571	3.6	20.9
4 11	12 34.71	+ 5 31.3	1.580	2.553	6.8	21.0
4 21	12 25.58	+ 6 7.7	1.607	2.535	11.0	21.2
5 1	12 18.29	+ 6 25.0	1.657	2.515	14.9	21.4
5 11	12 13.47	+ 6 21.9	1.727	2.496	18.1	21.6

123251 2000 UP_{68} 4 1.6 161°.06 0°.1/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.46	− 6 29.0	2.114	2.972	11.4	20.4
3 12	13 0.56	− 5 59.3	2.044	2.976	8.0	20.2
3 22	12 53.05	− 5 19.9	2.000	2.980	4.2	20.0
4 1	12 44.64	− 4 34.9	1.984	2.983	0.2	19.6
4 11	12 36.22	− 3 49.6	1.998	2.986	3.8	19.9
4 21	12 28.61	− 3 8.9	2.039	2.989	7.6	20.2
5 1	12 22.51	− 2 37.2	2.107	2.991	11.0	20.4
5 11	12 18.39	− 2 17.5	2.196	2.993	13.9	20.6

495872 2004 RX_{90} 4 1.6 185°.80 2°.4/ 4.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.95	−15 42.5	2.724	3.538	10.4	23.0
3 12	13 0.00	−15 21.7	2.638	3.538	7.9	22.8
3 22	12 52.70	−14 47.4	2.578	3.537	5.1	22.6
4 1	12 44.63	−14 1.4	2.546	3.536	2.7	22.5
4 11	12 36.49	−13 7.4	2.546	3.533	3.2	22.5
4 21	12 28.97	−12 10.0	2.575	3.530	5.9	22.7
5 1	12 22.67	−11 14.1	2.632	3.526	8.7	22.8
5 11	12 18.00	−10 24.3	2.713	3.522	11.2	23.0

132217 2002 EQ_{64} 4 1.6 150°.15 0°.6/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.44	− 9 6.6	2.047	2.900	11.9	20.6
3 12	12 59.90	− 8 32.6	1.977	2.905	8.5	20.4
3 22	12 52.72	− 7 46.2	1.932	2.909	4.7	20.2
4 1	12 44.63	− 6 51.5	1.915	2.913	0.8	19.9
4 11	12 36.53	− 5 54.2	1.927	2.917	3.7	20.1
4 21	12 29.25	− 5 0.1	1.967	2.921	7.5	20.3
5 1	12 23.52	− 4 14.5	2.032	2.924	11.0	20.6
5 11	12 19.78	− 3 41.1	2.120	2.927	14.0	20.8

124699 2001 SK_{142} 4 1.6 245°.98 0°.9/ 2.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.06	−10 24.3	1.896	2.750	12.7	21.1
3 12	12 59.87	− 9 38.3	1.811	2.738	9.2	20.9
3 22	12 52.83	− 8 36.2	1.750	2.727	5.1	20.6
4 1	12 44.65	− 7 22.3	1.716	2.715	1.1	20.3
4 11	12 36.31	− 6 3.5	1.711	2.702	4.0	20.5
4 21	12 28.75	− 4 47.3	1.734	2.689	8.3	20.7
5 1	12 22.82	− 3 40.7	1.782	2.676	12.2	20.9
5 11	12 19.06	− 2 48.9	1.851	2.663	15.6	21.1

364753 2007 VK_{327} 4 1.6 212°.49 1°.9/ 3.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.66	−12 27.9	2.015	2.853	12.7	22.1
3 12	13 2.33	−12 5.8	1.928	2.845	9.4	21.9
3 22	12 54.11	−11 28.1	1.866	2.837	5.6	21.7
4 1	12 44.73	−10 37.5	1.832	2.827	2.2	21.4
4 11	12 35.17	− 9 39.2	1.827	2.817	3.8	21.5
4 21	12 26.41	− 8 39.4	1.850	2.806	7.8	21.7
5 1	12 19.29	− 7 44.6	1.899	2.794	11.5	21.9
5 11	12 14.38	− 7 0.2	1.971	2.782	14.8	22.1

302288 2001 YO_{19} 4 1.6 138°.48 3°.5/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.28	+ 2 5.6	1.745	2.622	12.4	21.5
3 12	13 2.67	+ 3 12.7	1.693	2.635	8.6	21.3
3 22	12 54.19	+ 4 23.1	1.667	2.647	4.9	21.1
4 1	12 44.73	+ 5 29.3	1.668	2.658	3.8	21.1
4 11	12 35.38	+ 6 23.7	1.698	2.669	6.7	21.3
4 21	12 27.14	+ 7 1.3	1.755	2.678	10.5	21.5
5 1	12 20.79	+ 7 19.3	1.835	2.687	13.9	21.8
5 11	12 16.77	+ 7 17.8	1.934	2.696	16.7	22.0

269004 2007 EO_{119} 4 1.6 312°.10 1°.9/30.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 5.68	− 1 42.7	1.737	2.615	12.4	20.3
3 12	13 0.33	− 1 2.1	1.668	2.611	8.6	20.1
3 22	12 53.06	− 0 14.2	1.624	2.607	4.5	19.8
4 1	12 44.68	+ 0 35.2	1.607	2.604	2.0	19.6
4 11	12 36.23	+ 1 19.5	1.617	2.600	5.5	19.9
4 21	12 28.71	+ 1 52.8	1.654	2.597	9.6	20.1
5 1	12 22.94	+ 2 11.2	1.714	2.594	13.4	20.3
5 11	12 19.46	+ 2 12.8	1.795	2.591	16.6	20.5

466804 2015 BV_{85} 4 1.6 64°.05 5°.1/27.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.50	+ 5 52.9	1.690	2.579	12.1	20.8
3 12	12 59.34	+ 7 20.4	1.649	2.594	8.5	20.6
3 22	12 52.43	+ 8 47.0	1.633	2.609	5.7	20.5
4 1	12 44.64	+10 4.1	1.645	2.624	5.5	20.5
4 11	12 36.99	+11 3.7	1.683	2.639	8.2	20.7
4 21	12 30.41	+11 41.4	1.746	2.654	11.5	20.9
5 1	12 25.59	+11 55.5	1.831	2.670	14.5	21.2
5 11	12 22.96	+11 47.4	1.934	2.685	17.1	21.4

116887 2004 FK_{123} 4 1.6 278°.44 1°.0/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.00	− 5 12.9	1.639	2.513	13.2	20.4
3 12	12 59.94	− 4 17.4	1.570	2.511	9.2	20.2
3 22	12 52.88	− 3 9.6	1.525	2.509	4.8	19.9
4 1	12 44.68	− 1 55.9	1.508	2.506	1.1	19.6
4 11	12 36.40	− 0 44.6	1.517	2.504	5.2	19.9
4 21	12 29.10	+ 0 16.8	1.553	2.501	9.7	20.2
5 1	12 23.63	+ 1 2.3	1.612	2.499	13.7	20.4
5 11	12 20.52	+ 1 28.8	1.691	2.497	17.1	20.6

84057 2002 PL_{93} 4 1.6 180°.89 1°.5/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.33	−10 27.0	1.207	2.081	17.0	19.1
3 12	13 1.36	− 7 48.6	1.141	2.082	11.9	18.8
3 22	12 53.80	− 4 39.1	1.099	2.083	6.0	18.5
4 1	12 44.73	− 1 13.4	1.085	2.083	1.6	18.2
4 11	12 35.63	+ 2 7.7	1.098	2.082	7.1	18.5
4 21	12 27.89	+ 5 4.9	1.138	2.082	12.9	18.8
5 1	12 22.59	+ 7 25.5	1.201	2.080	17.9	19.1
5 11	12 20.29	+ 9 5.1	1.282	2.078	22.0	19.4

297688 2001 UO_{206} 4 1.6 242°.40 4°.1/29.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.11	+ 3 31.8	1.714	2.592	12.5	21.5
3 12	13 3.62	+ 4 32.5	1.634	2.576	8.9	21.2
3 22	12 54.90	+ 5 37.3	1.579	2.558	5.3	21.0
4 1	12 44.79	+ 6 38.4	1.552	2.540	4.4	20.9
4 11	12 34.44	+ 7 27.8	1.553	2.521	7.5	21.0
4 21	12 25.00	+ 7 59.4	1.580	2.501	11.6	21.2
5 1	12 17.45	+ 8 9.9	1.630	2.481	15.4	21.4
5 11	12 12.44	+ 7 58.9	1.699	2.459	18.7	21.6

499876 2011 FO_{30} 4 1.6 208°.86 1°.2/31.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.32	− 1 46.9	2.106	2.970	11.1	21.4
3 12	13 2.63	− 1 34.7	2.030	2.966	7.8	21.2
3 22	12 54.20	− 1 17.4	1.981	2.962	4.1	20.9
4 1	12 44.76	− 0 58.7	1.960	2.958	1.2	20.7
4 11	12 35.24	− 0 43.0	1.969	2.953	4.4	20.9
4 21	12 26.53	− 0 33.9	2.006	2.949	8.2	21.1
5 1	12 19.40	− 0 34.4	2.069	2.943	11.7	21.3
5 11	12 14.35	− 0 46.1	2.154	2.938	14.5	21.5

208690 2002 GK_{150} 4 1.6 298°.04 1°.0/ 2.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.84	− 9 3.2	1.423	2.291	15.2	20.6
3 12	13 1.64	− 8 43.8	1.345	2.280	11.0	20.3
3 22	12 53.97	− 8 7.4	1.289	2.268	6.2	20.0
4 1	12 44.76	− 7 18.4	1.258	2.257	1.3	19.6
4 11	12 35.28	− 6 23.7	1.254	2.246	4.9	19.9
4 21	12 26.84	− 5 31.7	1.275	2.235	10.1	20.1
5 1	12 20.55	− 4 49.9	1.318	2.224	14.8	20.4
5 11	12 17.08	− 4 23.8	1.380	2.214	18.8	20.6

386729 2010 AJ_{17} 4 1.6 106°.82 3°.2/ 4.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.95	−15 47.3	2.020	2.849	13.0	21.1
3 12	13 0.34	−15 41.4	1.948	2.855	9.9	20.9
3 22	12 53.01	−15 18.5	1.900	2.861	6.4	20.7
4 1	12 44.70	−14 40.8	1.879	2.868	3.5	20.5
4 11	12 36.35	−13 52.7	1.885	2.874	4.1	20.5
4 21	12 28.85	−12 59.9	1.920	2.880	7.3	20.7
5 1	12 22.96	−12 8.7	1.980	2.885	10.6	21.0
5 11	12 19.17	−11 24.7	2.063	2.891	13.6	21.2

22761 1998 YH_{4} 4 1.6 276°.02 6°.2/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.95	+ 6 1.0	1.391	2.284	13.9	17.9
3 12	13 1.70	+ 7 32.6	1.322	2.269	10.0	17.6
3 22	12 53.99	+ 9 7.2	1.278	2.254	6.8	17.4
4 1	12 44.76	+10 33.7	1.258	2.238	6.7	17.4
4 11	12 35.31	+11 40.9	1.264	2.223	10.0	17.5
4 21	12 26.95	+12 21.3	1.294	2.207	14.3	17.7
5 1	12 20.77	+12 31.9	1.344	2.192	18.2	17.9
5 11	12 17.42	+12 13.8	1.409	2.176	21.6	18.1

204901 2007 US_{93} 4 1.6 232°.22 0°.2/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 4.53	− 7 29.7	2.301	3.156	10.7	20.7
3 12	12 59.21	− 7 1.7	2.219	3.149	7.6	20.5
3 22	12 52.38	− 6 23.8	2.163	3.142	4.1	20.2
4 1	12 44.67	− 5 39.4	2.136	3.135	0.4	19.9
4 11	12 36.86	− 4 53.3	2.138	3.128	3.5	20.2
4 21	12 29.72	− 4 10.2	2.169	3.120	7.1	20.4
5 1	12 23.92	− 3 34.7	2.225	3.113	10.4	20.6
5 11	12 19.92	− 3 9.9	2.304	3.105	13.2	20.7

106401 2000 VB_{28} 4 1.6 184°.78 0°.6/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.73	− 9 57.6	1.809	2.663	13.1	20.1
3 12	13 1.03	− 9 4.3	1.735	2.664	9.4	19.8
3 22	12 53.43	− 7 55.0	1.686	2.664	5.2	19.6
4 1	12 44.73	− 6 34.9	1.664	2.663	0.8	19.3
4 11	12 35.98	− 5 11.4	1.671	2.662	4.1	19.5
4 21	12 28.15	− 3 52.8	1.706	2.660	8.5	19.8
5 1	12 22.08	− 2 45.8	1.766	2.657	12.5	20.0
5 11	12 18.28	− 1 55.2	1.847	2.654	15.8	20.2

392428 2010 OQ_{45} 4 1.6 254°.93 2°.4/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.38	−13 36.9	2.747	3.570	10.1	21.3
3 12	13 0.40	−13 50.3	2.652	3.557	7.6	21.1
3 22	12 53.00	−13 53.0	2.583	3.545	4.9	20.9
4 1	12 44.72	−13 46.1	2.543	3.533	2.6	20.7
4 11	12 36.26	−13 31.6	2.533	3.520	3.3	20.8
4 21	12 28.34	−13 12.9	2.552	3.507	6.0	20.9
5 1	12 21.57	−12 53.5	2.599	3.494	8.8	21.1
5 11	12 16.44	−12 37.2	2.670	3.481	11.3	21.2

67002 1999 XJ_{118} 4 1.6 239°.59 1°.7/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.77	− 1 6.7	2.124	2.993	10.8	19.3
3 12	13 0.88	− 0 36.2	2.045	2.984	7.6	19.1
3 22	12 53.30	− 0 0.3	1.993	2.975	4.0	18.8
4 1	12 44.74	+ 0 36.5	1.968	2.965	1.7	18.6
4 11	12 36.06	+ 1 9.2	1.973	2.955	4.8	18.8
4 21	12 28.12	+ 1 33.2	2.006	2.945	8.5	19.0
5 1	12 21.67	+ 1 45.4	2.064	2.934	11.8	19.2
5 11	12 17.21	+ 1 43.9	2.143	2.923	14.7	19.4

367192 2007 AV_{24} 4 1.6 107°.80 2°.8/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.40	+ 0 40.6	1.832	2.708	11.9	20.9
3 12	13 1.29	+ 1 35.2	1.781	2.723	8.2	20.7
3 22	12 53.46	+ 2 33.8	1.756	2.738	4.5	20.5
4 1	12 44.74	+ 3 30.0	1.759	2.752	2.9	20.4
4 11	12 36.14	+ 4 17.3	1.790	2.766	5.9	20.6
4 21	12 28.58	+ 4 50.7	1.848	2.779	9.6	20.9
5 1	12 22.76	+ 5 7.5	1.930	2.793	12.9	21.1
5 11	12 19.10	+ 5 7.0	2.032	2.805	15.6	21.3

428047 2006 DY_{128} 4 1.6 62°.28 2°.8/29.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.89	+ 0 36.6	1.814	2.695	11.8	20.8
3 12	12 59.64	+ 1 32.9	1.755	2.699	8.2	20.5
3 22	12 52.65	+ 2 34.0	1.721	2.703	4.5	20.3
4 1	12 44.70	+ 3 33.4	1.714	2.707	3.0	20.2
4 11	12 36.77	+ 4 24.1	1.735	2.711	6.0	20.4
4 21	12 29.77	+ 5 0.9	1.783	2.716	9.7	20.7
5 1	12 24.45	+ 5 20.5	1.854	2.720	13.2	20.9
5 11	12 21.26	+ 5 22.0	1.944	2.724	16.0	21.1

350767 2002 AJ_{153} 4 1.6 166°.19 5°.8/11.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.26	−33 41.6	3.799	4.479	10.0	22.3
3 12	13 0.78	−34 4.3	3.709	4.485	8.7	22.2
3 22	12 53.10	−34 10.7	3.641	4.491	7.4	22.1
4 1	12 44.73	−34 0.1	3.600	4.497	6.3	22.0
4 11	12 36.28	−33 33.4	3.586	4.501	5.8	22.0
4 21	12 28.33	−32 53.2	3.600	4.505	6.2	22.0
5 1	12 21.41	−32 3.0	3.642	4.509	7.3	22.1
5 11	12 15.92	−31 7.7	3.709	4.511	8.6	22.2

168268 2007 PQ_{1} 4 1.6 248°.93 0°.5/ 1.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.97	− 6 12.9	2.348	3.206	10.3	20.9
3 12	12 58.85	− 5 20.8	2.256	3.190	7.3	20.7
3 22	12 52.23	− 4 18.3	2.191	3.172	3.8	20.5
4 1	12 44.69	− 3 9.7	2.156	3.155	0.5	20.2
4 11	12 37.00	− 2 0.6	2.150	3.136	3.9	20.4
4 21	12 29.90	− 0 56.9	2.172	3.118	7.5	20.6
5 1	12 24.08	− 0 3.5	2.221	3.099	10.8	20.8
5 11	12 20.02	+ 0 36.1	2.292	3.079	13.7	20.9

196190 2003 AC_{29} 4 1.6 66°.29 4°.3/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.40	−15 47.3	1.292	2.141	17.7	19.9
3 12	13 3.49	−15 54.6	1.232	2.149	13.5	19.7
3 22	12 54.93	−15 37.9	1.192	2.158	8.8	19.4
4 1	12 44.84	−14 59.0	1.176	2.166	4.8	19.2
4 11	12 34.73	−14 4.2	1.185	2.175	5.6	19.3
4 21	12 26.00	−13 2.8	1.219	2.184	9.9	19.6
5 1	12 19.77	−12 4.6	1.276	2.193	14.3	19.8
5 11	12 16.62	−11 17.6	1.352	2.202	18.2	20.1

242354 2004 BP_{86} 4 1.6 36°.33 1°.1/31.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 5.47	− 3 9.8	1.820	2.693	12.1	20.1
3 12	13 0.04	− 2 45.1	1.761	2.701	8.4	19.9
3 22	12 52.86	− 2 13.1	1.727	2.710	4.3	19.6
4 1	12 44.73	− 1 38.6	1.720	2.718	1.1	19.4
4 11	12 36.64	− 1 7.2	1.741	2.727	4.6	19.7
4 21	12 29.50	− 0 43.5	1.788	2.737	8.6	19.9
5 1	12 24.05	− 0 31.3	1.860	2.746	12.2	20.2
5 11	12 20.75	− 0 32.4	1.953	2.756	15.2	20.4

382767 2003 RO_{12} 4 1.6 211°.05 2°.2/ 4.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.06	−14 41.6	2.557	3.380	10.8	22.3
3 12	12 59.52	−14 17.7	2.466	3.373	8.1	22.1
3 22	12 52.54	−13 39.9	2.401	3.365	5.1	21.9
4 1	12 44.72	−12 50.2	2.365	3.357	2.5	21.7
4 11	12 36.79	−11 52.8	2.359	3.348	3.2	21.7
4 21	12 29.47	−10 52.5	2.382	3.339	6.2	21.9
5 1	12 23.39	− 9 54.7	2.432	3.329	9.3	22.1
5 11	12 19.01	− 9 4.0	2.506	3.318	12.0	22.2

71370 2000 AK_{139} 4 1.6 101°.07 5°.9/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.46	+ 8 52.7	1.682	2.564	12.5	19.2
3 12	13 2.77	+10 6.3	1.646	2.584	9.1	19.1
3 22	12 54.23	+11 15.4	1.634	2.604	6.4	18.9
4 1	12 44.81	+12 11.5	1.650	2.623	6.3	19.0
4 11	12 35.62	+12 48.1	1.693	2.641	8.8	19.1
4 21	12 27.66	+13 2.2	1.760	2.659	11.9	19.4
5 1	12 21.66	+12 53.6	1.850	2.677	14.9	19.6
5 11	12 18.03	+12 24.5	1.958	2.694	17.3	19.8

517193 2013 TW_{163} 4 1.6 151°.37 0°.1/ 1.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.14	− 6 22.2	2.016	2.875	11.8	21.9
3 12	13 1.15	− 6 4.1	1.946	2.878	8.3	21.7
3 22	12 53.44	− 5 36.5	1.902	2.881	4.4	21.5
4 1	12 44.77	− 5 3.2	1.885	2.884	0.3	21.1
4 11	12 36.07	− 4 28.9	1.897	2.887	3.9	21.5
4 21	12 28.22	− 3 58.6	1.937	2.889	7.8	21.7
5 1	12 21.96	− 3 36.4	2.003	2.891	11.3	21.9
5 11	12 17.77	− 3 25.3	2.090	2.893	14.3	22.1

495390 2014 QE_{249} 4 1.6 238°.28 4°.1/28.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.35	+ 3 11.4	1.815	2.693	11.9	21.5
3 12	13 2.28	+ 4 27.6	1.735	2.677	8.4	21.2
3 22	12 54.18	+ 5 48.8	1.682	2.661	5.1	21.0
4 1	12 44.82	+ 7 7.0	1.657	2.643	4.4	20.9
4 11	12 35.25	+ 8 13.7	1.660	2.625	7.4	21.0
4 21	12 26.52	+ 9 2.5	1.689	2.605	11.3	21.2
5 1	12 19.53	+ 9 29.7	1.741	2.585	14.9	21.4
5 11	12 14.89	+ 9 34.4	1.813	2.565	18.0	21.6

216301 2007 RC_{137} 4 1.6 116°.50 0°.6/ 2.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.09	− 7 26.7	1.602	2.463	14.2	20.9
3 12	13 4.18	− 7 16.0	1.542	2.474	10.1	20.7
3 22	12 55.12	− 6 53.0	1.506	2.485	5.5	20.4
4 1	12 44.87	− 6 21.8	1.497	2.496	0.8	20.1
4 11	12 34.67	− 5 48.0	1.516	2.506	4.5	20.4
4 21	12 25.66	− 5 17.8	1.561	2.516	9.1	20.7
5 1	12 18.75	− 4 56.3	1.631	2.526	13.1	20.9
5 11	12 14.45	− 4 47.0	1.721	2.535	16.5	21.2

1362 Griqua 4 1.6 143°.22 6°.2/21.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.50	+22 9.2	3.390	4.240	7.7	17.5
3 12	12 58.05	+23 25.3	3.360	4.254	6.6	17.5
3 22	12 51.61	+24 31.9	3.358	4.267	6.2	17.4
4 1	12 44.67	+25 24.4	3.384	4.279	6.7	17.5
4 11	12 37.79	+25 59.9	3.437	4.291	7.8	17.6
4 21	12 31.48	+26 17.2	3.515	4.302	9.2	17.7
5 1	12 26.19	+26 16.7	3.615	4.313	10.6	17.8
5 11	12 22.22	+25 59.8	3.732	4.323	11.7	17.9

210223 2007 RC_{92} 4 1.6 282°.15 2°.0/31.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.22	− 2 8.9	1.435	2.316	14.3	20.9
3 12	13 2.57	− 1 31.8	1.360	2.304	10.0	20.6
3 22	12 54.47	− 0 45.0	1.308	2.291	5.3	20.3
4 1	12 44.84	+ 0 5.0	1.282	2.279	2.0	20.1
4 11	12 34.97	+ 0 50.0	1.282	2.267	6.2	20.3
4 21	12 26.17	+ 1 22.9	1.307	2.255	11.2	20.5
5 1	12 19.51	+ 1 38.6	1.355	2.242	15.7	20.8
5 11	12 15.68	+ 1 34.8	1.421	2.230	19.5	21.0

236134 2005 TX_{57} 4 1.6 89°.99 2°.0/31.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.59	− 1 28.8	1.324	2.204	15.4	20.3
3 12	13 5.45	− 1 6.0	1.275	2.218	10.7	20.0
3 22	12 55.83	− 0 35.9	1.248	2.231	5.6	19.8
4 1	12 44.91	− 0 5.0	1.247	2.244	2.0	19.6
4 11	12 34.16	+ 0 19.5	1.272	2.258	6.2	19.9
4 21	12 24.90	+ 0 32.2	1.323	2.271	11.1	20.2
5 1	12 18.11	+ 0 29.7	1.396	2.283	15.4	20.5
5 11	12 14.30	+ 0 11.0	1.488	2.296	18.9	20.7

302140 2001 RL_{133} 4 1.6 201°.70 0°.5/ 1.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 10.68	− 5 21.9	1.787	2.648	13.0	22.3
3 12	13 3.89	− 4 52.9	1.710	2.644	9.2	22.1
3 22	12 55.01	− 4 13.3	1.658	2.639	4.8	21.8
4 1	12 44.88	− 3 27.8	1.635	2.634	0.5	21.5
4 11	12 34.62	− 2 42.5	1.640	2.628	4.7	21.8
4 21	12 25.31	− 2 3.5	1.673	2.621	9.1	22.0
5 1	12 17.87	− 1 35.9	1.730	2.613	13.1	22.2
5 11	12 12.88	− 1 22.6	1.809	2.604	16.5	22.4

318238 2004 RM_{255} 4 1.6 222°.90 4°.2/28.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.01	+ 7 23.3	2.289	3.162	10.0	21.0
3 12	13 1.65	+ 8 10.6	2.216	3.152	7.2	20.8
3 22	12 53.69	+ 8 56.8	2.170	3.142	4.8	20.7
4 1	12 44.80	+ 9 36.1	2.152	3.131	4.5	20.6
4 11	12 35.84	+10 3.5	2.164	3.119	6.7	20.7
4 21	12 27.61	+10 15.7	2.203	3.107	9.6	20.9
5 1	12 20.82	+10 11.2	2.266	3.094	12.5	21.1
5 11	12 15.93	+ 9 50.1	2.350	3.081	14.9	21.2

382329 2013 TX_{29} 4 1.6 140°.56 3°.3/29.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.72	+ 4 52.8	2.298	3.168	10.1	21.1
3 12	13 1.98	+ 5 24.9	2.241	3.178	7.1	20.9
3 22	12 53.77	+ 5 56.7	2.210	3.187	4.2	20.7
4 1	12 44.81	+ 6 23.4	2.210	3.197	3.4	20.7
4 11	12 35.91	+ 6 40.9	2.239	3.205	5.7	20.8
4 21	12 27.87	+ 6 46.2	2.296	3.213	8.6	21.0
5 1	12 21.30	+ 6 38.1	2.378	3.221	11.4	21.2
5 11	12 16.61	+ 6 16.6	2.481	3.228	13.8	21.4

115719 2003 UX_{175} 4 1.6 264°.78 1°.2/31.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.12	− 4 14.9	1.527	2.403	13.9	20.2
3 12	13 1.62	− 3 32.4	1.456	2.398	9.7	20.0
3 22	12 53.89	− 2 38.3	1.409	2.392	5.1	19.7
4 1	12 44.82	− 1 38.9	1.387	2.386	1.2	19.4
4 11	12 35.63	− 0 42.2	1.393	2.380	5.5	19.6
4 21	12 27.47	+ 0 4.5	1.425	2.374	10.3	19.9
5 1	12 21.33	+ 0 35.5	1.479	2.368	14.6	20.1
5 11	12 17.79	+ 0 48.0	1.553	2.362	18.2	20.4

502873 2015 DF_{207} 4 1.6 106°.58 3°.0/28.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.76	+ 1 24.3	2.171	3.050	10.2	21.0
3 12	12 57.93	+ 2 40.9	2.114	3.057	7.0	20.8
3 22	12 51.69	+ 4 1.3	2.083	3.064	4.0	20.6
4 1	12 44.69	+ 5 18.9	2.082	3.071	3.2	20.5
4 11	12 37.73	+ 6 27.4	2.109	3.078	5.8	20.7
4 21	12 31.52	+ 7 21.6	2.163	3.084	8.9	20.9
5 1	12 26.69	+ 7 58.4	2.242	3.091	11.8	21.1
5 11	12 23.63	+ 8 17.0	2.341	3.098	14.3	21.3

396214 2013 YK_{47} 4 1.6 256°.89 1°.8/30.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.15	− 1 15.7	1.937	2.811	11.5	21.0
3 12	13 0.55	− 0 40.7	1.865	2.806	8.0	20.8
3 22	12 53.18	+ 0 0.4	1.819	2.801	4.2	20.5
4 1	12 44.79	+ 0 42.4	1.800	2.797	1.9	20.3
4 11	12 36.33	+ 1 19.6	1.810	2.792	5.1	20.5
4 21	12 28.70	+ 1 47.1	1.846	2.787	9.0	20.8
5 1	12 22.68	+ 2 1.4	1.908	2.782	12.5	21.0
5 11	12 18.76	+ 2 0.7	1.989	2.777	15.4	21.2

368223 2001 TR_{89} 4 1.6 140°.22 2°.0/ 3.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.49	−14 35.2	2.086	2.919	12.5	22.0
3 12	12 59.94	−13 48.5	2.016	2.929	9.3	21.8
3 22	12 52.79	−12 44.5	1.971	2.939	5.6	21.6
4 1	12 44.77	−11 27.3	1.953	2.948	2.4	21.4
4 11	12 36.78	−10 3.1	1.965	2.956	3.5	21.5
4 21	12 29.65	− 8 39.1	2.006	2.965	7.1	21.7
5 1	12 24.06	− 7 22.2	2.074	2.972	10.5	21.9
5 11	12 20.45	− 6 17.5	2.164	2.979	13.5	22.1

250491 2004 EX_{83} 4 1.6 144°.29 0°.9/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.34	− 8 13.4	2.086	2.931	12.0	19.9
3 12	13 4.02	− 8 12.3	2.018	2.942	8.6	19.7
3 22	12 54.95	− 8 1.1	1.976	2.952	4.8	19.4
4 1	12 44.90	− 7 42.4	1.963	2.962	1.1	19.2
4 11	12 34.87	− 7 20.2	1.980	2.971	3.7	19.4
4 21	12 25.75	− 6 58.9	2.026	2.979	7.5	19.6
5 1	12 18.33	− 6 42.5	2.099	2.987	10.9	19.9
5 11	12 13.06	− 6 34.3	2.194	2.994	13.8	20.1

322481 2011 UV_{231} 4 1.6 303°.77 0°.1/ 1.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.69	− 6 57.1	2.082	2.944	11.3	21.0
3 12	12 58.83	− 6 31.8	1.995	2.929	8.1	20.8
3 22	12 52.30	− 5 56.1	1.934	2.914	4.3	20.5
4 1	12 44.76	− 5 13.4	1.901	2.900	0.3	20.2
4 11	12 37.05	− 4 29.0	1.896	2.886	3.8	20.4
4 21	12 30.03	− 3 48.1	1.918	2.872	7.8	20.7
5 1	12 24.43	− 3 15.6	1.966	2.858	11.3	20.8
5 11	12 20.78	− 2 54.9	2.035	2.844	14.4	21.0

416242 2003 BZ_{66} 4 1.6 34°.68 2°.9/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 6.69	−12 41.7	1.308	2.171	16.7	20.2
3 12	13 1.42	−12 42.0	1.257	2.185	12.3	19.9
3 22	12 53.78	−12 22.1	1.226	2.199	7.5	19.7
4 1	12 44.84	−11 45.4	1.220	2.215	3.3	19.5
4 11	12 35.99	−10 58.8	1.239	2.231	4.9	19.6
4 21	12 28.50	−10 10.5	1.282	2.248	9.4	19.9
5 1	12 23.31	− 9 28.5	1.349	2.265	13.7	20.2
5 11	12 20.94	− 8 58.6	1.434	2.283	17.4	20.5

381744 2009 SD_{67} 4 1.6 142°.20 0°.5/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.14	− 8 24.4	1.988	2.843	12.1	21.9
3 12	13 0.47	− 7 53.9	1.919	2.849	8.6	21.7
3 22	12 53.11	− 7 11.5	1.875	2.854	4.7	21.4
4 1	12 44.81	− 6 21.2	1.860	2.859	0.7	21.1
4 11	12 36.49	− 5 28.9	1.873	2.863	3.8	21.4
4 21	12 29.03	− 4 40.1	1.914	2.867	7.7	21.6
5 1	12 23.16	− 4 0.1	1.980	2.871	11.3	21.9
5 11	12 19.36	− 3 32.3	2.068	2.875	14.3	22.1

146354 2001 OK_{106} 4 1.6 132°.10 4°.3/ 5.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.77	−19 20.7	2.095	2.901	13.4	20.2
3 12	13 2.31	−19 23.6	2.025	2.914	10.5	20.0
3 22	12 54.08	−19 7.6	1.978	2.926	7.3	19.8
4 1	12 44.86	−18 33.9	1.959	2.938	4.7	19.7
4 11	12 35.64	−17 46.4	1.967	2.949	4.8	19.7
4 21	12 27.32	−16 50.7	2.004	2.960	7.3	19.9
5 1	12 20.68	−15 53.6	2.067	2.970	10.4	20.1
5 11	12 16.19	−15 1.3	2.153	2.980	13.2	20.3

107295 2001 CG_{3} 4 1.6 125°.37 0°.0/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.27	− 7 3.7	1.771	2.631	13.1	20.1
3 12	13 2.74	− 6 32.5	1.712	2.644	9.3	19.9
3 22	12 54.31	− 5 49.6	1.677	2.657	4.9	19.7
4 1	12 44.88	− 4 59.9	1.670	2.670	0.3	19.3
4 11	12 35.51	− 4 9.8	1.692	2.682	4.3	19.7
4 21	12 27.22	− 3 25.4	1.741	2.693	8.6	19.9
5 1	12 20.79	− 2 51.6	1.815	2.704	12.3	20.2
5 11	12 16.70	− 2 31.7	1.910	2.714	15.4	20.4

15339 Pierazzo 4 1.6 176°.50 1°.3/31.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.24	− 2 54.8	2.306	3.173	10.2	18.6
3 12	12 58.96	− 2 10.1	2.236	3.174	7.1	18.4
3 22	12 52.26	− 1 18.8	2.193	3.175	3.6	18.2
4 1	12 44.76	− 0 25.4	2.178	3.176	1.3	18.0
4 11	12 37.24	+ 0 24.7	2.193	3.176	4.2	18.2
4 21	12 30.43	+ 1 6.9	2.236	3.176	7.6	18.4
5 1	12 24.94	+ 1 37.6	2.304	3.176	10.7	18.6
5 11	12 21.21	+ 1 54.8	2.395	3.175	13.3	18.8

436708 2011 TZ_{16} 4 1.6 244°.71 3°.1/28.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.97	+ 4 33.7	2.515	3.389	9.2	21.5
3 12	12 59.43	+ 5 14.1	2.438	3.377	6.5	21.3
3 22	12 52.51	+ 5 55.4	2.389	3.366	3.9	21.1
4 1	12 44.79	+ 6 32.8	2.368	3.355	3.3	21.0
4 11	12 36.98	+ 7 2.0	2.377	3.343	5.5	21.1
4 21	12 29.80	+ 7 19.5	2.414	3.331	8.3	21.3
5 1	12 23.85	+ 7 23.4	2.476	3.318	11.1	21.5
5 11	12 19.56	+ 7 13.0	2.559	3.306	13.4	21.6

372439 2009 SJ_{71} 4 1.6 47°.76 0°.8/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.91	− 8 34.5	1.466	2.334	14.8	20.8
3 12	13 1.31	− 8 13.8	1.417	2.352	10.6	20.6
3 22	12 53.62	− 7 38.7	1.390	2.370	5.8	20.3
4 1	12 44.84	− 6 54.1	1.389	2.388	1.0	20.1
4 11	12 36.20	− 6 7.0	1.415	2.407	4.5	20.4
4 21	12 28.81	− 5 24.5	1.466	2.426	9.1	20.7
5 1	12 23.51	− 4 52.3	1.541	2.445	13.2	20.9
5 11	12 20.74	− 4 34.3	1.636	2.465	16.5	21.2

6540 Stepling 4 1.6 175°.04 0°.0/ 1.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.73	− 8 17.2	1.705	2.563	13.6	17.7
3 12	13 2.53	− 7 23.7	1.635	2.567	9.6	17.4
3 22	12 54.29	− 6 15.2	1.589	2.569	5.1	17.2
4 1	12 44.89	− 4 57.4	1.571	2.571	0.3	16.8
4 11	12 35.45	− 3 38.4	1.582	2.572	4.5	17.1
4 21	12 27.03	− 2 26.3	1.620	2.572	9.1	17.4
5 1	12 20.52	− 1 27.7	1.683	2.571	13.2	17.6
5 11	12 16.43	− 0 46.6	1.767	2.570	16.5	17.9

522499 2016 EO_{232} 4 1.6 148°.94 0°.4/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.39	− 7 49.0	1.718	2.580	13.3	22.0
3 12	13 1.59	− 7 24.3	1.649	2.582	9.5	21.8
3 22	12 53.80	− 6 46.8	1.605	2.584	5.2	21.5
4 1	12 44.87	− 6 0.8	1.587	2.586	0.6	21.2
4 11	12 35.88	− 5 12.6	1.597	2.587	4.3	21.5
4 21	12 27.88	− 4 28.6	1.634	2.589	8.7	21.7
5 1	12 21.73	− 3 54.3	1.695	2.590	12.7	22.0
5 11	12 17.94	− 3 33.5	1.777	2.592	16.0	22.2

125467 2001 WK_{10} 4 1.6 188.°75 1.°0/31.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 6.54	− 4 7.1	1.947	2.814	11.8	20.3
3 12	13 0.81	− 3 27.4	1.876	2.813	8.2	20.1
3 22	12 53.33	− 2 38.9	1.831	2.813	4.2	19.8
4 1	12 44.85	− 1 46.7	1.813	2.812	1.0	19.6
4 11	12 36.32	− 0 56.7	1.825	2.810	4.6	19.8
4 21	12 28.64	− 0 14.7	1.863	2.809	8.5	20.1
5 1	12 22.57	+ 0 15.2	1.927	2.807	12.1	20.3
5 11	12 18.61	+ 0 30.3	2.012	2.805	15.1	20.5

217029 2001 OS_{91} 4 1.6 198.°91 1.°6/ 3.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.87	−13 48.1	2.058	2.896	12.5	20.7
3 12	12 59.63	−12 49.8	1.976	2.893	9.2	20.5
3 22	12 52.70	−11 33.4	1.919	2.890	5.5	20.3
4 1	12 44.81	−10 3.1	1.890	2.886	1.9	20.0
4 11	12 36.85	− 8 25.8	1.891	2.882	3.6	20.1
4 21	12 29.68	− 6 49.5	1.920	2.877	7.5	20.4
5 1	12 24.03	− 5 21.6	1.976	2.872	11.1	20.6
5 11	12 20.39	− 4 8.0	2.055	2.867	14.2	20.8

126959 2002 FX_{14} 4 1.6 76.°40 0.°4/ 1.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.99	− 3 34.8	1.775	2.640	12.8	19.8
3 12	13 4.00	− 3 39.0	1.712	2.647	9.0	19.6
3 22	12 55.03	− 3 36.5	1.674	2.655	4.7	19.3
4 1	12 44.95	− 3 30.5	1.663	2.662	0.5	19.0
4 11	12 34.88	− 3 25.3	1.681	2.670	4.5	19.4
4 21	12 25.87	− 3 24.6	1.727	2.677	8.7	19.6
5 1	12 18.77	− 3 31.6	1.797	2.685	12.5	19.9
5 11	12 14.08	− 3 48.6	1.889	2.692	15.6	20.1

133793 2003 WV_{128} 4 1.6 265.°17 3.°6/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.73	+ 4 44.6	2.007	2.884	11.0	19.9
3 12	13 1.62	+ 5 16.6	1.937	2.877	7.8	19.7
3 22	12 53.75	+ 5 49.0	1.892	2.871	4.7	19.5
4 1	12 44.88	+ 6 16.2	1.876	2.864	3.8	19.4
4 11	12 35.94	+ 6 33.2	1.888	2.857	6.3	19.5
4 21	12 27.84	+ 6 36.6	1.927	2.850	9.7	19.7
5 1	12 21.34	+ 6 24.5	1.990	2.843	12.9	19.9
5 11	12 16.94	+ 5 56.9	2.073	2.836	15.7	20.1

401135 2011 UN_{336} 4 1.6 153.°53 0.°7/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.02	− 9 35.8	1.919	2.768	12.7	22.4
3 12	13 2.52	− 8 57.6	1.852	2.778	9.1	22.2
3 22	12 54.21	− 8 5.6	1.810	2.787	5.0	21.9
4 1	12 44.90	− 7 4.4	1.796	2.795	0.9	21.7
4 11	12 35.62	− 6 0.2	1.812	2.802	3.9	21.9
4 21	12 27.30	− 4 59.7	1.856	2.809	8.0	22.1
5 1	12 20.71	− 4 8.6	1.925	2.814	11.7	22.4
5 11	12 16.35	− 3 31.1	2.017	2.819	14.8	22.6

205692 2001 YT_{125} 4 1.6 220.°45 2.°4/30.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.02	− 0 4.5	1.714	2.586	12.8	20.4
3 12	13 4.23	+ 0 30.7	1.638	2.578	9.0	20.1
3 22	12 55.26	+ 1 11.7	1.588	2.570	4.8	19.9
4 1	12 44.97	+ 1 52.6	1.566	2.561	2.5	19.7
4 11	12 34.53	+ 2 26.9	1.571	2.551	6.0	19.9
4 21	12 25.06	+ 2 49.1	1.604	2.541	10.3	20.1
5 1	12 17.54	+ 2 55.8	1.660	2.530	14.2	20.3
5 11	12 12.54	+ 2 45.6	1.736	2.519	17.6	20.5

428911 2008 VH_{59} 4 1.6 165.°69 1.°5/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.15	− 1 11.1	2.400	3.264	10.0	21.8
3 12	13 0.93	− 0 43.4	2.332	3.268	6.9	21.6
3 22	12 53.28	− 0 11.3	2.291	3.272	3.6	21.4
4 1	12 44.85	+ 0 21.3	2.279	3.276	1.5	21.3
4 11	12 36.42	+ 0 50.0	2.297	3.279	4.2	21.5
4 21	12 28.71	+ 1 11.3	2.344	3.281	7.5	21.7
5 1	12 22.37	+ 1 22.5	2.417	3.283	10.5	21.9
5 11	12 17.80	+ 1 22.0	2.512	3.285	13.0	22.0

296733 2009 TT_{14} 4 1.6 148.°99 0.°2/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.12	− 5 55.7	2.116	2.974	11.3	21.6
3 12	13 1.06	− 5 25.4	2.049	2.981	8.0	21.4
3 22	12 53.40	− 4 46.0	2.008	2.988	4.2	21.2
4 1	12 44.86	− 4 1.6	1.995	2.994	0.3	20.9
4 11	12 36.32	− 3 17.5	2.012	3.000	3.9	21.2
4 21	12 28.62	− 2 38.6	2.057	3.006	7.7	21.4
5 1	12 22.45	− 2 9.1	2.128	3.011	11.0	21.6
5 11	12 18.26	− 1 51.7	2.221	3.016	13.8	21.8

24206 Mariealoia 4 1.6 331.°86 3.°0/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.93	− 0 39.2	1.270	2.163	14.9	18.2
3 12	13 0.44	+ 0 9.6	1.202	2.152	10.4	17.9
3 22	12 53.43	+ 1 7.7	1.156	2.141	5.6	17.6
4 1	12 44.87	+ 2 6.8	1.135	2.130	3.1	17.4
4 11	12 36.11	+ 2 57.3	1.138	2.121	7.2	17.6
4 21	12 28.51	+ 3 31.3	1.165	2.112	12.3	17.9
5 1	12 23.16	+ 3 43.8	1.212	2.104	16.9	18.1
5 11	12 20.71	+ 3 33.3	1.277	2.097	20.8	18.4

386598 2009 FO_{65} 4 1.6 353.°29 3.°9/27.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 2.00	+ 4 10.0	2.078	2.962	10.3	20.5
3 12	12 57.52	+ 5 29.1	2.017	2.961	7.3	20.3
3 22	12 51.55	+ 6 50.4	1.983	2.960	4.6	20.1
4 1	12 44.75	+ 8 6.7	1.977	2.960	4.2	20.1
4 11	12 37.94	+ 9 11.2	1.999	2.959	6.7	20.3
4 21	12 31.88	+ 9 59.0	2.047	2.959	9.8	20.5
5 1	12 27.22	+10 27.4	2.118	2.959	12.7	20.6
5 11	12 24.40	+10 35.8	2.209	2.959	15.2	20.8

428699 2008 QG_2 4 1.6 205.°80 2.°1/ 3.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.48	−12 32.7	2.407	3.236	11.2	21.5
3 12	13 2.02	−12 34.3	2.319	3.230	8.3	21.3
3 22	12 53.94	−12 23.9	2.258	3.225	5.1	21.1
4 1	12 44.90	−12 3.1	2.225	3.219	2.3	20.9
4 11	12 35.71	−11 35.1	2.223	3.212	3.4	21.0
4 21	12 27.19	−11 4.0	2.249	3.204	6.7	21.2
5 1	12 20.05	−10 34.4	2.303	3.196	9.8	21.4
5 11	12 14.80	−10 10.4	2.380	3.188	12.6	21.5

95562 2002 ES_{101} 4 1.6 236.°92 4.°0/28.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.46	+ 6 6.0	2.243	3.117	10.1	19.6
3 12	13 1.35	+ 6 54.7	2.165	3.103	7.3	19.4
3 22	12 53.60	+ 7 43.5	2.115	3.090	4.7	19.2
4 1	12 44.88	+ 8 26.6	2.093	3.075	4.2	19.1
4 11	12 36.05	+ 8 58.8	2.101	3.060	6.5	19.2
4 21	12 27.93	+ 9 16.3	2.135	3.045	9.6	19.4
5 1	12 21.24	+ 9 17.1	2.194	3.029	12.6	19.6
5 11	12 16.48	+ 9 1.0	2.273	3.012	15.1	19.7

230871 2004 RA_{199} 4 1.6 127.°74 2.°6/ 4.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.39	−16 26.3	2.529	3.343	11.2	21.3
3 12	13 0.34	−16 2.9	2.462	3.361	8.4	21.2
3 22	12 52.95	−15 24.8	2.421	3.379	5.5	21.0
4 1	12 44.85	−14 34.4	2.408	3.396	2.9	20.9
4 11	12 36.81	−13 36.1	2.425	3.413	3.4	20.9
4 21	12 29.52	−12 34.8	2.472	3.429	6.1	21.1
5 1	12 23.58	−11 35.8	2.546	3.444	8.9	21.3
5 11	12 19.36	−10 43.9	2.645	3.458	11.4	21.5

70346 1999 RO_{177} 4 1.6 179.°66 1.°1/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.19	− 4 33.8	1.924	2.790	12.0	20.1
3 12	13 1.27	− 3 37.2	1.854	2.791	8.3	19.8
3 22	12 53.58	− 2 30.6	1.810	2.792	4.3	19.6
4 1	12 44.89	− 1 19.7	1.794	2.793	1.2	19.4
4 11	12 36.16	− 0 11.7	1.808	2.792	4.8	19.6
4 21	12 28.32	+ 0 47.1	1.849	2.792	8.8	19.9
5 1	12 22.13	+ 1 31.6	1.915	2.790	12.4	20.1
5 11	12 18.08	+ 1 59.2	2.002	2.788	15.4	20.3

477966 2011 SF_{45} 4 1.6 151.°85 2.°2/ 4.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.92	−13 47.3	2.586	3.413	10.5	21.5
3 12	12 59.39	−13 41.4	2.509	3.417	7.9	21.3
3 22	12 52.49	−13 23.5	2.457	3.421	5.0	21.1
4 1	12 44.84	−12 55.2	2.433	3.425	2.4	21.0
4 11	12 37.13	−12 20.1	2.440	3.429	3.2	21.0
4 21	12 30.07	−11 42.1	2.475	3.432	6.0	21.2
5 1	12 24.24	−11 5.6	2.537	3.435	8.9	21.4
5 11	12 20.08	−10 34.6	2.623	3.438	11.4	21.6

106267 2000 UZ_{63} 4 1.6 174.°85 1.°5/ 3.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.06	−10 18.3	2.521	3.359	10.4	19.9
3 12	13 0.92	−10 24.6	2.442	3.360	7.6	19.7
3 22	12 53.32	−10 21.2	2.389	3.360	4.5	19.5
4 1	12 44.89	−10 10.0	2.365	3.361	1.7	19.3
4 11	12 36.38	− 9 53.9	2.371	3.361	3.1	19.4
4 21	12 28.53	− 9 36.2	2.407	3.362	6.3	19.6
5 1	12 21.97	− 9 20.7	2.469	3.362	9.3	19.8
5 11	12 17.16	− 9 10.5	2.555	3.362	11.9	20.0

504339 2007 TU_{199} 4 1.6 150.°68 1.°1/ 2.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.79	−10 55.4	2.374	3.218	10.8	22.3
3 12	12 58.65	−10 19.5	2.301	3.223	7.8	22.1
3 22	12 52.12	− 9 31.4	2.253	3.227	4.5	21.9
4 1	12 44.82	− 8 34.5	2.234	3.231	1.3	21.7
4 11	12 37.50	− 7 33.9	2.244	3.236	3.2	21.8
4 21	12 30.87	− 6 34.8	2.284	3.239	6.6	22.0
5 1	12 25.55	− 5 42.2	2.350	3.243	9.7	22.2
5 11	12 21.95	− 4 59.9	2.438	3.246	12.4	22.4

22343 1992 RM_5 4 1.6 125.°30 0.°6/ 1.1 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.83	− 5 21.2	1.843	2.704	12.6	19.5
3 12	13 3.06	− 4 44.3	1.787	2.721	8.8	19.3
3 22	12 54.48	− 3 57.8	1.756	2.737	4.6	19.1
4 1	12 44.97	− 3 6.8	1.753	2.752	0.6	18.8
4 11	12 35.56	− 2 17.5	1.780	2.767	4.4	19.2
4 21	12 27.22	− 1 35.7	1.834	2.781	8.5	19.4
5 1	12 20.69	− 1 5.8	1.913	2.795	12.1	19.7
5 11	12 16.43	− 0 50.1	2.014	2.807	15.1	19.9

47958 2000 QV_{142} 4 1.6 226°.20 0°.8/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 10.52	− 4 1.8	1.707	2.573	13.2	19.5
3 12	13 3.92	− 3 39.1	1.629	2.565	9.3	19.2
3 22	12 55.14	− 3 7.1	1.575	2.557	4.9	18.9
4 1	12 45.02	− 2 30.4	1.549	2.548	0.8	18.6
4 11	12 34.71	− 1 55.2	1.551	2.538	5.0	18.9
4 21	12 25.35	− 1 27.0	1.580	2.528	9.6	19.1
5 1	12 17.92	− 1 10.6	1.634	2.518	13.7	19.4
5 11	12 13.02	− 1 8.9	1.707	2.507	17.1	19.6

333199 2012 GB_{17} 4 1.6 36°.90 4°.1/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.39	+ 0 48.2	1.385	2.279	13.8	19.6
3 12	12 58.96	+ 2 24.9	1.338	2.288	9.5	19.4
3 22	12 52.46	+ 4 8.0	1.315	2.298	5.4	19.1
4 1	12 44.85	+ 5 46.7	1.318	2.308	4.5	19.1
4 11	12 37.34	+ 7 10.2	1.347	2.319	7.9	19.3
4 21	12 31.02	+ 8 11.1	1.400	2.330	12.1	19.6
5 1	12 26.71	+ 8 45.5	1.474	2.341	15.9	19.9
5 11	12 24.87	+ 8 53.7	1.565	2.353	19.0	20.1

119147 2001 PF_{47} 4 1.6 88°.71 14°.4/15.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 22.52	−40 44.7	1.644	2.315	21.6	19.5
3 12	13 13.15	−42 37.0	1.594	2.345	19.4	19.3
3 22	13 0.31	−43 51.7	1.561	2.373	17.2	19.3
4 1	12 45.33	−44 21.3	1.547	2.401	15.5	19.2
4 11	12 30.18	−44 4.8	1.555	2.429	14.5	19.2
4 21	12 16.78	−43 8.3	1.584	2.456	14.6	19.3
5 1	12 6.62	−41 43.8	1.634	2.482	15.6	19.4
5 11	12 0.38	−40 5.6	1.705	2.507	17.1	19.6

2898 Neuvo 4 1.6 217°.97 8°.0/24.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.96	+14 6.2	1.716	2.600	12.2	15.9
3 12	13 0.58	+15 46.2	1.668	2.599	9.5	15.7
3 22	12 53.27	+17 18.5	1.645	2.598	8.1	15.6
4 1	12 44.91	+18 33.1	1.648	2.597	8.7	15.6
4 11	12 36.57	+19 22.4	1.676	2.595	11.0	15.8
4 21	12 29.26	+19 43.1	1.728	2.594	13.8	15.9
5 1	12 23.78	+19 35.1	1.799	2.592	16.5	16.1
5 11	12 20.61	+19 1.6	1.887	2.591	18.9	16.3

426994 2014 HS_{131} 4 1.6 333°.98 3°.0/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.06	−14 14.9	2.083	2.917	12.5	20.4
3 12	13 0.53	−14 26.3	2.003	2.913	9.5	20.2
3 22	12 53.25	−14 23.4	1.946	2.910	6.1	19.9
4 1	12 44.92	−14 7.3	1.916	2.906	3.3	19.8
4 11	12 36.45	−13 41.5	1.915	2.903	4.0	19.8
4 21	12 28.73	−13 10.5	1.941	2.900	7.2	20.0
5 1	12 22.54	−12 39.7	1.993	2.898	10.6	20.2
5 11	12 18.41	−12 13.9	2.067	2.895	13.6	20.4

18030 1999 LX_{4} 4 1.6 227°.11 6°.1/25.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.60	+11 20.0	2.119	2.998	10.4	19.2
3 12	13 0.12	+12 47.9	2.056	2.989	7.9	19.0
3 22	12 52.99	+14 12.3	2.019	2.979	6.2	18.9
4 1	12 44.91	+15 25.5	2.010	2.969	6.6	18.9
4 11	12 36.76	+16 20.7	2.029	2.959	8.8	19.0
4 21	12 29.38	+16 53.9	2.074	2.948	11.5	19.1
5 1	12 23.49	+17 3.8	2.140	2.937	14.1	19.3
5 11	12 19.57	+16 51.6	2.225	2.925	16.4	19.4

406900 2009 DR_{105} 4 1.6 29°.92 0°.7/ 1.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.93	− 6 51.6	1.125	2.014	16.7	20.6
3 12	12 59.70	− 5 52.2	1.078	2.025	11.7	20.3
3 22	12 52.98	− 4 35.2	1.051	2.036	6.1	20.0
4 1	12 44.90	− 3 9.9	1.049	2.048	0.7	19.7
4 11	12 36.95	− 1 48.1	1.071	2.061	5.9	20.1
4 21	12 30.42	− 0 40.0	1.116	2.075	11.3	20.4
5 1	12 26.30	+ 0 6.9	1.182	2.090	16.0	20.7
5 11	12 25.06	+ 0 29.9	1.266	2.105	19.8	21.0

242885 2006 JX_{11} 4 1.6 133°.20 3°.0/29.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.61	+ 2 1.4	2.130	3.007	10.5	20.8
3 12	12 59.30	+ 3 1.1	2.071	3.013	7.3	20.6
3 22	12 52.50	+ 4 4.0	2.038	3.018	4.1	20.4
4 1	12 44.89	+ 5 3.9	2.033	3.023	3.2	20.4
4 11	12 37.30	+ 5 54.8	2.057	3.028	5.7	20.5
4 21	12 30.51	+ 6 32.4	2.109	3.033	9.0	20.7
5 1	12 25.16	+ 6 53.9	2.185	3.037	12.0	20.9
5 11	12 21.67	+ 6 58.6	2.281	3.042	14.5	21.1

100203 1994 GF_{3} 4 1.6 79°.07 0°.2/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.99	− 6 29.4	1.470	2.339	14.8	20.0
3 12	13 3.44	− 5 57.2	1.424	2.361	10.4	19.8
3 22	12 54.76	− 5 12.7	1.402	2.383	5.4	19.6
4 1	12 45.02	− 4 21.7	1.406	2.406	0.3	19.2
4 11	12 35.51	− 3 31.8	1.438	2.428	4.8	19.6
4 21	12 27.35	− 2 49.9	1.495	2.449	9.5	19.9
5 1	12 21.37	− 2 20.9	1.577	2.471	13.5	20.2
5 11	12 18.00	− 2 7.7	1.677	2.492	16.8	20.5

377799 2006 AJ_{55} 4 1.6 291°.44 3°.4/ 4.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 5.20	−16 11.8	1.827	2.660	14.0	20.6
3 12	13 0.14	−16 0.7	1.745	2.654	10.7	20.4
3 22	12 53.14	−15 30.1	1.686	2.648	7.0	20.2
4 1	12 44.95	−14 42.0	1.653	2.642	3.8	20.0
4 11	12 36.60	−13 41.5	1.647	2.637	4.4	20.0
4 21	12 29.10	−12 35.3	1.669	2.631	7.9	20.2
5 1	12 23.31	−11 31.3	1.715	2.625	11.7	20.4
5 11	12 19.81	−10 36.0	1.783	2.619	15.0	20.6

180274 2003 WC_{63} 4 1.6 252°.99 1°.8/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	12 58.31	+ 4 10.1	4.399	5.269	5.6	20.0
3 12	12 54.37	+ 4 37.4	4.329	5.267	3.9	19.9
3 22	12 49.74	+ 5 4.9	4.287	5.265	2.3	19.7
4 1	12 44.74	+ 5 30.3	4.276	5.263	1.9	19.7
4 11	12 39.73	+ 5 51.3	4.295	5.261	3.2	19.8
4 21	12 35.05	+ 6 6.3	4.343	5.259	5.0	19.9
5 1	12 31.00	+ 6 14.0	4.418	5.257	6.6	20.0
5 11	12 27.84	+ 6 13.5	4.516	5.255	8.1	20.1

437010 2012 TL_{264} 4 1.6 152°.56 0°.2/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.14	− 8 30.8	2.604	3.453	9.8	21.8
3 12	12 58.10	− 7 39.1	2.533	3.460	6.9	21.6
3 22	12 51.82	− 6 37.4	2.488	3.466	3.7	21.4
4 1	12 44.87	− 5 29.7	2.473	3.473	0.3	21.1
4 11	12 37.93	− 4 21.1	2.489	3.478	3.1	21.4
4 21	12 31.62	− 3 16.6	2.534	3.484	6.3	21.6
5 1	12 26.49	− 2 20.6	2.606	3.489	9.2	21.8
5 11	12 22.91	− 1 36.3	2.701	3.493	11.7	22.0

512325 2016 LJ 4 1.6 261°.46 6°.7/24.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.34	+14 16.7	2.243	3.116	10.2	22.4
3 12	13 0.69	+15 43.9	2.167	3.092	8.0	22.2
3 22	12 53.35	+17 6.5	2.117	3.067	6.8	22.1
4 1	12 44.97	+18 16.7	2.096	3.042	7.3	22.1
4 11	12 36.40	+19 7.9	2.102	3.016	9.4	22.1
4 21	12 28.49	+19 36.2	2.133	2.989	12.0	22.2
5 1	12 21.99	+19 40.2	2.186	2.962	14.5	22.4
5 11	12 17.45	+19 21.3	2.257	2.934	16.7	22.5

499304 2009 WH_{33} 4 1.6 192°.14 5°.9/26.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.91	+11 41.1	2.068	2.944	10.8	21.7
3 12	13 1.69	+12 40.3	2.011	2.943	8.1	21.5
3 22	12 53.80	+13 34.3	1.980	2.942	6.2	21.4
4 1	12 44.99	+14 16.3	1.977	2.941	6.3	21.4
4 11	12 36.20	+14 40.8	2.001	2.939	8.4	21.5
4 21	12 28.30	+14 45.2	2.051	2.936	11.1	21.7
5 1	12 22.00	+14 29.0	2.124	2.934	13.8	21.9
5 11	12 17.76	+13 53.8	2.215	2.931	16.1	22.0

311272 2005 EP_{204} 4 1.6 72°.25 1°.0/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.23	− 9 13.0	1.431	2.296	15.4	20.6
3 12	13 3.01	− 8 48.8	1.382	2.315	11.0	20.4
3 22	12 54.59	− 8 8.8	1.356	2.335	6.1	20.2
4 1	12 45.04	− 7 18.4	1.356	2.354	1.2	19.9
4 11	12 35.65	− 6 25.0	1.382	2.374	4.6	20.2
4 21	12 27.61	− 5 36.1	1.434	2.393	9.3	20.5
5 1	12 21.78	− 4 58.3	1.510	2.413	13.5	20.8
5 11	12 18.62	− 4 35.3	1.606	2.432	16.9	21.1

129548 1996 TC_{7} 4 1.6 277°.35 0°.2/ 1.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.62	− 6 21.6	1.576	2.444	14.0	20.7
3 12	13 2.94	− 5 52.7	1.483	2.420	10.1	20.4
3 22	12 54.82	− 5 10.0	1.414	2.395	5.4	20.1
4 1	12 45.07	− 4 17.9	1.371	2.370	0.3	19.6
4 11	12 34.87	− 3 23.4	1.355	2.345	5.1	19.9
4 21	12 25.50	− 2 34.2	1.366	2.319	10.2	20.2
5 1	12 18.08	− 1 57.1	1.400	2.293	14.9	20.4
5 11	12 13.38	− 1 36.9	1.453	2.267	18.9	20.6

470131 2006 UW_{31} 4 1.6 203°.99 0°.2/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.40	− 7 49.0	2.524	3.377	9.9	22.1
3 12	12 58.37	− 7 14.6	2.445	3.374	7.1	21.9
3 22	12 52.01	− 6 30.8	2.393	3.371	3.8	21.7
4 1	12 44.89	− 5 40.9	2.369	3.368	0.4	21.4
4 11	12 37.71	− 4 49.5	2.375	3.365	3.2	21.6
4 21	12 31.15	− 4 1.3	2.410	3.361	6.5	21.8
5 1	12 25.79	− 3 20.3	2.472	3.358	9.6	22.0
5 11	12 22.04	− 2 49.7	2.556	3.354	12.1	22.2

24002 1999 RR_{35} 4 1.6 333°.06 0°.4/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.47	− 5 14.2	1.826	2.693	12.4	18.1
3 12	13 0.90	− 4 50.4	1.756	2.692	8.7	17.9
3 22	12 53.48	− 4 17.1	1.710	2.691	4.6	17.6
4 1	12 44.98	− 3 38.5	1.691	2.690	0.4	17.3
4 11	12 36.42	− 3 0.3	1.700	2.689	4.4	17.6
4 21	12 28.74	− 2 28.1	1.737	2.688	8.6	17.8
5 1	12 22.77	− 2 6.2	1.798	2.688	12.3	18.1
5 11	12 19.02	− 1 57.5	1.879	2.687	15.5	18.3

432029 2008 WC_{41} 4 1.6 107.°07 1.°1/31.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 5.17	− 3 47.4	2.106	2.973	11.0	22.0
3 12	12 59.71	− 3 5.4	2.046	2.983	7.6	21.8
3 22	12 52.72	− 2 15.9	2.011	2.993	3.9	21.6
4 1	12 44.93	− 1 23.8	2.005	3.003	1.1	21.4
4 11	12 37.18	− 0 34.8	2.027	3.012	4.3	21.6
4 21	12 30.25	+ 0 6.4	2.078	3.022	7.9	21.8
5 1	12 24.80	+ 0 35.8	2.153	3.031	11.1	22.1
5 11	12 21.24	+ 0 51.4	2.251	3.040	13.8	22.3

224354 2005 UM_{111} 4 1.6 161.°75 1.°2/31.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.93	− 2 53.3	2.080	2.944	11.2	20.9
3 12	13 1.70	− 2 22.5	2.013	2.949	7.8	20.7
3 22	12 53.82	− 1 44.9	1.971	2.953	4.0	20.5
4 1	12 45.01	− 1 5.2	1.959	2.957	1.2	20.3
4 11	12 36.20	− 0 28.5	1.975	2.960	4.4	20.5
4 21	12 28.24	+ 0 0.6	2.020	2.963	8.2	20.8
5 1	12 21.84	+ 0 18.6	2.090	2.965	11.5	21.0
5 11	12 17.45	+ 0 23.6	2.182	2.967	14.3	21.2

7188 Yoshii 4 1.6 152.°32 2.°0/31.0 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.02	− 1 59.4	1.608	2.480	13.5	17.7
3 12	13 4.19	− 1 12.4	1.548	2.488	9.4	17.5
3 22	12 55.24	− 0 17.6	1.513	2.496	4.9	17.2
4 1	12 45.11	+ 0 38.6	1.506	2.502	2.1	17.0
4 11	12 35.02	+ 1 28.5	1.526	2.509	5.8	17.3
4 21	12 26.10	+ 2 6.0	1.573	2.514	10.2	17.5
5 1	12 19.24	+ 2 27.1	1.644	2.519	14.1	17.8
5 11	12 14.95	+ 2 30.2	1.734	2.523	17.4	18.0

153569 2001 SR_{173} 4 1.6 276.°00 2.°9/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.33	− 0 18.4	1.393	2.277	14.5	19.8
3 12	13 3.52	+ 0 24.0	1.317	2.262	10.2	19.5
3 22	12 55.14	+ 1 14.5	1.264	2.248	5.5	19.2
4 1	12 45.11	+ 2 5.9	1.237	2.233	3.0	19.0
4 11	12 34.80	+ 2 49.4	1.237	2.218	7.0	19.2
4 21	12 25.57	+ 3 18.0	1.260	2.203	12.0	19.4
5 1	12 18.57	+ 3 26.9	1.306	2.188	16.5	19.7
5 11	12 14.50	+ 3 14.6	1.369	2.173	20.4	19.9

113333 Tyler 4 1.6 103.°15 3.°2/28.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.22	+ 2 8.7	2.231	3.110	10.0	19.2
3 12	12 58.26	+ 3 28.6	2.180	3.122	6.9	19.0
3 22	12 51.93	+ 4 51.3	2.156	3.135	4.0	18.8
4 1	12 44.90	+ 6 10.2	2.161	3.148	3.4	18.8
4 11	12 37.94	+ 7 19.0	2.194	3.160	5.8	19.0
4 21	12 31.74	+ 8 13.1	2.256	3.172	8.8	19.2
5 1	12 26.89	+ 8 49.6	2.341	3.184	11.6	19.4
5 11	12 23.77	+ 9 7.8	2.447	3.196	13.9	19.6

495992 2007 US_{98} 4 1.6 199.°08 0.°5/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.47	− 8 57.5	2.028	2.877	12.1	22.8
3 12	13 2.22	− 8 20.8	1.947	2.873	8.7	22.5
3 22	12 54.17	− 7 31.1	1.892	2.869	4.8	22.3
4 1	12 45.05	− 6 32.3	1.865	2.864	0.7	22.0
4 11	12 35.81	− 5 30.3	1.868	2.858	3.8	22.2
4 21	12 27.39	− 4 31.5	1.899	2.851	7.9	22.4
5 1	12 20.57	− 3 41.6	1.956	2.843	11.6	22.6
5 11	12 15.89	− 3 4.7	2.035	2.834	14.8	22.8

255631 2006 QN_{1} 4 1.6 185.°79 3.°0/29.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.22	+ 1 52.8	1.921	2.794	11.6	21.2
3 12	13 2.73	+ 2 38.5	1.854	2.794	8.1	20.9
3 22	12 54.42	+ 3 27.7	1.813	2.794	4.5	20.7
4 1	12 45.07	+ 4 14.2	1.801	2.793	3.1	20.6
4 11	12 35.68	+ 4 52.0	1.817	2.791	6.0	20.8
4 21	12 27.22	+ 5 16.4	1.861	2.789	9.7	21.0
5 1	12 20.47	+ 5 24.9	1.929	2.786	13.1	21.2
5 11	12 15.92	+ 5 16.6	2.017	2.783	16.0	21.4

275011 2009 US_{4} 4 1.6 81.°08 1.°1/ 2.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.82	− 9 8.4	1.779	2.635	13.3	21.1
3 12	13 1.82	− 8 56.3	1.717	2.646	9.5	20.9
3 22	12 53.95	− 8 31.3	1.679	2.656	5.3	20.7
4 1	12 45.04	− 7 57.0	1.668	2.667	1.3	20.4
4 11	12 36.15	− 7 18.9	1.686	2.677	3.9	20.6
4 21	12 28.26	− 6 42.5	1.730	2.687	8.1	20.9
5 1	12 22.19	− 6 13.2	1.799	2.698	11.9	21.2
5 11	12 18.41	− 5 54.9	1.889	2.708	15.0	21.4

215464 2002 QQ_{79} 4 1.6 314.°37 7.°5/ 6.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.31	−21 48.2	1.406	2.227	18.0	19.8
3 12	13 2.38	−22 29.9	1.320	2.212	14.7	19.6
3 22	12 54.68	−22 45.5	1.255	2.198	11.1	19.3
4 1	12 45.10	−22 32.5	1.211	2.184	8.1	19.1
4 11	12 35.03	−21 52.7	1.192	2.170	7.8	19.0
4 21	12 25.96	−20 53.0	1.197	2.157	10.6	19.1
5 1	12 19.20	−19 43.7	1.224	2.144	14.6	19.3
5 11	12 15.59	−18 36.1	1.270	2.132	18.4	19.5

232297 2002 RL_{233} 4 1.6 211.°23 0.°0/ 1.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 4.57	− 7 11.3	2.242	3.099	10.8	21.2
3 12	12 59.34	− 6 35.4	2.164	3.095	7.7	21.0
3 22	12 52.59	− 5 49.4	2.112	3.092	4.1	20.7
4 1	12 44.96	− 4 57.1	2.089	3.088	0.3	20.4
4 11	12 37.26	− 4 3.8	2.095	3.084	3.6	20.7
4 21	12 30.27	− 3 14.6	2.129	3.080	7.3	20.9
5 1	12 24.63	− 2 34.1	2.189	3.076	10.6	21.1
5 11	12 20.82	− 2 5.7	2.272	3.071	13.4	21.3

283539 2001 TK_{240} 4 1.6 234.°71 1.°4/ 2.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.71	−10 2.6	1.705	2.556	14.0	21.6
3 12	13 4.21	− 9 50.1	1.619	2.544	10.2	21.3
3 22	12 55.41	− 9 22.5	1.556	2.531	5.9	21.0
4 1	12 45.14	− 8 42.6	1.520	2.517	1.7	20.7
4 11	12 34.57	− 7 56.0	1.512	2.503	4.4	20.9
4 21	12 24.90	− 7 9.3	1.531	2.488	9.0	21.1
5 1	12 17.15	− 6 29.3	1.575	2.472	13.4	21.3
5 11	12 12.01	− 6 1.3	1.640	2.456	17.1	21.5

497735 2006 SY_{192} 4 1.6 133.°46 0.°2/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.74	− 5 25.9	2.849	3.702	8.9	21.9
3 12	12 59.10	− 4 59.0	2.785	3.715	6.2	21.8
3 22	12 52.32	− 4 25.8	2.748	3.728	3.3	21.6
4 1	12 44.95	− 3 49.4	2.741	3.740	0.3	21.3
4 11	12 37.61	− 3 13.4	2.764	3.752	3.0	21.6
4 21	12 30.88	− 2 41.4	2.817	3.763	6.0	21.8
5 1	12 25.27	− 2 16.2	2.898	3.774	8.6	22.0
5 11	12 21.14	− 2 0.0	3.001	3.785	10.8	22.2

5759 Zoshchenko 4 1.6 250.°12 1.°1/31.5 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.20	− 3 17.3	2.059	2.928	11.1	17.6
3 12	12 59.86	− 2 42.4	1.986	2.925	7.8	17.4
3 22	12 52.89	− 2 0.0	1.940	2.922	4.0	17.1
4 1	12 44.98	− 1 14.8	1.921	2.919	1.1	16.9
4 11	12 37.01	− 0 32.2	1.931	2.916	4.4	17.1
4 21	12 29.82	+ 0 2.7	1.968	2.913	8.2	17.4
5 1	12 24.11	+ 0 26.1	2.031	2.910	11.6	17.6
5 11	12 20.36	+ 0 35.8	2.114	2.907	14.5	17.8

55235 2001 RD_{80} 4 1.6 129.°16 1.°9/ 3.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.74	−13 39.5	1.880	2.721	13.3	19.7
3 12	13 0.34	−12 57.9	1.811	2.729	9.8	19.5
3 22	12 53.16	−11 58.4	1.767	2.737	5.9	19.3
4 1	12 45.01	−10 45.3	1.750	2.745	2.3	19.1
4 11	12 36.86	− 9 25.2	1.761	2.752	3.8	19.2
4 21	12 29.64	− 8 5.8	1.800	2.759	7.7	19.4
5 1	12 24.10	− 6 54.3	1.865	2.766	11.4	19.7
5 11	12 20.71	− 5 56.1	1.951	2.773	14.5	19.9

172463 2003 SO_{6} 4 1.6 222.°94 0.°9/ 2.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.64	− 9 33.6	1.953	2.802	12.6	20.9
3 12	13 2.49	− 9 3.8	1.867	2.792	9.1	20.7
3 22	12 54.39	− 8 20.1	1.805	2.781	5.1	20.4
4 1	12 45.11	− 7 26.0	1.771	2.769	1.1	20.1
4 11	12 35.62	− 6 27.3	1.766	2.756	3.9	20.3
4 21	12 26.92	− 5 30.3	1.789	2.743	8.2	20.5
5 1	12 19.88	− 4 41.3	1.838	2.729	12.1	20.7
5 11	12 15.07	− 4 4.9	1.909	2.714	15.4	20.9

14338 Shibakoukan 4 1.6 286.°35 5.°7/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.16	+11 19.4	2.046	2.924	10.8	17.2
3 12	13 1.23	+12 7.5	1.985	2.918	8.1	17.0
3 22	12 53.61	+12 50.5	1.949	2.913	6.1	16.8
4 1	12 45.05	+13 22.0	1.941	2.908	6.1	16.8
4 11	12 36.48	+13 36.9	1.960	2.903	8.2	16.9
4 21	12 28.77	+13 32.6	2.004	2.897	11.0	17.1
5 1	12 22.64	+13 8.7	2.072	2.892	13.7	17.3
5 11	12 18.57	+12 26.6	2.158	2.887	16.1	17.4

498203 2007 TJ_{382} 4 1.6 156.°37 1.°2/31.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.23	− 3 36.9	2.370	3.237	10.0	22.0
3 12	12 58.28	− 2 40.8	2.302	3.240	6.9	21.8
3 22	12 51.99	− 1 37.4	2.261	3.243	3.5	21.6
4 1	12 44.95	− 0 31.6	2.249	3.246	1.3	21.4
4 11	12 37.91	+ 0 31.0	2.266	3.249	4.1	21.6
4 21	12 31.55	+ 1 25.4	2.312	3.252	7.4	21.8
5 1	12 26.45	+ 2 7.7	2.383	3.254	10.4	22.0
5 11	12 23.03	+ 2 35.8	2.477	3.256	13.0	22.2

36979 2000 SP_{327} 4 1.7 159.°99 1.°4/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.27	−11 27.0	2.733	3.569	9.8	19.1
3 12	12 58.90	−11 10.3	2.657	3.573	7.2	18.9
3 22	12 52.29	−10 43.2	2.606	3.577	4.2	18.7
4 1	12 44.98	−10 8.1	2.585	3.580	1.6	18.5
4 11	12 37.63	− 9 28.5	2.593	3.584	2.8	18.6
4 21	12 30.89	− 8 48.4	2.631	3.587	5.8	18.8
5 1	12 25.29	− 8 11.7	2.696	3.589	8.6	19.0
5 11	12 21.23	− 7 41.8	2.785	3.592	11.0	19.2

136929 1998 MA_{16} 4 1.7 215°.23 1°.5/ 3.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.50	−11 51.0	2.038	2.879	12.4	20.9
3 12	13 1.60	−11 18.4	1.952	2.871	9.1	20.7
3 22	12 53.89	−10 30.4	1.890	2.863	5.3	20.4
4 1	12 45.08	− 9 30.1	1.857	2.854	1.8	20.1
4 11	12 36.11	− 8 23.3	1.852	2.844	3.7	20.3
4 21	12 27.91	− 7 16.4	1.877	2.833	7.7	20.5
5 1	12 21.28	− 6 16.2	1.927	2.822	11.4	20.7
5 11	12 16.78	− 5 27.5	1.999	2.810	14.6	20.9

243569 1995 XN_{4} 4 1.7 80°.08 2°.3/ 4.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.75	−14 43.1	1.868	2.707	13.5	20.1
3 12	12 59.62	−14 3.9	1.806	2.721	10.0	19.9
3 22	12 52.77	−13 6.4	1.767	2.735	6.1	19.7
4 1	12 45.00	−11 54.7	1.755	2.749	2.7	19.5
4 11	12 37.30	−10 35.4	1.772	2.763	3.8	19.6
4 21	12 30.54	− 9 16.2	1.816	2.777	7.5	19.9
5 1	12 25.45	− 8 4.2	1.886	2.791	11.1	20.1
5 11	12 22.47	− 7 4.8	1.978	2.805	14.1	20.3

26917 Pianoro 4 1.7 107°.53 2°.4/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.28	− 1 47.9	2.262	3.135	10.1	18.1
3 12	12 57.63	− 0 5.3	2.203	3.145	6.9	17.9
3 22	12 51.64	+ 1 44.3	2.173	3.155	3.7	17.7
4 1	12 44.94	+ 3 33.5	2.172	3.164	2.6	17.7
4 11	12 38.27	+ 5 14.8	2.202	3.174	5.3	17.9
4 21	12 32.33	+ 6 41.9	2.260	3.183	8.5	18.1
5 1	12 27.69	+ 7 50.5	2.343	3.193	11.4	18.3
5 11	12 24.74	+ 8 39.1	2.448	3.202	13.8	18.5

164781 1999 DA_{4} 4 1.7 30°.54 1°.0/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.12	− 4 31.4	1.521	2.402	13.7	19.6
3 12	12 59.35	− 3 52.3	1.474	2.418	9.5	19.4
3 22	12 52.67	− 3 3.2	1.451	2.434	4.9	19.2
4 1	12 45.00	− 2 10.4	1.453	2.452	1.0	18.9
4 11	12 37.47	− 1 21.3	1.482	2.470	5.0	19.2
4 21	12 31.06	− 0 42.2	1.536	2.489	9.4	19.5
5 1	12 26.54	− 0 17.5	1.614	2.509	13.2	19.8
5 11	12 24.35	− 0 9.4	1.711	2.529	16.4	20.1

282224 2001 YK_{155} 4 1.7 165°.77 6°.5/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.82	−32 53.8	3.149	3.847	11.6	21.5
3 12	13 0.76	−33 15.6	3.061	3.852	10.0	21.4
3 22	12 53.32	−33 18.5	2.995	3.857	8.4	21.3
4 1	12 45.06	−33 1.7	2.953	3.861	7.1	21.2
4 11	12 36.70	−32 26.2	2.939	3.865	6.5	21.2
4 21	12 28.94	−31 35.4	2.952	3.868	7.0	21.2
5 1	12 22.39	−30 34.0	2.992	3.871	8.3	21.3
5 11	12 17.49	−29 27.7	3.057	3.873	9.9	21.4

425032 2009 HQ_{24} 4 1.7 193°.91 6°.4/25.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.19	+16 19.4	2.446	3.314	9.6	20.8
3 12	13 0.31	+17 11.4	2.394	3.314	7.6	20.6
3 22	12 53.05	+17 55.2	2.368	3.313	6.4	20.6
4 1	12 45.04	+18 25.2	2.369	3.312	6.8	20.6
4 11	12 37.08	+18 37.5	2.398	3.312	8.4	20.7
4 21	12 29.89	+18 30.4	2.453	3.311	10.5	20.8
5 1	12 24.05	+18 4.2	2.530	3.310	12.6	21.0
5 11	12 19.98	+17 20.7	2.625	3.309	14.5	21.1

267323 2001 UX_{35} 4 1.7 117°.70 5°.6/26.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.77	+11 39.3	2.178	3.049	10.5	21.0
3 12	13 2.78	+12 39.3	2.141	3.071	7.8	20.8
3 22	12 54.30	+13 33.1	2.130	3.091	5.9	20.8
4 1	12 45.12	+14 14.6	2.148	3.111	5.9	20.8
4 11	12 36.14	+14 39.2	2.195	3.130	7.9	20.9
4 21	12 28.14	+14 44.7	2.267	3.149	10.4	21.1
5 1	12 21.76	+14 31.4	2.364	3.167	12.8	21.3
5 11	12 17.35	+14 1.0	2.479	3.184	14.8	21.5

422074 2014 QQ_{381} 4 1.7 137°.21 0°.5/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.94	− 6 14.6	1.936	2.796	12.2	22.2
3 12	13 1.77	− 5 24.2	1.875	2.808	8.5	22.0
3 22	12 53.89	− 4 23.2	1.840	2.821	4.4	21.8
4 1	12 45.10	− 3 16.9	1.833	2.832	0.5	21.5
4 11	12 36.38	− 2 12.2	1.856	2.843	4.3	21.8
4 21	12 28.60	− 1 15.1	1.906	2.853	8.3	22.1
5 1	12 22.50	− 0 30.6	1.982	2.863	11.8	22.3
5 11	12 18.52	− 0 1.4	2.079	2.872	14.7	22.5

496985 2002 RJ_{146} 4 1.7 247°.86 0°.4/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.25	− 8 5.0	1.891	2.747	12.6	22.2
3 12	13 2.32	− 7 38.0	1.801	2.731	9.1	22.0
3 22	12 54.37	− 6 58.1	1.736	2.714	5.0	21.7
4 1	12 45.15	− 6 8.9	1.698	2.697	0.7	21.3
4 11	12 35.66	− 5 16.2	1.689	2.679	4.1	21.6
4 21	12 26.94	− 4 26.3	1.708	2.661	8.5	21.8
5 1	12 19.89	− 3 45.2	1.751	2.642	12.6	22.0
5 11	12 15.12	− 3 17.1	1.816	2.623	16.0	22.2

106967 2000 YK_{85} 4 1.7 59°.30 2°.0/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.05	− 3 2.0	1.369	2.253	14.7	19.6
3 12	13 1.63	− 2 6.6	1.318	2.263	10.2	19.3
3 22	12 53.98	− 1 0.9	1.289	2.273	5.3	19.1
4 1	12 45.11	+ 0 6.9	1.286	2.284	2.1	18.9
4 11	12 36.34	+ 1 7.9	1.310	2.294	6.1	19.2
4 21	12 28.84	+ 1 54.5	1.358	2.305	10.9	19.5
5 1	12 23.52	+ 2 21.9	1.428	2.316	15.0	19.7
5 11	12 20.86	+ 2 28.7	1.517	2.327	18.5	20.0

505283 2012 VH_{72} 4 1.7 131°.84 4°.6/ 7.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.26	−23 51.4	2.442	3.224	12.5	21.6
3 12	12 58.40	−23 26.7	2.360	3.229	10.0	21.5
3 22	12 52.10	−22 41.5	2.302	3.234	7.4	21.3
4 1	12 45.00	−21 37.3	2.270	3.239	5.2	21.2
4 11	12 37.88	−20 18.2	2.267	3.243	4.7	21.1
4 21	12 31.47	−18 50.2	2.291	3.248	6.5	21.3
5 1	12 26.40	−17 20.2	2.344	3.252	9.1	21.4
5 11	12 23.10	−15 55.0	2.421	3.256	11.6	21.6

166207 2002 EW_{126} 4 1.7 328°.64 2°.2/ 3.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.76	−13 16.0	1.351	2.212	16.3	19.7
3 12	13 0.31	−12 38.7	1.278	2.207	12.1	19.4
3 22	12 53.44	−11 37.5	1.227	2.202	7.2	19.1
4 1	12 45.09	−10 17.1	1.200	2.197	2.6	18.8
4 11	12 36.58	− 8 46.5	1.200	2.193	4.7	18.9
4 21	12 29.18	− 7 16.4	1.224	2.189	9.8	19.2
5 1	12 23.97	− 5 57.4	1.270	2.185	14.6	19.4
5 11	12 21.57	− 4 56.7	1.336	2.182	18.6	19.7

221280 2005 UZ_{348} 4 1.7 156°.34 0°.5/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.39	−10 13.5	2.369	3.212	10.8	21.2
3 12	12 59.80	− 9 14.4	2.298	3.221	7.7	21.0
3 22	12 52.80	− 8 2.8	2.253	3.229	4.2	20.8
4 1	12 45.05	− 6 43.1	2.238	3.237	0.7	20.5
4 11	12 37.31	− 5 21.4	2.253	3.243	3.3	20.7
4 21	12 30.31	− 4 3.6	2.298	3.249	6.8	21.0
5 1	12 24.65	− 2 55.3	2.370	3.255	10.0	21.2
5 11	12 20.74	− 2 0.2	2.465	3.259	12.6	21.4

496574 2015 AZ_{161} 4 1.7 186°.65 1°.4/31.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.55	− 2 42.0	2.225	3.090	10.6	22.5
3 12	13 0.72	− 1 53.4	2.153	3.090	7.4	22.2
3 22	12 53.34	− 0 57.8	2.107	3.089	3.8	22.0
4 1	12 45.09	− 0 0.1	2.090	3.088	1.5	21.8
4 11	12 36.80	+ 0 53.9	2.103	3.086	4.5	22.1
4 21	12 29.25	+ 1 39.3	2.145	3.083	8.0	22.3
5 1	12 23.12	+ 2 12.2	2.212	3.080	11.2	22.5
5 11	12 18.86	+ 2 30.6	2.300	3.076	14.0	22.6

339506 2005 GP_{83} 4 1.7 9°.33 0°.8/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.12	− 7 27.2	1.711	2.574	13.3	20.6
3 12	13 1.50	− 7 30.8	1.643	2.576	9.5	20.4
3 22	12 53.89	− 7 23.5	1.599	2.577	5.3	20.1
4 1	12 45.13	− 7 8.3	1.581	2.580	1.1	19.8
4 11	12 36.29	− 6 49.7	1.591	2.583	4.1	20.0
4 21	12 28.43	− 6 32.7	1.627	2.586	8.4	20.3
5 1	12 22.38	− 6 21.8	1.688	2.590	12.3	20.5
5 11	12 18.70	− 6 20.8	1.770	2.594	15.6	20.8

399078 2014 DS_{12} 4 1.7 279°.37 4°.3/27.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.41	+ 7 36.4	2.294	3.171	9.8	20.3
3 12	12 59.95	+ 8 21.4	2.219	3.157	7.1	20.1
3 22	12 52.96	+ 9 5.0	2.170	3.143	4.8	20.0
4 1	12 45.07	+ 9 41.9	2.150	3.129	4.5	19.9
4 11	12 37.09	+10 7.1	2.159	3.115	6.7	20.0
4 21	12 29.78	+10 17.3	2.194	3.100	9.5	20.2
5 1	12 23.83	+10 10.8	2.253	3.086	12.3	20.3
5 11	12 19.69	+ 9 47.8	2.332	3.072	14.8	20.5

498401 2007 YU_{35} 4 1.7 150°.79 0°.7/31.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.31	− 4 13.5	2.709	3.567	9.2	22.2
3 12	12 58.90	− 3 38.5	2.641	3.574	6.4	22.1
3 22	12 52.29	− 2 57.4	2.600	3.581	3.3	21.9
4 1	12 45.03	− 2 13.8	2.589	3.588	0.7	21.7
4 11	12 37.77	− 1 31.7	2.609	3.594	3.4	21.9
4 21	12 31.13	− 0 55.0	2.657	3.600	6.4	22.1
5 1	12 25.65	− 0 26.8	2.732	3.606	9.2	22.3
5 11	12 21.68	− 0 9.1	2.830	3.611	11.5	22.5

204222 2004 CF_{88} 4 1.7 189°.23 4°.7/26.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.82	+ 9 54.7	2.543	3.418	9.1	20.6
3 12	12 59.34	+10 59.1	2.483	3.417	6.7	20.4
3 22	12 52.56	+12 0.7	2.451	3.416	4.9	20.3
4 1	12 45.05	+12 53.7	2.447	3.414	5.0	20.3
4 11	12 37.53	+13 33.5	2.472	3.412	6.9	20.4
4 21	12 30.68	+13 56.9	2.524	3.409	9.3	20.6
5 1	12 25.07	+14 2.8	2.600	3.406	11.7	20.7
5 11	12 21.10	+13 51.7	2.696	3.403	13.7	20.9

148623 2001 RG_{127} 4 1.7 210°.13 1°.2/31.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.25	− 2 58.3	1.977	2.843	11.7	20.9
3 12	13 2.11	− 2 26.9	1.902	2.839	8.2	20.6
3 22	12 54.16	− 1 48.0	1.852	2.834	4.3	20.4
4 1	12 45.15	− 1 6.3	1.831	2.829	1.2	20.1
4 11	12 36.05	− 0 27.4	1.838	2.823	4.7	20.4
4 21	12 27.77	+ 0 3.6	1.873	2.817	8.6	20.6
5 1	12 21.11	+ 0 22.9	1.933	2.810	12.2	20.8
5 11	12 16.59	+ 0 28.2	2.015	2.803	15.3	21.0

268416 2005 UO_{363} 4 1.7 165°.37 0°.7/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.35	− 5 21.8	2.118	2.979	11.2	22.2
3 12	13 0.62	− 4 36.1	2.049	2.984	7.8	22.0
3 22	12 53.30	− 3 41.1	2.006	2.987	4.1	21.8
4 1	12 45.10	− 2 41.6	1.992	2.991	0.7	21.5
4 11	12 36.88	− 1 43.5	2.007	2.993	4.1	21.8
4 21	12 29.46	− 0 52.4	2.050	2.996	7.9	22.0
5 1	12 23.54	− 0 12.7	2.119	2.998	11.2	22.2
5 11	12 19.55	+ 0 12.9	2.209	2.999	14.1	22.4

287777 2003 SO_{91} 4 1.7 149°.92 0°.9/ 2.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.98	− 8 44.3	2.043	2.895	11.9	20.7
3 12	13 1.16	− 8 32.5	1.970	2.897	8.6	20.5
3 22	12 53.63	− 8 9.5	1.922	2.899	4.8	20.2
4 1	12 45.12	− 7 38.4	1.902	2.901	1.1	20.0
4 11	12 36.55	− 7 3.9	1.911	2.902	3.6	20.2
4 21	12 28.80	− 6 30.7	1.948	2.904	7.5	20.4
5 1	12 22.61	− 6 3.7	2.011	2.905	11.0	20.6
5 11	12 18.47	− 5 46.3	2.095	2.907	14.0	20.8

171933 2001 SN_{201} 4 1.7 76°.70 1°.5/30.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.77	− 3 35.0	2.114	2.985	10.8	19.9
3 12	12 58.06	− 2 25.9	2.056	2.997	7.4	19.7
3 22	12 51.91	− 1 8.9	2.025	3.008	3.8	19.5
4 1	12 45.01	+ 0 10.0	2.023	3.020	1.6	19.3
4 11	12 38.16	+ 1 23.9	2.050	3.032	4.6	19.6
4 21	12 32.10	+ 2 27.2	2.104	3.043	8.1	19.8
5 1	12 27.43	+ 3 15.6	2.183	3.055	11.2	20.0
5 11	12 24.56	+ 3 47.3	2.284	3.067	13.9	20.2

502611 2015 CF_{19} 4 1.7 34°.92 3°.1/ 4.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.15	−14 47.2	1.822	2.660	13.8	20.6
3 12	13 0.79	−14 43.1	1.749	2.662	10.4	20.4
3 22	12 53.51	−14 21.5	1.700	2.665	6.7	20.2
4 1	12 45.12	−13 44.4	1.676	2.667	3.4	20.0
4 11	12 36.64	−12 56.7	1.680	2.670	4.2	20.0
4 21	12 29.07	−12 4.7	1.711	2.673	7.8	20.3
5 1	12 23.24	−11 15.2	1.767	2.676	11.5	20.5
5 11	12 19.68	−10 34.0	1.844	2.679	14.7	20.7

463956 2014 VC_{9} 4 1.7 222°.28 1°.7/30.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.33	− 2 20.5	2.001	2.867	11.5	22.1
3 12	13 2.20	− 1 30.5	1.919	2.857	8.1	21.9
3 22	12 54.24	− 0 32.3	1.864	2.846	4.2	21.6
4 1	12 45.17	+ 0 28.4	1.837	2.834	1.8	21.4
4 11	12 35.94	+ 1 25.2	1.839	2.821	5.1	21.6
4 21	12 27.48	+ 2 12.3	1.869	2.807	9.0	21.8
5 1	12 20.62	+ 2 45.2	1.925	2.793	12.7	22.0
5 11	12 15.89	+ 3 1.6	2.001	2.778	15.7	22.2

151202 2001 YB_{23} 4 1.7 247°.61 1°.0/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.09	− 3 53.0	1.817	2.687	12.4	20.3
3 12	13 1.43	− 3 20.3	1.743	2.681	8.7	20.0
3 22	12 53.86	− 2 38.6	1.693	2.675	4.5	19.8
4 1	12 45.15	− 1 52.8	1.670	2.669	1.0	19.5
4 11	12 36.32	− 1 9.1	1.676	2.663	4.8	19.8
4 21	12 28.36	− 0 33.2	1.709	2.657	9.0	20.0
5 1	12 22.12	− 0 9.7	1.766	2.650	12.8	20.2
5 11	12 18.13	− 0 1.1	1.843	2.644	16.0	20.4

381498 2008 SU_{116} 4 1.7 177°.01 0°.6/ 2.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.96	− 9 22.0	2.175	3.026	11.4	21.7
3 12	12 59.66	− 8 44.5	2.100	3.027	8.2	21.5
3 22	12 52.81	− 7 54.7	2.051	3.028	4.5	21.3
4 1	12 45.08	− 6 56.7	2.030	3.028	0.8	21.0
4 11	12 37.31	− 5 55.9	2.038	3.029	3.5	21.2
4 21	12 30.27	− 4 58.0	2.074	3.029	7.2	21.4
5 1	12 24.67	− 4 8.2	2.137	3.028	10.6	21.6
5 11	12 20.94	− 3 30.4	2.222	3.028	13.5	21.8

322889 2001 XY_{109} 4 1.7 192°.82 5°.7/26.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.49	+12 17.7	2.297	3.167	10.1	22.0
3 12	13 2.03	+13 21.2	2.237	3.166	7.6	21.8
3 22	12 54.02	+14 19.7	2.205	3.163	5.9	21.7
4 1	12 45.16	+15 6.7	2.201	3.160	6.1	21.7
4 11	12 36.30	+15 37.0	2.225	3.156	8.0	21.8
4 21	12 28.23	+15 48.0	2.275	3.151	10.6	21.9
5 1	12 21.63	+15 39.0	2.349	3.146	13.0	22.1
5 11	12 16.94	+15 11.6	2.442	3.140	15.2	22.3

469761 2005 QJ_{42} 4 1.7 237°.46 3°.2/ 5.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 6.18	−17 29.0	2.866	3.669	10.3	22.0
3 12	13 0.38	−17 35.9	2.766	3.656	8.0	21.8
3 22	12 53.18	−17 29.9	2.691	3.641	5.5	21.6
4 1	12 45.11	−17 11.8	2.645	3.627	3.5	21.4
4 11	12 36.87	−16 43.7	2.628	3.611	3.6	21.4
4 21	12 29.11	−16 9.1	2.641	3.596	5.9	21.6
5 1	12 22.48	−15 32.2	2.682	3.580	8.5	21.7
5 11	12 17.42	−14 57.4	2.747	3.563	10.9	21.8

457598 2009 BP_{31} 4 1.7 124°.76 0°.3/ 1.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.20	− 7 33.3	1.519	2.384	14.6	22.2
3 12	13 3.11	− 7 5.4	1.456	2.390	10.4	22.0
3 22	12 54.79	− 6 23.6	1.416	2.396	5.6	21.7
4 1	12 45.21	− 5 32.8	1.402	2.401	0.5	21.3
4 11	12 35.61	− 4 40.4	1.416	2.407	4.7	21.7
4 21	12 27.17	− 3 53.6	1.456	2.412	9.5	22.0
5 1	12 20.83	− 3 18.5	1.519	2.416	13.7	22.2
5 11	12 17.13	− 2 58.9	1.602	2.421	17.3	22.5

417289 2006 BK_{8} 4 1.7 47°.03 3°.4/29.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.81	+ 1 16.5	1.630	2.516	12.6	20.8
3 12	12 59.80	+ 2 23.7	1.579	2.525	8.7	20.6
3 22	12 52.94	+ 3 35.4	1.553	2.535	4.9	20.4
4 1	12 45.09	+ 4 43.7	1.554	2.545	3.6	20.3
4 11	12 37.32	+ 5 40.6	1.581	2.555	6.7	20.5
4 21	12 30.60	+ 6 20.5	1.634	2.566	10.6	20.8
5 1	12 25.69	+ 6 40.3	1.710	2.577	14.1	21.0
5 11	12 23.03	+ 6 39.6	1.805	2.588	17.0	21.2

368260 2001 XG_{262} 4 1.7 153°.84 0°.3/ 2.0 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.64	− 8 26.4	2.178	3.028	11.4	22.3
3 12	13 0.79	− 7 46.5	2.109	3.036	8.1	22.1
3 22	12 53.38	− 6 55.3	2.065	3.043	4.4	21.9
4 1	12 45.13	− 5 57.0	2.051	3.050	0.5	21.6
4 11	12 36.87	− 4 57.2	2.066	3.056	3.6	21.8
4 21	12 29.42	− 4 1.4	2.110	3.062	7.3	22.1
5 1	12 23.44	− 3 14.5	2.180	3.067	10.6	22.3
5 11	12 19.37	− 2 40.1	2.273	3.071	13.4	22.5

376317 2011 GC_{34} 4 1.7 60°.05 0°.7/ 2.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.59	− 7 11.8	1.667	2.528	13.7	20.8
3 12	13 3.13	− 7 11.3	1.612	2.544	9.8	20.6
3 22	12 54.69	− 6 59.8	1.582	2.561	5.3	20.4
4 1	12 45.21	− 6 40.8	1.578	2.577	0.9	20.1
4 11	12 35.82	− 6 19.2	1.603	2.594	4.2	20.4
4 21	12 27.56	− 6 0.1	1.654	2.611	8.5	20.7
5 1	12 21.27	− 5 48.0	1.730	2.628	12.3	20.9
5 11	12 17.41	− 5 46.0	1.826	2.644	15.5	21.2

309848 2009 DT_{3} 4 1.7 37°.24 6°.2/27.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.03	+ 5 19.9	1.291	2.189	14.3	19.6
3 12	13 0.34	+ 7 6.9	1.246	2.195	10.2	19.3
3 22	12 53.35	+ 8 55.3	1.224	2.201	6.8	19.2
4 1	12 45.13	+10 32.5	1.227	2.207	6.8	19.2
4 11	12 36.98	+11 47.4	1.255	2.214	10.0	19.4
4 21	12 30.12	+12 33.2	1.306	2.221	14.0	19.6
5 1	12 25.45	+12 48.1	1.377	2.228	17.7	19.9
5 11	12 23.47	+12 34.3	1.463	2.236	20.7	20.1

415674 2014 RB_{19} 4 1.7 152°.43 0°.0/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.83	− 7 10.0	1.863	2.721	12.7	21.7
3 12	13 2.53	− 6 37.3	1.797	2.728	9.0	21.5
3 22	12 54.38	− 5 53.0	1.755	2.735	4.8	21.2
4 1	12 45.20	− 5 1.8	1.742	2.741	0.3	20.9
4 11	12 36.01	− 4 9.8	1.757	2.747	4.1	21.2
4 21	12 27.78	− 3 23.0	1.800	2.752	8.3	21.5
5 1	12 21.31	− 2 46.4	1.868	2.756	12.1	21.7
5 11	12 17.07	− 2 23.5	1.958	2.760	15.2	21.9

460173 2014 QP_{30} 4 1.7 91°.01 8°.3/24.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.80	+14 8.1	1.622	2.506	12.8	20.7
3 12	13 1.83	+15 55.4	1.593	2.524	10.0	20.6
3 22	12 53.96	+17 32.2	1.589	2.542	8.3	20.5
4 1	12 45.17	+18 48.4	1.611	2.559	8.9	20.6
4 11	12 36.60	+19 37.0	1.658	2.577	11.1	20.7
4 21	12 29.25	+19 55.8	1.729	2.594	13.9	21.0
5 1	12 23.88	+19 45.8	1.819	2.610	16.5	21.2
5 11	12 20.88	+19 11.0	1.926	2.627	18.6	21.4

283035 2007 XJ_{46} 4 1.7 120°.76 4°.3/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.27	+ 7 55.5	2.407	3.285	9.4	20.6
3 12	12 58.96	+ 9 1.4	2.358	3.295	6.8	20.5
3 22	12 52.36	+10 5.3	2.336	3.306	4.7	20.3
4 1	12 45.07	+11 1.4	2.342	3.316	4.6	20.4
4 11	12 37.85	+11 44.7	2.377	3.325	6.6	20.5
4 21	12 31.36	+12 12.0	2.439	3.335	9.2	20.7
5 1	12 26.16	+12 22.1	2.525	3.344	11.6	20.8
5 11	12 22.63	+12 15.2	2.631	3.353	13.6	21.0

313682 2003 SF_{300} 4 1.7 187°.88 2°.8/ 4.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.40	−15 13.4	1.907	2.737	13.6	21.8
3 12	13 2.34	−14 53.1	1.827	2.737	10.3	21.6
3 22	12 54.35	−14 14.3	1.771	2.736	6.5	21.3
4 1	12 45.21	−13 19.6	1.742	2.734	3.2	21.1
4 11	12 35.95	−12 14.3	1.742	2.732	4.1	21.2
4 21	12 27.58	−11 5.3	1.770	2.729	7.8	21.4
5 1	12 20.94	−10 0.2	1.823	2.726	11.5	21.6
5 11	12 16.59	− 9 5.0	1.899	2.722	14.8	21.8

276789 2004 LA_{26} 4 1.7 257°.21 1°.0/31.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.06	− 4 41.1	2.135	2.998	11.1	21.4
3 12	13 0.61	− 3 50.2	2.041	2.977	7.8	21.2
3 22	12 53.43	− 2 49.0	1.973	2.954	4.1	20.9
4 1	12 45.15	− 1 42.3	1.933	2.932	1.0	20.6
4 11	12 36.64	− 0 36.2	1.923	2.908	4.4	20.8
4 21	12 28.75	+ 0 23.0	1.941	2.884	8.4	21.0
5 1	12 22.28	+ 1 10.1	1.985	2.860	12.0	21.2
5 11	12 17.79	+ 1 41.7	2.050	2.835	15.1	21.4

111076 2001 VH_{52} 4 1.7 188°.17 1°.4/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.92	−10 41.2	1.890	2.739	12.9	19.9
3 12	13 1.27	−10 18.2	1.815	2.739	9.4	19.7
3 22	12 53.76	− 9 40.8	1.764	2.739	5.4	19.5
4 1	12 45.17	− 8 52.3	1.741	2.738	1.6	19.2
4 11	12 36.50	− 7 58.5	1.746	2.737	3.8	19.4
4 21	12 28.69	− 7 5.7	1.778	2.736	7.9	19.6
5 1	12 22.56	− 6 19.7	1.836	2.734	11.7	19.8
5 11	12 18.62	− 5 45.3	1.915	2.733	14.9	20.0

268422 2005 UM_{475} 4 1.7 43°.00 5°.9/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.40	−22 49.2	1.466	2.284	17.6	19.7
3 12	12 59.81	−22 30.4	1.410	2.302	14.0	19.6
3 22	12 53.04	−21 41.7	1.375	2.320	10.1	19.4
4 1	12 45.12	−20 25.7	1.362	2.339	6.7	19.2
4 11	12 37.30	−18 49.7	1.375	2.359	6.1	19.2
4 21	12 30.71	−17 4.6	1.414	2.379	8.8	19.4
5 1	12 26.24	−15 21.5	1.477	2.399	12.4	19.7
5 11	12 24.33	−13 50.0	1.561	2.419	15.7	19.9

292617 2006 US_{2} 4 1.7 48°.45 0°.4/ 1.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.06	− 4 14.1	2.113	2.976	11.2	20.1
3 12	13 1.13	− 4 6.4	2.046	2.980	7.8	19.9
3 22	12 53.60	− 3 51.9	2.004	2.985	4.1	19.7
4 1	12 45.16	− 3 33.9	1.990	2.989	0.4	19.4
4 11	12 36.71	− 3 16.6	2.006	2.994	3.9	19.7
4 21	12 29.07	− 3 3.7	2.049	2.999	7.6	19.9
5 1	12 22.93	− 2 58.4	2.119	3.004	10.9	20.1
5 11	12 18.77	− 3 2.9	2.209	3.010	13.7	20.3

123400 2000 WY_{80} 4 1.7 140°.48 0°.3/ 1.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.27	− 5 34.5	2.231	3.087	10.9	20.6
3 12	13 1.17	− 5 3.6	2.166	3.098	7.6	20.4
3 22	12 53.58	− 4 24.5	2.127	3.108	4.0	20.2
4 1	12 45.16	− 3 41.1	2.118	3.117	0.4	19.9
4 11	12 36.78	− 2 58.3	2.138	3.126	3.7	20.2
4 21	12 29.19	− 2 20.9	2.187	3.135	7.3	20.4
5 1	12 23.07	− 1 52.5	2.262	3.143	10.5	20.6
5 11	12 18.82	− 1 35.8	2.359	3.150	13.2	20.8

169658 2002 JT_{65} 4 1.7 321°.97 3°.3/30.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.51	− 0 17.0	1.264	2.157	14.9	19.7
3 12	13 1.00	+ 0 36.2	1.193	2.143	10.5	19.4
3 22	12 53.91	+ 1 39.0	1.144	2.129	5.7	19.1
4 1	12 45.20	+ 2 42.6	1.120	2.115	3.4	18.9
4 11	12 36.23	+ 3 37.0	1.121	2.102	7.5	19.1
4 21	12 28.39	+ 4 13.9	1.144	2.090	12.6	19.3
5 1	12 22.82	+ 4 28.0	1.189	2.079	17.3	19.6
5 11	12 20.20	+ 4 17.9	1.250	2.068	21.2	19.8

362750 2011 UQ_{361} 4 1.7 85°.51 3°.6/30.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.31	+ 2 13.4	1.442	2.326	14.1	20.7
3 12	13 3.90	+ 2 54.1	1.388	2.333	9.8	20.5
3 22	12 55.21	+ 3 37.9	1.358	2.339	5.5	20.3
4 1	12 45.28	+ 4 17.5	1.354	2.346	3.8	20.2
4 11	12 35.41	+ 4 45.5	1.376	2.353	7.1	20.4
4 21	12 26.82	+ 4 57.1	1.423	2.359	11.4	20.6
5 1	12 20.44	+ 4 49.9	1.493	2.366	15.4	20.9
5 11	12 16.77	+ 4 24.2	1.581	2.373	18.6	21.1

196529 2003 OA_{20} 4 1.7 226°.59 3°.8/ 5.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.03	−18 3.3	2.225	3.037	12.6	20.9
3 12	13 1.27	−18 5.1	2.135	3.029	9.8	20.7
3 22	12 53.76	−17 49.9	2.069	3.021	6.8	20.5
4 1	12 45.19	−17 18.5	2.030	3.012	4.2	20.3
4 11	12 36.43	−16 34.2	2.019	3.003	4.4	20.3
4 21	12 28.37	−15 42.2	2.037	2.994	7.1	20.4
5 1	12 21.78	−14 48.5	2.081	2.985	10.2	20.6
5 11	12 17.20	−13 59.2	2.148	2.975	13.2	20.8

335509 2005 YB_{143} 4 1.7 277°.46 3°.7/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 0.06	−25 47.5	4.400	5.145	7.9	20.8
3 12	12 55.76	−25 58.4	4.303	5.139	6.5	20.7
3 22	12 50.62	−25 58.2	4.229	5.133	5.2	20.6
4 1	12 45.00	−25 46.9	4.183	5.127	4.1	20.5
4 11	12 39.29	−25 25.9	4.166	5.121	3.8	20.5
4 21	12 33.91	−24 57.2	4.177	5.115	4.5	20.5
5 1	12 29.23	−24 23.4	4.216	5.109	5.8	20.6
5 11	12 25.55	−23 47.6	4.281	5.103	7.2	20.7

108234 2001 HO_{40} 4 1.7 256°.58 8°.8/23.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.25	+17 34.1	1.808	2.681	12.2	19.2
3 12	13 3.06	+19 0.8	1.746	2.665	10.0	19.0
3 22	12 54.78	+20 17.7	1.708	2.649	8.8	18.9
4 1	12 45.27	+21 15.2	1.697	2.633	9.5	18.9
4 11	12 35.63	+21 46.1	1.710	2.616	11.7	19.0
4 21	12 26.95	+21 47.4	1.747	2.598	14.4	19.1
5 1	12 20.13	+21 19.5	1.804	2.580	17.1	19.2
5 11	12 15.74	+20 26.1	1.877	2.562	19.5	19.4

412816 2014 PG_{38} 4 1.7 312°.21 8°.0/26.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.42	+ 8 3.3	1.145	2.049	15.3	20.3
3 12	13 1.21	+ 9 44.3	1.078	2.027	11.4	20.0
3 22	12 54.15	+11 27.4	1.033	2.007	8.4	19.8
4 1	12 45.24	+12 58.4	1.010	1.986	8.7	19.7
4 11	12 35.98	+14 3.7	1.011	1.966	12.3	19.8
4 21	12 27.92	+14 34.7	1.033	1.947	16.9	20.0
5 1	12 22.34	+14 28.5	1.072	1.929	21.2	20.2
5 11	12 19.98	+13 47.9	1.125	1.912	25.0	20.4

162039 1996 JG 4 1.7 289°.74 3°.1/30.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 22.53	− 1 56.3	1.473	2.331	15.4	23.0
3 12	13 14.06	− 0 47.9	1.338	2.271	11.3	22.6
3 22	13 1.64	+ 0 39.7	1.227	2.207	6.3	22.1
4 1	12 45.79	+ 2 20.1	1.145	2.141	3.2	21.8
4 11	12 27.87	+ 4 2.0	1.093	2.071	8.5	21.9
4 21	12 9.84	+ 5 31.9	1.070	1.997	15.3	22.0
5 1	11 53.75	+ 6 38.1	1.071	1.920	21.8	22.1
5 11	11 41.19	+ 7 14.6	1.090	1.839	27.7	22.2

205020 1997 WG_{35} 4 1.7 127°.10 1°.5/30.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.33	− 1 13.4	2.715	3.578	9.0	21.0
3 12	12 59.57	− 0 30.9	2.659	3.595	6.2	20.9
3 22	12 52.65	+ 0 15.6	2.630	3.612	3.2	20.7
4 1	12 45.13	+ 1 2.0	2.632	3.628	1.5	20.6
4 11	12 37.68	+ 1 44.1	2.664	3.643	3.9	20.8
4 21	12 30.90	+ 2 18.4	2.725	3.658	6.8	21.0
5 1	12 25.30	+ 2 42.4	2.813	3.673	9.4	21.2
5 11	12 21.22	+ 2 54.6	2.923	3.687	11.6	21.4

214019 2004 DC_{8} 4 1.7 55°.31 0°.0/ 1.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.15	− 6 45.8	1.865	2.730	12.3	20.5
3 12	12 59.86	− 6 12.4	1.812	2.747	8.7	20.3
3 22	12 52.93	− 5 28.5	1.783	2.764	4.6	20.1
4 1	12 45.15	− 4 39.0	1.782	2.781	0.3	19.7
4 11	12 37.45	− 3 49.8	1.809	2.799	4.0	20.1
4 21	12 30.71	− 3 6.6	1.863	2.816	7.9	20.4
5 1	12 25.60	− 2 33.9	1.942	2.834	11.4	20.6
5 11	12 22.55	− 2 14.4	2.042	2.852	14.4	20.8

123066 2000 SG_{304} 4 1.7 150°.93 2°.1/ 4.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.42	−15 6.4	2.630	3.448	10.7	21.0
3 12	13 0.45	−14 37.8	2.556	3.459	8.0	20.8
3 22	12 53.17	−13 55.6	2.508	3.470	5.0	20.6
4 1	12 45.17	−13 2.2	2.489	3.481	2.4	20.5
4 11	12 37.18	−12 2.0	2.501	3.490	3.1	20.5
4 21	12 29.87	−10 59.8	2.542	3.499	5.9	20.7
5 1	12 23.84	−10 0.7	2.612	3.507	8.8	20.9
5 11	12 19.47	− 9 9.1	2.705	3.514	11.3	21.1

352062 2006 WA_{57} 4 1.7 152°.34 0°.7/31.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.74	− 4 3.0	2.726	3.585	9.1	22.2
3 12	12 58.53	− 3 28.2	2.657	3.591	6.3	22.0
3 22	12 52.14	− 2 47.5	2.615	3.596	3.3	21.8
4 1	12 45.10	− 2 4.2	2.602	3.601	0.7	21.6
4 11	12 38.05	− 1 22.6	2.620	3.605	3.4	21.8
4 21	12 31.61	− 0 46.4	2.667	3.610	6.4	22.0
5 1	12 26.29	− 0 18.6	2.740	3.614	9.1	22.2
5 11	12 22.46	− 0 1.3	2.836	3.618	11.5	22.4

282740 2006 DR_{214} 4 1.7 273°.67 6°.1/25.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.24	+10 47.2	2.004	2.888	10.7	20.2
3 12	12 59.30	+12 13.2	1.943	2.880	8.1	20.0
3 22	12 52.69	+13 36.0	1.908	2.871	6.3	19.9
4 1	12 45.14	+14 47.5	1.901	2.863	6.6	19.9
4 11	12 37.52	+15 40.8	1.920	2.855	8.9	20.0
4 21	12 30.70	+16 11.8	1.964	2.846	11.7	20.2
5 1	12 25.39	+16 19.0	2.030	2.838	14.4	20.3
5 11	12 22.08	+16 3.8	2.114	2.829	16.8	20.5

303425 2005 AZ_5 4 1.7 89°.01 2°.1/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 11.18	−11 54.7	1.533	2.383	15.3	21.1
3 12	13 4.37	−11 42.3	1.482	2.405	11.2	20.9
3 22	12 55.40	−11 12.6	1.454	2.426	6.6	20.6
4 1	12 45.31	−10 29.2	1.452	2.448	2.4	20.4
4 11	12 35.39	− 9 38.8	1.477	2.469	4.4	20.6
4 21	12 26.78	− 8 48.7	1.529	2.489	8.7	20.9
5 1	12 20.35	− 8 5.9	1.606	2.510	12.7	21.2
5 11	12 16.57	− 7 35.1	1.703	2.529	16.1	21.4

204701 2006 EM_{65} 4 1.7 224°.00 0°.5/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.98	− 8 58.1	2.179	3.031	11.3	21.4
3 12	12 59.74	− 8 22.5	2.098	3.025	8.1	21.2
3 22	12 52.92	− 7 34.8	2.042	3.019	4.5	20.9
4 1	12 45.16	− 6 38.8	2.014	3.013	0.7	20.6
4 11	12 37.30	− 5 39.9	2.016	3.006	3.5	20.8
4 21	12 30.14	− 4 43.7	2.045	2.999	7.3	21.1
5 1	12 24.38	− 3 55.6	2.101	2.992	10.8	21.3
5 11	12 20.52	− 3 19.3	2.179	2.985	13.7	21.5

468376 2016 FK_{54} 4 1.7 354°.85 0°.9/ 2.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.96	− 8 13.5	1.443	2.313	14.9	20.5
3 12	13 1.74	− 8 2.9	1.374	2.310	10.8	20.3
3 22	12 54.18	− 7 37.9	1.329	2.308	6.0	20.0
4 1	12 45.25	− 7 2.3	1.308	2.307	1.1	19.7
4 11	12 36.18	− 6 22.7	1.314	2.306	4.6	19.9
4 21	12 28.21	− 5 46.0	1.345	2.306	9.6	20.2
5 1	12 22.35	− 5 18.6	1.399	2.306	14.0	20.4
5 11	12 19.19	− 5 5.0	1.472	2.307	17.8	20.7

170095 2002 XH_{57} 4 1.7 41°.83 11°.4/21.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.50	+29 33.1	1.937	2.772	13.2	19.2
3 12	13 4.93	+30 23.9	1.912	2.783	11.9	19.2
3 22	12 55.53	+30 52.2	1.910	2.795	11.4	19.1
4 1	12 45.32	+30 51.8	1.932	2.807	11.9	19.2
4 11	12 35.48	+30 20.0	1.977	2.819	13.2	19.3
4 21	12 26.98	+29 18.6	2.043	2.832	14.9	19.4
5 1	12 20.53	+27 52.0	2.129	2.845	16.6	19.6
5 11	12 16.49	+26 5.9	2.232	2.858	18.1	19.8

204688 2006 DM_{199} 4 1.7 292°.62 6°.4/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.75	+ 6 33.8	1.364	2.259	14.0	19.7
3 12	13 1.74	+ 8 2.1	1.298	2.244	10.2	19.5
3 22	12 54.26	+ 9 32.6	1.254	2.230	7.0	19.3
4 1	12 45.26	+10 53.9	1.236	2.215	6.9	19.2
4 11	12 36.05	+11 55.0	1.243	2.201	10.2	19.3
4 21	12 27.94	+12 29.0	1.273	2.187	14.4	19.5
5 1	12 22.02	+12 33.0	1.322	2.173	18.3	19.7
5 11	12 18.92	+12 8.4	1.388	2.160	21.7	19.9

238548 2004 VV_{70} 4 1.7 205°.06 5°.7/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.54	+11 28.7	2.103	2.978	10.7	20.4
3 12	13 2.20	+12 20.3	2.043	2.975	8.0	20.2
3 22	12 54.18	+13 6.9	2.009	2.972	6.0	20.1
4 1	12 45.25	+13 41.9	2.003	2.968	6.0	20.0
4 11	12 36.32	+14 0.3	2.024	2.965	8.1	20.2
4 21	12 28.25	+13 59.4	2.072	2.961	10.9	20.3
5 1	12 21.76	+13 38.9	2.143	2.957	13.6	20.5
5 11	12 17.32	+13 0.4	2.233	2.952	15.9	20.7

420885 2013 LL_9 4 1.7 247°.49 3°.3/ 4.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.10	−16 10.1	1.747	2.580	14.5	21.6
3 12	13 1.70	−15 51.5	1.660	2.569	11.1	21.3
3 22	12 54.15	−15 11.8	1.595	2.558	7.2	21.1
4 1	12 45.26	−14 12.9	1.556	2.546	3.8	20.8
4 11	12 36.12	−13 0.5	1.544	2.534	4.5	20.9
4 21	12 27.84	−11 42.5	1.560	2.522	8.4	21.1
5 1	12 21.39	−10 27.4	1.601	2.509	12.5	21.3
5 11	12 17.39	− 9 22.8	1.663	2.496	16.1	21.5

381437 2008 QN_9 4 1.7 229°.69 0°.5/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.37	− 8 23.8	2.288	3.137	10.9	22.0
3 12	13 0.71	− 7 54.1	2.200	3.126	7.9	21.7
3 22	12 53.44	− 7 13.4	2.137	3.114	4.3	21.5
4 1	12 45.21	− 6 24.9	2.103	3.102	0.7	21.2
4 11	12 36.82	− 5 33.6	2.099	3.089	3.5	21.4
4 21	12 29.08	− 4 44.6	2.123	3.076	7.2	21.6
5 1	12 22.70	− 4 2.8	2.174	3.062	10.6	21.8
5 11	12 18.19	− 3 31.9	2.248	3.047	13.5	22.0

450743 2007 HP_{38} 4 1.7 41°.79 1°.9/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.32	−11 46.4	1.232	2.099	17.1	21.5
3 12	13 2.22	−11 15.9	1.170	2.103	12.5	21.2
3 22	12 54.51	−10 23.0	1.130	2.107	7.3	20.9
4 1	12 45.28	− 9 12.7	1.113	2.111	2.2	20.6
4 11	12 35.99	− 7 54.6	1.122	2.115	5.0	20.8
4 21	12 28.03	− 6 39.3	1.155	2.119	10.3	21.1
5 1	12 22.51	− 5 36.4	1.210	2.124	15.2	21.4
5 11	12 19.99	− 4 52.3	1.284	2.129	19.3	21.7

470474 2008 AD_{101} 4 1.7 79°.86 3°.6/ 5.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 4.16	−18 23.1	2.329	3.141	12.1	21.2
3 12	12 59.10	−18 16.3	2.252	3.145	9.3	21.1
3 22	12 52.55	−17 52.8	2.198	3.150	6.4	20.9
4 1	12 45.15	−17 14.2	2.172	3.155	4.0	20.7
4 11	12 37.69	−16 24.2	2.175	3.159	4.1	20.8
4 21	12 30.94	−15 28.0	2.205	3.164	6.5	20.9
5 1	12 25.56	−14 31.4	2.262	3.169	9.4	21.1
5 11	12 21.99	−13 39.8	2.342	3.173	12.1	21.3

165199 2000 RL_{41} 4 1.7 265°.42 4°.5/ 5.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.34	−18 29.4	1.596	2.424	15.9	19.8
3 12	13 2.11	−18 18.9	1.505	2.409	12.5	19.5
3 22	12 54.48	−17 43.5	1.435	2.393	8.5	19.3
4 1	12 45.29	−16 44.1	1.391	2.377	5.1	19.0
4 11	12 35.73	−15 25.9	1.372	2.360	5.4	19.0
4 21	12 27.07	−13 57.6	1.380	2.343	9.1	19.2
5 1	12 20.42	−12 29.5	1.412	2.326	13.4	19.4
5 11	12 16.48	−11 11.3	1.465	2.309	17.3	19.6

477128 2009 CJ_{54} 4 1.7 337°.01 9°.9/18.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.25	+19 49.2	1.817	2.698	11.8	20.5
3 12	12 57.41	+22 26.9	1.776	2.690	10.2	20.4
3 22	12 51.78	+24 52.5	1.761	2.682	10.0	20.3
4 1	12 45.10	+26 54.5	1.772	2.675	11.2	20.4
4 11	12 38.34	+28 24.2	1.807	2.669	13.4	20.5
4 21	12 32.45	+29 18.2	1.863	2.663	15.7	20.6
5 1	12 28.19	+29 37.1	1.937	2.658	17.9	20.8
5 11	12 26.07	+29 24.6	2.024	2.653	19.6	20.9

285639 2000 SW_{10} 4 1.7 242°.16 3°.8/29.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.18	+ 2 2.7	1.732	2.611	12.3	20.9
3 12	13 2.37	+ 3 14.3	1.654	2.597	8.7	20.7
3 22	12 54.47	+ 4 31.9	1.602	2.582	5.1	20.4
4 1	12 45.29	+ 5 47.6	1.578	2.567	4.0	20.3
4 11	12 35.89	+ 6 52.8	1.581	2.551	7.2	20.5
4 21	12 27.37	+ 7 40.8	1.610	2.534	11.2	20.6
5 1	12 20.66	+ 8 7.5	1.663	2.517	15.0	20.8
5 11	12 16.34	+ 8 12.0	1.734	2.500	18.2	21.0

429591 2011 EB_{55} 4 1.7 48°.40 3°.0/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.77	− 1 15.7	1.535	2.422	13.2	20.2
3 12	12 59.14	+ 0 11.4	1.490	2.437	9.1	20.0
3 22	12 52.63	+ 1 46.1	1.468	2.452	4.8	19.8
4 1	12 45.15	+ 3 19.1	1.474	2.468	3.2	19.7
4 11	12 37.80	+ 4 40.9	1.507	2.484	6.6	20.0
4 21	12 31.55	+ 5 44.2	1.565	2.500	10.6	20.2
5 1	12 27.16	+ 6 25.2	1.645	2.517	14.3	20.5
5 11	12 25.04	+ 6 43.0	1.745	2.534	17.2	20.7

279684 2011 FO_{34} 4 1.7 1°.78 1°.8/30.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.10	− 3 16.9	1.733	2.611	12.4	20.7
3 12	12 59.35	− 2 14.2	1.668	2.610	8.6	20.5
3 22	12 52.78	− 1 1.6	1.627	2.610	4.5	20.2
4 1	12 45.17	+ 0 13.9	1.613	2.610	1.8	20.0
4 11	12 37.52	+ 1 24.4	1.627	2.610	5.4	20.3
4 21	12 30.77	+ 2 23.0	1.667	2.611	9.5	20.5
5 1	12 25.72	+ 3 4.7	1.731	2.611	13.3	20.7
5 11	12 22.86	+ 3 27.1	1.815	2.612	16.4	21.0

325224 2008 GK_{38} 4 1.7 345°.06 7°.4/27.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.90	+12 3.9	1.415	2.301	14.1	19.3
3 12	13 4.48	+12 42.0	1.358	2.296	10.7	19.0
3 22	12 55.61	+13 11.5	1.324	2.291	7.9	18.9
4 1	12 45.36	+13 24.1	1.315	2.287	7.7	18.8
4 11	12 35.11	+13 13.5	1.331	2.283	10.3	19.0
4 21	12 26.16	+12 37.6	1.371	2.280	13.9	19.2
5 1	12 19.51	+11 37.8	1.432	2.278	17.4	19.4
5 11	12 15.72	+10 17.9	1.510	2.276	20.4	19.6

67428 2000 QA_{103} 4 1.7 60°.86 5°.3/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.37	+ 5 18.5	1.343	2.234	14.4	17.9
3 12	13 3.33	+ 6 17.9	1.296	2.242	10.2	17.7
3 22	12 54.95	+ 7 17.3	1.271	2.250	6.4	17.5
4 1	12 45.31	+ 8 7.2	1.272	2.258	5.6	17.4
4 11	12 35.80	+ 8 39.5	1.299	2.266	8.7	17.6
4 21	12 27.64	+ 8 49.6	1.349	2.275	12.8	17.9
5 1	12 21.79	+ 8 36.2	1.420	2.283	16.6	18.1
5 11	12 18.71	+ 8 1.1	1.509	2.292	19.7	18.4

382350 2013 TM_{75} 4 1.7 328°.22 3°.0/ 4.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	12 58.99	−17 26.3	1.323	2.178	17.0	19.6
3 12	12 56.44	−16 17.6	1.233	2.155	13.0	19.3
3 22	12 51.54	−14 34.1	1.163	2.134	8.3	18.9
4 1	12 45.10	−12 20.0	1.118	2.113	3.7	18.6
4 11	12 38.36	− 9 46.2	1.099	2.093	4.8	18.6
4 21	12 32.57	− 7 8.1	1.104	2.074	10.0	18.8
5 1	12 28.84	− 4 41.7	1.133	2.056	15.2	19.1
5 11	12 27.88	− 2 39.2	1.182	2.040	19.8	19.3

158950 2004 RS_{136} 4 1.7 167°.36 1°.8/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.65	− 0 56.0	1.970	2.841	11.5	20.1
3 12	13 1.67	− 0 24.6	1.903	2.842	8.0	19.9
3 22	12 53.95	+ 0 12.2	1.862	2.844	4.2	19.7
4 1	12 45.27	+ 0 49.3	1.848	2.845	1.9	19.5
4 11	12 36.55	+ 1 21.4	1.864	2.846	5.0	19.7
4 21	12 28.70	+ 1 44.0	1.906	2.846	8.8	20.0
5 1	12 22.46	+ 1 53.9	1.974	2.847	12.2	20.2
5 11	12 18.32	+ 1 49.7	2.062	2.847	15.1	20.4

267401 2002 AS_{68} 4 1.7 107°.21 1°.2/31.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.80	− 3 49.0	1.858	2.727	12.1	21.4
3 12	13 1.09	− 3 6.8	1.798	2.737	8.4	21.1
3 22	12 53.64	− 2 16.1	1.764	2.746	4.4	20.9
4 1	12 45.25	− 1 22.5	1.757	2.755	1.2	20.7
4 11	12 36.89	− 0 32.2	1.779	2.764	4.7	21.0
4 21	12 29.48	+ 0 9.0	1.827	2.773	8.7	21.2
5 1	12 23.75	+ 0 37.2	1.901	2.782	12.2	21.4
5 11	12 20.16	+ 0 50.1	1.995	2.790	15.2	21.7

190145 2005 SN_{164} 4 1.7 201°.29 2°.7/30.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.10	− 0 37.6	1.707	2.580	12.8	20.7
3 12	13 3.67	+ 0 22.8	1.636	2.576	9.0	20.4
3 22	12 55.13	+ 1 30.8	1.590	2.572	4.8	20.2
4 1	12 45.35	+ 2 39.2	1.572	2.566	2.8	20.0
4 11	12 35.47	+ 3 40.0	1.582	2.560	6.2	20.2
4 21	12 26.57	+ 4 26.6	1.620	2.553	10.5	20.4
5 1	12 19.57	+ 4 54.8	1.680	2.546	14.3	20.7
5 11	12 15.04	+ 5 3.0	1.761	2.537	17.6	20.9

100963 1998 QW_{14} 4 1.7 268°.89 5°.9/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.02	−23 1.5	2.088	2.878	14.0	19.2
3 12	13 1.52	−23 20.2	1.991	2.863	11.5	19.0
3 22	12 54.04	−23 18.3	1.917	2.848	8.7	18.8
4 1	12 45.28	−22 54.7	1.867	2.833	6.4	18.6
4 11	12 36.22	−22 11.7	1.845	2.817	6.1	18.6
4 21	12 27.85	−21 14.4	1.849	2.802	8.1	18.6
5 1	12 21.07	−20 9.8	1.879	2.786	11.0	18.8
5 11	12 16.52	−19 5.6	1.932	2.770	14.0	18.9

273476 2006 YT_{14} 4 1.7 55°.58 10°.7/11.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.74	−31 25.7	1.513	2.271	19.8	19.5
3 12	13 5.26	−32 30.8	1.460	2.293	17.0	19.3
3 22	12 56.10	−33 2.3	1.424	2.315	14.1	19.2
4 1	12 45.41	−32 57.0	1.410	2.338	11.7	19.1
4 11	12 34.72	−32 16.8	1.419	2.361	10.7	19.1
4 21	12 25.46	−31 9.4	1.452	2.384	11.6	19.2
5 1	12 18.75	−29 46.0	1.507	2.408	13.6	19.4
5 11	12 15.15	−28 18.7	1.583	2.431	16.1	19.6

279771 1999 RO_{146} 4 1.7 252°.02 3°.0/ 3.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.06	−14 3.4	1.492	2.338	15.9	21.1
3 12	13 4.17	−13 52.1	1.404	2.322	12.0	20.8
3 22	12 55.65	−13 19.2	1.337	2.306	7.6	20.5
4 1	12 45.40	−12 26.5	1.295	2.289	3.5	20.2
4 11	12 34.72	−11 20.0	1.281	2.272	4.9	20.2
4 21	12 24.99	−10 8.5	1.292	2.254	9.8	20.5
5 1	12 17.43	− 9 1.5	1.327	2.235	14.5	20.7
5 11	12 12.81	− 8 7.2	1.381	2.217	18.7	20.9

497210 2004 VH_{38} 4 1.7 171°.64 0°.5/ 2.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.83	− 9 11.7	2.713	3.554	9.7	23.1
3 12	13 0.04	− 8 35.9	2.636	3.558	6.9	22.9
3 22	12 52.98	− 7 50.4	2.587	3.562	3.8	22.7
4 1	12 45.21	− 6 58.3	2.567	3.565	0.7	22.4
4 11	12 37.42	− 6 4.0	2.578	3.568	2.9	22.6
4 21	12 30.25	− 5 11.9	2.618	3.569	6.1	22.8
5 1	12 24.26	− 4 26.0	2.687	3.570	9.0	23.0
5 11	12 19.84	− 3 49.7	2.779	3.571	11.4	23.2

102742 1999 VE_{111} 4 1.7 235°.74 0°.7/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.74	− 5 5.4	1.972	2.833	11.9	20.4
3 12	13 2.62	− 4 28.8	1.885	2.819	8.4	20.1
3 22	12 54.57	− 3 41.9	1.823	2.804	4.4	19.8
4 1	12 45.33	− 2 49.2	1.789	2.788	0.7	19.5
4 11	12 35.86	− 1 56.8	1.784	2.771	4.5	19.8
4 21	12 27.14	− 1 10.7	1.808	2.754	8.7	20.0
5 1	12 20.04	− 0 35.8	1.856	2.736	12.5	20.2
5 11	12 15.13	− 0 15.6	1.926	2.718	15.8	20.4

268471 2005 XC_{22} 4 1.7 236°.60 1°.6/ 3.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.72	−11 42.6	2.245	3.082	11.6	21.2
3 12	13 1.76	−11 23.8	2.150	3.067	8.6	21.0
3 22	12 54.07	−10 51.5	2.080	3.051	5.1	20.7
4 1	12 45.29	−10 8.2	2.038	3.034	1.9	20.5
4 11	12 36.30	− 9 18.1	2.026	3.017	3.5	20.6
4 21	12 27.94	− 8 26.6	2.043	2.999	7.2	20.8
5 1	12 21.00	− 7 39.3	2.086	2.980	10.7	20.9
5 11	12 16.02	− 7 0.8	2.152	2.961	13.8	21.1

82709 2001 PP_{43} 4 1.7 120°.04 1°.7/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 6.89	− 0 16.4	2.472	3.337	9.7	20.1
3 12	13 0.78	+ 0 10.2	2.414	3.351	6.7	19.9
3 22	12 53.35	+ 0 40.2	2.382	3.364	3.5	19.8
4 1	12 45.24	+ 1 9.6	2.380	3.376	1.7	19.6
4 11	12 37.18	+ 1 34.5	2.408	3.389	4.2	19.8
4 21	12 29.86	+ 1 51.6	2.465	3.401	7.3	20.0
5 1	12 23.87	+ 1 58.8	2.548	3.412	10.1	20.2
5 11	12 19.56	+ 1 54.7	2.653	3.424	12.4	20.4

284411 2006 UU_{202} 4 1.7 162°.50 3°.3/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.88	−19 31.9	2.995	3.788	10.1	21.8
3 12	12 59.35	−19 26.3	2.912	3.793	7.9	21.7
3 22	12 52.62	−19 6.8	2.855	3.799	5.6	21.5
4 1	12 45.20	−18 34.7	2.826	3.803	3.7	21.4
4 11	12 37.73	−17 52.6	2.827	3.807	3.6	21.4
4 21	12 30.83	−17 4.4	2.857	3.811	5.5	21.5
5 1	12 25.02	−16 14.4	2.915	3.815	7.8	21.7
5 11	12 20.71	−15 27.1	2.998	3.818	10.0	21.8

343231 2009 WS_{119} 4 1.7 349°.62 2°.1/ 3.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.18	−11 38.8	1.139	2.011	17.9	20.6
3 12	13 2.37	−11 15.8	1.074	2.009	13.2	20.3
3 22	12 54.73	−10 29.2	1.029	2.007	7.7	20.0
4 1	12 45.34	− 9 23.7	1.008	2.005	2.5	19.7
4 11	12 35.78	− 8 8.6	1.011	2.004	5.3	19.9
4 21	12 27.59	− 6 55.4	1.037	2.004	11.0	20.2
5 1	12 21.98	− 5 54.3	1.085	2.003	16.1	20.5
5 11	12 19.61	− 5 12.6	1.150	2.003	20.5	20.7

6869 Funada 4 1.7 343°.87 6°.8/23.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.68	+14 20.5	2.155	3.036	10.2	16.8
3 12	12 58.10	+15 53.4	2.105	3.034	8.0	16.7
3 22	12 52.04	+17 19.7	2.082	3.032	6.8	16.6
4 1	12 45.16	+18 31.8	2.086	3.030	7.4	16.6
4 11	12 38.27	+19 23.6	2.116	3.029	9.4	16.8
4 21	12 32.14	+19 52.0	2.170	3.028	11.7	16.9
5 1	12 27.41	+19 56.3	2.246	3.026	14.0	17.1
5 11	12 24.51	+19 38.5	2.339	3.025	16.0	17.2

456694 2007 RB_{210} 4 1.7 87°.13 2°.3/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.16	− 1 55.3	1.498	2.376	14.0	21.8
3 12	13 2.93	− 0 57.6	1.453	2.396	9.6	21.5
3 22	12 54.64	+ 0 7.7	1.432	2.415	5.0	21.3
4 1	12 45.32	+ 1 12.8	1.438	2.434	2.4	21.2
4 11	12 36.20	+ 2 9.6	1.471	2.453	6.0	21.5
4 21	12 28.36	+ 2 51.8	1.530	2.471	10.4	21.7
5 1	12 22.61	+ 3 15.6	1.612	2.490	14.2	22.0
5 11	12 19.38	+ 3 20.0	1.713	2.508	17.3	22.3

351928 2006 TN_{4} 4 1.7 192°.10 1°.8/ 4.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	12 58.97	−13 30.8	2.842	3.667	9.8	22.3
3 12	12 52.44	−13 10.2	2.756	3.665	7.2	22.2
3 22	12 45.19	−12 38.0	2.697	3.663	4.5	22.0
4 1	12 37.87	−11 56.4	2.667	3.660	2.0	21.8
4 11	12 31.11	−11 8.9	2.667	3.657	2.8	21.8
4 21	12 25.44	−10 19.5	2.697	3.654	5.6	22.0
5 1	12 21.28	− 9 32.6	2.754	3.650	8.4	22.2
5 11		− 8 51.9	2.836	3.645	10.8	22.3

19152 1990 OB_{5} 4 1.7 247°.36 5°.2/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.20	−23 10.4	2.217	3.003	13.4	18.3
3 12	13 0.81	−23 7.1	2.117	2.989	10.9	18.1
3 22	12 53.61	−22 42.4	2.041	2.974	8.1	17.9
4 1	12 45.27	−21 56.5	1.990	2.959	5.8	17.7
4 11	12 36.69	−20 52.3	1.967	2.943	5.4	17.7
4 21	12 28.78	−19 35.7	1.972	2.927	7.5	17.7
5 1	12 22.37	−18 13.9	2.003	2.910	10.4	17.9
5 11	12 18.02	−16 54.8	2.058	2.893	13.4	18.0

189850 2003 FE_{68} 4 1.7 288°.45 4°.2/28.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.44	+ 2 3.9	1.718	2.605	12.0	20.0
3 12	12 59.04	+ 3 43.7	1.643	2.589	8.4	19.7
3 22	12 52.71	+ 5 31.1	1.593	2.573	5.1	19.5
4 1	12 45.22	+ 7 16.7	1.571	2.558	4.6	19.4
4 11	12 37.55	+ 8 50.4	1.577	2.542	7.7	19.6
4 21	12 30.69	+10 4.3	1.608	2.526	11.6	19.8
5 1	12 25.50	+10 53.5	1.662	2.511	15.3	19.9
5 11	12 22.56	+11 16.8	1.733	2.495	18.3	20.1

327759 2006 UZ_{27} 4 1.7 92°.14 1°.2/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.06	−11 16.1	1.695	2.548	14.0	21.7
3 12	13 1.38	−10 32.0	1.639	2.565	10.1	21.5
3 22	12 53.82	− 9 31.4	1.606	2.582	5.7	21.2
4 1	12 45.28	− 8 19.5	1.601	2.599	1.5	21.0
4 11	12 36.84	− 7 3.8	1.623	2.615	4.0	21.2
4 21	12 29.49	− 5 52.2	1.673	2.631	8.3	21.5
5 1	12 23.99	− 4 51.5	1.748	2.647	12.1	21.8
5 11	12 20.79	− 4 6.0	1.843	2.663	15.3	22.0

58329 1994 SD_{11} 4 1.7 170°.60 0°.5/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 3.72	− 4 29.7	2.956	3.812	8.5	20.4
3 12	12 58.48	− 3 56.1	2.883	3.815	6.0	20.3
3 22	12 52.14	− 3 16.7	2.837	3.818	3.1	20.1
4 1	12 45.18	− 2 34.6	2.821	3.820	0.5	19.9
4 11	12 38.20	− 1 53.6	2.836	3.822	3.1	20.1
4 21	12 31.76	− 1 17.1	2.880	3.824	6.0	20.3
5 1	12 26.36	− 0 48.2	2.952	3.825	8.6	20.5
5 11	12 22.35	− 0 28.9	3.046	3.826	10.8	20.6

188052 2001 VC_{77} 4 1.7 87°.27 14°.5/18.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 18.53	+38 27.4	1.853	2.644	15.5	19.7
3 12	13 9.20	+39 35.5	1.848	2.664	14.7	19.7
3 22	12 57.76	+40 12.0	1.863	2.684	14.5	19.7
4 1	12 45.53	+40 10.5	1.900	2.703	15.1	19.8
4 11	12 33.96	+39 29.9	1.957	2.722	16.1	19.9
4 21	12 24.19	+38 14.0	2.033	2.741	17.4	20.0
5 1	12 16.97	+36 29.5	2.125	2.760	18.6	20.2
5 11	12 12.59	+34 24.0	2.230	2.778	19.6	20.3

274484 2008 SP_{104} 4 1.7 250°.58 0°.7/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.81	− 4 21.7	2.140	3.002	11.1	21.2
3 12	13 1.13	− 3 51.5	2.053	2.988	7.8	21.0
3 22	12 53.74	− 3 13.0	1.992	2.973	4.1	20.7
4 1	12 45.30	− 2 30.0	1.960	2.958	0.7	20.4
4 11	12 36.67	− 1 48.0	1.956	2.943	4.2	20.7
4 21	12 28.73	− 1 11.7	1.981	2.927	8.0	20.9
5 1	12 22.23	− 0 45.6	2.031	2.911	11.6	21.1
5 11	12 17.71	− 0 32.3	2.103	2.895	14.6	21.2

199563 2006 EP_{41} 4 1.7 343°.41 0°.5/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.26	−10 58.0	1.612	2.477	13.9	19.4
3 12	12 57.55	− 9 44.4	1.537	2.471	10.0	19.1
3 22	12 51.93	− 8 10.6	1.486	2.465	5.5	18.9
4 1	12 45.17	− 6 23.0	1.461	2.460	0.8	18.5
4 11	12 38.32	− 4 31.5	1.464	2.456	4.4	18.8
4 21	12 32.37	− 2 46.4	1.493	2.452	9.0	19.0
5 1	12 28.16	− 1 16.5	1.547	2.449	13.3	19.3
5 11	12 26.21	− 0 7.5	1.621	2.446	16.8	19.5

414169 2008 AA_{91} 4 1.7 203°.01 0°.4/ 2.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.27	− 8 36.3	2.121	2.970	11.7	22.6
3 12	13 2.12	− 7 58.2	2.038	2.965	8.4	22.4
3 22	12 54.24	− 7 7.7	1.982	2.959	4.6	22.1
4 1	12 45.33	− 6 8.8	1.953	2.952	0.6	21.8
4 11	12 36.30	− 5 7.2	1.955	2.945	3.7	22.1
4 21	12 28.03	− 4 8.9	1.985	2.936	7.7	22.3
5 1	12 21.27	− 3 19.4	2.042	2.927	11.3	22.5
5 11	12 16.56	− 2 42.5	2.120	2.917	14.3	22.7

286734 2002 GZ_{124} 4 1.7 77°.69 1°.4/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.03	−11 58.0	1.416	2.276	15.8	20.4
3 12	13 1.66	−11 9.0	1.361	2.291	11.4	20.2
3 22	12 54.08	− 9 59.5	1.329	2.305	6.5	19.9
4 1	12 45.32	− 8 35.8	1.322	2.319	1.8	19.7
4 11	12 36.65	− 7 7.3	1.341	2.334	4.5	19.9
4 21	12 29.25	− 5 43.9	1.387	2.348	9.3	20.2
5 1	12 23.99	− 4 34.0	1.456	2.362	13.6	20.5
5 11	12 21.36	− 3 42.9	1.545	2.376	17.2	20.7

472826 2015 FH_{176} 4 1.7 283°.78 3°.1/28.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.42	+ 1 5.4	2.103	2.983	10.4	20.9
3 12	12 58.02	+ 2 27.9	2.027	2.971	7.3	20.6
3 22	12 52.06	+ 3 56.5	1.978	2.959	4.2	20.4
4 1	12 45.19	+ 5 24.2	1.958	2.947	3.4	20.3
4 11	12 38.21	+ 6 43.5	1.966	2.935	6.1	20.5
4 21	12 31.91	+ 7 48.4	2.001	2.923	9.5	20.7
5 1	12 26.97	+ 8 34.6	2.061	2.911	12.7	20.8
5 11	12 23.88	+ 9 0.7	2.140	2.899	15.4	21.0

173244 1999 KD 4 1.7 240°.76 2°.7/30.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.90	+ 0 31.2	1.922	2.793	11.7	22.0
3 12	13 3.49	+ 1 19.7	1.837	2.776	8.3	21.7
3 22	12 55.08	+ 2 14.2	1.777	2.757	4.5	21.4
4 1	12 45.40	+ 3 8.6	1.745	2.738	2.8	21.3
4 11	12 35.48	+ 3 56.3	1.742	2.719	5.9	21.4
4 21	12 26.33	+ 4 31.5	1.767	2.698	9.9	21.6
5 1	12 18.85	+ 4 50.6	1.816	2.677	13.7	21.8
5 11	12 13.65	+ 4 51.7	1.886	2.655	16.8	22.0

258674 2002 EC_{128} 4 1.7 303°.53 2°.1/30.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.71	− 0 29.5	2.212	3.088	10.2	20.3
3 12	12 58.16	+ 0 22.2	2.134	3.076	7.1	20.1
3 22	12 52.12	+ 1 19.7	2.083	3.065	3.8	19.9
4 1	12 45.20	+ 2 17.6	2.059	3.054	2.2	19.7
4 11	12 38.18	+ 3 10.2	2.064	3.042	5.0	19.9
4 21	12 31.81	+ 3 52.6	2.097	3.032	8.4	20.1
5 1	12 26.74	+ 4 21.0	2.154	3.021	11.6	20.3
5 11	12 23.45	+ 4 33.8	2.232	3.010	14.3	20.4

419648 2010 TW_{37} 4 1.7 189°.93 0°.2/ 1.9 14 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.64	− 7 38.3	2.176	3.026	11.4	22.6
3 12	13 2.32	− 7 5.7	2.098	3.025	8.1	22.4
3 22	12 54.32	− 6 22.4	2.045	3.023	4.4	22.1
4 1	12 45.35	− 5 32.0	2.022	3.021	0.4	21.8
4 11	12 36.30	− 4 39.9	2.028	3.017	3.7	22.1
4 21	12 28.01	− 3 51.5	2.063	3.013	7.5	22.3
5 1	12 21.23	− 3 11.5	2.124	3.008	11.0	22.5
5 11	12 16.44	− 2 43.5	2.208	3.002	13.9	22.7

287075 2002 RH_{36} 4 1.7 219°.27 2°.5/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.73	− 2 58.1	1.750	2.627	12.4	21.0
3 12	12 59.85	− 1 16.7	1.679	2.622	8.6	20.7
3 22	12 53.10	+ 0 36.7	1.634	2.617	4.5	20.5
4 1	12 45.27	+ 2 33.1	1.618	2.612	2.7	20.3
4 11	12 37.35	+ 4 22.3	1.630	2.607	6.2	20.5
4 21	12 30.31	+ 5 55.5	1.669	2.601	10.3	20.7
5 1	12 24.96	+ 7 6.6	1.732	2.595	14.1	21.0
5 11	12 21.83	+ 7 53.2	1.815	2.589	17.2	21.2

15853 Benedettafoglia 4 1.7 46°.80 4°.5/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.45	+ 1 37.1	1.178	2.074	15.6	17.6
3 12	13 2.22	+ 2 51.8	1.133	2.083	10.9	17.3
3 22	12 54.47	+ 4 12.0	1.109	2.092	6.2	17.1
4 1	12 45.36	+ 5 26.8	1.110	2.102	4.7	17.0
4 11	12 36.38	+ 6 25.4	1.136	2.112	8.5	17.3
4 21	12 28.84	+ 7 0.8	1.185	2.122	13.1	17.6
5 1	12 23.75	+ 7 10.0	1.254	2.132	17.3	17.8
5 11	12 21.58	+ 6 53.9	1.339	2.143	20.8	18.1

359099 2009 AG_{42} 4 1.7 127°.37 2°.2/ 3.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.37	−13 19.7	1.655	2.499	14.7	21.4
3 12	13 3.14	−12 52.0	1.592	2.511	10.9	21.2
3 22	12 54.84	−12 5.6	1.552	2.522	6.5	21.0
4 1	12 45.39	−11 4.3	1.538	2.533	2.6	20.7
4 11	12 35.98	− 9 55.1	1.552	2.544	4.2	20.9
4 21	12 27.68	− 8 45.8	1.594	2.554	8.4	21.1
5 1	12 21.37	− 7 44.2	1.660	2.564	12.4	21.4
5 11	12 17.55	− 6 55.8	1.748	2.573	15.8	21.6

252793 2002 FW_5 4 1.7 47°.84 47°.5/23.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	19 17.47	+62 43.3	0.617	1.082	64.8	20.6
3 12	18 33.60	+68 39.1	0.536	1.107	63.8	20.3
3 22	16 32.74	+74 24.8	0.456	1.135	60.9	19.9
4 1	12 56.65	+70 19.9	0.393	1.165	55.9	19.5
4 11	11 11.14	+52 35.2	0.369	1.197	50.2	19.3
4 21	10 35.67	+31 37.6	0.400	1.230	47.6	19.5
5 1	10 23.50	+14 32.3	0.479	1.264	47.9	19.9
5 11	10 21.24	+ 2 26.2	0.586	1.297	48.6	20.4

312136 2007 TD_{287} 4 1.7 165°.92 4°.5/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.35	+ 4 57.8	1.769	2.648	12.1	20.9
3 12	13 2.99	+ 6 5.7	1.712	2.652	8.6	20.7
3 22	12 54.72	+ 7 14.6	1.680	2.656	5.4	20.5
4 1	12 45.39	+ 8 16.6	1.676	2.660	4.8	20.5
4 11	12 36.09	+ 9 4.5	1.700	2.662	7.5	20.6
4 21	12 27.82	+ 9 33.5	1.750	2.664	11.1	20.8
5 1	12 21.38	+ 9 41.5	1.823	2.666	14.4	21.0
5 11	12 17.26	+ 9 29.1	1.914	2.667	17.1	21.2

401335 2013 AA_{75} 4 1.7 324°.72 4°.1/ 4.3 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.35	−13 45.6	1.193	2.055	18.0	20.7
3 12	13 3.34	−14 6.3	1.118	2.044	13.7	20.4
3 22	12 55.38	−14 4.9	1.064	2.034	8.8	20.1
4 1	12 45.46	−13 42.2	1.032	2.025	4.5	19.8
4 11	12 35.15	−13 3.2	1.025	2.016	5.8	19.8
4 21	12 26.04	−12 16.4	1.041	2.008	10.8	20.1
5 1	12 19.50	−11 31.7	1.078	2.001	15.8	20.3
5 11	12 16.32	−10 57.7	1.133	1.994	20.2	20.6

521235 2015 HG_{189} 4 1.7 35°.79 4°.4/ 6.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.25	−20 26.5	2.112	2.919	13.3	21.3
3 12	12 59.36	−20 20.1	2.034	2.922	10.5	21.1
3 22	12 52.81	−19 53.9	1.978	2.924	7.5	21.0
4 1	12 45.28	−19 9.2	1.949	2.927	5.0	20.8
4 11	12 37.68	−18 9.9	1.948	2.930	4.8	20.8
4 21	12 30.86	−17 2.2	1.973	2.933	7.1	20.9
5 1	12 25.55	−15 53.0	2.025	2.936	10.1	21.1
5 11	12 22.23	−14 48.9	2.100	2.939	13.0	21.3

152351 2005 UD_{97} 4 1.7 187°.97 1°.2/31.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.41	− 3 48.4	1.952	2.820	11.7	20.7
3 12	13 0.87	− 3 0.9	1.882	2.820	8.2	20.5
3 22	12 53.60	− 2 4.6	1.837	2.819	4.2	20.3
4 1	12 45.34	− 1 4.8	1.820	2.819	1.3	20.0
4 11	12 37.03	− 0 8.1	1.832	2.817	4.7	20.3
4 21	12 29.56	+ 0 39.9	1.872	2.816	8.6	20.5
5 1	12 23.66	+ 1 14.5	1.936	2.814	12.2	20.7
5 11	12 19.85	+ 1 33.4	2.021	2.812	15.1	20.9

309900 2009 EQ_{14} 4 1.7 132°.66 0°.4/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 10.43	− 5 35.0	1.627	2.492	13.8	21.2
3 12	13 3.90	− 5 9.1	1.565	2.500	9.7	21.0
3 22	12 55.27	− 4 32.3	1.527	2.508	5.1	20.7
4 1	12 45.46	− 3 49.6	1.516	2.516	0.4	20.4
4 11	12 35.66	− 3 7.5	1.534	2.523	4.7	20.7
4 21	12 26.99	− 2 32.2	1.578	2.529	9.3	21.0
5 1	12 20.32	− 2 8.5	1.646	2.536	13.3	21.3
5 11	12 16.17	− 1 59.3	1.734	2.542	16.6	21.5

430477 2001 SH_{103} 4 1.7 285°.16 1°.7/ 3.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.25	−10 36.7	2.115	2.959	11.9	20.8
3 12	13 1.52	−10 41.4	2.027	2.948	8.8	20.6
3 22	12 54.01	−10 34.4	1.964	2.936	5.2	20.3
4 1	12 45.39	−10 17.7	1.928	2.924	2.0	20.1
4 11	12 36.56	− 9 54.6	1.922	2.913	3.6	20.2
4 21	12 28.42	− 9 29.7	1.943	2.901	7.3	20.4
5 1	12 21.76	− 9 7.5	1.990	2.890	10.9	20.6
5 11	12 17.15	− 8 52.3	2.059	2.878	14.0	20.8

179042 2001 SA_{10} 4 1.7 278°.40 2°.7/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.30	+ 1 6.6	1.736	2.613	12.5	19.2
3 12	13 3.22	+ 1 34.8	1.656	2.597	8.8	19.0
3 22	12 55.00	+ 2 7.2	1.600	2.582	4.8	18.7
4 1	12 45.46	+ 2 38.4	1.572	2.566	2.8	18.5
4 11	12 35.68	+ 3 2.2	1.571	2.550	6.1	18.7
4 21	12 26.78	+ 3 13.8	1.596	2.534	10.3	18.9
5 1	12 19.69	+ 3 9.9	1.646	2.519	14.2	19.1
5 11	12 15.04	+ 2 49.6	1.714	2.503	17.5	19.3

132439 2002 GR_{170} 4 1.7 151°.71 1°.6/ 3.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.28	−11 0.4	2.004	2.849	12.4	20.1
3 12	13 1.49	−10 49.7	1.930	2.851	9.1	19.9
3 22	12 53.94	−10 25.8	1.881	2.854	5.4	19.7
4 1	12 45.38	− 9 51.3	1.860	2.856	1.9	19.5
4 11	12 36.75	− 9 11.0	1.867	2.858	3.6	19.6
4 21	12 28.95	− 8 30.1	1.902	2.860	7.4	19.8
5 1	12 22.74	− 7 54.2	1.962	2.862	11.0	20.0
5 11	12 18.64	− 7 27.4	2.045	2.863	14.0	20.2

508754 2017 UT_{36} 4 1.7 250°.90 0°.3/ 1.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.03	− 5 3.3	2.103	2.962	11.4	21.4
3 12	13 2.02	− 4 50.0	2.019	2.952	8.1	21.1
3 22	12 54.25	− 4 28.6	1.961	2.941	4.3	20.9
4 1	12 45.41	− 4 2.5	1.931	2.930	0.3	20.5
4 11	12 36.41	− 3 36.1	1.931	2.919	3.9	20.8
4 21	12 28.12	− 3 13.8	1.958	2.908	7.9	21.0
5 1	12 21.35	− 2 59.6	2.011	2.897	11.4	21.2
5 11	12 16.61	− 2 56.1	2.086	2.885	14.5	21.4

472152 2014 DA_{1} 4 1.7 15°.38 2°.0/ 3.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.38	−11 54.2	1.881	2.731	12.9	20.5
3 12	12 59.53	−11 45.0	1.812	2.734	9.5	20.3
3 22	12 52.93	−11 21.3	1.766	2.738	5.7	20.1
4 1	12 45.32	−10 45.8	1.747	2.742	2.3	19.9
4 11	12 37.66	−10 3.5	1.755	2.747	3.7	20.0
4 21	12 30.85	− 9 20.1	1.790	2.752	7.5	20.2
5 1	12 25.65	− 8 41.4	1.851	2.758	11.1	20.4
5 11	12 22.55	− 8 12.0	1.933	2.764	14.2	20.6

343125 2009 EE_{17} 4 1.7 81°.51 3°.4/29.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.16	+ 3 40.3	2.134	3.012	10.4	20.8
3 12	12 59.74	+ 4 35.7	2.086	3.027	7.3	20.6
3 22	12 52.90	+ 5 32.0	2.064	3.042	4.3	20.5
4 1	12 45.31	+ 6 23.5	2.070	3.057	3.6	20.4
4 11	12 37.82	+ 7 4.6	2.105	3.072	5.9	20.6
4 21	12 31.17	+ 7 31.8	2.167	3.087	9.0	20.8
5 1	12 25.97	+ 7 42.9	2.253	3.102	11.8	21.0
5 11	12 22.61	+ 7 37.9	2.359	3.116	14.2	21.2

409187 2003 UT_{315} 4 1.7 158°.85 2°.1/30.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.31	− 1 21.9	2.036	2.904	11.3	22.8
3 12	13 2.08	− 0 20.3	1.974	2.912	7.8	22.6
3 22	12 54.19	+ 0 47.8	1.938	2.919	4.1	22.3
4 1	12 45.41	+ 1 56.1	1.931	2.926	2.2	22.2
4 11	12 36.65	+ 2 58.0	1.954	2.932	5.2	22.4
4 21	12 28.76	+ 3 48.0	2.004	2.937	8.8	22.6
5 1	12 22.48	+ 4 22.5	2.080	2.941	12.1	22.9
5 11	12 18.23	+ 4 39.9	2.176	2.945	14.9	23.1

456713 2007 RU_{290} 4 1.7 108°.11 1°.5/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.41	− 2 41.2	1.717	2.584	13.1	21.8
3 12	13 4.35	− 2 4.8	1.668	2.605	9.1	21.6
3 22	12 55.40	− 1 21.1	1.644	2.625	4.7	21.4
4 1	12 45.49	− 0 36.1	1.647	2.645	1.5	21.2
4 11	12 35.75	+ 0 4.1	1.680	2.664	5.1	21.5
4 21	12 27.19	+ 0 34.2	1.739	2.683	9.2	21.8
5 1	12 20.59	+ 0 50.8	1.823	2.701	12.8	22.0
5 11	12 16.37	+ 0 52.2	1.928	2.718	15.8	22.3

245185 2004 TA_{247} 4 1.7 237°.87 5°.0/27.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.89	+ 5 23.9	1.764	2.644	12.1	20.9
3 12	13 2.90	+ 6 47.5	1.689	2.629	8.7	20.6
3 22	12 54.83	+ 8 14.0	1.639	2.614	5.7	20.4
4 1	12 45.46	+ 9 34.8	1.617	2.598	5.4	20.4
4 11	12 35.89	+10 40.9	1.623	2.580	8.3	20.5
4 21	12 27.19	+11 26.1	1.654	2.562	12.0	20.7
5 1	12 20.28	+11 47.2	1.708	2.544	15.5	20.8
5 11	12 15.77	+11 44.2	1.781	2.524	18.5	21.0

272661 2005 WZ_{182} 4 1.7 143°.44 0°.4/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.21	−10 6.9	2.138	2.987	11.6	20.9
3 12	12 59.87	− 9 2.3	2.070	2.996	8.3	20.7
3 22	12 53.01	− 7 43.9	2.028	3.005	4.5	20.5
4 1	12 45.33	− 6 17.0	2.015	3.013	0.6	20.2
4 11	12 37.67	− 4 48.3	2.031	3.021	3.6	20.5
4 21	12 30.81	− 3 24.8	2.076	3.029	7.3	20.7
5 1	12 25.41	− 2 12.6	2.148	3.036	10.7	20.9
5 11	12 21.89	− 1 15.5	2.243	3.042	13.6	21.2

388262 2006 QS_{48} 4 1.7 194°.56 1°.0/ 3.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.42	− 9 52.6	3.218	4.049	8.6	21.5
3 12	13 0.38	− 9 45.1	3.131	4.046	6.2	21.3
3 22	12 53.20	− 9 29.7	3.071	4.042	3.6	21.1
4 1	12 45.36	− 9 8.2	3.041	4.038	1.2	20.9
4 11	12 37.43	− 8 43.3	3.043	4.033	2.5	21.0
4 21	12 29.99	− 8 17.9	3.075	4.028	5.2	21.2
5 1	12 23.55	− 7 55.1	3.136	4.022	7.8	21.4
5 11	12 18.48	− 7 37.4	3.221	4.015	10.0	21.5

257569 1998 YU_{15} 4 1.7 35°.36 3°.6/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.40	+ 0 33.9	1.320	2.213	14.5	19.9
3 12	13 0.57	+ 1 40.7	1.276	2.225	10.0	19.7
3 22	12 53.55	+ 2 53.4	1.254	2.237	5.5	19.5
4 1	12 45.37	+ 4 2.4	1.258	2.251	3.8	19.4
4 11	12 37.33	+ 4 58.6	1.287	2.265	7.4	19.7
4 21	12 30.57	+ 5 35.4	1.340	2.279	11.7	19.9
5 1	12 25.96	+ 5 49.7	1.414	2.294	15.6	20.2
5 11	12 23.95	+ 5 41.5	1.506	2.310	18.9	20.5

498044 2007 LY_{19} 4 1.7 115°.62 1°.1/31.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.63	− 4 46.0	1.892	2.762	11.9	21.3
3 12	12 59.64	− 3 46.7	1.826	2.765	8.3	21.1
3 22	12 52.97	− 2 37.1	1.786	2.768	4.3	20.9
4 1	12 45.34	− 1 23.4	1.773	2.771	1.2	20.6
4 11	12 37.70	− 0 12.8	1.788	2.774	4.7	20.9
4 21	12 30.91	+ 0 48.3	1.831	2.777	8.7	21.1
5 1	12 25.70	+ 1 34.8	1.899	2.780	12.2	21.3
5 11	12 22.54	+ 2 4.0	1.987	2.782	15.2	21.6

34927 6189 *P–L* 4 1.7 216°.71 1°.0/ 2.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.33	−10 1.5	1.736	2.588	13.7	20.5
3 12	13 3.25	− 9 30.6	1.655	2.581	10.0	20.2
3 22	12 55.03	− 8 43.8	1.598	2.574	5.6	19.9
4 1	12 45.49	− 7 45.0	1.567	2.566	1.3	19.6
4 11	12 35.76	− 6 40.9	1.565	2.557	4.2	19.8
4 21	12 26.94	− 5 38.8	1.591	2.547	8.8	20.0
5 1	12 19.98	− 4 45.7	1.641	2.537	13.0	20.3
5 11	12 15.48	− 4 6.9	1.712	2.526	16.5	20.5

155581 1999 YN_{2} 4 1.7 166°.66 5°.0/28.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.22	+ 3 49.0	1.383	2.272	14.2	20.3
3 12	13 3.34	+ 5 5.3	1.328	2.273	10.1	20.0
3 22	12 55.09	+ 6 24.8	1.295	2.275	6.2	19.8
4 1	12 45.49	+ 7 37.5	1.289	2.276	5.3	19.8
4 11	12 35.89	+ 8 33.5	1.309	2.277	8.6	20.0
4 21	12 27.54	+ 9 6.7	1.352	2.277	12.9	20.2
5 1	12 21.42	+ 9 14.3	1.417	2.278	16.8	20.4
5 11	12 18.08	+ 8 57.3	1.499	2.278	20.1	20.7

322407 2011 SC_{36} 4 1.7 251°.28 1°.2/31.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.16	− 2 50.3	2.394	3.260	9.9	21.5
3 12	12 59.09	− 2 14.2	2.316	3.253	6.9	21.3
3 22	12 52.62	− 1 31.9	2.264	3.246	3.6	21.1
4 1	12 45.33	− 0 47.3	2.242	3.239	1.2	20.9
4 11	12 37.96	− 0 5.3	2.248	3.233	4.0	21.1
4 21	12 31.21	+ 0 29.9	2.283	3.226	7.4	21.3
5 1	12 25.72	+ 0 54.8	2.344	3.218	10.5	21.5
5 11	12 21.92	+ 1 7.2	2.426	3.211	13.1	21.6

331528 2000 SY_{95} 4 1.7 239°.67 0°.8/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.42	−10 6.4	2.307	3.150	11.1	22.2
3 12	13 0.84	− 9 29.3	2.211	3.133	8.0	22.0
3 22	12 53.63	− 8 39.2	2.141	3.116	4.6	21.7
4 1	12 45.41	− 7 39.4	2.099	3.098	1.0	21.4
4 11	12 36.98	− 6 34.9	2.088	3.079	3.4	21.6
4 21	12 29.17	− 5 31.5	2.105	3.059	7.2	21.8
5 1	12 22.69	− 4 34.9	2.150	3.039	10.6	21.9
5 11	12 18.07	− 3 49.5	2.217	3.018	13.7	22.1

138788 2000 SQ_{359} 4 1.7 184°.43 4°.3/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 3.51	−22 32.0	2.531	3.318	11.9	20.2
3 12	12 58.67	−22 15.3	2.445	3.318	9.6	20.1
3 22	12 52.40	−21 39.9	2.382	3.318	7.0	19.9
4 1	12 45.32	−20 47.1	2.347	3.318	4.8	19.8
4 11	12 38.17	−19 40.3	2.339	3.317	4.5	19.7
4 21	12 31.66	−18 25.0	2.360	3.317	6.3	19.9
5 1	12 26.43	−17 7.4	2.408	3.316	8.9	20.0
5 11	12 22.91	−15 53.5	2.481	3.315	11.4	20.2

1522 Kokkola 4 1.7 91°.10 3°.0/30.4 18

3 2	13 9.75	+ 0 29.5	1.478	2.359	13.9	15.9
3 12	13 3.54	+ 1 13.2	1.423	2.367	9.7	15.7
3 22	12 55.12	+ 2 2.2	1.393	2.375	5.3	15.5
4 1	12 45.50	+ 2 49.2	1.389	2.383	3.1	15.3
4 11	12 35.95	+ 3 26.6	1.412	2.391	6.6	15.6
4 21	12 27.62	+ 3 48.9	1.460	2.399	10.9	15.8
5 1	12 21.43	+ 3 53.2	1.530	2.407	14.9	16.1
5 11	12 17.88	+ 3 39.0	1.620	2.415	18.1	16.3

437401 2013 WK_{67} 4 1.7 57°.81 0°.7/ 2.3 18

3 2	13 16.08	− 6 1.3	1.889	2.737	13.0	20.7
3 12	13 7.40	− 6 29.2	1.847	2.772	9.2	20.6
3 22	12 56.92	− 6 48.7	1.831	2.808	5.0	20.4
4 1	12 45.62	− 7 1.7	1.844	2.843	0.9	20.1
4 11	12 34.62	− 7 11.2	1.888	2.878	3.8	20.4
4 21	12 24.87	− 7 20.3	1.960	2.913	7.7	20.7
5 1	12 17.12	− 7 32.2	2.059	2.947	11.1	21.0
5 11	12 11.76	− 7 49.2	2.181	2.982	13.9	21.3

265787 2005 WA_{126} 4 1.7 241°.49 1°.0/31.8 17

3 2	13 7.14	− 4 8.8	1.895	2.762	12.0	21.1
3 12	13 1.52	− 3 32.8	1.817	2.754	8.5	20.9
3 22	12 54.04	− 2 47.6	1.764	2.746	4.4	20.6
4 1	12 45.44	− 1 58.0	1.739	2.738	1.0	20.3
4 11	12 36.70	− 1 10.1	1.742	2.729	4.6	20.6
4 21	12 28.77	− 0 29.8	1.773	2.720	8.8	20.8
5 1	12 22.48	− 0 1.6	1.828	2.711	12.5	21.0
5 11	12 18.36	+ 0 11.6	1.904	2.702	15.7	21.2

422383 2014 SH_{264} 4 1.7 125°.59 1°.1/ 2.8 18

3 2	13 8.77	−10 34.0	1.988	2.833	12.5	21.9
3 12	13 2.43	−10 0.3	1.927	2.849	9.0	21.7
3 22	12 54.40	− 9 13.0	1.891	2.866	5.1	21.5
4 1	12 45.47	− 8 16.2	1.883	2.881	1.3	21.3
4 11	12 36.62	− 7 15.8	1.905	2.896	3.6	21.5
4 21	12 28.71	− 6 18.0	1.955	2.910	7.5	21.7
5 1	12 22.48	− 5 28.4	2.031	2.924	11.0	22.0
5 11	12 18.35	− 4 50.9	2.129	2.937	13.9	22.2

392502 2011 OE_{31} 4 1.7 134°.82 0°.1/ 1.6 17

3 2	13 3.06	− 7 33.1	2.359	3.215	10.4	21.5
3 12	12 58.30	− 6 41.2	2.288	3.219	7.3	21.3
3 22	12 52.18	− 5 39.1	2.244	3.224	3.9	21.1
4 1	12 45.32	− 4 31.2	2.228	3.228	0.2	20.7
4 11	12 38.45	− 3 23.1	2.243	3.232	3.4	21.0
4 21	12 32.24	− 2 20.2	2.285	3.235	6.9	21.3
5 1	12 27.31	− 1 27.1	2.354	3.239	10.0	21.5
5 11	12 24.04	− 0 47.1	2.446	3.243	12.7	21.6

510756 2012 XF_{123} 4 1.7 131°.81 5°.8/24.7 18

3 2	13 4.43	+14 41.6	2.590	3.462	9.0	21.6
3 12	12 59.11	+15 53.1	2.547	3.471	7.1	21.5
3 22	12 52.55	+16 58.0	2.531	3.479	5.9	21.4
4 1	12 45.35	+17 50.5	2.543	3.488	6.3	21.4
4 11	12 38.20	+18 26.2	2.583	3.496	7.9	21.5
4 21	12 31.75	+18 43.2	2.648	3.504	9.9	21.7
5 1	12 26.54	+18 41.0	2.736	3.512	11.9	21.8
5 11	12 22.92	+18 21.1	2.843	3.519	13.6	22.0

470019 2006 RS_{52} 4 1.7 219°.29 1°.2/31.6 17

3 2	13 7.85	− 1 27.3	2.408	3.270	10.0	21.6
3 12	13 1.67	− 1 15.8	2.332	3.267	7.0	21.4
3 22	12 53.99	− 1 0.2	2.282	3.263	3.7	21.2
4 1	12 45.45	− 0 43.6	2.261	3.259	1.2	21.0
4 11	12 36.84	− 0 29.9	2.270	3.254	4.0	21.2
4 21	12 28.91	− 0 22.1	2.308	3.250	7.3	21.4
5 1	12 22.31	− 0 22.9	2.373	3.245	10.4	21.6
5 11	12 17.50	− 0 33.6	2.459	3.241	13.0	21.8

337101 1999 FZ_{64} 4 1.7 128°.72 0°.2/ 1.9 17

3 2	13 3.78	− 8 39.2	2.393	3.244	10.5	21.4
3 12	12 58.76	− 7 47.6	2.326	3.254	7.4	21.2
3 22	12 52.41	− 6 45.3	2.285	3.263	4.0	21.0
4 1	12 45.35	− 5 36.5	2.273	3.272	0.4	20.7
4 11	12 38.30	− 4 26.9	2.291	3.281	3.3	21.0
4 21	12 31.94	− 3 21.7	2.338	3.289	6.7	21.2
5 1	12 26.86	− 2 25.9	2.412	3.298	9.8	21.4
5 11	12 23.45	− 1 42.5	2.508	3.305	12.4	21.6

79143 1992 BQ_2 4 1.7 28°.56 2°.2/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 5.80	−12 48.9	1.483	2.340	15.4	17.9
3 12	13 0.91	−12 21.1	1.417	2.343	11.4	17.7
3 22	12 53.82	−11 33.1	1.372	2.346	6.8	17.4
4 1	12 45.45	−10 29.0	1.353	2.350	2.6	17.2
4 11	12 37.02	− 9 16.5	1.361	2.353	4.4	17.3
4 21	12 29.68	− 8 4.4	1.394	2.358	9.0	17.6
5 1	12 24.37	− 7 1.2	1.451	2.362	13.3	17.8
5 11	12 21.65	− 6 13.0	1.527	2.367	17.0	18.1

19040 4875 P–L 4 1.7 57°.49 1°.8/31.5 18 R

3 2	13 9.77	− 2 45.4	1.267	2.150	15.6	17.9
3 12	13 3.70	− 2 9.0	1.223	2.168	10.9	17.7
3 22	12 55.24	− 1 23.3	1.201	2.185	5.6	17.4
4 1	12 45.54	− 0 35.7	1.205	2.203	1.8	17.2
4 11	12 36.05	+ 0 5.4	1.234	2.221	6.1	17.6
4 21	12 28.03	+ 0 33.6	1.288	2.239	11.0	17.9
5 1	12 22.41	+ 0 44.7	1.364	2.258	15.2	18.2
5 11	12 19.63	+ 0 37.5	1.458	2.276	18.7	18.5

22770 1999 BR_{14} 4 1.7 340°.52 4°.5/29.7 18

3 2	13 9.59	+ 3 20.9	1.277	2.168	15.0	17.7
3 12	13 3.83	+ 4 4.0	1.217	2.164	10.6	17.5
3 22	12 55.47	+ 4 50.1	1.180	2.161	6.2	17.2
4 1	12 45.58	+ 5 30.3	1.167	2.158	4.6	17.1
4 11	12 35.61	+ 5 56.3	1.180	2.156	8.2	17.3
4 21	12 26.94	+ 6 2.5	1.216	2.154	12.8	17.5
5 1	12 20.67	+ 5 46.7	1.273	2.152	17.1	17.8
5 11	12 17.38	+ 5 9.5	1.347	2.151	20.7	18.0

32369 2000 QQ_{149} 4 1.7 178°.83 0°.7/31.9 18

3 2	13 6.87	− 3 1.7	2.487	3.346	9.8	18.4
3 12	13 0.92	− 2 49.8	2.413	3.347	6.9	18.2
3 22	12 53.58	− 2 32.8	2.366	3.347	3.6	18.0
4 1	12 45.44	− 2 13.7	2.348	3.347	0.7	17.8
4 11	12 37.26	− 1 56.1	2.361	3.347	3.6	18.0
4 21	12 29.74	− 1 43.3	2.402	3.347	6.9	18.2
5 1	12 23.50	− 1 38.1	2.469	3.347	9.9	18.4
5 11	12 18.96	− 1 42.1	2.560	3.346	12.4	18.6

308164 2005 BM_{17} 4 1.7 47°.56 0°.2/ 1.9 16

3 2	13 7.40	− 7 55.7	1.279	2.155	16.1	21.0
3 12	13 2.14	− 7 20.7	1.228	2.167	11.4	20.7
3 22	12 54.48	− 6 29.4	1.198	2.179	6.1	20.5
4 1	12 45.52	− 5 28.1	1.192	2.191	0.6	20.1
4 11	12 36.64	− 4 26.0	1.212	2.204	5.0	20.5
4 21	12 29.10	− 3 31.8	1.257	2.217	10.2	20.8
5 1	12 23.87	− 2 52.1	1.325	2.231	14.7	21.1
5 11	12 21.45	− 2 30.9	1.411	2.245	18.4	21.4

231244 2005 YW_{63} 4 1.7 125°.77 1°.4/31.3 18

3 2	13 7.41	− 2 44.4	2.152	3.016	10.9	21.3
3 12	13 1.37	− 2 0.2	2.094	3.031	7.6	21.2
3 22	12 53.82	− 1 9.7	2.063	3.045	3.9	21.0
4 1	12 45.48	− 0 17.8	2.061	3.058	1.4	20.8
4 11	12 37.20	+ 0 30.1	2.088	3.071	4.4	21.0
4 21	12 29.78	+ 1 9.1	2.144	3.084	7.9	21.3
5 1	12 23.85	+ 1 35.9	2.225	3.096	11.1	21.5
5 11	12 19.83	+ 1 48.8	2.327	3.107	13.7	21.7

319794 2006 VW_3 4 1.7 242°.46 0°.7/ 2.4 17

3 2	13 8.47	− 8 45.9	1.930	2.782	12.5	21.6
3 12	13 2.56	− 8 19.7	1.840	2.768	9.1	21.3
3 22	12 54.68	− 7 40.3	1.776	2.753	5.1	21.1
4 1	12 45.55	− 6 51.2	1.739	2.737	0.9	20.7
4 11	12 36.18	− 5 57.9	1.730	2.721	4.0	20.9
4 21	12 27.56	− 5 6.7	1.750	2.704	8.3	21.2
5 1	12 20.57	− 4 23.5	1.795	2.687	12.2	21.4
5 11	12 15.82	− 3 52.8	1.861	2.669	15.6	21.5

120611 1995 WB_{17} 4 1.7 96°.28 1°.1/ 2.8 17

3 2	13 6.72	− 9 45.2	1.890	2.743	12.7	20.6
3 12	13 1.16	− 9 23.7	1.822	2.749	9.2	20.4
3 22	12 53.83	− 8 49.0	1.779	2.755	5.2	20.2
4 1	12 45.49	− 8 4.8	1.763	2.761	1.3	19.9
4 11	12 37.12	− 7 16.5	1.775	2.767	3.7	20.1
4 21	12 29.65	− 6 30.1	1.815	2.773	7.8	20.4
5 1	12 23.84	− 5 51.1	1.880	2.779	11.4	20.6
5 11	12 20.17	− 5 23.5	1.967	2.785	14.5	20.8

390213 2012 XR_{23} 4 1.7 122°.32 2°.0/30.3 17

3 2	13 5.08	+ 0 34.0	2.493	3.362	9.4	21.6
3 12	12 59.61	+ 1 13.7	2.433	3.372	6.5	21.5
3 22	12 52.85	+ 1 56.4	2.401	3.382	3.5	21.3
4 1	12 45.42	+ 2 37.9	2.397	3.391	2.1	21.2
4 11	12 38.01	+ 3 13.7	2.424	3.400	4.5	21.4
4 21	12 31.30	+ 3 40.2	2.478	3.409	7.5	21.6
5 1	12 25.84	+ 3 55.2	2.558	3.418	10.2	21.8
5 11	12 22.01	+ 3 57.4	2.660	3.427	12.5	21.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
229937 1998 RZ_6		4 1.8 201°.79 1°.4/31.2 17				
	h m	° ′			°	m
3 2	13 4.67	− 3 24.4	2.137	3.005	10.8	20.7
3 12	12 59.58	− 2 28.6	2.065	3.003	7.5	20.5
3 22	12 52.95	− 1 24.6	2.019	3.001	3.9	20.3
4 1	12 45.43	− 0 17.7	2.001	2.998	1.4	20.1
4 11	12 37.86	+ 0 45.7	2.013	2.996	4.5	20.3
4 21	12 31.02	+ 1 40.1	2.052	2.993	8.2	20.5
5 1	12 25.58	+ 2 21.1	2.117	2.990	11.5	20.7
5 11	12 22.02	+ 2 46.5	2.202	2.987	14.3	20.9
181069 2005 QF_{15}		4 1.8 227°.96 4°.0/ 6.3 17				
3 2	13 6.87	−19 47.2	2.720	3.513	11.0	20.6
3 12	13 1.03	−20 2.6	2.626	3.505	8.8	20.4
3 22	12 53.72	−20 3.6	2.556	3.496	6.3	20.2
4 1	12 45.49	−19 50.4	2.513	3.487	4.3	20.1
4 11	12 37.09	−19 24.9	2.500	3.478	4.3	20.1
4 21	12 29.23	−18 50.8	2.516	3.468	6.2	20.2
5 1	12 22.58	−18 12.5	2.559	3.459	8.8	20.3
5 11	12 17.62	−17 35.0	2.626	3.449	11.2	20.5
305616 2009 AM_{10}		4 1.8 227°.02 2°.4/30.8 17				
3 2	13 8.62	− 1 32.4	1.496	2.376	13.9	21.0
3 12	13 2.90	− 0 40.1	1.429	2.373	9.7	20.8
3 22	12 54.91	+ 0 21.1	1.387	2.370	5.2	20.5
4 1	12 45.58	+ 1 23.8	1.370	2.366	2.5	20.3
4 11	12 36.14	+ 2 19.5	1.380	2.362	6.3	20.6
4 21	12 27.79	+ 3 1.2	1.416	2.359	10.9	20.8
5 1	12 21.51	+ 3 24.2	1.474	2.355	15.1	21.0
5 11	12 17.87	+ 3 26.7	1.551	2.351	18.6	21.3
460788 2014 WD_{30}		4 1.8 148°.71 4°.1/28.9 18				
3 2	13 8.73	+ 4 21.8	1.803	2.682	12.0	21.0
3 12	13 2.57	+ 5 21.9	1.747	2.688	8.4	20.8
3 22	12 54.56	+ 6 23.2	1.716	2.694	5.2	20.7
4 1	12 45.55	+ 7 18.5	1.713	2.699	4.4	20.6
4 11	12 36.57	+ 8 0.9	1.738	2.704	7.1	20.8
4 21	12 28.60	+ 8 26.0	1.789	2.708	10.6	21.0
5 1	12 22.40	+ 8 31.8	1.863	2.712	13.9	21.2
5 11	12 18.46	+ 8 18.5	1.957	2.716	16.6	21.4
480789 2016 PJ_{30}		4 1.8 239°.26 3°.1/29.4 17				
3 2	13 6.41	+ 4 39.7	2.475	3.347	9.4	21.0
3 12	13 0.63	+ 5 10.6	2.403	3.340	6.6	20.8
3 22	12 53.46	+ 5 41.8	2.357	3.334	4.0	20.6
4 1	12 45.48	+ 6 8.9	2.340	3.327	3.2	20.6
4 11	12 37.45	+ 6 27.8	2.353	3.320	5.3	20.7
4 21	12 30.06	+ 6 35.4	2.393	3.313	8.2	20.9
5 1	12 23.95	+ 6 30.2	2.459	3.306	11.0	21.0
5 11	12 19.54	+ 6 11.6	2.546	3.299	13.3	21.2
392403 2010 LR_{15}		4 1.8 202°.52 5°.2/25.0 18				
3 2	13 2.72	+10 22.2	2.525	3.404	9.0	20.9
3 12	12 58.05	+12 3.0	2.467	3.401	6.7	20.7
3 22	12 52.08	+13 41.5	2.438	3.398	5.3	20.6
4 1	12 45.39	+15 10.6	2.438	3.395	5.7	20.6
4 11	12 38.65	+16 24.4	2.466	3.392	7.6	20.8
4 21	12 32.53	+17 19.0	2.520	3.388	10.0	20.9
5 1	12 27.59	+17 52.6	2.598	3.384	12.2	21.1
5 11	12 24.23	+18 5.5	2.695	3.380	14.1	21.2
151848 2003 GD_{26}		4 1.8 206°.25 0°.2/ 1.9 18				
3 2	13 7.60	− 7 19.0	2.011	2.867	11.9	20.4
3 12	13 1.77	− 6 54.3	1.934	2.864	8.5	20.2
3 22	12 54.18	− 6 18.7	1.882	2.861	4.6	20.0
4 1	12 45.54	− 5 36.0	1.858	2.857	0.5	19.6
4 11	12 36.80	− 4 51.5	1.863	2.853	3.8	19.9
4 21	12 28.85	− 4 10.6	1.895	2.849	7.9	20.1
5 1	12 22.47	− 3 38.2	1.954	2.844	11.5	20.3
5 11	12 18.18	− 3 17.7	2.034	2.839	14.6	20.5
408101 2013 AM_{82}		4 1.8 339°.15 2°.1/ 3.1 14 C				
3 2	13 4.68	− 9 59.6	1.005	1.891	18.5	20.9
3 12	13 1.07	−10 3.2	0.935	1.878	13.7	20.6
3 22	12 54.35	− 9 45.5	0.885	1.865	8.0	20.3
4 1	12 45.57	− 9 9.5	0.856	1.853	2.5	19.9
4 11	12 36.38	− 8 23.2	0.849	1.843	5.7	20.0
4 21	12 28.48	− 7 36.6	0.863	1.835	11.8	20.3
5 1	12 23.33	− 6 59.9	0.898	1.827	17.4	20.6
5 11	12 21.71	− 6 40.4	0.948	1.822	22.2	20.9
84069 2002 PL_{138}		4 1.8 110°.84 5°.1/ 6.7 18				
3 2	13 7.60	−24 24.4	1.159	1.982	21.0	19.0
3 12	13 2.62	−22 46.4	1.095	1.994	16.5	18.8
3 22	12 54.87	−20 22.3	1.050	2.005	11.3	18.5
4 1	12 45.59	−17 18.5	1.029	2.016	6.3	18.3
4 11	12 36.43	−13 51.5	1.035	2.027	5.8	18.3
4 21	12 28.87	−10 23.0	1.068	2.037	10.4	18.5
5 1	12 23.97	− 7 13.7	1.125	2.046	15.4	18.9
5 11	12 22.22	− 4 37.0	1.203	2.056	19.8	19.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V
116864 2004 FG_{93}		4 1.8 310°.65 2°.8/29.9 17				
	h m	° ′			°	m
3 2	13 4.19	+ 1 13.8	1.979	2.858	11.0	19.4
3 12	12 59.42	+ 2 2.2	1.902	2.845	7.7	19.2
3 22	12 52.95	+ 2 55.2	1.850	2.832	4.3	19.0
4 1	12 45.46	+ 3 47.0	1.827	2.819	3.0	18.9
4 11	12 37.84	+ 4 31.4	1.831	2.807	5.8	19.0
4 21	12 30.95	+ 5 3.3	1.861	2.794	9.4	19.2
5 1	12 25.54	+ 5 19.3	1.916	2.782	12.8	19.4
5 11	12 22.13	+ 5 18.1	1.990	2.770	15.7	19.6
195561 2002 JR_{73}		4 1.8 348°.37 0°.4/ 1.4 17				
3 2	12 59.13	− 8 57.0	1.325	2.208	15.1	19.1
3 12	12 56.43	− 7 35.8	1.254	2.198	10.7	18.8
3 22	12 51.56	− 5 52.6	1.205	2.189	5.7	18.5
4 1	12 45.37	− 3 55.7	1.182	2.181	0.5	18.1
4 11	12 39.03	− 1 57.4	1.184	2.174	5.4	18.4
4 21	12 33.70	− 0 10.0	1.210	2.169	10.6	18.7
5 1	12 30.34	+ 1 16.3	1.259	2.165	15.3	18.9
5 11	12 29.51	+ 2 16.2	1.326	2.163	19.2	19.2
353910 2012 XH_{116}		4 1.8 104°.52 3°.0/ 4.1 18				
3 2	13 10.48	−14 15.4	1.401	2.249	16.6	21.4
3 12	13 4.28	−14 0.6	1.341	2.261	12.4	21.1
3 22	12 55.66	−13 23.9	1.303	2.273	7.7	20.9
4 1	12 45.66	−12 28.6	1.290	2.284	3.5	20.7
4 11	12 35.69	−11 22.2	1.304	2.295	4.8	20.8
4 21	12 27.03	−10 13.8	1.343	2.306	9.3	21.1
5 1	12 20.69	− 9 12.4	1.406	2.317	13.7	21.4
5 11	12 17.21	− 8 24.7	1.489	2.327	17.4	21.6
336410 2008 UG_{178}		4 1.8 184°.38 0°.9/ 2.9 17				
3 2	13 5.96	−10 23.2	2.635	3.473	10.0	22.2
3 12	13 0.29	− 9 54.1	2.554	3.473	7.3	22.0
3 22	12 53.28	− 9 14.3	2.500	3.473	4.2	21.8
4 1	12 45.50	− 8 26.7	2.474	3.472	1.2	21.5
4 11	12 37.66	− 7 35.4	2.480	3.470	2.9	21.7
4 21	12 30.43	− 6 45.0	2.514	3.468	6.1	21.9
5 1	12 24.41	− 5 59.8	2.576	3.465	9.1	22.1
5 11	12 20.01	− 5 23.4	2.662	3.462	11.7	22.2
15291 1991 VO_1		4 1.8 111°.26 3°.8/29.6 18				
3 2	13 9.79	+ 1 29.1	1.467	2.350	13.9	17.6
3 12	13 3.56	+ 2 38.7	1.419	2.363	9.7	17.4
3 22	12 55.17	+ 3 53.0	1.394	2.375	5.5	17.1
4 1	12 45.63	+ 5 2.9	1.396	2.387	4.0	17.1
4 11	12 36.22	+ 5 59.7	1.425	2.399	7.3	17.3
4 21	12 28.07	+ 6 37.4	1.479	2.410	11.5	17.6
5 1	12 22.06	+ 6 53.0	1.556	2.421	15.3	17.8
5 11	12 18.67	+ 6 46.9	1.650	2.432	18.4	18.1
260016 2004 FL_{148}		4 1.8 35°.05 12°.3/24.9 17				
3 2	13 15.27	+23 54.0	1.340	2.207	16.1	20.0
3 12	13 7.51	+24 45.2	1.310	2.217	13.7	19.9
3 22	12 57.22	+25 12.5	1.301	2.227	12.4	19.9
4 1	12 45.77	+25 6.7	1.315	2.239	12.8	19.9
4 11	12 34.75	+24 23.9	1.351	2.250	14.6	20.0
4 21	12 25.51	+23 6.9	1.409	2.263	17.1	20.2
5 1	12 18.95	+21 21.8	1.486	2.276	19.6	20.4
5 11	12 15.44	+19 16.4	1.578	2.289	21.7	20.6
186177 2001 UH_{175}		4 1.8 225°.14 0°.2/ 1.5 18				
3 2	13 5.46	− 7 57.3	2.054	2.911	11.7	20.8
3 12	13 0.28	− 6 54.7	1.971	2.902	8.3	20.6
3 22	12 53.40	− 5 38.6	1.913	2.893	4.4	20.3
4 1	12 45.52	− 4 14.0	1.884	2.883	0.3	19.9
4 11	12 37.50	− 2 48.3	1.884	2.873	4.0	20.2
4 21	12 30.21	− 1 28.4	1.913	2.862	8.1	20.5
5 1	12 24.40	− 0 20.8	1.968	2.851	11.7	20.7
5 11	12 20.58	+ 0 30.6	2.044	2.840	14.8	20.8
371948 2008 EW_{166}		4 1.8 332°.28 3°.0/29.8 17				
3 2	13 1.83	− 2 54.3	1.417	2.306	13.9	19.8
3 12	12 58.22	− 1 11.5	1.348	2.297	9.6	19.5
3 22	12 52.48	+ 0 45.9	1.303	2.288	5.1	19.2
4 1	12 45.45	+ 2 47.4	1.285	2.279	3.2	19.1
4 11	12 38.28	+ 4 40.5	1.292	2.271	7.2	19.3
4 21	12 32.10	+ 6 14.4	1.325	2.264	11.9	19.5
5 1	12 27.83	+ 7 22.0	1.379	2.257	16.1	19.7
5 11	12 26.07	+ 8 0.8	1.451	2.252	19.6	20.0
384800 2012 QV_{28}		4 1.8 297°.97 5°.4/ 6.6 17				
3 2	13 7.09	−20 34.3	1.922	2.730	14.4	20.5
3 12	13 1.70	−20 54.7	1.835	2.722	11.5	20.3
3 22	12 54.28	−20 54.9	1.771	2.714	8.4	20.1
4 1	12 45.58	−20 34.5	1.732	2.706	5.9	19.9
4 11	12 36.64	−19 56.4	1.719	2.699	5.7	19.9
4 21	12 28.48	−19 5.9	1.734	2.691	8.1	20.0
5 1	12 22.02	−18 10.3	1.773	2.684	11.4	20.2
5 11	12 17.87	−17 17.0	1.834	2.676	14.5	20.4

173685 2001 OP_{106} 4 1.8 212°.25 3°.6/ 6.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 5.99	−20 7.0	2.961	3.749	10.3	21.3
3 12	13 0.32	−20 6.3	2.864	3.741	8.2	21.1
3 22	12 53.32	−19 51.2	2.792	3.733	5.9	21.0
4 1	12 45.52	−19 22.5	2.749	3.723	3.9	20.8
4 11	12 37.58	−18 42.7	2.735	3.714	3.9	20.8
4 21	12 30.15	−17 55.3	2.750	3.703	5.7	20.9
5 1	12 23.82	−17 5.0	2.794	3.693	8.1	21.0
5 11	12 19.03	−16 16.5	2.862	3.681	10.4	21.2

173317 1999 VL_{56} 4 1.8 186°.39 1°.1/31.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.17	− 3 49.1	2.094	2.955	11.4	21.0
3 12	13 2.79	− 3 8.7	2.021	2.955	7.9	20.7
3 22	12 54.69	− 2 20.1	1.973	2.954	4.1	20.5
4 1	12 45.61	− 1 28.2	1.954	2.952	1.1	20.3
4 11	12 36.47	− 0 38.7	1.965	2.950	4.4	20.5
4 21	12 28.13	+ 0 3.3	2.005	2.947	8.2	20.7
5 1	12 21.35	+ 0 33.5	2.070	2.943	11.7	20.9
5 11	12 16.61	+ 0 49.6	2.156	2.939	14.6	21.1

177125 2003 HV_{10} 4 1.8 305°.55 0°.9/ 2.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.20	− 8 9.8	2.088	2.942	11.6	19.6
3 12	13 0.89	− 8 7.1	1.995	2.923	8.4	19.3
3 22	12 53.79	− 7 54.2	1.927	2.904	4.8	19.0
4 1	12 45.56	− 7 33.5	1.886	2.885	1.1	18.7
4 11	12 37.06	− 7 9.0	1.874	2.866	3.6	18.9
4 21	12 29.21	− 6 45.0	1.890	2.847	7.6	19.1
5 1	12 22.80	− 6 26.2	1.931	2.829	11.2	19.3
5 11	12 18.41	− 6 16.2	1.994	2.810	14.4	19.5

174706 2003 US_{102} 4 1.8 101°.47 0°.6/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.36	− 6 42.1	1.672	2.537	13.5	20.9
3 12	13 2.34	− 5 43.4	1.621	2.556	9.4	20.7
3 22	12 54.45	− 4 32.5	1.594	2.575	4.9	20.5
4 1	12 45.59	− 3 15.9	1.595	2.594	0.6	20.2
4 11	12 36.87	− 2 1.9	1.624	2.612	4.6	20.5
4 21	12 29.28	− 0 57.6	1.680	2.630	9.0	20.8
5 1	12 23.58	− 0 8.5	1.761	2.647	12.7	21.1
5 11	12 20.19	+ 0 22.6	1.862	2.664	15.8	21.3

64149 2001 TC_{41} 4 1.8 207°.91 1°.9/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.79	−11 48.5	1.801	2.643	13.8	19.2
3 12	13 4.30	−11 35.4	1.719	2.638	10.2	18.9
3 22	12 55.66	−11 6.4	1.661	2.632	6.1	18.7
4 1	12 45.70	−10 24.1	1.630	2.626	2.3	18.4
4 11	12 35.54	− 9 33.7	1.627	2.618	4.1	18.5
4 21	12 26.28	− 8 41.9	1.652	2.610	8.4	18.8
5 1	12 18.86	− 7 55.4	1.703	2.602	12.4	19.0
5 11	12 13.90	− 7 19.5	1.774	2.592	15.9	19.2

262845 2007 BL_{12} 4 1.8 130°.06 0°.4/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.08	− 5 52.5	1.896	2.758	12.3	21.7
3 12	13 2.09	− 5 19.2	1.833	2.766	8.7	21.5
3 22	12 54.33	− 4 35.9	1.794	2.775	4.6	21.3
4 1	12 45.60	− 3 47.2	1.784	2.783	0.4	21.0
4 11	12 36.88	− 2 59.3	1.802	2.791	4.2	21.3
4 21	12 29.09	− 2 17.5	1.848	2.798	8.2	21.5
5 1	12 22.98	− 1 46.6	1.919	2.805	11.8	21.8
5 11	12 19.03	− 1 29.4	2.011	2.812	14.9	22.0

428529 2008 AO_{93} 4 1.8 277°.47 8°.2/21.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.69	+20 39.9	2.296	3.161	10.3	20.9
3 12	12 59.62	+22 8.2	2.242	3.149	8.8	20.7
3 22	12 53.01	+23 26.0	2.213	3.136	8.2	20.7
4 1	12 45.51	+24 25.7	2.211	3.123	8.9	20.7
4 11	12 37.94	+25 2.1	2.235	3.111	10.6	20.8
4 21	12 31.11	+25 13.0	2.281	3.098	12.6	20.9
5 1	12 25.68	+24 58.6	2.347	3.085	14.6	21.0
5 11	12 22.10	+24 21.5	2.430	3.072	16.4	21.1

127541 2002 XZ_{65} 4 1.8 31°.90 14°.4/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 22.21	−27 20.5	1.093	1.888	23.8	18.7
3 12	13 14.24	−30 2.2	1.030	1.890	20.5	18.5
3 22	13 1.84	−32 14.2	0.984	1.893	17.2	18.3
4 1	12 46.19	−33 43.3	0.960	1.896	14.9	18.1
4 11	12 29.59	−34 23.0	0.957	1.899	14.5	18.1
4 21	12 14.61	−34 16.7	0.975	1.902	16.3	18.2
5 1	12 3.42	−33 37.6	1.012	1.906	19.3	18.4
5 11	11 57.11	−32 43.1	1.065	1.910	22.4	18.6

427452 2001 SD_{15} 4 1.8 96°.08 5°.0/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 19.40	−18 28.2	2.046	2.839	14.2	21.4
3 12	13 9.98	−19 21.2	1.987	2.868	11.1	21.3
3 22	12 58.51	−19 56.7	1.954	2.896	7.8	21.1
4 1	12 45.92	−20 13.4	1.950	2.924	5.3	21.0
4 11	12 33.40	−20 13.4	1.975	2.951	5.4	21.1
4 21	12 22.04	−20 0.8	2.030	2.977	7.9	21.3
5 1	12 12.73	−19 41.6	2.113	3.003	10.8	21.5
5 11	12 5.95	−19 21.9	2.219	3.027	13.4	21.7

496383 2013 TG_{24} 4 1.8 191°.68 1°.7/ 4.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 5.47	−14 44.8	2.563	3.386	10.8	22.3
3 12	13 0.01	−13 53.9	2.476	3.384	8.0	22.1
3 22	12 53.17	−12 47.8	2.416	3.381	4.9	21.9
4 1	12 45.53	−11 29.7	2.384	3.378	2.1	21.7
4 11	12 37.84	−10 4.7	2.383	3.374	3.0	21.7
4 21	12 30.77	− 8 39.0	2.412	3.369	6.2	21.9
5 1	12 24.95	− 7 18.5	2.470	3.364	9.2	22.1
5 11	12 20.79	− 6 8.1	2.551	3.357	11.9	22.3

132163 2002 EM_{9} 4 1.8 276°.95 0°.7/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.05	− 8 23.4	1.603	2.464	14.2	20.4
3 12	13 3.43	− 8 2.2	1.509	2.441	10.3	20.1
3 22	12 55.38	− 7 25.8	1.439	2.417	5.8	19.8
4 1	12 45.71	− 6 37.7	1.394	2.393	1.0	19.4
4 11	12 35.58	− 5 44.3	1.377	2.369	4.6	19.6
4 21	12 26.25	− 4 53.0	1.387	2.344	9.7	19.8
5 1	12 18.84	− 4 11.2	1.420	2.319	14.4	20.0
5 11	12 14.11	− 3 44.2	1.472	2.294	18.4	20.2

335821 2007 JD_{32} 4 1.8 278°.89 2°.7/30.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.20	+ 0 30.5	1.842	2.721	11.8	20.8
3 12	13 0.94	+ 1 19.6	1.768	2.711	8.2	20.6
3 22	12 53.82	+ 2 14.2	1.719	2.701	4.5	20.3
4 1	12 45.58	+ 3 8.1	1.698	2.692	2.9	20.2
4 11	12 37.22	+ 3 54.7	1.704	2.682	5.9	20.4
4 21	12 29.68	+ 4 28.4	1.737	2.672	9.8	20.6
5 1	12 23.78	+ 4 45.6	1.794	2.663	13.4	20.8
5 11	12 20.06	+ 4 44.9	1.870	2.653	16.5	21.0

272841 2006 BG_{18} 4 1.8 53°.01 2°.9/29.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.39	+ 0 10.7	1.733	2.614	12.2	20.7
3 12	13 0.32	+ 1 12.7	1.675	2.619	8.5	20.5
3 22	12 53.44	+ 2 20.5	1.642	2.624	4.6	20.3
4 1	12 45.55	+ 3 26.8	1.636	2.629	3.0	20.2
4 11	12 37.68	+ 4 24.1	1.657	2.634	6.1	20.4
4 21	12 30.76	+ 5 6.6	1.705	2.640	10.0	20.6
5 1	12 25.57	+ 5 30.9	1.776	2.645	13.5	20.8
5 11	12 22.56	+ 5 35.8	1.866	2.651	16.4	21.1

409833 2006 QH_{48} 4 1.8 185°.00 0°.5/ 1.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.01	− 5 19.0	2.038	2.896	11.7	22.0
3 12	13 2.73	− 4 44.0	1.964	2.896	8.3	21.7
3 22	12 54.70	− 3 59.6	1.915	2.896	4.3	21.5
4 1	12 45.65	− 3 10.3	1.896	2.895	0.6	21.2
4 11	12 36.53	− 2 21.7	1.906	2.893	4.1	21.5
4 21	12 28.24	− 1 39.3	1.944	2.891	8.1	21.7
5 1	12 21.54	− 1 7.4	2.008	2.888	11.7	21.9
5 11	12 16.93	− 0 49.0	2.093	2.885	14.7	22.1

507314 2011 QH_{37} 4 1.8 267°.52 1°.1/31.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.01	− 3 29.3	2.295	3.159	10.3	21.9
3 12	12 59.87	− 2 50.8	2.206	3.142	7.2	21.6
3 22	12 53.19	− 2 4.6	2.143	3.124	3.8	21.4
4 1	12 45.55	− 1 14.9	2.109	3.107	1.1	21.1
4 11	12 37.73	− 0 27.0	2.104	3.089	4.1	21.3
4 21	12 30.52	+ 0 14.4	2.127	3.070	7.8	21.5
5 1	12 24.60	+ 0 45.0	2.176	3.052	11.1	21.7
5 11	12 20.47	+ 1 2.3	2.246	3.033	13.9	21.9

109289 2001 QB_{123} 4 1.8 293°.00 4°.8/27.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.28	+ 7 1.7	2.047	2.930	10.6	19.8
3 12	12 59.39	+ 8 13.4	1.984	2.925	7.6	19.6
3 22	12 52.92	+ 9 24.6	1.948	2.920	5.2	19.4
4 1	12 45.53	+10 28.5	1.939	2.916	5.1	19.4
4 11	12 38.11	+11 18.4	1.958	2.911	7.4	19.5
4 21	12 31.44	+11 50.1	2.002	2.906	10.4	19.7
5 1	12 26.24	+12 1.5	2.070	2.902	13.3	19.9
5 11	12 22.96	+11 53.0	2.156	2.897	15.8	20.0

470696 2008 TY_{57} 4 1.8 234°.21 0°.3/ 1.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.85	− 6 53.4	1.978	2.841	11.8	21.7
3 12	12 59.87	− 6 6.3	1.904	2.838	8.4	21.4
3 22	12 53.21	− 5 7.5	1.854	2.835	4.4	21.2
4 1	12 45.56	− 4 2.0	1.833	2.832	0.3	20.9
4 11	12 37.83	− 2 56.2	1.840	2.829	4.0	21.2
4 21	12 30.89	− 1 56.6	1.874	2.825	8.1	21.4
5 1	12 25.46	− 1 8.3	1.934	2.822	11.7	21.6
5 11	12 22.03	− 0 35.0	2.015	2.819	14.7	21.8

459915 2014 MC_{27} 4 1.8 135°.20 9°.3/21.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.63	+20 16.3	1.943	2.806	12.0	21.8
3 12	13 3.80	+22 20.0	1.918	2.824	10.1	21.7
3 22	12 55.19	+24 8.8	1.920	2.841	9.3	21.7
4 1	12 45.70	+25 33.3	1.948	2.857	10.1	21.8
4 11	12 36.37	+26 27.8	2.002	2.872	11.9	21.9
4 21	12 28.16	+26 50.8	2.079	2.887	14.0	22.1
5 1	12 21.79	+26 44.3	2.176	2.900	16.0	22.3
5 11	12 17.68	+26 12.6	2.287	2.912	17.7	22.4

157310 2004 SO_{30} 4 1.8 145°.46 0°.0/ 1.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.02	− 6 40.0	2.033	2.891	11.7	20.5
3 12	13 1.31	− 6 9.4	1.964	2.896	8.3	20.3
3 22	12 53.93	− 5 28.8	1.921	2.901	4.4	20.0
4 1	12 45.61	− 4 42.1	1.906	2.905	0.3	19.7
4 11	12 37.27	− 3 55.0	1.920	2.910	3.8	20.0
4 21	12 29.76	− 3 12.8	1.962	2.914	7.7	20.2
5 1	12 23.80	− 2 39.9	2.029	2.917	11.2	20.5
5 11	12 19.86	− 2 19.5	2.118	2.921	14.2	20.7

496932 2001 UO_{229} 4 1.8 134°.04 0°.1/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.28	− 5 56.9	2.476	3.326	10.2	21.5
3 12	13 1.94	− 5 51.9	2.406	3.334	7.2	21.3
3 22	12 54.18	− 5 39.9	2.364	3.342	3.9	21.1
4 1	12 45.64	− 5 23.5	2.351	3.350	0.4	20.9
4 11	12 37.09	− 5 6.1	2.368	3.357	3.2	21.1
4 21	12 29.25	− 4 51.1	2.414	3.364	6.6	21.3
5 1	12 22.74	− 4 41.5	2.487	3.371	9.6	21.5
5 11	12 17.97	− 4 39.7	2.583	3.378	12.1	21.7

427905 2005 UM_{173} 4 1.8 131°.63 1°.5/ 3.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.09	−12 42.0	2.263	3.097	11.6	22.5
3 12	13 1.18	−12 4.5	2.198	3.112	8.5	22.4
3 22	12 53.79	−11 13.1	2.157	3.127	5.0	22.2
4 1	12 45.61	−10 11.3	2.146	3.142	1.8	22.0
4 11	12 37.47	− 9 4.6	2.164	3.155	3.2	22.1
4 21	12 30.15	− 7 58.7	2.212	3.168	6.7	22.3
5 1	12 24.27	− 6 59.2	2.286	3.181	9.9	22.5
5 11	12 20.25	− 6 10.3	2.384	3.193	12.6	22.8

409212 2003 WL_{58} 4 1.8 181°.40 1°.4/31.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.62	− 2 52.6	2.042	2.904	11.5	22.2
3 12	13 3.14	− 2 12.2	1.970	2.906	8.0	22.0
3 22	12 54.92	− 1 24.3	1.925	2.907	4.2	21.7
4 1	12 45.70	− 0 34.1	1.909	2.906	1.4	21.5
4 11	12 36.42	+ 0 12.7	1.922	2.906	4.6	21.7
4 21	12 27.99	+ 0 51.0	1.963	2.904	8.5	22.0
5 1	12 21.17	+ 1 16.8	2.030	2.902	11.9	22.2
5 11	12 16.43	+ 1 28.0	2.118	2.899	14.9	22.4

127622 2003 BM_{62} 4 1.8 10°.13 6°.8/28.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.77	+ 7 4.8	1.093	1.994	16.1	18.8
3 12	13 3.49	+ 8 6.3	1.046	1.995	11.7	18.5
3 22	12 55.40	+ 9 5.7	1.019	1.996	7.8	18.3
4 1	12 45.74	+ 9 51.6	1.015	1.999	7.1	18.3
4 11	12 36.12	+10 14.2	1.035	2.002	10.5	18.4
4 21	12 28.04	+10 9.0	1.076	2.006	14.9	18.7
5 1	12 22.60	+ 9 35.7	1.137	2.011	19.1	19.0
5 11	12 20.35	+ 8 37.7	1.213	2.016	22.6	19.2

292686 2006 UV_{96} 4 1.8 335°.56 0°.2/ 1.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.40	− 8 8.0	1.451	2.325	14.6	20.3
3 12	13 0.04	− 7 9.8	1.381	2.320	10.4	20.0
3 22	12 53.48	− 5 54.0	1.334	2.316	5.6	19.7
4 1	12 45.61	− 4 27.4	1.312	2.312	0.4	19.3
4 11	12 37.61	− 2 59.5	1.317	2.308	5.0	19.6
4 21	12 30.64	− 1 40.1	1.348	2.305	10.0	19.9
5 1	12 25.66	− 0 37.1	1.401	2.302	14.4	20.2
5 11	12 23.23	+ 0 4.8	1.473	2.299	18.2	20.4

174063 2002 CV_{306} 4 1.8 337°.95 3°.3/28.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.40	+ 2 30.8	2.079	2.961	10.4	20.3
3 12	12 58.07	+ 3 39.3	2.013	2.957	7.3	20.1
3 22	12 52.22	+ 4 51.3	1.972	2.952	4.3	19.9
4 1	12 45.51	+ 6 0.4	1.960	2.948	3.6	19.8
4 11	12 38.75	+ 7 0.0	1.975	2.944	6.1	20.0
4 21	12 32.70	+ 7 45.1	2.017	2.940	9.4	20.2
5 1	12 28.03	+ 8 12.4	2.083	2.937	12.4	20.4
5 11	12 25.19	+ 8 21.0	2.169	2.934	15.0	20.6

309919 2009 FP_{19} 4 1.8 24°.35 1°.4/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.77	− 9 59.6	1.354	2.221	15.9	20.6
3 12	13 2.51	− 9 40.6	1.290	2.224	11.6	20.3
3 22	12 54.83	− 9 3.8	1.249	2.226	6.6	20.0
4 1	12 45.71	− 8 13.4	1.231	2.229	1.7	19.7
4 11	12 36.50	− 7 17.3	1.240	2.233	4.7	19.9
4 21	12 28.50	− 6 23.8	1.274	2.236	9.8	20.2
5 1	12 22.74	− 5 40.5	1.330	2.240	14.4	20.5
5 11	12 19.80	− 5 12.9	1.405	2.245	18.2	20.7

257547 1998 SO_{19} 4 1.8 230°.76 0°.1/ 1.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.60	− 7 16.2	1.965	2.822	12.1	21.9
3 12	13 1.91	− 6 33.5	1.880	2.811	8.6	21.6
3 22	12 54.37	− 5 38.1	1.820	2.800	4.6	21.3
4 1	12 45.68	− 4 34.8	1.788	2.787	0.3	21.0
4 11	12 36.80	− 3 29.9	1.785	2.774	4.1	21.2
4 21	12 28.68	− 2 29.9	1.810	2.761	8.3	21.5
5 1	12 22.14	− 1 40.7	1.860	2.747	12.2	21.7
5 11	12 17.75	− 1 6.2	1.932	2.732	15.4	21.9

270520 2002 GC_{41} 4 1.8 50°.66 0°.8/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.37	− 3 21.1	1.715	2.585	13.0	20.5
3 12	13 3.17	− 3 11.1	1.653	2.591	9.1	20.3
3 22	12 54.99	− 2 53.8	1.616	2.598	4.8	20.0
4 1	12 45.72	− 2 33.4	1.606	2.605	0.8	19.7
4 11	12 36.44	− 2 14.9	1.623	2.612	4.6	20.0
4 21	12 28.19	− 2 2.9	1.668	2.619	8.9	20.3
5 1	12 21.81	− 2 0.9	1.737	2.626	12.7	20.5
5 11	12 17.80	− 2 11.1	1.826	2.634	15.9	20.8

85548 1997 XX_{13} 4 1.8 106°.63 4°.5/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.72	+ 4 34.7	1.654	2.531	12.9	19.7
3 12	13 4.64	+ 5 41.6	1.614	2.555	9.1	19.5
3 22	12 55.66	+ 6 48.4	1.600	2.577	5.6	19.3
4 1	12 45.76	+ 7 47.0	1.614	2.599	4.7	19.3
4 11	12 36.10	+ 8 30.4	1.656	2.620	7.5	19.5
4 21	12 27.70	+ 8 54.6	1.723	2.641	11.0	19.8
5 1	12 21.32	+ 8 58.1	1.814	2.661	14.3	20.0
5 11	12 17.37	+ 8 42.1	1.923	2.680	17.0	20.3

272751 2005 YG_{140} 4 1.8 36°.67 1°.3/ 2.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.75	− 9 43.6	1.525	2.389	14.7	20.8
3 12	13 1.50	− 9 29.2	1.468	2.399	10.6	20.6
3 22	12 54.16	− 8 59.6	1.433	2.410	6.0	20.4
4 1	12 45.66	− 8 18.9	1.424	2.421	1.6	20.1
4 11	12 37.19	− 7 33.5	1.441	2.433	4.2	20.3
4 21	12 29.84	− 6 50.3	1.484	2.446	8.8	20.6
5 1	12 24.47	− 6 15.6	1.551	2.459	12.8	20.9
5 11	12 21.59	− 5 53.7	1.638	2.472	16.3	21.1

346084 2007 UN_{138} 4 1.8 98°.33 5°.7/ 9.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.52	−26 18.1	2.442	3.205	13.0	20.5
3 12	13 0.17	−26 19.4	2.369	3.219	10.7	20.4
3 22	12 53.30	−25 59.9	2.318	3.232	8.3	20.2
4 1	12 45.60	−25 20.3	2.292	3.246	6.3	20.1
4 11	12 37.89	−24 23.4	2.294	3.259	5.7	20.1
4 21	12 30.93	−23 14.6	2.324	3.272	6.9	20.2
5 1	12 25.39	−22 0.3	2.380	3.284	9.1	20.4
5 11	12 21.69	−20 47.1	2.460	3.297	11.4	20.5

109400 2001 QY_{179} 4 1.8 244°.70 1°.1/31.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.40	− 2 8.1	2.263	3.127	10.5	19.2
3 12	13 1.52	− 1 50.3	2.185	3.121	7.3	19.0
3 22	12 54.06	− 1 27.3	2.133	3.114	3.9	18.8
4 1	12 45.67	− 1 2.6	2.109	3.107	1.2	18.6
4 11	12 37.17	− 0 40.5	2.115	3.100	4.1	18.8
4 21	12 29.37	− 0 24.7	2.149	3.093	7.7	19.0
5 1	12 22.95	− 0 18.3	2.209	3.086	10.9	19.2
5 11	12 18.41	− 0 23.1	2.291	3.078	13.7	19.3

192876 1999 XE_{43} 4 1.8 238°.99 2°.7/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.08	−16 21.0	2.424	3.241	11.5	20.8
3 12	13 0.65	−15 58.6	2.325	3.226	8.8	20.6
3 22	12 53.64	−15 20.1	2.250	3.209	5.8	20.4
4 1	12 45.64	−14 27.3	2.204	3.193	3.1	20.1
4 11	12 37.45	−13 24.2	2.187	3.175	3.6	20.1
4 21	12 29.84	−12 16.2	2.199	3.158	6.6	20.3
5 1	12 23.52	−11 9.4	2.238	3.139	9.8	20.5
5 11	12 19.02	−10 9.3	2.301	3.120	12.7	20.6

274352 2008 RH_{41} 4 1.8 281°.20 0°.5/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.29	− 7 30.0	1.857	2.716	12.6	20.6
3 12	13 1.77	− 7 14.2	1.777	2.708	9.1	20.3
3 22	12 54.32	− 6 47.0	1.721	2.700	5.0	20.1
4 1	12 45.70	− 6 11.9	1.692	2.691	0.7	19.7
4 11	12 36.90	− 5 34.1	1.692	2.683	4.0	20.0
4 21	12 28.91	− 4 59.0	1.719	2.675	8.3	20.2
5 1	12 22.59	− 4 32.0	1.770	2.666	12.2	20.4
5 11	12 18.51	− 4 16.7	1.843	2.658	15.5	20.6

288423 2004 DC_{76} 4 1.8 10°.05 1°.8/30.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.71	− 3 0.9	1.926	2.802	11.5	20.7
3 12	12 58.37	− 1 52.1	1.861	2.803	7.9	20.4
3 22	12 52.42	− 0 34.5	1.821	2.804	4.1	20.2
4 1	12 45.56	+ 0 45.3	1.809	2.805	1.9	20.1
4 11	12 38.67	+ 2 0.0	1.825	2.807	5.1	20.3
4 21	12 32.58	+ 3 3.0	1.868	2.809	8.9	20.5
5 1	12 27.97	+ 3 49.8	1.935	2.811	12.3	20.7
5 11	12 25.30	+ 4 18.1	2.023	2.813	15.2	20.9

230651 2003 SF_{30} 4 1.8 110°.00 1°.2/ 3.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.00	−10 16.8	2.040	2.887	12.2	20.2
3 12	13 1.31	− 9 58.7	1.972	2.895	8.8	20.0
3 22	12 53.96	− 9 28.1	1.930	2.904	5.1	19.8
4 1	12 45.68	− 8 48.1	1.915	2.912	1.5	19.5
4 11	12 37.38	− 8 3.7	1.928	2.920	3.5	19.7
4 21	12 29.92	− 7 20.3	1.970	2.928	7.3	19.9
5 1	12 24.03	− 6 43.0	2.038	2.936	10.7	20.2
5 11	12 20.15	− 6 15.6	2.127	2.943	13.7	20.4

18152 Heidimanning 4 1.8 280.°89 2.°4/ 4.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 6.74	−13 2.9	2.211	3.045	11.8	18.3
3 12	13 1.17	−13 7.5	2.127	3.039	8.9	18.1
3 22	12 53.93	−12 59.2	2.067	3.033	5.6	17.8
4 1	12 45.68	−12 39.3	2.034	3.027	2.7	17.6
4 11	12 37.27	−12 11.4	2.031	3.021	3.6	17.7
4 21	12 29.54	−11 39.8	2.055	3.014	6.9	17.9
5 1	12 23.23	−11 9.5	2.106	3.008	10.2	18.1
5 11	12 18.87	−10 44.9	2.179	3.002	13.1	18.2

126417 2002 BB_{28} 4 1.8 310.°23 9.°8/22.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.18	+19 40.0	1.701	2.577	12.8	19.2
3 12	13 1.76	+21 13.9	1.654	2.570	10.7	19.0
3 22	12 54.31	+22 34.6	1.630	2.563	9.8	18.9
4 1	12 45.71	+23 32.2	1.631	2.556	10.6	19.0
4 11	12 37.10	+23 59.8	1.656	2.550	12.6	19.1
4 21	12 29.54	+23 55.5	1.702	2.544	15.2	19.2
5 1	12 23.89	+23 20.6	1.768	2.538	17.7	19.4
5 11	12 20.64	+22 19.5	1.848	2.532	19.8	19.5

112089 2002 JM_{28} 4 1.8 347.°80 4.°5/29.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.41	+ 3 46.2	1.365	2.254	14.4	19.4
3 12	13 3.63	+ 4 32.4	1.306	2.252	10.2	19.1
3 22	12 55.43	+ 5 20.8	1.270	2.250	6.1	18.9
4 1	12 45.81	+ 6 3.0	1.259	2.249	4.7	18.8
4 11	12 36.14	+ 6 31.0	1.274	2.248	8.0	18.9
4 21	12 27.70	+ 6 39.6	1.313	2.247	12.4	19.2
5 1	12 21.51	+ 6 26.5	1.373	2.246	16.5	19.4
5 11	12 18.14	+ 5 52.6	1.451	2.246	19.9	19.7

300115 2006 UG_{337} 4 1.8 192.°78 4.°8/25.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.41	+14 15.2	3.261	4.126	7.6	22.3
3 12	12 59.03	+15 17.7	3.202	4.123	5.9	22.2
3 22	12 52.61	+16 15.5	3.171	4.120	4.9	22.1
4 1	12 45.61	+17 3.9	3.170	4.116	5.1	22.1
4 11	12 38.59	+17 39.5	3.198	4.112	6.5	22.2
4 21	12 32.08	+18 0.2	3.253	4.107	8.3	22.3
5 1	12 26.54	+18 5.0	3.332	4.101	10.1	22.4
5 11	12 22.32	+17 54.8	3.431	4.095	11.7	22.6

213029 1997 BF_{5} 4 1.8 152.°63 0.°0/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.50	− 7 37.9	1.835	2.692	12.8	21.3
3 12	13 2.51	− 6 56.1	1.768	2.699	9.1	21.1
3 22	12 54.66	− 6 1.8	1.726	2.705	4.9	20.9
4 1	12 45.76	− 4 59.9	1.712	2.711	0.4	20.5
4 11	12 36.85	− 3 57.2	1.727	2.716	4.1	20.8
4 21	12 28.89	− 3 0.3	1.769	2.721	8.4	21.1
5 1	12 22.67	− 2 14.8	1.836	2.725	12.2	21.3
5 11	12 18.69	− 1 44.2	1.924	2.729	15.3	21.5

347404 2012 SU_{20} 4 1.8 257.°65 3.°4/29.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.67	+ 5 7.2	2.370	3.237	9.9	21.4
3 12	13 3.18	+ 5 41.8	2.279	3.214	7.1	21.1
3 22	12 55.02	+ 6 16.9	2.215	3.190	4.4	20.9
4 1	12 45.81	+ 6 47.7	2.180	3.166	3.6	20.8
4 11	12 36.37	+ 7 9.5	2.175	3.141	5.9	20.9
4 21	12 27.54	+ 7 18.7	2.199	3.115	9.0	21.1
5 1	12 20.07	+ 7 13.3	2.248	3.089	12.1	21.2
5 11	12 14.47	+ 6 52.9	2.318	3.063	14.7	21.4

284968 2010 FZ_{27} 4 1.8 348.°19 5.°3/27.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.11	+ 6 27.4	1.623	2.514	12.3	19.6
3 12	12 59.63	+ 7 36.3	1.563	2.508	8.9	19.4
3 22	12 53.20	+ 8 45.3	1.528	2.503	6.0	19.2
4 1	12 45.66	+ 9 45.8	1.518	2.499	5.7	19.2
4 11	12 38.07	+10 30.0	1.535	2.495	8.4	19.3
4 21	12 31.42	+10 52.9	1.576	2.492	12.0	19.5
5 1	12 26.56	+10 52.5	1.638	2.490	15.3	19.7
5 11	12 23.98	+10 29.7	1.718	2.488	18.2	19.9

245036 2004 EM_{69} 4 1.8 112.°99 1.°5/31.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.55	− 3 18.2	2.234	3.103	10.4	20.9
3 12	12 58.77	− 2 15.0	2.170	3.109	7.2	20.7
3 22	12 52.58	− 1 4.4	2.133	3.115	3.7	20.5
4 1	12 45.62	+ 0 8.2	2.124	3.121	1.5	20.3
4 11	12 38.67	+ 1 16.6	2.145	3.127	4.4	20.5
4 21	12 32.43	+ 2 15.5	2.194	3.133	7.8	20.7
5 1	12 27.52	+ 3 0.7	2.268	3.139	10.9	20.9
5 11	12 24.35	+ 3 30.2	2.364	3.145	13.5	21.1

468640 2008 SM_{285} 4 1.8 208.°07 5.°5/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.41	−25 31.3	2.538	3.301	12.6	21.8
3 12	13 1.60	−25 36.4	2.443	3.295	10.4	21.6
3 22	12 54.18	−25 21.8	2.371	3.288	8.0	21.4
4 1	12 45.76	−24 47.2	2.325	3.281	6.1	21.3
4 11	12 37.17	−23 55.1	2.308	3.273	5.6	21.2
4 21	12 29.22	−22 50.1	2.318	3.265	7.0	21.3
5 1	12 22.63	−21 38.3	2.356	3.256	9.4	21.4
5 11	12 17.91	−20 26.5	2.417	3.247	11.8	21.6

225609 2000 YN_{60} 4 1.8 64.°57 5.°2/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.34	+ 6 43.4	1.681	2.566	12.3	19.5
3 12	13 1.59	+ 7 57.4	1.647	2.589	8.8	19.3
3 22	12 54.09	+ 9 8.8	1.638	2.612	5.9	19.2
4 1	12 45.75	+10 9.6	1.656	2.635	5.5	19.2
4 11	12 37.62	+10 53.0	1.702	2.658	8.0	19.4
4 21	12 30.64	+11 15.4	1.772	2.682	11.2	19.7
5 1	12 25.49	+11 15.9	1.864	2.705	14.2	19.9
5 11	12 22.55	+10 56.3	1.975	2.728	16.7	20.1

303312 2004 TJ_{47} 4 1.8 83.°76 0.°6/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.41	− 5 7.0	1.441	2.310	15.0	21.1
3 12	13 5.42	− 4 39.7	1.396	2.333	10.5	20.9
3 22	12 56.22	− 4 1.7	1.375	2.356	5.5	20.7
4 1	12 45.91	− 3 18.8	1.380	2.379	0.6	20.4
4 11	12 35.83	− 2 38.1	1.412	2.401	5.0	20.8
4 21	12 27.15	− 2 5.9	1.471	2.423	9.7	21.1
5 1	12 20.74	− 1 46.9	1.552	2.445	13.8	21.4
5 11	12 17.04	− 1 43.1	1.654	2.466	17.1	21.7

272991 2006 DJ_{41} 4 1.8 359.°96 2.°4/30.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 0.88	− 3 22.3	1.333	2.226	14.4	19.7
3 12	12 57.64	− 2 2.4	1.273	2.223	10.0	19.4
3 22	12 52.26	− 0 29.3	1.236	2.221	5.2	19.1
4 1	12 45.62	+ 1 7.5	1.224	2.221	2.6	18.9
4 11	12 38.92	+ 2 36.7	1.237	2.221	6.6	19.2
4 21	12 33.28	+ 3 48.7	1.275	2.223	11.3	19.5
5 1	12 29.62	+ 4 37.2	1.334	2.226	15.6	19.7
5 11	12 28.45	+ 5 0.1	1.410	2.230	19.2	20.0

255757 2006 RM_{36} 4 1.8 164.°60 0.°1/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.28	− 8 34.6	2.184	3.033	11.4	22.4
3 12	13 1.44	− 7 38.0	2.113	3.040	8.1	22.2
3 22	12 54.03	− 6 29.2	2.067	3.045	4.4	22.0
4 1	12 45.76	− 5 13.1	2.051	3.050	0.4	21.7
4 11	12 37.47	− 3 55.9	2.065	3.055	3.6	21.9
4 21	12 29.97	− 2 44.1	2.108	3.058	7.4	22.2
5 1	12 23.93	− 1 43.1	2.178	3.061	10.8	22.4
5 11	12 19.80	− 0 56.3	2.270	3.063	13.6	22.6

469044 2015 AB_{258} 4 1.8 302.°22 8.°3/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.60	−25 1.7	1.688	2.477	16.9	20.5
3 12	13 4.02	−25 58.6	1.595	2.460	14.1	20.3
3 22	12 55.86	−26 31.9	1.522	2.444	11.2	20.0
4 1	12 45.92	−26 38.0	1.473	2.428	8.9	19.9
4 11	12 35.43	−26 17.2	1.448	2.412	8.5	19.8
4 21	12 25.73	−25 33.8	1.448	2.396	10.3	19.9
5 1	12 18.06	−24 36.2	1.472	2.380	13.4	20.0
5 11	12 13.25	−23 34.4	1.517	2.365	16.6	20.2

28644 Michaelzhang 4 1.8 211.°25 3.°4/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.41	+ 0 44.6	1.622	2.500	13.1	19.3
3 12	13 3.43	+ 1 52.3	1.553	2.496	9.2	19.1
3 22	12 55.29	+ 3 6.7	1.509	2.490	5.1	18.8
4 1	12 45.87	+ 4 19.9	1.492	2.484	3.6	18.7
4 11	12 36.33	+ 5 23.1	1.503	2.478	6.9	18.9
4 21	12 27.79	+ 6 9.6	1.540	2.471	11.1	19.1
5 1	12 21.19	+ 6 35.1	1.600	2.463	15.0	19.3
5 11	12 17.09	+ 6 38.9	1.678	2.455	18.3	19.5

415089 2012 BR_{124} 4 1.8 80.°47 3.°2/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.78	− 0 14.6	1.516	2.400	13.5	20.9
3 12	13 1.55	+ 0 59.2	1.461	2.406	9.4	20.7
3 22	12 54.24	+ 2 20.3	1.430	2.413	5.1	20.4
4 1	12 45.80	+ 3 39.8	1.426	2.419	3.4	20.3
4 11	12 37.38	+ 4 48.7	1.448	2.426	6.8	20.5
4 21	12 30.08	+ 5 39.9	1.496	2.432	11.0	20.8
5 1	12 24.74	+ 6 9.5	1.567	2.439	14.8	21.0
5 11	12 21.85	+ 6 16.6	1.656	2.445	18.0	21.3

119760 2001 YN_{113} 4 1.8 81.°80 4.°1/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.85	+ 2 57.8	1.807	2.688	11.8	19.6
3 12	13 1.16	+ 4 30.0	1.772	2.714	8.2	19.4
3 22	12 53.85	+ 6 3.6	1.762	2.741	5.0	19.2
4 1	12 45.76	+ 7 30.1	1.782	2.767	4.3	19.2
4 11	12 37.88	+ 8 41.8	1.829	2.792	7.0	19.5
4 21	12 31.05	+ 9 33.8	1.902	2.818	10.3	19.7
5 1	12 25.92	+10 4.0	1.999	2.843	13.3	19.9
5 11	12 22.87	+10 12.9	2.115	2.867	15.7	20.2

251008 2006 PN_{25} 4 1.8 192.°02 2.°8/ 4.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.19	−14 7.6	1.936	2.767	13.4	21.1
3 12	13 3.81	−14 4.7	1.856	2.766	10.1	20.9
3 22	12 55.45	−13 45.6	1.799	2.764	6.4	20.7
4 1	12 45.90	−13 12.0	1.770	2.762	3.1	20.5
4 11	12 36.19	−12 28.3	1.769	2.759	4.1	20.5
4 21	12 27.33	−11 40.3	1.797	2.756	7.7	20.7
5 1	12 20.20	−10 54.5	1.850	2.752	11.4	20.9
5 11	12 15.36	−10 16.4	1.925	2.747	14.6	21.1

522519 2016 EF_{235} 4 1.8 35°.52 5°.6/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.73	+ 8 42.7	1.715	2.597	12.3	20.8
3 12	13 2.75	+ 9 34.1	1.660	2.599	9.0	20.6
3 22	12 54.83	+10 22.1	1.630	2.601	6.2	20.4
4 1	12 45.85	+10 59.3	1.627	2.603	5.9	20.4
4 11	12 36.89	+11 19.3	1.650	2.606	8.4	20.5
4 21	12 28.98	+11 19.1	1.699	2.608	11.7	20.7
5 1	12 22.93	+10 58.0	1.770	2.611	14.8	21.0
5 11	12 19.21	+10 17.5	1.859	2.613	17.5	21.2

272904 2006 BM_{155} 4 1.8 79°.20 5°.8/26.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.55	+ 8 11.6	1.805	2.691	11.6	20.2
3 12	13 0.35	+ 9 47.6	1.766	2.706	8.4	20.1
3 22	12 53.47	+11 20.6	1.752	2.721	6.1	20.0
4 1	12 45.74	+12 41.8	1.766	2.737	6.2	20.0
4 11	12 38.12	+13 43.7	1.807	2.752	8.6	20.2
4 21	12 31.50	+14 22.4	1.873	2.767	11.6	20.4
5 1	12 26.55	+14 36.8	1.961	2.782	14.4	20.6
5 11	12 23.68	+14 28.4	2.067	2.797	16.7	20.8

236145 2005 UK_{105} 4 1.8 92°.36 4°.4/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.56	+ 3 10.0	1.334	2.220	14.8	20.7
3 12	13 5.06	+ 4 3.7	1.285	2.230	10.4	20.5
3 22	12 56.15	+ 4 59.8	1.260	2.241	6.1	20.2
4 1	12 45.95	+ 5 49.4	1.261	2.251	4.6	20.2
4 11	12 35.87	+ 6 24.3	1.288	2.261	7.9	20.4
4 21	12 27.20	+ 6 39.3	1.338	2.271	12.3	20.7
5 1	12 20.90	+ 6 32.4	1.411	2.281	16.3	20.9
5 11	12 17.45	+ 6 4.7	1.501	2.291	19.5	21.2

506006 2015 HP_{14} 4 1.8 254°.11 5°.7/25.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.80	+12 20.9	2.357	3.233	9.6	21.3
3 12	12 59.69	+13 32.2	2.293	3.223	7.4	21.2
3 22	12 53.12	+14 39.1	2.256	3.213	5.9	21.1
4 1	12 45.72	+15 35.3	2.247	3.203	6.2	21.1
4 11	12 38.26	+16 15.3	2.265	3.193	8.1	21.2
4 21	12 31.47	+16 36.0	2.309	3.183	10.5	21.3
5 1	12 25.98	+16 36.3	2.376	3.173	12.9	21.4
5 11	12 22.24	+16 17.1	2.461	3.162	15.0	21.6

111370 2001 XH_{133} 4 1.8 184°.33 0°.1/ 2.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.92	− 7 47.5	2.491	3.343	10.1	20.7
3 12	12 58.98	− 7 8.6	2.415	3.343	7.1	20.5
3 22	12 52.72	− 6 20.2	2.364	3.343	3.9	20.2
4 1	12 45.70	− 5 25.7	2.343	3.342	0.4	20.0
4 11	12 38.62	− 4 30.1	2.352	3.342	3.2	20.2
4 21	12 32.17	− 3 38.0	2.389	3.341	6.5	20.4
5 1	12 26.92	− 2 53.8	2.453	3.340	9.6	20.6
5 11	12 23.29	− 2 20.5	2.540	3.339	12.2	20.8

149835 2005 OR_{15} 4 1.8 134°.80 4°.3/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.95	−21 13.8	2.171	2.966	13.4	20.3
3 12	13 1.99	−20 53.7	2.099	2.980	10.5	20.1
3 22	12 54.36	−20 13.0	2.050	2.993	7.5	20.0
4 1	12 45.83	−19 13.5	2.029	3.006	4.8	19.8
4 11	12 37.30	−17 59.9	2.035	3.018	4.6	19.8
4 21	12 29.64	−16 38.9	2.071	3.029	7.0	20.0
5 1	12 23.57	−15 17.8	2.133	3.039	9.9	20.2
5 11	12 19.52	−14 3.4	2.219	3.049	12.7	20.4

56537 2000 HQ_{53} 4 1.8 148°.18 2°.3/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.71	+ 0 27.4	2.206	3.073	10.6	19.4
3 12	13 2.37	+ 1 14.1	2.146	3.084	7.3	19.2
3 22	12 54.51	+ 2 4.7	2.113	3.094	4.0	19.0
4 1	12 45.84	+ 2 53.9	2.109	3.103	2.4	18.9
4 11	12 37.21	+ 3 36.3	2.135	3.112	5.0	19.1
4 21	12 29.40	+ 4 7.8	2.189	3.119	8.3	19.3
5 1	12 23.08	+ 4 25.7	2.269	3.127	11.4	19.6
5 11	12 18.66	+ 4 28.9	2.369	3.133	13.9	19.7

385078 2012 UH_{101} 4 1.8 62°.06 1°.4/31.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.47	− 2 59.8	2.090	2.960	11.0	21.0
3 12	12 59.49	− 2 14.8	2.031	2.970	7.6	20.8
3 22	12 53.01	− 1 22.8	1.997	2.980	3.9	20.6
4 1	12 45.73	− 0 29.1	1.992	2.989	1.4	20.5
4 11	12 38.48	+ 0 20.7	2.015	2.999	4.4	20.7
4 21	12 32.01	+ 1 1.6	2.066	3.009	7.9	20.9
5 1	12 26.99	+ 1 30.1	2.141	3.020	11.1	21.1
5 11	12 23.80	+ 1 44.2	2.238	3.030	13.8	21.3

48518 1993 FB_{29} 4 1.8 308°.60 3°.3/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.94	−14 31.2	1.455	2.306	15.9	18.4
3 12	13 1.43	−14 22.3	1.368	2.289	12.1	18.1
3 22	12 54.46	−13 51.3	1.303	2.272	7.8	17.8
4 1	12 45.86	−13 0.0	1.262	2.256	3.8	17.5
4 11	12 36.89	−11 54.4	1.247	2.239	4.9	17.5
4 21	12 28.83	−10 43.2	1.257	2.224	9.5	17.8
5 1	12 22.83	− 9 36.1	1.290	2.208	14.1	18.0
5 11	12 19.62	− 8 41.2	1.343	2.194	18.3	18.2

148721 2001 TD_{52} 4 1.8 78°.15 2°.9/30.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.52	+ 0 12.0	1.667	2.547	12.7	19.7
3 12	13 1.86	+ 1 9.3	1.618	2.561	8.8	19.5
3 22	12 54.33	+ 2 11.6	1.594	2.576	4.8	19.3
4 1	12 45.83	+ 3 11.8	1.596	2.590	3.0	19.2
4 11	12 37.44	+ 4 2.6	1.627	2.604	6.1	19.4
4 21	12 30.13	+ 4 38.4	1.683	2.619	10.0	19.7
5 1	12 24.65	+ 4 56.4	1.762	2.633	13.5	19.9
5 11	12 21.46	+ 4 55.7	1.861	2.647	16.4	20.1

68655 2002 CS_{78} 4 1.8 277°.14 3°.0/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.40	−12 59.0	1.574	2.420	15.2	20.0
3 12	13 4.58	−13 4.0	1.478	2.397	11.5	19.8
3 22	12 56.18	−12 50.9	1.405	2.374	7.2	19.4
4 1	12 46.01	−12 21.0	1.357	2.351	3.3	19.1
4 11	12 35.29	−11 38.4	1.336	2.327	4.8	19.2
4 21	12 25.36	−10 50.2	1.341	2.303	9.5	19.4
5 1	12 17.45	−10 4.3	1.370	2.279	14.1	19.6
5 11	12 12.37	− 9 28.0	1.419	2.254	18.3	19.8

505407 2013 QA_{84} 4 1.8 229°.11 5°.0/ 6.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.99	−22 2.3	2.268	3.055	13.1	23.2
3 12	13 2.92	−22 6.1	2.168	3.042	10.6	23.0
3 22	12 55.01	−21 50.3	2.092	3.028	7.8	22.8
4 1	12 45.91	−21 14.7	2.043	3.013	5.5	22.6
4 11	12 36.53	−20 22.0	2.021	2.998	5.2	22.5
4 21	12 27.82	−19 17.4	2.028	2.982	7.4	22.6
5 1	12 20.59	−18 7.8	2.062	2.966	10.4	22.8
5 11	12 15.45	−17 0.4	2.120	2.948	13.3	23.0

88330 2001 OQ_{57} 4 1.8 222°.65 0°.8/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.05	− 8 42.3	1.691	2.546	13.9	20.2
3 12	13 4.67	− 8 20.9	1.609	2.537	10.1	19.9
3 22	12 56.04	− 7 45.2	1.551	2.528	5.6	19.6
4 1	12 45.99	− 6 58.9	1.520	2.518	1.0	19.3
4 11	12 35.70	− 6 8.1	1.517	2.508	4.3	19.5
4 21	12 26.33	− 5 19.7	1.541	2.497	9.1	19.7
5 1	12 18.88	− 4 40.2	1.590	2.485	13.3	20.0
5 11	12 14.00	− 4 14.3	1.659	2.473	17.0	20.2

127714 2003 EF_{35} 4 1.8 308°.86 4°.2/ 4.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.19	−14 44.0	1.279	2.134	17.5	19.3
3 12	13 3.32	−14 57.2	1.198	2.119	13.4	19.0
3 22	12 55.61	−14 47.7	1.137	2.105	8.8	18.7
4 1	12 45.97	−14 16.0	1.099	2.090	4.7	18.4
4 11	12 35.86	−13 27.3	1.085	2.076	5.6	18.4
4 21	12 26.80	−12 30.0	1.096	2.063	10.4	18.6
5 1	12 20.14	−11 34.3	1.128	2.050	15.4	18.9
5 11	12 16.69	−10 49.3	1.179	2.038	19.8	19.1

497564 2006 DJ_{146} 4 1.8 204°.52 2°.8/ 4.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.96	−13 44.4	2.207	3.033	12.2	21.6
3 12	13 3.50	−13 57.5	2.123	3.030	9.2	21.4
3 22	12 55.26	−13 57.5	2.064	3.026	5.9	21.1
4 1	12 45.94	−13 45.2	2.032	3.023	3.1	21.0
4 11	12 36.45	−13 23.7	2.030	3.019	3.8	21.0
4 21	12 27.68	−12 57.2	2.057	3.014	7.0	21.2
5 1	12 20.42	−12 30.6	2.110	3.010	10.3	21.4
5 11	12 15.21	−12 8.6	2.186	3.005	13.3	21.6

247470 2002 JP_{41} 4 1.8 278°.81 0°.6/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.64	− 4 17.8	2.115	2.973	11.4	19.5
3 12	13 3.48	− 4 1.2	2.010	2.942	8.1	19.2
3 22	12 55.37	− 3 36.6	1.931	2.911	4.3	18.9
4 1	12 45.96	− 3 7.2	1.881	2.880	0.6	18.6
4 11	12 36.14	− 2 37.7	1.860	2.848	4.2	18.8
4 21	12 26.89	− 2 12.9	1.867	2.815	8.4	19.0
5 1	12 19.08	− 1 56.9	1.901	2.782	12.2	19.1
5 11	12 13.37	− 1 53.0	1.955	2.748	15.5	19.3

120310 2004 KY_{16} 4 1.8 291°.64 9°.7/22.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.34	+18 14.4	1.651	2.529	12.9	19.3
3 12	13 2.07	+19 56.2	1.593	2.513	10.7	19.1
3 22	12 54.64	+21 27.3	1.558	2.497	9.7	19.0
4 1	12 45.89	+22 36.8	1.549	2.481	10.6	19.0
4 11	12 37.00	+23 16.4	1.564	2.464	12.9	19.1
4 21	12 29.11	+23 22.8	1.600	2.448	15.7	19.2
5 1	12 23.14	+22 56.6	1.655	2.432	18.4	19.4
5 11	12 19.68	+22 1.8	1.725	2.416	20.8	19.5

513015 2017 UL_{48} 4 1.8 241°.18 4°.0/27.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.32	+ 5 54.0	2.374	3.253	9.4	21.6
3 12	12 58.63	+ 7 7.4	2.309	3.249	6.7	21.4
3 22	12 52.57	+ 8 21.5	2.270	3.244	4.5	21.2
4 1	12 45.73	+ 9 30.0	2.260	3.239	4.3	21.2
4 11	12 38.84	+10 27.3	2.279	3.234	6.4	21.3
4 21	12 32.59	+11 9.0	2.325	3.228	9.2	21.5
5 1	12 27.58	+11 33.0	2.394	3.223	11.8	21.7
5 11	12 24.23	+11 38.8	2.484	3.218	14.1	21.8

438196 2005 US_{57} 4 1.8 169°.59 6°.0/ 7.6 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.47	−25 30.9	1.251	2.062	20.4	21.8
3 12	13 3.39	−24 20.0	1.177	2.065	16.4	21.5
3 22	12 55.51	−22 24.8	1.121	2.068	11.7	21.2
4 1	12 45.97	−19 48.0	1.089	2.070	7.3	21.0
4 11	12 36.35	−16 42.0	1.083	2.071	6.4	20.9
4 21	12 28.17	−13 25.4	1.103	2.072	10.2	21.1
5 1	12 22.58	−10 18.5	1.149	2.072	15.0	21.4
5 11	12 20.17	− 7 36.8	1.215	2.071	19.5	21.7

140307 2001 SM_{315} 4 1.8 106°.09 2°.1/ 4.3 18

3 2	13 8.55	−13 25.1	2.675	3.495	10.4	20.7
3 12	13 2.09	−13 28.0	2.612	3.517	7.8	20.6
3 22	12 54.32	−13 19.7	2.575	3.538	4.9	20.4
4 1	12 45.87	−13 1.9	2.567	3.558	2.4	20.3
4 11	12 37.46	−12 37.5	2.590	3.578	3.1	20.3
4 21	12 29.75	−12 10.2	2.642	3.598	5.8	20.5
5 1	12 23.33	−11 43.9	2.722	3.617	8.4	20.7
5 11	12 18.57	−11 22.1	2.826	3.636	10.8	20.9

234422 2001 RT_{101} 4 1.8 127°.00 0°.3/ 1.6 18

3 2	13 12.07	− 6 11.5	1.607	2.469	14.1	21.0
3 12	13 5.19	− 5 41.9	1.549	2.482	10.0	20.8
3 22	12 56.18	− 5 0.7	1.515	2.495	5.3	20.5
4 1	12 46.02	− 4 13.0	1.509	2.508	0.4	20.2
4 11	12 35.91	− 3 25.7	1.530	2.520	4.6	20.5
4 21	12 27.00	− 2 45.2	1.579	2.531	9.2	20.8
5 1	12 20.15	− 2 16.8	1.652	2.542	13.2	21.1
5 11	12 15.87	− 2 3.2	1.745	2.552	16.6	21.3

320510 2007 XN_{51} 4 1.8 55°.66 0°.2/ 1.9 18

3 2	13 7.98	− 7 45.2	1.378	2.250	15.4	21.5
3 12	13 2.53	− 7 10.4	1.327	2.264	10.9	21.3
3 22	12 54.83	− 6 20.5	1.297	2.278	5.9	21.0
4 1	12 45.91	− 5 21.8	1.294	2.293	0.5	20.7
4 11	12 37.09	− 4 22.4	1.316	2.308	4.8	21.0
4 21	12 29.54	− 3 30.5	1.364	2.323	9.7	21.3
5 1	12 24.17	− 2 52.3	1.435	2.338	14.0	21.6
5 11	12 21.47	− 2 31.3	1.525	2.353	17.5	21.9

212489 2006 QL_{113} 4 1.8 238°.62 1°.1/ 2.9 17

3 2	13 7.38	−11 6.9	1.861	2.710	13.1	20.8
3 12	13 1.95	−10 26.4	1.774	2.698	9.6	20.5
3 22	12 54.54	− 9 29.1	1.710	2.685	5.5	20.3
4 1	12 45.91	− 8 19.0	1.674	2.672	1.5	19.9
4 11	12 37.05	− 7 2.5	1.667	2.659	3.9	20.1
4 21	12 28.98	− 5 47.4	1.687	2.645	8.3	20.3
5 1	12 22.57	− 4 40.9	1.733	2.630	12.3	20.5
5 11	12 18.42	− 3 48.6	1.800	2.615	15.8	20.7

332624 2008 TJ_{112} 4 1.8 182°.72 1°.6/ 3.7 17

3 2	13 6.44	−12 26.7	2.421	3.254	11.0	21.6
3 12	13 0.83	−12 3.3	2.340	3.254	8.1	21.4
3 22	12 53.76	−11 27.1	2.285	3.254	4.9	21.2
4 1	12 45.84	−10 40.7	2.259	3.254	1.9	21.0
4 11	12 37.85	− 9 48.5	2.262	3.253	3.1	21.0
4 21	12 30.52	− 8 55.4	2.294	3.252	6.4	21.3
5 1	12 24.49	− 8 6.4	2.354	3.250	9.5	21.4
5 11	12 20.23	− 7 25.8	2.436	3.248	12.3	21.6

495091 2011 SR_{73} 4 1.8 241°.44 1°.5/ 3.1 17

3 2	13 10.62	−11 1.8	1.683	2.532	14.3	22.5
3 12	13 4.49	−10 39.1	1.593	2.517	10.5	22.2
3 22	12 56.03	− 9 59.2	1.527	2.501	6.2	21.9
4 1	12 46.04	− 9 5.1	1.487	2.484	1.9	21.6
4 11	12 35.69	− 8 2.9	1.475	2.466	4.3	21.7
4 21	12 26.19	− 7 0.4	1.490	2.448	9.1	21.9
5 1	12 18.60	− 6 5.2	1.530	2.429	13.5	22.1
5 11	12 13.62	− 5 23.5	1.590	2.410	17.3	22.3

90630 2159 $T\text{-}_{2}$ 4 1.8 58°.00 0°.5/ 1.4 17

3 2	13 7.43	− 5 49.6	1.642	2.511	13.5	19.3
3 12	13 2.01	− 5 14.2	1.575	2.513	9.5	19.0
3 22	12 54.55	− 4 27.1	1.533	2.514	5.0	18.8
4 1	12 45.92	− 3 33.6	1.516	2.516	0.5	18.4
4 11	12 37.22	− 2 40.8	1.528	2.517	4.7	18.7
4 21	12 29.51	− 1 55.4	1.565	2.519	9.2	19.0
5 1	12 23.66	− 1 22.7	1.627	2.520	13.2	19.2
5 11	12 20.21	− 1 5.9	1.708	2.522	16.6	19.5

66288 1999 JE_{20} 4 1.8 260°.35 2°.1/ 3.6 18

3 2	13 8.55	−12 34.2	1.643	2.490	14.6	18.8
3 12	13 3.07	−12 12.4	1.553	2.474	10.9	18.5
3 22	12 55.28	−11 31.5	1.486	2.458	6.6	18.2
4 1	12 45.99	−10 34.3	1.445	2.441	2.5	17.9
4 11	12 36.35	− 9 26.9	1.432	2.424	4.3	18.0
4 21	12 27.56	− 8 17.5	1.445	2.406	9.0	18.2
5 1	12 20.66	− 7 14.4	1.483	2.389	13.5	18.4
5 11	12 16.36	− 6 24.4	1.541	2.370	17.3	18.6

167555 2004 BL_{18} 4 1.8 151°.81 4°.5/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 13.01	+ 9 20.8	2.160	3.026	10.8	19.5
3 12	13 5.48	+ 9 32.5	2.095	3.027	7.9	19.3
3 22	12 56.23	+ 9 39.5	2.058	3.027	5.3	19.1
4 1	12 46.06	+ 9 37.3	2.049	3.028	4.6	19.1
4 11	12 35.91	+ 9 22.3	2.070	3.029	6.7	19.2
4 21	12 26.68	+ 8 53.1	2.119	3.029	9.6	19.4
5 1	12 19.09	+ 8 9.7	2.193	3.030	12.5	19.6
5 11	12 13.61	+ 7 13.5	2.288	3.030	15.0	19.7

64821 2001 XJ_{239} 4 1.8 240°.44 0°.9/ 2.6 18

3 2	13 9.79	− 9 15.8	1.608	2.465	14.3	19.4
3 12	13 3.90	− 8 52.2	1.526	2.455	10.4	19.1
3 22	12 55.70	− 8 12.9	1.468	2.445	5.9	18.8
4 1	12 46.03	− 7 21.6	1.436	2.434	1.2	18.5
4 11	12 36.10	− 6 25.1	1.431	2.423	4.4	18.7
4 21	12 27.10	− 5 30.8	1.453	2.411	9.3	18.9
5 1	12 20.07	− 4 45.9	1.499	2.399	13.7	19.2
5 11	12 15.67	− 4 15.4	1.566	2.387	17.5	19.4

488530 2001 RQ_{88} 4 1.8 201°.15 0°.3/ 2.2 18

3 2	13 7.58	− 6 55.5	2.902	3.745	9.1	22.1
3 12	13 1.45	− 6 45.7	2.817	3.740	6.5	21.9
3 22	12 54.04	− 6 28.9	2.758	3.735	3.5	21.7
4 1	12 45.89	− 6 7.4	2.730	3.729	0.5	21.4
4 11	12 37.65	− 5 44.3	2.733	3.723	2.8	21.6
4 21	12 29.94	− 5 22.8	2.766	3.716	5.9	21.8
5 1	12 23.32	− 5 5.7	2.827	3.709	8.6	22.0
5 11	12 18.22	− 4 55.7	2.912	3.702	11.0	22.1

416161 2002 RZ_{217} 4 1.8 282°.94 1°.1/ 2.7 17

3 2	13 8.25	− 9 27.2	1.604	2.464	14.3	21.7
3 12	13 2.93	− 9 7.5	1.513	2.442	10.5	21.4
3 22	12 55.25	− 8 31.7	1.444	2.421	6.0	21.1
4 1	12 46.00	− 7 43.2	1.401	2.400	1.4	20.7
4 11	12 36.34	− 6 48.2	1.386	2.378	4.4	20.9
4 21	12 27.49	− 5 54.1	1.396	2.356	9.4	21.1
5 1	12 20.53	− 5 8.4	1.431	2.334	14.0	21.3
5 11	12 16.21	− 4 37.0	1.485	2.312	18.0	21.5

327351 2005 UH_{227} 4 1.8 262°.70 0°.3/ 2.2 17

3 2	13 7.52	− 8 29.0	2.013	2.865	12.1	22.1
3 12	13 2.02	− 7 50.7	1.914	2.842	8.7	21.9
3 22	12 54.61	− 6 58.8	1.840	2.818	4.8	21.6
4 1	12 45.95	− 5 56.8	1.794	2.793	0.6	21.2
4 11	12 36.97	− 4 50.9	1.777	2.768	3.9	21.4
4 21	12 28.63	− 3 47.6	1.789	2.742	8.2	21.6
5 1	12 21.79	− 2 53.3	1.826	2.716	12.2	21.8
5 11	12 17.09	− 2 12.7	1.884	2.689	15.6	22.0

508491 2016 PG_{77} 4 1.8 246°.39 3°.6/ 5.9 17

3 2	13 5.36	−18 25.9	2.536	3.342	11.4	20.6
3 12	13 0.14	−18 29.4	2.447	3.336	8.9	20.5
3 22	12 53.44	−18 17.9	2.382	3.330	6.2	20.3
4 1	12 45.85	−17 52.2	2.344	3.325	4.0	20.1
4 11	12 38.12	−17 15.2	2.336	3.319	4.0	20.1
4 21	12 30.98	−16 30.9	2.355	3.313	6.3	20.2
5 1	12 25.08	−15 44.6	2.402	3.307	9.0	20.4
5 11	12 20.90	−15 1.2	2.472	3.301	11.6	20.6

502444 2015 BZ_{277} 4 1.8 89°.69 1°.3/31.5 17

3 2	13 5.50	− 4 0.2	1.872	2.742	12.0	21.5
3 12	13 0.42	− 3 7.1	1.808	2.747	8.4	21.3
3 22	12 53.62	− 2 4.8	1.769	2.751	4.3	21.0
4 1	12 45.86	− 0 59.2	1.758	2.756	1.3	20.8
4 11	12 38.09	+ 0 2.8	1.775	2.760	4.7	21.1
4 21	12 31.18	+ 0 55.1	1.819	2.764	8.7	21.3
5 1	12 25.88	+ 1 33.1	1.887	2.769	12.3	21.5
5 11	12 22.64	+ 1 54.4	1.976	2.773	15.2	21.7

146903 2002 CE_{92} 4 1.8 228°.07 0°.1/ 2.0 18

3 2	13 4.83	− 6 50.2	2.481	3.335	10.1	20.1
3 12	12 59.68	− 6 28.3	2.403	3.332	7.1	19.9
3 22	12 53.15	− 5 58.0	2.351	3.329	3.9	19.7
4 1	12 45.83	− 5 22.4	2.327	3.326	0.4	19.4
4 11	12 38.43	− 4 45.7	2.333	3.324	3.2	19.7
4 21	12 31.65	− 4 12.0	2.368	3.321	6.6	19.9
5 1	12 26.08	− 3 44.9	2.429	3.317	9.6	20.1
5 11	12 22.16	− 3 27.3	2.513	3.314	12.2	20.2

474582 2004 FP_{141} 4 1.8 17°.99 0°.4/ 2.3 18

3 2	13 0.75	−11 28.3	1.666	2.529	13.7	19.9
3 12	12 57.24	−10 1.4	1.602	2.535	9.8	19.7
3 22	12 51.97	− 8 15.0	1.563	2.542	5.4	19.4
4 1	12 45.73	− 6 16.6	1.550	2.549	0.8	19.1
4 11	12 39.50	− 4 16.3	1.566	2.557	4.1	19.4
4 21	12 34.18	− 2 24.3	1.608	2.566	8.5	19.7
5 1	12 30.50	− 0 49.1	1.675	2.576	12.5	19.9
5 11	12 28.91	+ 0 24.5	1.764	2.586	15.8	20.2

497458 2005 YQ_{80} 4 1.8 204.°07 3.°9/28.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 6.80	+ 4 21.3	2.022	2.900	10.9	21.7
3 12	13 1.27	+ 5 23.8	1.957	2.897	7.7	21.5
3 22	12 54.06	+ 6 28.0	1.918	2.895	4.8	21.3
4 1	12 45.91	+ 7 27.2	1.907	2.892	4.1	21.3
4 11	12 37.70	+ 8 15.1	1.924	2.888	6.6	21.4
4 21	12 30.29	+ 8 47.2	1.968	2.885	9.9	21.6
5 1	12 24.42	+ 9 0.8	2.035	2.881	13.0	21.8
5 11	12 20.55	+ 8 55.9	2.123	2.877	15.6	22.0

140872 2001 VO_{16} 4 1.8 84.°86 3.°6/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.25	+ 0 18.1	1.714	2.596	12.3	19.5
3 12	13 0.25	+ 2 0.5	1.667	2.612	8.5	19.3
3 22	12 53.51	+ 3 48.6	1.645	2.627	4.8	19.1
4 1	12 45.86	+ 5 33.1	1.652	2.642	3.8	19.1
4 11	12 38.30	+ 7 4.7	1.687	2.656	6.8	19.3
4 21	12 31.75	+ 8 16.5	1.747	2.671	10.5	19.5
5 1	12 26.91	+ 9 5.0	1.831	2.686	13.8	19.8
5 11	12 24.21	+ 9 29.7	1.934	2.700	16.6	20.0

18646 1998 ED_{21} 4 1.8 84.°85 3.°5/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.98	− 0 37.6	1.445	2.330	14.0	18.1
3 12	13 1.74	+ 0 52.9	1.396	2.342	9.6	17.9
3 22	12 54.40	+ 2 31.3	1.372	2.354	5.3	17.7
4 1	12 45.93	+ 4 7.5	1.373	2.366	3.7	17.6
4 11	12 37.56	+ 5 31.1	1.402	2.378	7.2	17.8
4 21	12 30.39	+ 6 34.4	1.456	2.390	11.4	18.1
5 1	12 25.25	+ 7 13.4	1.532	2.401	15.3	18.4
5 11	12 22.61	+ 7 27.6	1.626	2.413	18.4	18.6

65988 1998 KQ_{1} 4 1.8 308.°73 3.°8/ 5.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.64	−17 41.8	1.668	2.502	15.0	19.1
3 12	12 59.61	−17 15.4	1.572	2.481	11.7	18.9
3 22	12 53.45	−16 24.5	1.498	2.459	7.8	18.6
4 1	12 45.88	−15 10.8	1.449	2.438	4.4	18.3
4 11	12 37.97	−13 40.2	1.427	2.418	4.7	18.3
4 21	12 30.84	−12 1.7	1.431	2.398	8.5	18.5
5 1	12 25.49	−10 25.5	1.460	2.378	12.8	18.7
5 11	12 22.58	− 9 0.7	1.509	2.358	16.7	18.8

468427 2000 WB_{151} 4 1.8 125.°97 9.°6/22.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 14.57	+27 18.3	2.292	3.123	11.6	21.2
3 12	13 6.39	+28 15.1	2.266	3.139	10.2	21.1
3 22	12 56.61	+28 53.7	2.264	3.154	9.6	21.1
4 1	12 46.10	+29 8.4	2.289	3.169	10.1	21.2
4 11	12 35.89	+28 56.2	2.338	3.183	11.3	21.3
4 21	12 26.82	+28 18.0	2.411	3.197	13.0	21.4
5 1	12 19.57	+27 16.8	2.505	3.210	14.6	21.5
5 11	12 14.50	+25 57.2	2.616	3.222	16.0	21.7

92553 2000 OR_{37} 4 1.8 66.°47 3.°8/ 5.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.41	−16 44.2	1.424	2.266	16.7	18.9
3 12	13 2.33	−16 22.3	1.355	2.269	12.8	18.7
3 22	12 54.87	−15 35.1	1.307	2.272	8.3	18.4
4 1	12 45.98	−14 25.6	1.284	2.275	4.4	18.2
4 11	12 36.99	−13 1.4	1.287	2.278	4.9	18.3
4 21	12 29.15	−11 32.6	1.315	2.281	9.2	18.5
5 1	12 23.50	−10 9.6	1.367	2.284	13.5	18.8
5 11	12 20.60	− 9 0.8	1.439	2.287	17.4	19.0

117076 2004 KM_{17} 4 1.8 334.°29 1.°2/31.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.50	− 3 11.3	1.941	2.813	11.6	19.8
3 12	12 59.76	− 2 36.9	1.866	2.806	8.1	19.6
3 22	12 53.31	− 1 54.7	1.817	2.800	4.2	19.3
4 1	12 45.86	− 1 9.4	1.795	2.793	1.3	19.1
4 11	12 38.30	− 0 26.9	1.801	2.788	4.6	19.3
4 21	12 31.50	+ 0 7.6	1.834	2.782	8.5	19.5
5 1	12 26.21	+ 0 30.0	1.892	2.777	12.0	19.7
5 11	12 22.94	+ 0 37.9	1.970	2.772	15.1	19.9

439283 2012 UQ_{77} 4 1.8 19.°06 10.°0/15.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.19	−37 12.4	1.812	2.527	18.5	19.9
3 12	12 58.50	−37 11.0	1.739	2.536	16.2	19.7
3 22	12 52.74	−36 34.1	1.682	2.546	13.8	19.5
4 1	12 45.81	−35 20.2	1.646	2.556	11.6	19.4
4 11	12 38.88	−33 32.6	1.634	2.568	10.2	19.4
4 21	12 33.02	−31 19.7	1.646	2.580	10.3	19.4
5 1	12 29.08	−28 52.9	1.683	2.594	11.8	19.5
5 11	12 27.55	−26 25.0	1.743	2.608	14.1	19.7

401158 2011 WP_{27} 4 1.8 130.°21 3.°8/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.64	+ 2 31.5	1.730	2.608	12.5	21.2
3 12	13 3.34	+ 3 42.9	1.680	2.621	8.7	21.0
3 22	12 55.17	+ 4 57.3	1.654	2.633	5.1	20.8
4 1	12 46.01	+ 6 6.8	1.657	2.645	4.0	20.8
4 11	12 36.94	+ 7 3.7	1.688	2.657	6.9	21.0
4 21	12 28.94	+ 7 42.9	1.744	2.668	10.6	21.2
5 1	12 22.81	+ 8 1.7	1.825	2.678	13.9	21.4
5 11	12 18.97	+ 8 0.3	1.924	2.687	16.7	21.7

262374 2006 TX_{99} 4 1.9 78.°43 2.°4/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.80	−14 22.5	1.616	2.459	15.0	21.2
3 12	13 2.19	−13 48.6	1.561	2.478	11.1	21.0
3 22	12 54.60	−12 54.8	1.529	2.498	6.8	20.8
4 1	12 45.96	−11 45.5	1.522	2.517	2.9	20.6
4 11	12 37.43	−10 28.2	1.544	2.536	4.1	20.7
4 21	12 30.04	− 9 11.5	1.592	2.555	8.2	21.0
5 1	12 24.60	− 8 3.2	1.665	2.574	12.1	21.3
5 11	12 21.56	− 7 8.9	1.759	2.592	15.4	21.5

24550 2001 DM_{71} 4 1.9 313.°93 0.°3/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.85	− 7 34.3	2.400	3.255	10.3	19.3
3 12	12 59.05	− 7 10.6	2.321	3.250	7.4	19.1
3 22	12 52.85	− 6 37.5	2.268	3.246	4.0	18.9
4 1	12 45.83	− 5 58.4	2.243	3.241	0.5	18.6
4 11	12 38.73	− 5 17.6	2.247	3.237	3.2	18.8
4 21	12 32.24	− 4 39.4	2.279	3.233	6.6	19.0
5 1	12 26.98	− 4 7.9	2.337	3.229	9.8	19.2
5 11	12 23.40	− 3 46.2	2.418	3.225	12.5	19.4

151009 2001 UD_{81} 4 1.9 41.°62 0.°5/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.67	− 9 9.4	1.468	2.336	14.8	19.6
3 12	13 0.86	− 8 27.7	1.412	2.347	10.6	19.4
3 22	12 53.97	− 7 29.6	1.379	2.359	5.8	19.1
4 1	12 45.92	− 6 21.2	1.372	2.371	0.9	18.8
4 11	12 37.92	− 5 10.9	1.391	2.383	4.4	19.1
4 21	12 31.05	− 4 7.0	1.436	2.396	9.2	19.4
5 1	12 26.18	− 3 16.3	1.504	2.409	13.3	19.7
5 11	12 23.78	− 2 43.0	1.592	2.423	16.8	19.9

112192 2002 JR_{106} 4 1.9 306.°35 4.°7/ 5.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.48	−16 53.2	1.440	2.279	16.7	19.8
3 12	13 3.27	−17 6.8	1.360	2.271	13.0	19.5
3 22	12 55.50	−16 57.5	1.302	2.262	8.8	19.2
4 1	12 46.06	−16 25.7	1.267	2.254	5.3	19.0
4 11	12 36.29	−15 36.0	1.257	2.246	5.6	19.0
4 21	12 27.54	−14 36.3	1.273	2.238	9.5	19.2
5 1	12 20.99	−13 35.9	1.312	2.231	13.9	19.4
5 11	12 17.35	−12 43.6	1.371	2.223	17.8	19.6

86877 2000 HG_{22} 4 1.9 273.°24 2.°9/ 4.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.16	−16 26.0	1.783	2.617	14.2	20.0
3 12	13 0.53	−15 43.1	1.690	2.601	10.9	19.7
3 22	12 53.88	−14 37.0	1.620	2.585	7.0	19.4
4 1	12 45.94	−13 10.8	1.577	2.569	3.4	19.2
4 11	12 37.75	−11 31.2	1.561	2.553	4.1	19.2
4 21	12 30.34	− 9 47.3	1.573	2.536	8.2	19.4
5 1	12 24.63	− 8 8.8	1.610	2.520	12.3	19.6
5 11	12 21.24	− 6 43.9	1.669	2.503	16.0	19.8

191789 2004 TG_{132} 4 1.9 180.°22 0.°9/31.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.53	− 5 11.8	2.072	2.935	11.3	20.2
3 12	13 0.36	− 4 16.8	2.000	2.936	7.9	20.0
3 22	12 53.60	− 3 11.9	1.955	2.936	4.1	19.8
4 1	12 45.92	− 2 2.4	1.938	2.936	0.9	19.5
4 11	12 38.19	− 0 54.8	1.950	2.936	4.2	19.8
4 21	12 31.22	+ 0 4.8	1.990	2.936	8.0	20.0
5 1	12 25.71	+ 0 51.7	2.055	2.935	11.5	20.2
5 11	12 22.13	+ 1 23.0	2.142	2.934	14.4	20.4

12809 1996 BB 4 1.9 225.°78 4.°4/27.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.87	+ 6 48.4	2.275	3.152	9.9	17.8
3 12	13 0.53	+ 7 58.5	2.205	3.143	7.2	17.6
3 22	12 53.67	+ 9 8.8	2.163	3.134	4.9	17.5
4 1	12 45.93	+10 12.8	2.148	3.125	4.7	17.4
4 11	12 38.10	+11 4.4	2.163	3.115	6.9	17.6
4 21	12 30.95	+11 39.5	2.204	3.105	9.8	17.7
5 1	12 25.15	+11 56.0	2.269	3.095	12.5	17.9
5 11	12 21.15	+11 53.7	2.354	3.084	14.9	18.0

362439 2010 RW_{61} 4 1.9 269.°75 0.°5/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.59	− 8 1.1	1.669	2.528	13.8	21.6
3 12	13 3.83	− 7 39.9	1.577	2.507	10.0	21.3
3 22	12 55.74	− 7 4.5	1.508	2.486	5.6	21.0
4 1	12 46.11	− 6 18.6	1.465	2.464	0.8	20.6
4 11	12 36.07	− 5 28.2	1.451	2.442	4.5	20.8
4 21	12 26.81	− 4 40.3	1.463	2.420	9.4	21.1
5 1	12 19.41	− 4 1.8	1.499	2.397	13.9	21.3
5 11	12 14.59	− 3 37.5	1.556	2.373	17.7	21.5

4370 Dickens 4 1.9 181.°28 0.°7/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.47	− 9 38.3	1.782	2.632	13.5	18.4
3 12	13 4.10	− 8 57.3	1.708	2.634	9.7	18.2
3 22	12 55.69	− 8 0.9	1.658	2.635	5.4	17.9
4 1	12 46.09	− 6 53.8	1.636	2.635	1.0	17.6
4 11	12 36.39	− 5 43.0	1.643	2.634	4.1	17.9
4 21	12 27.66	− 4 36.1	1.677	2.632	8.6	18.1
5 1	12 20.76	− 3 39.7	1.737	2.630	12.6	18.3
5 11	12 16.25	− 2 58.3	1.819	2.626	15.9	18.6

504985 2011 HT_{33} 4 1.9 312°.73 3°.9/29.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 3.76	+ 1 40.4	1.657	2.544	12.3	21.2
3 12	12 59.55	+ 2 57.2	1.579	2.526	8.7	20.9
3 22	12 53.35	+ 4 21.2	1.527	2.508	5.1	20.6
4 1	12 45.91	+ 5 44.0	1.501	2.490	4.1	20.5
4 11	12 38.25	+ 6 56.4	1.501	2.473	7.3	20.7
4 21	12 31.40	+ 7 51.1	1.527	2.456	11.4	20.9
5 1	12 26.26	+ 8 23.5	1.575	2.439	15.2	21.1
5 11	12 23.42	+ 8 32.0	1.641	2.423	18.4	21.2

90420 2003 YX_{138} 4 1.9 9°.47 0°.8/ 1.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.77	− 4 55.7	1.953	2.821	11.7	19.5
3 12	12 59.91	− 4 14.3	1.884	2.821	8.2	19.3
3 22	12 53.39	− 3 23.5	1.840	2.822	4.3	19.1
4 1	12 45.91	− 2 28.2	1.823	2.822	0.8	18.8
4 11	12 38.38	− 1 34.7	1.835	2.823	4.3	19.1
4 21	12 31.64	− 0 48.5	1.875	2.824	8.2	19.3
5 1	12 26.42	− 0 14.2	1.938	2.825	11.7	19.5
5 11	12 23.20	+ 0 5.4	2.023	2.827	14.7	19.7

406376 2007 RN_{302} 4 1.9 175°.51 0°.3/ 1.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.38	− 6 43.5	1.939	2.795	12.3	22.5
3 12	13 3.17	− 6 0.5	1.867	2.798	8.7	22.3
3 22	12 55.13	− 5 6.1	1.821	2.801	4.6	22.0
4 1	12 46.05	− 4 5.1	1.803	2.802	0.4	21.7
4 11	12 36.91	− 3 4.0	1.814	2.803	4.1	22.0
4 21	12 28.64	− 2 9.1	1.853	2.803	8.3	22.3
5 1	12 22.05	− 1 25.5	1.918	2.802	12.0	22.5
5 11	12 17.62	− 0 56.6	2.004	2.801	15.1	22.7

53532 2000 AJ_{212} 4 1.9 244°.90 2°.9/ 4.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.58	−13 46.8	1.697	2.534	14.7	19.7
3 12	13 5.26	−13 41.9	1.603	2.517	11.1	19.4
3 22	12 56.53	−13 18.5	1.532	2.500	7.0	19.1
4 1	12 46.18	−12 38.1	1.488	2.481	3.3	18.9
4 11	12 35.40	−11 45.3	1.472	2.462	4.5	18.9
4 21	12 25.45	−10 47.4	1.482	2.443	8.9	19.1
5 1	12 17.42	− 9 52.1	1.518	2.422	13.3	19.3
5 11	12 12.07	− 9 6.7	1.575	2.401	17.2	19.5

48024 2001 DJ_{17} 4 1.9 301°.01 5°.5/28.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.39	+ 5 56.9	1.455	2.344	13.6	18.6
3 12	13 2.99	+ 6 59.6	1.389	2.334	9.8	18.4
3 22	12 55.24	+ 8 3.3	1.346	2.323	6.4	18.2
4 1	12 46.07	+ 8 58.7	1.329	2.313	5.8	18.1
4 11	12 36.73	+ 9 37.3	1.338	2.303	8.9	18.2
4 21	12 28.46	+ 9 53.3	1.370	2.293	12.9	18.4
5 1	12 22.27	+ 9 44.6	1.424	2.283	16.8	18.7
5 11	12 18.79	+ 9 12.3	1.495	2.273	20.1	18.9

303671 2005 MS_{38} 4 1.9 225°.90 0°.2/ 1.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.40	− 6 20.4	2.640	3.493	9.5	22.2
3 12	12 59.36	− 5 45.7	2.556	3.485	6.7	22.0
3 22	12 53.00	− 5 2.8	2.498	3.477	3.6	21.7
4 1	12 45.89	− 4 15.0	2.469	3.469	0.3	21.4
4 11	12 38.67	− 3 26.8	2.471	3.460	3.2	21.7
4 21	12 32.00	− 2 42.2	2.502	3.451	6.4	21.9
5 1	12 26.46	− 2 5.3	2.559	3.441	9.4	22.0
5 11	12 22.48	− 1 38.8	2.639	3.432	11.9	22.2

198863 2005 QL_{23} 4 1.9 213°.32 0°.6/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.73	− 5 57.8	1.586	2.452	14.1	21.4
3 12	13 4.54	− 5 15.8	1.511	2.446	10.0	21.1
3 22	12 56.04	− 4 20.5	1.459	2.440	5.3	20.8
4 1	12 46.14	− 3 17.6	1.434	2.433	0.7	20.4
4 11	12 36.03	− 2 14.7	1.436	2.425	5.0	20.7
4 21	12 26.93	− 1 19.8	1.466	2.417	9.9	21.0
5 1	12 19.85	− 0 39.0	1.519	2.408	14.2	21.2
5 11	12 15.40	− 0 16.1	1.592	2.398	17.9	21.4

33911 2000 LM_{11} 4 1.9 111°.31 4°.9/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.32	+ 5 38.4	1.904	2.786	11.3	17.9
3 12	13 0.89	+ 7 20.6	1.860	2.801	8.0	17.7
3 22	12 53.84	+ 9 2.6	1.843	2.816	5.4	17.6
4 1	12 45.95	+10 35.8	1.855	2.831	5.3	17.6
4 11	12 38.15	+11 52.3	1.894	2.846	7.8	17.8
4 21	12 31.29	+12 47.3	1.960	2.860	10.8	18.0
5 1	12 26.04	+13 18.7	2.048	2.873	13.7	18.2
5 11	12 22.81	+13 27.3	2.155	2.886	16.1	18.4

497187 2004 TU_{71} 4 1.9 266°.93 0°.5/ 2.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.53	−10 26.7	2.065	2.914	12.0	21.8
3 12	13 0.58	− 9 27.4	1.965	2.890	8.7	21.6
3 22	12 53.85	− 8 11.4	1.889	2.866	4.9	21.3
4 1	12 45.96	− 6 42.9	1.842	2.841	0.8	20.9
4 11	12 37.80	− 5 8.8	1.825	2.816	3.8	21.1
4 21	12 30.25	− 3 36.9	1.836	2.790	8.0	21.3
5 1	12 24.14	− 2 14.7	1.873	2.763	11.9	21.5
5 11	12 20.05	− 1 7.8	1.932	2.737	15.2	21.7

385279 2001 SD_{221} 4 1.9 246°.35 0°.3/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.66	− 6 45.3	2.320	3.171	10.7	20.9
3 12	13 1.82	− 6 37.4	2.235	3.163	7.7	20.7
3 22	12 54.39	− 6 21.1	2.177	3.155	4.2	20.5
4 1	12 46.01	− 5 59.2	2.147	3.146	0.6	20.2
4 11	12 37.48	− 5 35.3	2.147	3.137	3.4	20.4
4 21	12 29.60	− 5 13.5	2.175	3.128	7.0	20.6
5 1	12 23.06	− 4 57.5	2.230	3.119	10.3	20.8
5 11	12 18.37	− 4 50.2	2.307	3.110	13.1	20.9

156960 2003 HM_{24} 4 1.9 335°.45 9°.5/24.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.15	+16 6.5	1.451	2.338	13.8	19.5
3 12	13 2.10	+17 27.8	1.397	2.328	11.1	19.4
3 22	12 54.74	+18 38.3	1.367	2.318	9.6	19.2
4 1	12 46.04	+19 27.1	1.360	2.309	10.1	19.2
4 11	12 37.27	+19 46.3	1.377	2.301	12.5	19.3
4 21	12 29.65	+19 33.0	1.415	2.293	15.6	19.5
5 1	12 24.15	+18 48.6	1.473	2.286	18.6	19.7
5 11	12 21.32	+17 37.4	1.545	2.280	21.3	19.9

404355 2013 GH_{12} 4 1.9 12°.41 0°.8/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.50	− 9 42.0	1.186	2.063	16.9	20.1
3 12	13 1.23	− 9 2.3	1.126	2.065	12.2	19.9
3 22	12 54.38	− 8 1.8	1.087	2.067	6.8	19.6
4 1	12 46.01	− 6 46.8	1.071	2.070	1.2	19.2
4 11	12 37.56	− 5 27.8	1.080	2.074	5.1	19.5
4 21	12 30.40	− 4 15.3	1.113	2.078	10.6	19.8
5 1	12 25.60	− 3 18.6	1.168	2.083	15.5	20.1
5 11	12 23.76	− 2 42.9	1.240	2.089	19.6	20.4

299717 2006 RF_{7} 4 1.9 112°.20 0°.1/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.51	− 7 39.2	2.369	3.224	10.4	21.0
3 12	12 58.77	− 6 47.4	2.301	3.232	7.3	20.8
3 22	12 52.69	− 5 45.6	2.260	3.239	3.9	20.6
4 1	12 45.87	− 4 38.1	2.247	3.246	0.3	20.3
4 11	12 39.05	− 3 30.4	2.264	3.253	3.4	20.6
4 21	12 32.91	− 2 27.9	2.309	3.260	6.8	20.8
5 1	12 28.02	− 1 35.2	2.381	3.267	9.9	21.0
5 11	12 24.79	− 0 55.4	2.476	3.274	12.5	21.2

356942 2012 TO_{286} 4 1.9 79°.43 1°.8/31.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.82	− 0 28.1	2.249	3.117	10.4	20.9
3 12	13 1.05	+ 0 1.3	2.196	3.134	7.2	20.7
3 22	12 53.88	+ 0 34.4	2.169	3.150	3.8	20.5
4 1	12 45.98	+ 1 7.0	2.171	3.167	1.8	20.4
4 11	12 38.15	+ 1 34.6	2.202	3.183	4.4	20.6
4 21	12 31.13	+ 1 53.7	2.261	3.200	7.7	20.8
5 1	12 25.51	+ 2 1.7	2.346	3.216	10.6	21.1
5 11	12 21.69	+ 1 57.6	2.452	3.232	13.1	21.3

91495 1999 RZ_{138} 4 1.9 175°.86 1°.2/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.80	−12 5.0	2.608	3.440	10.3	20.1
3 12	13 0.32	−11 23.3	2.528	3.443	7.5	19.9
3 22	12 53.51	−10 29.2	2.475	3.445	4.4	19.7
4 1	12 45.96	− 9 25.9	2.450	3.447	1.4	19.5
4 11	12 38.36	− 8 18.2	2.457	3.448	2.9	19.6
4 21	12 31.38	− 7 11.1	2.493	3.448	6.1	19.8
5 1	12 25.61	− 6 9.7	2.556	3.448	9.1	20.0
5 11	12 21.46	− 5 18.0	2.644	3.447	11.6	20.2

376025 2010 BK_{1} 4 1.9 150°.09 1°.0/ 2.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.09	−10 34.8	2.076	2.923	12.0	21.4
3 12	13 0.79	−10 1.5	2.003	2.927	8.7	21.2
3 22	12 53.85	− 9 14.7	1.956	2.930	5.0	21.0
4 1	12 45.99	− 8 18.2	1.936	2.934	1.3	20.8
4 11	12 38.08	− 7 17.6	1.945	2.937	3.4	20.9
4 21	12 30.95	− 6 18.9	1.982	2.940	7.2	21.2
5 1	12 25.31	− 5 27.6	2.045	2.943	10.7	21.4
5 11	12 21.63	− 4 48.0	2.131	2.945	13.7	21.6

54974 2001 PA_{45} 4 1.9 353°.05 1°.5/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.24	− 9 16.5	1.914	2.765	12.7	18.7
3 12	13 2.47	− 9 24.9	1.839	2.763	9.2	18.4
3 22	12 54.84	− 9 22.0	1.787	2.762	5.4	18.2
4 1	12 46.08	− 9 10.0	1.764	2.761	1.7	18.0
4 11	12 37.18	− 8 52.8	1.768	2.760	3.7	18.1
4 21	12 29.11	− 8 34.7	1.800	2.759	7.7	18.3
5 1	12 22.69	− 8 20.4	1.857	2.759	11.4	18.5
5 11	12 18.46	− 8 13.8	1.935	2.759	14.5	18.8

365447 2010 MY_{105} 4 1.9 257°.95 2°.7/30.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.41	− 0 42.2	1.748	2.623	12.5	21.2
3 12	13 2.83	+ 0 19.4	1.663	2.604	8.8	20.9
3 22	12 55.14	+ 1 29.7	1.603	2.585	4.8	20.6
4 1	12 46.11	+ 2 41.9	1.571	2.565	2.8	20.4
4 11	12 36.79	+ 3 47.8	1.567	2.545	6.2	20.6
4 21	12 28.25	+ 4 40.2	1.589	2.524	10.5	20.8
5 1	12 21.47	+ 5 14.1	1.634	2.503	14.5	21.0
5 11	12 17.06	+ 5 27.2	1.699	2.481	17.9	21.2

320313 2007 TG_2 4 1.9 220°.47 0°.8/ 1.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 5.80	− 4 21.0	2.366	3.226	10.2	21.4
3 12	13 0.46	− 3 45.9	2.286	3.220	7.2	21.2
3 22	12 53.65	− 3 3.3	2.233	3.214	3.8	20.9
4 1	12 45.98	− 2 17.2	2.208	3.207	0.8	20.7
4 11	12 38.21	− 1 32.2	2.214	3.200	3.8	20.9
4 21	12 31.08	− 0 53.1	2.247	3.193	7.3	21.1
5 1	12 25.23	− 0 23.5	2.307	3.186	10.4	21.3
5 11	12 21.13	− 0 6.1	2.389	3.178	13.1	21.5

388718 2007 VU_{143} 4 1.9 148°.89 3°.7/28.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.15	+ 6 15.5	2.499	3.371	9.3	21.7
3 12	13 0.53	+ 7 4.9	2.441	3.378	6.6	21.6
3 22	12 53.60	+ 7 53.6	2.410	3.384	4.3	21.4
4 1	12 45.97	+ 8 36.5	2.409	3.390	3.9	21.4
4 11	12 38.36	+ 9 9.0	2.437	3.395	5.8	21.6
4 21	12 31.44	+ 9 28.3	2.492	3.400	8.5	21.7
5 1	12 25.78	+ 9 32.7	2.572	3.405	11.0	21.9
5 11	12 21.77	+ 9 22.2	2.673	3.409	13.1	22.1

377395 2004 RW_{349} 4 1.9 351°.19 1°.3/31.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.60	− 5 38.8	1.391	2.275	14.5	20.3
3 12	12 58.93	− 4 32.4	1.325	2.270	10.2	20.0
3 22	12 53.08	− 3 10.6	1.281	2.265	5.3	19.7
4 1	12 45.94	− 1 41.3	1.263	2.261	1.3	19.5
4 11	12 38.69	− 0 14.8	1.270	2.258	5.6	19.7
4 21	12 32.45	+ 0 59.2	1.302	2.256	10.6	20.0
5 1	12 28.17	+ 1 53.6	1.356	2.255	15.0	20.3
5 11	12 26.42	+ 2 24.7	1.429	2.255	18.7	20.5

297680 2001 US_{144} 4 1.9 252°.23 3°.1/29.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.26	+ 4 9.5	2.381	3.252	9.8	20.6
3 12	13 1.49	+ 4 43.4	2.303	3.240	6.9	20.4
3 22	12 54.21	+ 5 18.3	2.251	3.228	4.1	20.2
4 1	12 46.03	+ 5 49.6	2.228	3.216	3.2	20.1
4 11	12 37.75	+ 6 12.6	2.235	3.204	5.5	20.2
4 21	12 30.10	+ 6 24.1	2.269	3.191	8.5	20.4
5 1	12 23.76	+ 6 22.0	2.328	3.178	11.4	20.5
5 11	12 19.20	+ 6 5.8	2.409	3.165	13.9	20.7

469824 2005 SN_{195} 4 1.9 161°.86 0°.4/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.95	− 6 35.9	2.567	3.424	9.7	21.9
3 12	12 58.33	− 5 44.0	2.494	3.426	6.8	21.7
3 22	12 52.46	− 4 43.3	2.448	3.428	3.6	21.5
4 1	12 45.89	− 3 37.8	2.430	3.429	0.4	21.2
4 11	12 39.29	− 2 32.8	2.443	3.431	3.3	21.4
4 21	12 33.29	− 1 33.0	2.484	3.433	6.5	21.7
5 1	12 28.43	− 0 42.6	2.553	3.434	9.5	21.8
5 11	12 25.10	− 0 4.5	2.643	3.435	11.9	22.0

68364 2001 OA_{60} 4 1.9 158°.81 0°.5/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.13	− 8 59.9	2.101	2.949	11.8	20.3
3 12	13 2.18	− 8 23.9	2.030	2.955	8.5	20.1
3 22	12 54.59	− 7 35.7	1.985	2.961	4.7	19.8
4 1	12 46.07	− 6 39.5	1.968	2.967	0.8	19.6
4 11	12 37.52	− 5 40.9	1.981	2.972	3.5	19.8
4 21	12 29.79	− 4 45.6	2.022	2.976	7.4	20.0
5 1	12 23.59	− 3 58.9	2.089	2.980	10.9	20.3
5 11	12 19.37	− 3 24.4	2.179	2.983	13.8	20.5

276807 2004 PP_{21} 4 1.9 283°.47 2°.3/30.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.10	− 1 42.1	1.731	2.608	12.5	20.6
3 12	13 1.13	− 0 46.4	1.655	2.597	8.7	20.4
3 22	12 54.19	+ 0 18.1	1.604	2.586	4.7	20.1
4 1	12 46.05	+ 1 24.8	1.580	2.575	2.3	19.9
4 11	12 37.74	+ 2 25.9	1.583	2.564	5.7	20.1
4 21	12 30.27	+ 3 14.7	1.612	2.554	10.0	20.3
5 1	12 24.51	+ 3 46.4	1.665	2.543	13.8	20.5
5 11	12 21.03	+ 3 58.7	1.738	2.532	17.1	20.7

509909 2009 EB_{16} 4 1.9 298°.26 1°.3/31.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.44	− 3 15.7	2.061	2.931	11.1	21.1
3 12	12 59.76	− 2 32.7	1.974	2.913	7.8	20.9
3 22	12 53.39	− 1 41.2	1.912	2.895	4.1	20.6
4 1	12 45.99	− 0 46.0	1.879	2.877	1.3	20.3
4 11	12 38.38	+ 0 7.0	1.874	2.859	4.6	20.5
4 21	12 31.43	+ 0 52.0	1.896	2.841	8.4	20.7
5 1	12 25.88	+ 1 24.6	1.943	2.824	12.0	20.9
5 11	12 22.27	+ 1 41.9	2.011	2.806	15.0	21.1

332354 2007 EN_{14} 4 1.9 43°.84 6°.2/26.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.31	+ 6 17.2	1.490	2.384	13.0	20.3
3 12	12 59.86	+ 8 13.1	1.448	2.394	9.4	20.1
3 22	12 53.45	+10 8.6	1.430	2.404	6.6	20.0
4 1	12 45.98	+11 52.2	1.439	2.414	6.7	20.0
4 11	12 38.59	+13 13.9	1.474	2.425	9.6	20.2
4 21	12 32.31	+14 7.7	1.533	2.436	13.1	20.4
5 1	12 27.92	+14 32.0	1.612	2.448	16.3	20.7
5 11	12 25.87	+14 28.6	1.708	2.460	18.9	20.9

391746 2008 DH_{12} 4 1.9 118°.23 3°.9/ 6.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.02	−20 40.3	2.824	3.608	10.9	22.2
3 12	13 1.82	−20 51.2	2.753	3.626	8.6	22.1
3 22	12 54.30	−20 47.4	2.707	3.643	6.2	22.0
4 1	12 46.06	−20 29.5	2.689	3.660	4.3	21.8
4 11	12 37.80	−20 0.1	2.700	3.676	4.1	21.9
4 21	12 30.19	−19 22.7	2.740	3.692	5.8	22.0
5 1	12 23.82	−18 41.9	2.809	3.707	8.1	22.2
5 11	12 19.08	−18 2.4	2.901	3.722	10.3	22.3

497128 2004 PU_{19} 4 1.9 213°.34 1°.4/ 3.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.54	−11 16.2	2.686	3.515	10.1	22.4
3 12	13 2.32	−11 1.4	2.592	3.505	7.5	22.2
3 22	12 54.64	−10 35.8	2.525	3.494	4.4	22.0
4 1	12 46.09	−10 1.4	2.487	3.483	1.6	21.8
4 11	12 37.38	− 9 21.8	2.480	3.471	2.9	21.9
4 21	12 29.23	− 8 41.1	2.503	3.458	6.1	22.1
5 1	12 22.27	− 8 3.5	2.554	3.444	9.1	22.2
5 11	12 16.97	− 7 32.7	2.629	3.430	11.8	22.4

259593 2003 UZ_{244} 4 1.9 138°.06 1°.7/31.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.93	− 3 9.7	1.769	2.639	12.7	21.1
3 12	13 2.92	− 2 15.6	1.709	2.648	8.8	20.9
3 22	12 55.04	− 1 12.9	1.675	2.657	4.6	20.6
4 1	12 46.13	− 0 7.8	1.668	2.665	1.7	20.5
4 11	12 37.24	+ 0 52.3	1.689	2.673	5.1	20.7
4 21	12 29.34	+ 1 41.2	1.738	2.680	9.2	21.0
5 1	12 23.24	+ 2 14.5	1.810	2.687	12.9	21.2
5 11	12 19.40	+ 2 30.3	1.903	2.694	16.0	21.4

349046 2006 VD_{134} 4 1.9 194°.19 3°.8/27.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.81	+ 8 24.4	2.852	3.721	8.4	21.1
3 12	13 0.23	+ 9 10.7	2.786	3.719	6.1	21.0
3 22	12 53.45	+ 9 55.0	2.748	3.716	4.2	20.8
4 1	12 46.00	+10 32.9	2.739	3.713	4.0	20.8
4 11	12 38.53	+11 0.7	2.760	3.710	5.7	20.9
4 21	12 31.63	+11 15.5	2.809	3.706	8.1	21.1
5 1	12 25.84	+11 16.3	2.883	3.701	10.3	21.2
5 11	12 21.52	+11 3.0	2.978	3.697	12.3	21.3

290388 2005 TJ_7 4 1.9 216°.79 4°.0/ 6.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.65	−21 14.0	2.901	3.685	10.6	21.6
3 12	13 0.27	−21 17.9	2.806	3.678	8.5	21.5
3 22	12 53.55	−21 6.9	2.736	3.671	6.2	21.3
4 1	12 46.01	−20 41.5	2.693	3.663	4.4	21.2
4 11	12 38.34	−20 4.1	2.679	3.656	4.1	21.1
4 21	12 31.18	−19 18.1	2.694	3.647	5.8	21.2
5 1	12 25.12	−18 28.4	2.737	3.639	8.2	21.4
5 11	12 20.62	−17 39.6	2.804	3.630	10.5	21.5

98288 2000 SY_{222} 4 1.9 34°.05 0°.5/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.86	− 8 45.2	1.174	2.053	17.0	18.8
3 12	13 2.13	− 8 10.6	1.122	2.062	12.1	18.6
3 22	12 54.84	− 7 17.4	1.091	2.072	6.7	18.3
4 1	12 46.12	− 6 12.2	1.085	2.084	0.9	17.9
4 11	12 37.45	− 5 4.8	1.102	2.095	5.1	18.2
4 21	12 30.17	− 4 5.0	1.144	2.108	10.5	18.6
5 1	12 25.31	− 3 20.6	1.207	2.121	15.3	18.9
5 11	12 23.38	− 2 55.9	1.289	2.134	19.2	19.2

53334 1999 JJ_{41} 4 1.9 9°.56 1°.7/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.37	−13 27.1	2.148	2.987	11.9	19.3
3 12	12 58.88	−12 46.1	2.070	2.987	8.8	19.1
3 22	12 52.87	−11 49.3	2.018	2.987	5.3	18.8
4 1	12 45.97	−10 40.2	1.993	2.988	2.1	18.6
4 11	12 39.01	− 9 24.7	1.996	2.988	3.3	18.7
4 21	12 32.76	− 8 9.1	2.028	2.989	6.8	18.9
5 1	12 27.89	− 6 59.9	2.086	2.990	10.2	19.1
5 11	12 24.87	− 6 2.1	2.167	2.991	13.2	19.3

210405 2007 VG_{300} 4 1.9 99°.38 6°.7/23.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.88	+13 39.3	2.214	3.093	10.1	19.8
3 12	12 59.11	+15 31.2	2.175	3.103	7.9	19.7
3 22	12 52.92	+17 16.5	2.163	3.113	6.7	19.6
4 1	12 45.97	+18 47.1	2.179	3.122	7.3	19.7
4 11	12 39.06	+19 56.8	2.223	3.132	9.2	19.8
4 21	12 32.91	+20 42.4	2.291	3.141	11.5	20.0
5 1	12 28.14	+21 3.2	2.380	3.150	13.6	20.2
5 11	12 25.13	+21 1.1	2.487	3.159	15.5	20.3

25205 1998 SQ_{144} 4 1.9 150°.04 0°.2/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.10	− 7 49.0	2.206	3.059	11.1	18.6
3 12	13 0.72	− 7 16.2	2.135	3.064	7.9	18.4
3 22	12 53.82	− 6 33.0	2.090	3.068	4.3	18.2
4 1	12 46.05	− 5 43.2	2.073	3.072	0.5	17.9
4 11	12 38.25	− 4 52.0	2.085	3.075	3.4	18.2
4 21	12 31.18	− 4 4.5	2.125	3.079	7.1	18.4
5 1	12 25.51	− 3 25.3	2.192	3.082	10.4	18.6
5 11	12 21.69	− 2 57.6	2.280	3.085	13.2	18.8

219586 2001 SL_{337} 4 1.9 273°.43 2°.0/30.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 5.22	− 3 48.4	1.717	2.592	12.7	21.2
3 12	13 0.57	− 2 31.4	1.636	2.577	8.9	20.9
3 22	12 53.94	− 1 1.5	1.580	2.563	4.7	20.6
4 1	12 46.07	+ 0 33.8	1.551	2.548	2.0	20.4
4 11	12 38.00	+ 2 5.3	1.551	2.534	5.7	20.6
4 21	12 30.74	+ 3 24.4	1.577	2.519	10.1	20.8
5 1	12 25.17	+ 4 24.7	1.627	2.504	14.1	21.1
5 11	12 21.88	+ 5 2.9	1.696	2.489	17.5	21.2

53974 2000 GD_{67} 4 1.9 286°.76 0°.4/ 2.3 17

3 2	13 5.22	− 8 15.1	2.062	2.918	11.7	19.7
3 12	13 0.27	− 7 46.0	1.981	2.911	8.4	19.5
3 22	12 53.66	− 7 5.2	1.925	2.903	4.6	19.2
4 1	12 46.05	− 6 16.4	1.897	2.896	0.7	18.9
4 11	12 38.30	− 5 25.0	1.897	2.888	3.6	19.1
4 21	12 31.27	− 4 36.6	1.925	2.881	7.5	19.4
5 1	12 25.68	− 3 56.4	1.978	2.874	11.1	19.6
5 11	12 22.04	− 3 28.0	2.054	2.867	14.2	19.8

471728 2012 UP_{24} 4 1.9 34°.58 4°.7/ 6.5 17

3 2	13 7.07	−19 49.6	2.070	2.877	13.5	21.2
3 12	13 1.65	−20 4.7	1.992	2.879	10.7	21.0
3 22	12 54.42	−20 1.2	1.937	2.881	7.7	20.8
4 1	12 46.12	−19 39.5	1.908	2.884	5.2	20.6
4 11	12 37.68	−19 2.7	1.906	2.887	5.0	20.6
4 21	12 30.03	−18 16.0	1.932	2.890	7.4	20.8
5 1	12 23.96	−17 25.7	1.983	2.892	10.4	21.0
5 11	12 19.99	−16 38.3	2.057	2.895	13.2	21.1

208662 2002 GD_{6} 4 1.9 242°.48 4°.8/29.3 17

3 2	13 17.57	+ 8 24.8	1.962	2.824	11.9	19.8
3 12	13 9.15	+ 8 47.3	1.876	2.806	8.8	19.6
3 22	12 58.51	+ 9 6.4	1.817	2.787	5.8	19.4
4 1	12 46.47	+ 9 16.1	1.787	2.768	5.0	19.3
4 11	12 34.17	+ 9 11.4	1.787	2.747	7.4	19.4
4 21	12 22.75	+ 8 49.7	1.815	2.726	10.9	19.6
5 1	12 13.18	+ 8 10.4	1.869	2.704	14.4	19.7
5 11	12 6.11	+ 7 15.0	1.942	2.681	17.4	19.9

237680 2001 TK_{97} 4 1.9 218°.60 2°.3/ 3.9 17

3 2	13 9.83	−13 23.2	1.709	2.550	14.4	21.0
3 12	13 3.90	−12 58.7	1.626	2.543	10.8	20.8
3 22	12 55.76	−12 15.0	1.565	2.535	6.6	20.5
4 1	12 46.24	−11 15.1	1.531	2.526	2.7	20.2
4 11	12 36.49	−10 5.3	1.526	2.517	4.2	20.3
4 21	12 27.63	− 8 53.4	1.547	2.508	8.6	20.5
5 1	12 20.67	− 7 47.6	1.593	2.497	12.8	20.8
5 11	12 16.22	− 6 54.4	1.661	2.487	16.5	21.0

508326 2015 LY_{41} 4 1.9 159°.59 5°.5/ 9.5 17

3 2	13 4.00	−27 8.3	2.604	3.360	12.4	21.0
3 12	12 59.23	−26 57.5	2.516	3.361	10.3	20.8
3 22	12 53.03	−26 26.1	2.451	3.363	8.1	20.6
4 1	12 46.01	−25 34.5	2.412	3.364	6.1	20.5
4 11	12 38.91	−24 25.7	2.400	3.365	5.5	20.5
4 21	12 32.47	−23 4.9	2.417	3.366	6.6	20.6
5 1	12 27.30	−21 38.5	2.461	3.367	8.8	20.7
5 11	12 23.84	−20 13.2	2.529	3.368	11.1	20.8

211181 2002 JA_{91} 4 1.9 326°.48 2°.9/30.9 18

3 2	13 10.17	+ 0 31.7	1.349	2.234	14.8	19.8
3 12	13 4.43	+ 0 58.6	1.283	2.228	10.4	19.5
3 22	12 56.13	+ 1 31.1	1.239	2.221	5.7	19.3
4 1	12 46.28	+ 2 2.3	1.220	2.215	3.0	19.1
4 11	12 36.25	+ 2 24.9	1.227	2.210	6.8	19.3
4 21	12 27.40	+ 2 33.2	1.258	2.205	11.6	19.5
5 1	12 20.82	+ 2 23.8	1.312	2.200	16.1	19.8
5 11	12 17.16	+ 1 55.9	1.383	2.196	19.8	20.0

365175 2009 EE_{22} 4 1.9 41°.82 2°.6/31.1 18

3 2	13 9.00	− 1 23.6	1.172	2.062	16.1	20.5
3 12	13 3.53	− 0 41.3	1.128	2.076	11.2	20.2
3 22	12 55.54	+ 0 9.1	1.107	2.091	5.9	20.0
4 1	12 46.21	+ 0 59.5	1.110	2.106	2.7	19.8
4 11	12 37.05	+ 1 40.5	1.137	2.122	6.7	20.1
4 21	12 29.39	+ 2 5.7	1.188	2.139	11.7	20.4
5 1	12 24.19	+ 2 11.3	1.260	2.156	16.1	20.7
5 11	12 21.91	+ 1 56.8	1.350	2.173	19.7	21.0

505080 2011 UY_{90} 4 1.9 186°.40 0°.0/ 1.8 17

3 2	13 3.27	− 7 50.7	2.756	3.605	9.3	22.5
3 12	12 58.53	− 6 58.6	2.677	3.605	6.6	22.3
3 22	12 52.59	− 5 57.2	2.625	3.604	3.5	22.1
4 1	12 45.98	− 4 50.2	2.604	3.603	0.3	21.8
4 11	12 39.32	− 3 42.5	2.612	3.601	3.0	22.1
4 21	12 33.21	− 2 38.8	2.650	3.600	6.1	22.3
5 1	12 28.17	− 1 43.4	2.715	3.597	8.9	22.5
5 11	12 24.59	− 0 59.2	2.804	3.595	11.4	22.6

346867 2009 FZ_{15} 4 1.9 86°.93 2°.6/30.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 6.08	+ 1 59.4	2.237	3.110	10.2	21.0
3 12	13 0.64	+ 2 37.6	2.177	3.117	7.1	20.8
3 22	12 53.75	+ 3 18.2	2.143	3.123	4.0	20.6
4 1	12 46.07	+ 3 56.3	2.138	3.130	2.7	20.5
4 11	12 38.41	+ 4 27.0	2.162	3.137	5.1	20.7
4 21	12 31.50	+ 4 46.8	2.213	3.143	8.3	20.9
5 1	12 25.97	+ 4 53.4	2.289	3.150	11.2	21.1
5 11	12 22.23	+ 4 46.0	2.387	3.157	13.7	21.3

405319 2003 UJ_{149} 4 1.9 161°.76 1°.5/31.4 18

3 2	13 9.94	− 2 48.7	2.035	2.897	11.6	22.2
3 12	13 3.48	− 2 2.5	1.969	2.904	8.1	22.0
3 22	12 55.32	− 1 9.1	1.930	2.911	4.2	21.7
4 1	12 46.21	− 0 13.6	1.919	2.917	1.5	21.5
4 11	12 37.09	+ 0 37.8	1.938	2.922	4.7	21.8
4 21	12 28.84	+ 1 19.9	1.985	2.926	8.4	22.0
5 1	12 22.21	+ 1 48.8	2.058	2.929	11.8	22.2
5 11	12 17.64	+ 2 2.7	2.152	2.932	14.7	22.4

503186 2015 GS_{48} 4 1.9 150°.55 6°.8/24.9 17

3 2	13 7.66	+16 37.8	2.301	3.169	10.2	21.2
3 12	13 1.74	+17 37.5	2.253	3.172	8.1	21.0
3 22	12 54.33	+18 28.3	2.231	3.174	6.9	21.0
4 1	12 46.13	+19 4.1	2.236	3.177	7.2	21.0
4 11	12 37.98	+19 20.6	2.268	3.179	8.9	21.1
4 21	12 30.65	+19 16.0	2.325	3.182	11.1	21.2
5 1	12 24.77	+18 50.7	2.404	3.184	13.3	21.4
5 11	12 20.74	+18 7.0	2.502	3.186	15.1	21.5

368632 2004 XM_{18} 4 1.9 142°.03 1°.1/31.6 16

3 2	13 7.18	− 3 18.0	2.586	3.443	9.6	22.2
3 12	13 1.23	− 2 35.1	2.524	3.457	6.7	22.0
3 22	12 54.00	− 1 46.4	2.489	3.470	3.5	21.8
4 1	12 46.11	− 0 56.0	2.485	3.482	1.1	21.6
4 11	12 38.24	− 0 8.5	2.510	3.494	3.7	21.9
4 21	12 31.06	+ 0 32.1	2.565	3.505	6.8	22.1
5 1	12 25.13	+ 1 2.7	2.647	3.516	9.6	22.3
5 11	12 20.81	+ 1 21.4	2.752	3.525	12.0	22.5

111852 2002 EJ_{55} 4 1.9 138°.91 4°.2/27.1 18

3 2	13 2.72	+ 6 16.3	2.378	3.258	9.4	19.5
3 12	12 58.27	+ 7 43.5	2.319	3.259	6.7	19.3
3 22	12 52.50	+ 9 11.0	2.288	3.260	4.6	19.2
4 1	12 45.99	+10 32.1	2.286	3.261	4.6	19.2
4 11	12 39.46	+11 40.7	2.312	3.262	6.7	19.3
4 21	12 33.57	+12 32.6	2.366	3.263	9.3	19.5
5 1	12 28.90	+13 5.3	2.443	3.264	11.9	19.6
5 11	12 25.86	+13 18.7	2.539	3.265	14.0	19.8

206278 2003 AT_{17} 4 1.9 346°.63 14°.5/12.2 17

3 2	13 4.84	+34 25.2	1.680	2.514	15.0	18.0
3 12	13 0.47	+36 27.1	1.655	2.504	14.5	17.9
3 22	12 53.90	+38 1.3	1.650	2.495	14.9	17.9
4 1	12 46.10	+38 58.1	1.665	2.487	16.1	18.0
4 11	12 38.34	+39 12.8	1.699	2.480	17.6	18.0
4 21	12 31.74	+38 46.0	1.748	2.473	19.3	18.2
5 1	12 27.22	+37 41.9	1.811	2.468	20.8	18.3
5 11	12 25.25	+36 7.1	1.885	2.464	22.1	18.4

468906 2014 AB_{50} 4 1.9 248°.68 4°.9/ 7.5 17

3 2	13 6.04	−22 44.1	2.456	3.239	12.4	21.2
3 12	13 0.81	−22 48.6	2.359	3.228	10.0	21.1
3 22	12 53.97	−22 34.6	2.286	3.217	7.5	20.9
4 1	12 46.12	−22 2.4	2.239	3.206	5.4	20.7
4 11	12 38.07	−21 14.4	2.219	3.194	5.0	20.7
4 21	12 30.62	−20 15.2	2.228	3.182	6.8	20.8
5 1	12 24.48	−19 10.9	2.264	3.170	9.4	20.9
5 11	12 20.19	−18 7.7	2.323	3.157	12.1	21.1

239974 2001 QN_{257} 4 1.9 246°.91 7°.7/ 3.9 18

3 2	13 28.61	−13 58.8	1.076	1.915	21.2	20.1
3 12	13 19.05	−16 8.5	0.997	1.907	16.7	19.8
3 22	13 4.83	−18 6.1	0.939	1.898	11.7	19.5
4 1	12 47.09	−19 42.2	0.906	1.888	8.0	19.2
4 11	12 28.11	−20 50.3	0.899	1.879	9.2	19.3
4 21	12 10.54	−21 31.0	0.916	1.869	14.1	19.5
5 1	11 56.69	−21 52.0	0.956	1.858	19.4	19.7
5 11	11 47.77	−22 5.2	1.012	1.848	24.0	20.0

506264 2016 QB_{54} 4 1.9 284°.48 0°.9/31.7 17

3 2	13 2.39	− 6 15.4	2.233	3.096	10.6	20.8
3 12	12 58.20	− 4 58.7	2.149	3.085	7.5	20.5
3 22	12 52.54	− 3 30.0	2.091	3.073	3.9	20.3
4 1	12 46.00	− 1 55.0	2.063	3.061	0.9	20.0
4 11	12 39.35	− 0 21.0	2.064	3.050	4.1	20.3
4 21	12 33.32	+ 1 5.3	2.094	3.038	7.8	20.5
5 1	12 28.56	+ 2 18.1	2.149	3.027	11.1	20.7
5 11	12 25.52	+ 3 13.8	2.227	3.016	14.0	20.8

52856 1998 RD_{77} 4 1.9 55°.97 4°.0/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.36	+ 0 2.2	1.158	2.051	16.0	17.5
3 12	13 3.10	+ 1 20.8	1.116	2.066	11.1	17.3
3 22	12 55.32	+ 2 46.7	1.097	2.080	6.1	17.1
4 1	12 46.23	+ 4 8.8	1.102	2.095	4.2	17.0
4 11	12 37.32	+ 5 15.7	1.132	2.111	8.0	17.3
4 21	12 29.89	+ 5 59.9	1.185	2.127	12.7	17.6
5 1	12 24.92	+ 6 18.1	1.259	2.142	17.0	17.9
5 11	12 22.85	+ 6 10.8	1.350	2.158	20.4	18.1

82418 2001 NC_{17} 4 1.9 215°.21 0°.3/ 1.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.69	− 5 53.2	1.750	2.614	13.0	20.0
3 12	13 2.94	− 5 25.5	1.677	2.611	9.3	19.7
3 22	12 55.18	− 4 46.8	1.629	2.609	4.9	19.5
4 1	12 46.23	− 4 1.7	1.607	2.607	0.4	19.1
4 11	12 37.16	− 3 16.4	1.614	2.604	4.4	19.4
4 21	12 29.01	− 2 37.0	1.648	2.601	8.8	19.7
5 1	12 22.64	− 2 8.7	1.706	2.598	12.8	19.9
5 11	12 18.61	− 1 54.6	1.785	2.595	16.1	20.1

183749 2003 YM_{157} 4 1.9 100°.04 0°.3/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.04	− 7 47.4	1.667	2.526	13.8	21.1
3 12	13 3.79	− 7 19.1	1.611	2.542	9.8	20.9
3 22	12 55.56	− 6 38.2	1.578	2.557	5.3	20.7
4 1	12 46.26	− 5 49.4	1.573	2.572	0.6	20.4
4 11	12 37.02	− 4 59.2	1.595	2.586	4.2	20.7
4 21	12 28.90	− 4 14.2	1.645	2.601	8.6	20.9
5 1	12 22.71	− 3 39.8	1.719	2.615	12.5	21.2
5 11	12 18.91	− 3 19.3	1.814	2.628	15.7	21.4

161062 2002 JY_{102} 4 1.9 259°.07 5°.9/26.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.86	+11 31.3	2.149	3.024	10.5	20.0
3 12	13 2.12	+12 34.9	2.076	3.008	8.0	19.8
3 22	12 54.67	+13 34.7	2.030	2.991	6.1	19.7
4 1	12 46.19	+14 23.7	2.011	2.974	6.3	19.7
4 11	12 37.58	+14 56.1	2.020	2.957	8.4	19.8
4 21	12 29.68	+15 8.3	2.055	2.939	11.1	19.9
5 1	12 23.26	+14 59.2	2.112	2.922	13.9	20.0
5 11	12 18.82	+14 29.9	2.188	2.903	16.3	20.2

204090 2003 WW_{63} 4 1.9 166°.97 0°.5/ 2.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.07	− 8 30.3	2.238	3.088	11.1	21.2
3 12	13 0.73	− 7 59.5	2.164	3.091	8.0	21.0
3 22	12 53.86	− 7 17.9	2.116	3.093	4.4	20.8
4 1	12 46.12	− 6 29.0	2.096	3.094	0.7	20.5
4 11	12 38.33	− 5 38.0	2.105	3.096	3.3	20.7
4 21	12 31.25	− 4 49.8	2.143	3.097	7.0	20.9
5 1	12 25.54	− 4 9.3	2.206	3.098	10.3	21.1
5 11	12 21.67	− 3 39.7	2.293	3.099	13.1	21.3

62033 2000 RC_{59} 4 1.9 233°.11 0°.6/ 2.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.22	− 9 34.4	1.873	2.723	13.0	20.1
3 12	13 3.35	− 8 54.3	1.783	2.709	9.4	19.8
3 22	12 55.45	− 7 58.8	1.718	2.695	5.3	19.6
4 1	12 46.27	− 6 51.9	1.681	2.680	1.0	19.2
4 11	12 36.82	− 5 40.3	1.673	2.664	4.0	19.4
4 21	12 28.15	− 4 31.3	1.692	2.647	8.5	19.6
5 1	12 21.16	− 3 31.7	1.737	2.630	12.6	19.8
5 11	12 16.46	− 2 46.8	1.804	2.612	16.0	20.0

109725 2001 RG_{56} 4 1.9 138°.10 1°.0/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.15	− 3 54.9	2.193	3.051	11.0	20.4
3 12	13 2.80	− 3 17.0	2.132	3.065	7.7	20.2
3 22	12 54.92	− 2 32.0	2.097	3.078	4.0	20.0
4 1	12 46.21	− 1 44.3	2.092	3.090	1.0	19.8
4 11	12 37.55	− 0 59.1	2.116	3.102	4.0	20.1
4 21	12 29.71	− 0 21.3	2.169	3.113	7.6	20.3
5 1	12 23.38	+ 0 5.8	2.248	3.123	10.8	20.5
5 11	12 18.95	+ 0 20.0	2.349	3.133	13.5	20.7

87809 2000 SE_{143} 4 1.9 212°.77 1°.3/ 3.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.45	−11 40.7	2.722	3.556	9.9	20.2
3 12	12 59.43	−11 14.5	2.635	3.551	7.2	20.0
3 22	12 53.13	−10 37.2	2.575	3.545	4.3	19.8
4 1	12 46.07	− 9 51.2	2.543	3.539	1.5	19.6
4 11	12 38.92	− 9 0.5	2.541	3.533	2.8	19.7
4 21	12 32.30	− 8 9.5	2.569	3.526	5.8	19.8
5 1	12 26.80	− 7 22.4	2.624	3.519	8.7	20.0
5 11	12 22.82	− 6 43.0	2.702	3.512	11.3	20.2

420632 2012 HH_{78} 4 1.9 356°.07 7°.5/27.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.01	+11 3.6	1.290	2.182	14.8	19.4
3 12	13 4.30	+11 44.7	1.237	2.178	11.1	19.1
3 22	12 56.03	+12 18.2	1.205	2.175	8.1	19.0
4 1	12 46.32	+12 34.8	1.198	2.173	7.8	18.9
4 11	12 36.59	+12 27.6	1.215	2.172	10.5	19.1
4 21	12 28.20	+11 54.3	1.254	2.172	14.3	19.3
5 1	12 22.20	+10 56.1	1.314	2.173	17.9	19.5
5 11	12 19.13	+ 9 36.8	1.390	2.174	21.1	19.7

225815 2001 WP_{8} 4 1.9 256°.66 8°.1/25.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 10.38	+16 7.5	1.789	2.662	12.3	19.8
3 12	13 4.07	+17 13.6	1.733	2.656	9.8	19.7
3 22	12 55.75	+18 9.9	1.702	2.650	8.3	19.5
4 1	12 46.29	+18 47.8	1.697	2.644	8.6	19.5
4 11	12 36.81	+19 1.4	1.718	2.638	10.7	19.7
4 21	12 28.36	+18 48.5	1.762	2.632	13.4	19.8
5 1	12 21.79	+18 9.8	1.828	2.625	16.2	20.0
5 11	12 17.60	+17 8.9	1.910	2.619	18.5	20.1

439440 2013 UO 4 1.9 215°.79 14°.7/14.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.98	−38 14.6	1.275	2.006	24.1	20.8
3 12	13 6.68	−39 10.5	1.198	2.003	21.7	20.6
3 22	12 57.80	−39 22.5	1.135	2.000	18.9	20.3
4 1	12 46.49	−38 41.9	1.088	1.995	16.3	20.2
4 11	12 34.66	−37 7.1	1.061	1.991	14.8	20.1
4 21	12 24.33	−34 46.1	1.056	1.986	15.1	20.0
5 1	12 17.15	−31 55.6	1.071	1.981	17.1	20.1
5 11	12 13.98	−28 56.2	1.106	1.975	20.0	20.3

264782 2002 JV_{144} 4 1.9 325°.86 5°.3/27.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 2.88	+ 4 30.5	1.574	2.467	12.5	19.4
3 12	12 59.02	+ 6 12.0	1.507	2.454	8.9	19.1
3 22	12 53.15	+ 7 58.2	1.465	2.442	5.9	18.9
4 1	12 46.08	+ 9 38.7	1.449	2.430	5.8	18.9
4 11	12 38.86	+11 3.0	1.459	2.419	8.8	19.0
4 21	12 32.51	+12 3.7	1.494	2.408	12.6	19.2
5 1	12 27.93	+12 36.9	1.550	2.398	16.2	19.4
5 11	12 25.68	+12 42.5	1.623	2.389	19.2	19.6

111450 2001 XH_{240} 4 1.9 179°.84 1°.1/31.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.14	− 3 24.9	2.170	3.031	11.0	20.1
3 12	13 2.21	− 2 47.0	2.098	3.033	7.7	19.9
3 22	12 54.67	− 2 1.9	2.053	3.034	4.0	19.6
4 1	12 46.21	− 1 14.0	2.036	3.034	1.1	19.4
4 11	12 37.69	− 0 28.8	2.048	3.034	4.2	19.6
4 21	12 29.94	+ 0 9.0	2.089	3.033	7.9	19.9
5 1	12 23.64	+ 0 35.6	2.156	3.032	11.2	20.1
5 11	12 19.27	+ 0 48.8	2.244	3.030	14.0	20.3

495887 2004 TA_{51} 4 1.9 170°.48 1°.2/ 3.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.65	−11 48.8	2.745	3.574	9.9	23.1
3 12	13 0.90	−11 15.5	2.666	3.579	7.3	22.9
3 22	12 53.88	−10 30.9	2.613	3.583	4.3	22.7
4 1	12 46.14	− 9 37.8	2.591	3.587	1.4	22.5
4 11	12 38.37	− 8 40.3	2.599	3.590	2.8	22.6
4 21	12 31.20	− 7 43.2	2.637	3.592	5.8	22.8
5 1	12 25.19	− 6 50.8	2.702	3.593	8.7	23.0
5 11	12 20.75	− 6 6.8	2.793	3.594	11.1	23.2

160409 2004 VJ_{7} 4 1.9 224°.62 0°.3/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.89	− 8 59.6	1.798	2.652	13.2	21.2
3 12	13 3.15	− 8 10.6	1.713	2.642	9.5	20.9
3 22	12 55.36	− 7 5.9	1.653	2.631	5.2	20.6
4 1	12 46.29	− 5 50.2	1.621	2.620	0.6	20.3
4 11	12 37.01	− 4 31.1	1.617	2.608	4.2	20.5
4 21	12 28.56	− 3 16.3	1.641	2.595	8.8	20.7
5 1	12 21.85	− 2 13.2	1.690	2.582	12.9	21.0
5 11	12 17.48	− 1 26.5	1.760	2.568	16.4	21.2

462160 2007 TO_{167} 4 1.9 128°.03 0°.4/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.92	− 7 27.0	1.707	2.563	13.7	21.6
3 12	13 5.15	− 7 10.4	1.645	2.574	9.8	21.4
3 22	12 56.33	− 6 41.9	1.607	2.585	5.4	21.1
4 1	12 46.37	− 6 5.6	1.597	2.596	0.7	20.8
4 11	12 36.42	− 5 27.2	1.615	2.606	4.2	21.1
4 21	12 27.55	− 4 52.7	1.660	2.615	8.6	21.4
5 1	12 20.63	− 4 27.1	1.730	2.624	12.5	21.6
5 11	12 16.17	− 4 13.8	1.821	2.633	15.8	21.9

424046 2007 BU_{11} 4 1.9 106°.72 4°.6/ 6.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.90	−19 28.7	1.981	2.785	14.2	21.5
3 12	13 4.99	−19 43.7	1.918	2.805	11.1	21.3
3 22	12 56.20	−19 39.3	1.878	2.824	7.8	21.2
4 1	12 46.36	−19 16.1	1.865	2.843	5.1	21.1
4 11	12 36.54	−18 37.9	1.881	2.862	5.0	21.1
4 21	12 27.72	−17 50.4	1.924	2.880	7.5	21.3
5 1	12 20.71	−17 0.4	1.993	2.897	10.6	21.5
5 11	12 15.99	−16 14.2	2.085	2.914	13.4	21.7

326961 2004 HJ_{71} 4 1.9 309°.58 2°.4/ 4.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.34	−15 22.3	1.595	2.440	15.1	20.7
3 12	13 0.10	−14 30.7	1.515	2.433	11.3	20.4
3 22	12 53.77	−13 15.0	1.457	2.427	7.0	20.2
4 1	12 46.16	−11 39.4	1.425	2.420	3.0	19.9
4 11	12 38.39	− 9 52.4	1.420	2.414	4.2	20.0
4 21	12 31.53	− 8 4.4	1.442	2.407	8.6	20.2
5 1	12 26.52	− 6 25.7	1.489	2.401	13.0	20.4
5 11	12 23.94	− 5 4.1	1.556	2.395	16.7	20.6

99392 2002 AW_4 4 1.9 24°.17 3°.8/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.04	+ 0 46.6	1.106	2.003	16.3	19.0
3 12	13 3.07	+ 1 33.5	1.059	2.010	11.4	18.7
3 22	12 55.43	+ 2 26.5	1.034	2.017	6.3	18.5
4 1	12 46.30	+ 3 16.3	1.031	2.026	3.9	18.4
4 11	12 37.24	+ 3 53.2	1.053	2.035	7.8	18.6
4 21	12 29.67	+ 4 10.7	1.097	2.045	12.8	18.9
5 1	12 24.63	+ 4 5.6	1.162	2.056	17.2	19.2
5 11	12 22.64	+ 3 38.5	1.243	2.068	20.9	19.5

505587 2014 BV_{63} 4 1.9 44°.03 9°.1/11.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.22	−32 42.2	2.242	2.959	15.3	20.8
3 12	13 4.81	−33 49.6	2.161	2.963	13.3	20.6
3 22	12 56.28	−34 33.7	2.101	2.966	11.4	20.5
4 1	12 46.39	−34 51.2	2.065	2.970	9.8	20.4
4 11	12 36.19	−34 41.9	2.053	2.974	9.1	20.3
4 21	12 26.76	−34 9.2	2.066	2.979	9.8	20.4
5 1	12 19.06	−33 19.5	2.104	2.983	11.3	20.5
5 11	12 13.75	−32 20.8	2.164	2.987	13.2	20.6

369098 2008 GW_{131} 4 1.9 152°.86 0°.5/ 2.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.44	−10 30.4	2.121	2.966	11.8	21.8
3 12	13 1.02	− 9 28.4	2.050	2.974	8.5	21.6
3 22	12 54.04	− 8 12.0	2.005	2.981	4.7	21.4
4 1	12 46.19	− 6 46.4	1.989	2.988	0.8	21.1
4 11	12 38.33	− 5 18.3	2.003	2.994	3.5	21.3
4 21	12 31.26	− 3 54.8	2.046	3.000	7.3	21.6
5 1	12 25.66	− 2 42.1	2.115	3.005	10.8	21.8
5 11	12 21.98	− 1 44.3	2.207	3.009	13.7	22.0

33527 1999 GJ_{55} 4 1.9 135°.86 0°.7/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.97	− 8 8.6	1.734	2.586	13.8	19.1
3 12	13 5.88	− 7 53.8	1.671	2.598	9.9	18.9
3 22	12 56.72	− 7 26.6	1.633	2.610	5.5	18.7
4 1	12 46.42	− 6 50.8	1.622	2.621	1.0	18.4
4 11	12 36.14	− 6 12.0	1.640	2.632	4.1	18.6
4 21	12 26.95	− 5 36.2	1.686	2.642	8.5	18.9
5 1	12 19.72	− 5 8.6	1.757	2.651	12.4	19.2
5 11	12 14.97	− 4 52.8	1.849	2.659	15.6	19.4

49177 1998 SU_{65} 4 1.9 352°.16 4°.9/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.78	+ 2 24.8	1.012	1.916	16.8	16.9
3 12	13 2.54	+ 3 16.1	0.957	1.910	11.9	16.6
3 22	12 55.33	+ 4 12.8	0.922	1.905	6.9	16.3
4 1	12 46.32	+ 5 4.4	0.909	1.902	5.1	16.2
4 11	12 37.17	+ 5 39.7	0.919	1.899	9.1	16.4
4 21	12 29.46	+ 5 51.4	0.950	1.898	14.3	16.7
5 1	12 24.44	+ 5 36.5	1.000	1.897	19.1	17.0
5 11	12 22.74	+ 4 56.1	1.065	1.899	23.1	17.2

427911 2005 UK_{266} 4 1.9 126°.87 1°.9/30.9 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.76	− 0 54.9	2.231	3.095	10.6	23.1
3 12	13 2.49	− 0 8.3	2.176	3.112	7.3	22.9
3 22	12 54.75	+ 0 43.0	2.148	3.129	3.9	22.7
4 1	12 46.26	+ 1 33.7	2.149	3.145	2.0	22.6
4 11	12 37.84	+ 2 18.8	2.180	3.160	4.6	22.8
4 21	12 30.26	+ 2 53.9	2.240	3.175	7.9	23.0
5 1	12 24.14	+ 3 16.1	2.325	3.189	10.9	23.2
5 11	12 19.88	+ 3 24.3	2.432	3.202	13.4	23.4

381938 2010 CY_{181} 4 1.9 132°.95 2°.4/ 4.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.29	−13 49.1	2.144	2.976	12.3	21.8
3 12	13 1.68	−13 38.4	2.070	2.981	9.2	21.6
3 22	12 54.43	−13 13.0	2.021	2.987	5.7	21.4
4 1	12 46.24	−12 35.3	2.000	2.992	2.7	21.2
4 11	12 37.98	−11 49.6	2.007	2.998	3.5	21.2
4 21	12 30.50	−11 1.3	2.042	3.003	6.9	21.4
5 1	12 24.51	−10 15.9	2.104	3.007	10.2	21.7
5 11	12 20.48	− 9 38.1	2.188	3.012	13.1	21.9

505051 2011 SV_{34} 4 1.9 258°.36 1°.4/31.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.34	+ 0 14.2	2.363	3.221	10.3	21.0
3 12	13 5.11	+ 0 6.4	2.283	3.215	7.3	20.8
3 22	12 56.24	+ 0 0.6	2.230	3.210	3.9	20.5
4 1	12 46.40	− 0 5.8	2.207	3.204	1.4	20.3
4 11	12 36.45	− 0 15.8	2.215	3.198	4.1	20.5
4 21	12 27.21	− 0 31.6	2.252	3.193	7.6	20.7
5 1	12 19.41	− 0 54.9	2.316	3.187	10.7	20.9
5 11	12 13.54	− 1 26.7	2.403	3.181	13.4	21.1

348857 2006 SR_{128} 4 1.9 167°.78 6°.1/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.44	−28 20.0	2.757	3.496	12.2	21.1
3 12	13 1.68	−28 39.8	2.670	3.499	10.3	20.9
3 22	12 54.41	−28 40.6	2.606	3.502	8.3	20.8
4 1	12 46.25	−28 21.8	2.567	3.504	6.6	20.7
4 11	12 37.95	−27 45.1	2.556	3.507	6.1	20.6
4 21	12 30.27	−26 54.3	2.572	3.508	7.0	20.7
5 1	12 23.89	−25 54.7	2.615	3.510	8.8	20.8
5 11	12 19.25	−24 52.4	2.683	3.511	10.8	20.9

85655 1998 QS_{18} 4 1.9 249°.44 2°.6/ 4.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 10.94	−13 31.2	1.633	2.474	15.0	19.7
3 12	13 4.96	−13 17.8	1.540	2.457	11.3	19.4
3 22	12 56.52	−12 44.7	1.470	2.439	7.1	19.1
4 1	12 46.45	−11 54.0	1.426	2.421	3.1	18.8
4 11	12 35.94	−10 51.1	1.410	2.402	4.5	18.8
4 21	12 26.27	− 9 44.0	1.420	2.382	9.1	19.1
5 1	12 18.57	− 8 41.2	1.455	2.361	13.7	19.3
5 11	12 13.57	− 7 50.2	1.511	2.340	17.6	19.5

473021 2015 HC_{57} 4 1.9 192°.97 2°.0/ 4.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.97	−13 56.9	2.684	3.509	10.3	22.0
3 12	12 59.83	−13 39.3	2.600	3.507	7.7	21.8
3 22	12 53.38	−13 9.3	2.541	3.505	4.8	21.7
4 1	12 46.16	−12 29.1	2.511	3.503	2.3	21.5
4 11	12 38.86	−11 42.2	2.511	3.501	3.0	21.5
4 21	12 32.12	−10 53.0	2.540	3.499	5.8	21.7
5 1	12 26.54	−10 6.1	2.596	3.496	8.6	21.9
5 11	12 22.52	− 9 25.4	2.676	3.493	11.2	22.0

255771 2006 RE_{65} 4 1.9 157°.61 2°.7/ 4.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.28	−14 3.7	1.874	2.707	13.7	21.6
3 12	13 4.01	−13 58.2	1.801	2.712	10.3	21.4
3 22	12 55.77	−13 35.9	1.751	2.716	6.5	21.2
4 1	12 46.37	−12 59.1	1.728	2.721	3.1	21.0
4 11	12 36.88	−12 12.6	1.734	2.724	4.0	21.0
4 21	12 28.30	−11 22.4	1.767	2.728	7.7	21.3
5 1	12 21.50	−10 35.2	1.826	2.730	11.4	21.5
5 11	12 17.01	− 9 56.4	1.907	2.733	14.6	21.7

371161 2005 YU_{15} 4 1.9 139°.78 3°.2/29.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.31	+ 2 35.1	2.151	3.024	10.6	21.5
3 12	13 1.57	+ 3 36.4	2.095	3.034	7.4	21.4
3 22	12 54.31	+ 4 40.1	2.065	3.044	4.3	21.2
4 1	12 46.25	+ 5 40.2	2.064	3.052	3.3	21.1
4 11	12 38.21	+ 6 30.8	2.092	3.061	5.8	21.3
4 21	12 30.99	+ 7 7.4	2.147	3.069	8.9	21.5
5 1	12 25.22	+ 7 27.8	2.227	3.076	11.9	21.7
5 11	12 21.34	+ 7 31.2	2.327	3.083	14.4	21.9

46213 2001 FN_{162} 4 1.9 58°.58 8°.6/25.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.54	+12 8.1	1.324	2.216	14.5	18.0
3 12	13 2.96	+13 53.9	1.297	2.235	11.0	17.8
3 22	12 55.18	+15 29.7	1.293	2.255	8.8	17.7
4 1	12 46.31	+16 43.9	1.314	2.274	9.2	17.8
4 11	12 37.72	+17 28.2	1.359	2.294	11.7	18.0
4 21	12 30.56	+17 40.1	1.426	2.314	14.9	18.2
5 1	12 25.63	+17 21.3	1.512	2.334	17.8	18.5
5 11	12 23.35	+16 36.3	1.615	2.355	20.3	18.7

434825 2006 SG_{16} 4 1.9 150°.39 0°.2/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.40	− 6 35.1	2.822	3.673	9.1	22.1
3 12	12 59.29	− 5 52.9	2.753	3.681	6.4	21.9
3 22	12 53.03	− 5 3.0	2.710	3.689	3.4	21.7
4 1	12 46.14	− 4 9.0	2.697	3.696	0.3	21.5
4 11	12 39.25	− 3 15.2	2.714	3.703	3.0	21.7
4 21	12 32.92	− 2 25.6	2.761	3.710	6.0	21.9
5 1	12 27.68	− 1 43.8	2.836	3.716	8.7	22.1
5 11	12 23.87	− 1 12.3	2.933	3.721	11.0	22.3

219364 2000 SG_2 4 1.9 238°.12 2°.6/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.15	+ 1 17.9	2.141	3.010	10.8	20.6
3 12	13 3.07	+ 1 57.8	2.059	2.996	7.6	20.4
3 22	12 55.24	+ 2 41.6	2.002	2.982	4.3	20.2
4 1	12 46.35	+ 3 24.4	1.975	2.967	2.7	20.0
4 11	12 37.27	+ 4 0.5	1.976	2.952	5.4	20.2
4 21	12 28.90	+ 4 25.5	2.006	2.937	9.0	20.4
5 1	12 21.99	+ 4 36.3	2.060	2.920	12.3	20.5
5 11	12 17.09	+ 4 31.7	2.136	2.904	15.1	20.7

378888 2008 TY_{184} 4 1.9 105°.09 2°.2/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.01	− 0 56.2	2.200	3.070	10.5	21.6
3 12	13 0.59	+ 0 9.4	2.149	3.088	7.2	21.4
3 22	12 53.76	+ 1 19.9	2.125	3.106	3.9	21.3
4 1	12 46.21	+ 2 29.4	2.130	3.124	2.3	21.2
4 11	12 38.74	+ 3 32.0	2.164	3.141	4.9	21.4
4 21	12 32.07	+ 4 22.7	2.226	3.158	8.1	21.6
5 1	12 26.81	+ 4 58.4	2.314	3.175	11.1	21.8
5 11	12 23.33	+ 5 17.9	2.422	3.191	13.5	22.0

59291 1999 CJ_{56} 4 1.9 167°.72 4°.8/28.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.96	+ 4 39.5	1.680	2.560	12.6	18.0
3 12	13 3.82	+ 5 56.3	1.622	2.563	9.0	17.8
3 22	12 55.66	+ 7 15.0	1.591	2.567	5.7	17.6
4 1	12 46.38	+ 8 26.7	1.586	2.569	5.0	17.6
4 11	12 37.09	+ 9 23.4	1.609	2.572	7.8	17.7
4 21	12 28.84	+ 9 59.6	1.657	2.573	11.5	18.0
5 1	12 22.49	+10 13.1	1.729	2.574	14.9	18.2
5 11	12 18.54	+10 4.3	1.818	2.575	17.8	18.4

215139 1999 TS_{218} 4 1.9 258.°77 0.°6/ 2.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 3.97	− 9 31.4	2.618	3.462	9.9	20.9
3 12	12 59.21	− 8 57.4	2.524	3.447	7.2	20.7
3 22	12 53.10	− 8 12.6	2.456	3.431	4.0	20.5
4 1	12 46.16	− 7 20.1	2.417	3.415	0.9	20.2
4 11	12 39.08	− 6 24.1	2.408	3.399	2.9	20.4
4 21	12 32.51	− 5 29.4	2.428	3.383	6.3	20.6
5 1	12 27.06	− 4 40.6	2.475	3.366	9.3	20.7
5 11	12 23.17	− 4 1.3	2.545	3.350	12.0	20.9

353995 2000 SG_{70} 4 1.9 232.°58 0.°3/ 1.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.94	− 5 41.3	3.053	3.902	8.5	22.3
3 12	12 59.72	− 5 6.9	2.959	3.887	6.0	22.1
3 22	12 53.32	− 4 25.4	2.892	3.871	3.2	21.9
4 1	12 46.20	− 3 39.9	2.855	3.854	0.3	21.6
4 11	12 38.97	− 2 54.1	2.849	3.837	2.9	21.8
4 21	12 32.17	− 2 11.6	2.873	3.819	5.9	22.0
5 1	12 26.34	− 1 35.9	2.925	3.801	8.6	22.1
5 11	12 21.87	− 1 9.4	3.000	3.782	10.9	22.3

464627 1998 UN_{50} 4 1.9 59.°26 2.°1/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.45	−13 23.6	1.444	2.298	15.9	21.5
3 12	13 2.19	−12 43.4	1.395	2.319	11.7	21.3
3 22	12 54.81	−11 42.4	1.368	2.340	6.9	21.0
4 1	12 46.32	−10 26.3	1.366	2.362	2.5	20.8
4 11	12 37.98	− 9 3.8	1.391	2.384	4.2	21.0
4 21	12 30.89	− 7 44.3	1.442	2.406	8.7	21.3
5 1	12 25.89	− 6 35.9	1.517	2.428	12.9	21.6
5 11	12 23.41	− 5 44.2	1.612	2.450	16.3	21.9

358984 2008 SK_{127} 4 1.9 91.°19 0.°3/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.07	− 6 14.8	1.437	2.302	15.2	21.8
3 12	13 6.10	− 5 45.5	1.390	2.325	10.7	21.6
3 22	12 56.88	− 5 3.9	1.366	2.347	5.7	21.4
4 1	12 46.51	− 4 15.8	1.369	2.368	0.5	21.1
4 11	12 36.33	− 3 28.7	1.399	2.390	4.8	21.4
4 21	12 27.54	− 2 49.6	1.456	2.410	9.6	21.8
5 1	12 21.03	− 2 23.4	1.536	2.431	13.8	22.0
5 11	12 17.25	− 2 12.9	1.635	2.450	17.1	22.3

523693 2014 FT_{71} 4 1.9 238.°97 0.°3/ 8.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	12 47.77	−22 52.8	46.714	47.463	0.8	21.9
3 12	12 47.10	−22 51.6	46.618	47.460	0.6	21.8
3 22	12 46.38	−22 49.5	46.547	47.457	0.5	21.8
4 1	12 45.62	−22 46.6	46.504	47.454	0.4	21.8
4 11	12 44.86	−22 43.0	46.490	47.452	0.3	21.8
4 21	12 44.13	−22 38.8	46.504	47.449	0.4	21.8
5 1	12 43.44	−22 34.2	46.547	47.446	0.6	21.8
5 11	12 42.83	−22 29.5	46.615	47.443	0.7	21.8

393241 2013 QL_{59} 4 1.9 154.°41 1.°6/31.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.57	− 2 36.7	2.084	2.950	11.2	22.0
3 12	13 1.86	− 1 46.8	2.019	2.956	7.8	21.8
3 22	12 54.54	− 0 49.8	1.980	2.962	4.1	21.6
4 1	12 46.33	+ 0 8.9	1.970	2.967	1.6	21.4
4 11	12 38.11	+ 1 3.3	1.989	2.972	4.6	21.7
4 21	12 30.70	+ 1 48.2	2.036	2.976	8.3	21.9
5 1	12 24.78	+ 2 19.7	2.108	2.980	11.5	22.1
5 11	12 20.81	+ 2 35.9	2.201	2.983	14.3	22.3

60617 2000 FM_{3} 4 1.9 301.°95 7.°7/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.46	+ 9 6.5	1.243	2.136	15.1	19.0
3 12	13 5.15	+10 17.8	1.166	2.109	11.4	18.7
3 22	12 56.87	+11 28.5	1.111	2.082	8.3	18.4
4 1	12 46.56	+12 26.5	1.079	2.055	8.2	18.3
4 11	12 35.72	+13 0.4	1.071	2.029	11.5	18.4
4 21	12 25.94	+13 3.3	1.085	2.002	16.0	18.6
5 1	12 18.59	+12 33.3	1.118	1.976	20.5	18.7
5 11	12 14.51	+11 33.0	1.166	1.951	24.4	18.9

382092 2011 GL_{5} 4 1.9 228.°80 6.°0/25.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.34	+11 59.8	2.286	3.161	9.9	20.5
3 12	13 1.00	+13 29.5	2.221	3.150	7.6	20.4
3 22	12 54.10	+14 55.7	2.182	3.139	6.1	20.3
4 1	12 46.30	+16 11.1	2.172	3.127	6.5	20.3
4 11	12 38.39	+17 9.1	2.190	3.115	8.5	20.4
4 21	12 31.16	+17 46.0	2.234	3.102	11.0	20.5
5 1	12 25.28	+18 0.3	2.300	3.089	13.5	20.6
5 11	12 21.23	+17 53.0	2.384	3.075	15.6	20.8

401859 2000 QZ_{69} 4 1.9 180.°30 3.°4/ 5.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.50	−16 15.1	2.035	2.850	13.4	21.9
3 12	13 5.56	−16 18.0	1.954	2.852	10.3	21.7
3 22	12 56.64	−16 3.8	1.896	2.854	6.8	21.5
4 1	12 46.53	−15 33.6	1.867	2.854	3.9	21.3
4 11	12 36.27	−14 51.2	1.866	2.853	4.3	21.3
4 21	12 26.85	−14 2.3	1.894	2.852	7.5	21.5
5 1	12 19.15	−13 13.2	1.949	2.850	11.0	21.7
5 11	12 13.72	−12 30.1	2.026	2.847	14.1	21.9

428805 2008 TC_{23} 4 1.9 44.°04 2.°0/ 3.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 9.51	−11 1.2	1.764	2.612	13.7	20.5
3 12	13 3.57	−11 7.7	1.694	2.615	10.1	20.3
3 22	12 55.61	−11 0.2	1.647	2.619	6.1	20.0
4 1	12 46.45	−10 41.0	1.627	2.623	2.4	19.8
4 11	12 37.19	−10 14.4	1.635	2.627	4.0	19.9
4 21	12 28.87	− 9 45.8	1.670	2.631	8.0	20.2
5 1	12 22.36	− 9 20.8	1.730	2.635	11.9	20.4
5 11	12 18.23	− 9 4.0	1.811	2.640	15.2	20.6

281974 2011 GM_{72} 4 1.9 279.°11 5.°3/27.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.04	+ 8 33.7	1.959	2.838	11.2	20.9
3 12	13 2.46	+ 9 31.5	1.882	2.819	8.2	20.7
3 22	12 55.01	+10 27.7	1.831	2.800	5.8	20.5
4 1	12 46.41	+11 15.5	1.807	2.781	5.6	20.5
4 11	12 37.61	+11 48.2	1.810	2.762	8.0	20.6
4 21	12 29.57	+12 1.7	1.839	2.743	11.2	20.7
5 1	12 23.10	+11 54.1	1.891	2.724	14.4	20.9
5 11	12 18.77	+11 26.2	1.962	2.704	17.1	21.0

288443 2004 EU_{45} 4 1.9 62.°01 1.°2/31.2 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 1.47	− 2 37.6	2.867	3.732	8.5	20.6
3 12	12 57.24	− 1 48.3	2.806	3.743	5.9	20.5
3 22	12 51.97	− 0 54.1	2.772	3.754	3.1	20.3
4 1	12 46.13	+ 0 1.1	2.768	3.765	1.2	20.2
4 11	12 40.31	+ 0 52.9	2.794	3.776	3.5	20.4
4 21	12 35.02	+ 1 37.8	2.848	3.787	6.2	20.5
5 1	12 30.73	+ 2 12.8	2.929	3.799	8.7	20.7
5 11	12 27.77	+ 2 36.1	3.032	3.810	10.9	20.9

178082 2006 SG_{160} 4 1.9 108.°82 1.°8/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.13	− 0 27.5	2.422	3.289	9.8	20.9
3 12	13 0.65	+ 0 7.1	2.362	3.299	6.8	20.8
3 22	12 53.83	+ 0 45.6	2.329	3.309	3.6	20.6
4 1	12 46.29	+ 1 23.6	2.324	3.320	1.8	20.5
4 11	12 38.78	+ 1 56.8	2.349	3.329	4.3	20.6
4 21	12 31.97	+ 2 21.6	2.402	3.339	7.4	20.9
5 1	12 26.44	+ 2 35.5	2.481	3.349	10.2	21.1
5 11	12 22.57	+ 2 37.1	2.582	3.358	12.6	21.2

428043 2006 DR_{82} 4 1.9 41.°79 2.°6/ 4.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.24	−12 22.3	1.673	2.519	14.4	20.6
3 12	13 3.42	−12 33.1	1.609	2.528	10.7	20.4
3 22	12 55.53	−12 28.2	1.568	2.537	6.6	20.2
4 1	12 46.45	−12 9.7	1.553	2.546	3.0	20.0
4 11	12 37.31	−11 42.0	1.565	2.556	4.2	20.1
4 21	12 29.20	−11 10.9	1.603	2.566	8.1	20.3
5 1	12 23.00	−10 42.4	1.667	2.577	12.0	20.6
5 11	12 19.23	−10 21.7	1.751	2.587	15.3	20.8

312964 1998 DU_{25} 4 1.9 167.°96 0.°2/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.79	− 6 24.9	1.933	2.787	12.4	21.5
3 12	13 4.28	− 5 51.8	1.862	2.792	8.8	21.3
3 22	12 55.92	− 5 8.0	1.818	2.797	4.7	21.0
4 1	12 46.50	− 4 18.1	1.801	2.800	0.4	20.7
4 11	12 37.02	− 3 27.9	1.814	2.803	4.1	21.0
4 21	12 28.44	− 2 43.2	1.855	2.805	8.2	21.3
5 1	12 21.57	− 2 8.9	1.921	2.807	11.9	21.5
5 11	12 16.90	− 1 48.1	2.009	2.807	15.0	21.7

89217 2001 UM_{119} 4 1.9 9.°28 1.°2/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.85	− 3 23.8	1.890	2.763	11.8	18.7
3 12	13 0.12	− 2 47.9	1.824	2.764	8.3	18.5
3 22	12 53.69	− 2 4.1	1.783	2.766	4.3	18.2
4 1	12 46.30	− 1 17.5	1.770	2.768	1.2	18.0
4 11	12 38.86	− 0 33.8	1.784	2.770	4.5	18.3
4 21	12 32.24	+ 0 1.5	1.824	2.773	8.4	18.5
5 1	12 27.16	+ 0 24.4	1.889	2.776	12.0	18.7
5 11	12 24.11	+ 0 32.7	1.975	2.780	14.9	18.9

317491 2002 SO_{11} 4 1.9 189.°07 1.°1/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.02	− 3 34.5	1.839	2.704	12.5	21.2
3 12	13 3.84	− 3 4.3	1.768	2.703	8.8	21.0
3 22	12 55.73	− 2 25.7	1.721	2.702	4.6	20.7
4 1	12 46.49	− 1 43.7	1.703	2.701	1.1	20.5
4 11	12 37.15	− 1 4.1	1.713	2.700	4.7	20.7
4 21	12 28.70	− 0 32.4	1.750	2.698	8.8	21.0
5 1	12 22.00	− 0 12.7	1.813	2.695	12.6	21.2
5 11	12 17.56	− 0 7.4	1.895	2.693	15.8	21.4

67735 2000 UH_{26} 4 1.9 231.°29 1.°0/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.68	− 5 29.8	1.879	2.741	12.4	20.2
3 12	13 2.98	− 4 29.3	1.794	2.728	8.8	19.9
3 22	12 55.33	− 3 16.2	1.734	2.715	4.6	19.7
4 1	12 46.46	− 1 56.2	1.702	2.700	1.0	19.4
4 11	12 37.36	− 0 37.1	1.699	2.685	4.8	19.6
4 21	12 29.02	+ 0 33.8	1.724	2.669	9.1	19.8
5 1	12 22.33	+ 1 30.1	1.774	2.653	13.0	20.0
5 11	12 17.87	+ 2 8.2	1.844	2.635	16.4	20.2

87512 2000 QZ_{184} 4 1.9 306°.59 2°.9/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 5.93	− 0 52.0	1.525	2.409	13.4	19.3
3 12	13 1.44	+ 0 6.2	1.440	2.386	9.5	19.0
3 22	12 54.68	+ 1 14.4	1.379	2.362	5.2	18.7
4 1	12 46.41	+ 2 25.3	1.344	2.338	3.0	18.5
4 11	12 37.78	+ 3 29.8	1.334	2.315	6.7	18.7
4 21	12 29.97	+ 4 19.8	1.350	2.292	11.4	18.9
5 1	12 24.03	+ 4 49.5	1.388	2.270	15.8	19.1
5 11	12 20.67	+ 4 56.4	1.444	2.248	19.5	19.2

299963 2006 TH_{79} 4 1.9 233°.21 2°.4/ 5.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.79	−16 36.9	2.581	3.398	10.9	21.2
3 12	12 59.12	−15 58.3	2.489	3.390	8.3	21.0
3 22	12 53.09	−15 3.9	2.422	3.381	5.4	20.8
4 1	12 46.26	−13 56.1	2.382	3.372	2.8	20.6
4 11	12 39.31	−12 39.4	2.373	3.363	3.1	20.6
4 21	12 32.93	−11 19.4	2.393	3.354	6.0	20.8
5 1	12 27.72	−10 2.0	2.440	3.344	9.0	21.0
5 11	12 24.12	− 8 52.5	2.512	3.334	11.6	21.1

328255 2008 FO_{126} 4 1.9 224°.06 0°.6/ 2.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.76	−10 27.3	2.418	3.257	10.8	21.9
3 12	13 1.29	− 9 34.5	2.324	3.244	7.8	21.6
3 22	12 54.29	− 8 28.1	2.256	3.231	4.4	21.4
4 1	12 46.37	− 7 12.0	2.218	3.217	0.9	21.1
4 11	12 38.28	− 5 51.8	2.211	3.202	3.2	21.3
4 21	12 30.78	− 4 33.6	2.233	3.186	6.9	21.5
5 1	12 24.55	− 3 23.2	2.282	3.169	10.2	21.7
5 11	12 20.08	− 2 25.1	2.355	3.152	13.1	21.8

294947 2008 DO_{68} 4 1.9 156°.18 1°.3/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.87	− 3 55.5	1.974	2.839	11.7	20.9
3 12	13 2.17	− 3 0.4	1.909	2.845	8.2	20.6
3 22	12 54.76	− 1 56.3	1.869	2.850	4.3	20.4
4 1	12 46.41	− 0 49.2	1.858	2.855	1.4	20.2
4 11	12 38.03	+ 0 14.4	1.875	2.860	4.6	20.4
4 21	12 30.51	+ 1 8.4	1.921	2.864	8.5	20.7
5 1	12 24.57	+ 1 48.5	1.991	2.868	11.9	20.9
5 11	12 20.67	+ 2 12.2	2.083	2.871	14.8	21.1

415738 1999 YP_{18} 4 1.9 181°.91 0°.6/ 2.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.23	− 9 7.4	2.097	2.943	11.9	23.0
3 12	13 3.13	− 8 34.9	2.020	2.944	8.6	22.8
3 22	12 55.30	− 7 50.1	1.969	2.944	4.8	22.5
4 1	12 46.47	− 6 56.7	1.946	2.944	0.9	22.2
4 11	12 37.55	− 6 0.2	1.952	2.943	3.5	22.4
4 21	12 29.42	− 5 6.4	1.988	2.942	7.5	22.7
5 1	12 22.82	− 4 20.7	2.049	2.940	11.0	22.9
5 11	12 18.26	− 3 46.8	2.133	2.937	14.0	23.1

167432 2003 WD_{165} 4 1.9 246°.41 1°.5/31.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.31	− 2 30.8	2.087	2.955	11.1	21.3
3 12	13 1.08	− 1 50.6	2.012	2.950	7.7	21.1
3 22	12 54.21	− 1 3.3	1.963	2.945	4.1	20.9
4 1	12 46.38	− 0 13.9	1.942	2.940	1.5	20.7
4 11	12 38.44	+ 0 32.1	1.950	2.934	4.5	20.9
4 21	12 31.23	+ 1 9.6	1.985	2.929	8.2	21.1
5 1	12 25.47	+ 1 34.8	2.046	2.923	11.6	21.3
5 11	12 21.63	+ 1 45.5	2.127	2.917	14.5	21.5

332664 2008 WB_{60} 4 1.9 230°.71 2°.7/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.26	+ 2 7.2	2.492	3.360	9.5	21.6
3 12	13 1.58	+ 2 57.3	2.409	3.346	6.7	21.4
3 22	12 54.43	+ 3 50.8	2.353	3.332	3.8	21.2
4 1	12 46.40	+ 4 42.7	2.327	3.317	2.8	21.1
4 11	12 38.23	+ 5 27.9	2.330	3.301	5.1	21.3
4 21	12 30.64	+ 6 2.2	2.362	3.285	8.2	21.4
5 1	12 24.28	+ 6 22.8	2.419	3.268	11.1	21.6
5 11	12 19.62	+ 6 28.5	2.498	3.251	13.6	21.7

259515 2003 SM_{404} 4 1.9 277°.32 5°.3/28.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.92	+ 5 48.2	1.508	2.393	13.5	20.5
3 12	13 4.19	+ 6 47.8	1.439	2.381	9.7	20.2
3 22	12 56.10	+ 7 48.6	1.393	2.370	6.3	20.0
4 1	12 46.56	+ 8 41.8	1.374	2.357	5.6	19.9
4 11	12 36.82	+ 9 18.9	1.380	2.345	8.6	20.0
4 21	12 28.11	+ 9 34.4	1.411	2.333	12.6	20.2
5 1	12 21.45	+ 9 26.1	1.464	2.321	16.5	20.4
5 11	12 17.47	+ 8 54.8	1.534	2.309	19.8	20.6

61661 2000 QC_{115} 4 1.9 262°.07 1°.8/31.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.12	− 4 6.5	1.608	2.481	13.5	19.6
3 12	13 2.91	− 3 1.2	1.523	2.463	9.5	19.3
3 22	12 55.44	− 1 42.2	1.462	2.445	5.1	19.0
4 1	12 46.51	− 0 16.5	1.428	2.426	1.8	18.7
4 11	12 37.26	+ 1 6.7	1.422	2.406	5.8	18.9
4 21	12 28.85	+ 2 18.4	1.441	2.386	10.6	19.2
5 1	12 22.30	+ 3 11.8	1.484	2.366	14.9	19.4
5 11	12 18.29	+ 3 43.3	1.547	2.346	18.7	19.6

300059 2006 UV_{186} 4 1.9 219°.55 5°.1/ 7.4 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 8.96	−22 39.5	2.525	3.302	12.2	20.9
3 12	13 2.93	−23 7.4	2.434	3.297	9.9	20.8
3 22	12 55.23	−23 18.6	2.366	3.292	7.5	20.6
4 1	12 46.50	−23 12.6	2.325	3.287	5.6	20.5
4 11	12 37.55	−22 50.8	2.312	3.282	5.3	20.4
4 21	12 29.19	−22 17.0	2.328	3.276	6.9	20.5
5 1	12 22.18	−21 36.3	2.370	3.270	9.3	20.7
5 11	12 17.04	−20 54.3	2.436	3.264	11.8	20.8

512297 2016 GM_{242} 4 1.9 269°.47 1°.3/ 3.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.78	−11 14.2	1.965	2.810	12.7	21.6
3 12	13 2.45	−10 42.2	1.863	2.785	9.4	21.3
3 22	12 55.13	− 9 54.0	1.786	2.759	5.5	21.0
4 1	12 46.50	− 8 52.5	1.735	2.733	1.6	20.7
4 11	12 37.50	− 7 43.6	1.714	2.706	3.8	20.8
4 21	12 29.12	− 6 33.9	1.720	2.679	8.1	21.0
5 1	12 22.27	− 5 30.8	1.753	2.651	12.1	21.2
5 11	12 17.62	− 4 40.0	1.806	2.623	15.7	21.3

224622 2005 YL_{100} 4 1.9 91°.29 4°.6/ 6.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.50	−19 13.1	1.870	2.684	14.5	20.2
3 12	13 2.84	−19 17.8	1.800	2.693	11.4	20.0
3 22	12 55.23	−19 2.0	1.752	2.701	8.0	19.8
4 1	12 46.50	−18 26.8	1.730	2.710	5.1	19.7
4 11	12 37.70	−17 36.4	1.735	2.719	5.0	19.7
4 21	12 29.82	−16 37.2	1.767	2.727	7.7	19.9
5 1	12 23.71	−15 36.7	1.824	2.736	11.0	20.1
5 11	12 19.88	−14 41.8	1.904	2.744	14.1	20.3

140699 2001 UL_{74} 4 1.9 56°.96 0°.9/ 3.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.69	−11 0.2	2.154	3.002	11.6	19.7
3 12	12 59.17	−10 12.7	2.082	3.006	8.4	19.5
3 22	12 53.17	− 9 11.2	2.035	3.010	4.8	19.2
4 1	12 46.32	− 8 0.2	2.016	3.014	1.2	19.0
4 11	12 39.43	− 6 45.5	2.026	3.018	3.3	19.2
4 21	12 33.26	− 5 33.5	2.064	3.022	6.9	19.4
5 1	12 28.45	− 4 30.1	2.128	3.027	10.3	19.6
5 11	12 25.45	− 3 39.4	2.215	3.031	13.2	19.8

333217 2012 HG_{24} 4 1.9 293°.35 0°.2/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.01	−10 25.8	1.701	2.561	13.6	20.1
3 12	12 59.81	− 9 8.4	1.621	2.552	9.8	19.8
3 22	12 53.68	− 7 31.4	1.564	2.543	5.4	19.5
4 1	12 46.37	− 5 41.2	1.535	2.534	0.6	19.2
4 11	12 38.91	− 3 47.2	1.534	2.526	4.3	19.4
4 21	12 32.28	− 1 59.7	1.561	2.517	8.9	19.7
5 1	12 27.34	− 0 27.4	1.612	2.508	13.1	19.9
5 11	12 24.64	+ 0 44.0	1.684	2.500	16.7	20.1

398576 2011 WT_{44} 4 1.9 140°.59 2°.9/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.67	−15 27.5	1.730	2.562	14.7	21.1
3 12	13 3.71	−15 1.1	1.661	2.571	11.1	20.8
3 22	12 55.72	−14 14.4	1.615	2.580	7.0	20.6
4 1	12 46.56	−13 10.7	1.596	2.588	3.4	20.4
4 11	12 37.35	−11 56.5	1.604	2.595	4.2	20.5
4 21	12 29.17	−10 39.8	1.640	2.602	8.0	20.7
5 1	12 22.88	− 9 28.6	1.701	2.609	11.9	21.0
5 11	12 18.99	− 8 29.5	1.784	2.615	15.3	21.2

82276 2001 KH_{23} 4 1.9 26°.34 1°.8/ 3.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.86	−10 9.2	1.121	1.995	18.0	19.1
3 12	13 4.62	−10 3.9	1.063	1.998	13.2	18.8
3 22	12 56.49	− 9 38.5	1.025	2.003	7.7	18.5
4 1	12 46.63	− 8 57.3	1.010	2.008	2.3	18.2
4 11	12 36.67	− 8 8.2	1.020	2.013	5.2	18.4
4 21	12 28.15	− 7 20.6	1.052	2.019	10.8	18.7
5 1	12 22.28	− 6 43.3	1.106	2.026	15.8	19.0
5 11	12 19.67	− 6 22.1	1.178	2.033	20.0	19.3

329823 2004 RH_{189} 4 1.9 228°.03 1°.6/ 3.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.21	−12 46.3	2.384	3.214	11.2	21.6
3 12	13 1.67	−12 16.6	2.289	3.202	8.3	21.4
3 22	12 54.55	−11 32.8	2.220	3.189	5.0	21.2
4 1	12 46.46	−10 37.6	2.180	3.175	1.9	20.9
4 11	12 38.18	− 9 35.5	2.169	3.161	3.2	21.0
4 21	12 30.50	− 8 32.0	2.188	3.146	6.6	21.2
5 1	12 24.12	− 7 32.8	2.233	3.130	10.0	21.4
5 11	12 19.55	− 6 42.7	2.302	3.113	12.9	21.5

346859 2009 ET_{21} 4 1.9 29°.86 2°.5/30.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.68	+ 0 26.6	1.973	2.849	11.2	20.8
3 12	13 0.64	+ 1 10.1	1.911	2.853	7.8	20.6
3 22	12 53.98	+ 1 57.8	1.875	2.857	4.3	20.4
4 1	12 46.40	+ 2 44.3	1.867	2.861	2.6	20.3
4 11	12 38.82	+ 3 23.7	1.887	2.866	5.3	20.5
4 21	12 32.05	+ 3 51.5	1.933	2.870	8.9	20.7
5 1	12 26.79	+ 4 4.8	2.004	2.875	12.1	20.9
5 11	12 23.49	+ 4 2.4	2.095	2.880	14.9	21.1

125952 2001 XP_{258} 4 1.9 7°.88 5°.0/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 6.52	+ 2 9.0	1.170	2.069	15.5	18.8
3 12	13 2.06	+ 3 30.3	1.118	2.069	10.9	18.5
3 22	12 55.03	+ 4 57.9	1.088	2.070	6.5	18.3
4 1	12 46.50	+ 6 20.2	1.081	2.071	5.2	18.2
4 11	12 37.94	+ 7 25.5	1.099	2.073	8.9	18.4
4 21	12 30.70	+ 8 6.0	1.139	2.076	13.6	18.7
5 1	12 25.82	+ 8 18.0	1.199	2.079	17.9	18.9
5 11	12 23.87	+ 8 2.5	1.276	2.083	21.5	19.2

275597 1999 VQ_{133} 4 1.9 267°.40 2°.6/ 4.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.10	−16 8.6	2.019	2.848	13.0	21.0
3 12	13 0.44	−15 29.1	1.926	2.834	9.9	20.7
3 22	12 53.98	−14 29.6	1.856	2.819	6.4	20.5
4 1	12 46.42	−13 12.8	1.813	2.805	3.1	20.2
4 11	12 38.64	−11 44.7	1.798	2.790	3.7	20.3
4 21	12 31.56	−10 12.8	1.812	2.775	7.4	20.4
5 1	12 25.96	− 8 45.1	1.852	2.760	11.1	20.6
5 11	12 22.42	− 7 28.5	1.915	2.745	14.4	20.8

258809 2002 NV_6 4 1.9 214°.96 0°.7/ 2.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.07	− 9 27.9	2.024	2.871	12.3	22.0
3 12	13 3.16	− 8 55.3	1.940	2.864	8.9	21.7
3 22	12 55.42	− 8 9.3	1.880	2.856	5.0	21.5
4 1	12 46.55	− 7 13.5	1.848	2.847	1.0	21.2
4 11	12 37.50	− 6 13.6	1.846	2.837	3.7	21.3
4 21	12 29.19	− 5 15.8	1.872	2.827	7.8	21.6
5 1	12 22.46	− 4 26.0	1.924	2.816	11.5	21.8
5 11	12 17.83	− 3 48.7	1.997	2.805	14.7	22.0

57257 2001 QG_{104} 4 1.9 178°.17 0°.1/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.62	− 7 5.0	2.158	3.008	11.5	20.0
3 12	13 3.37	− 6 41.7	2.083	3.010	8.2	19.8
3 22	12 55.45	− 6 8.6	2.034	3.012	4.5	19.5
4 1	12 46.55	− 5 29.1	2.013	3.012	0.5	19.2
4 11	12 37.57	− 4 48.2	2.022	3.012	3.6	19.5
4 21	12 29.36	− 4 10.7	2.060	3.012	7.4	19.7
5 1	12 22.65	− 3 41.0	2.124	3.011	10.8	19.9
5 11	12 17.92	− 3 22.3	2.210	3.009	13.7	20.1

269046 2007 FQ_{38} 4 1.9 323°.75 6°.6/27.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.07	+10 32.7	1.575	2.459	13.1	19.6
3 12	13 4.19	+11 17.7	1.511	2.448	9.8	19.4
3 22	12 56.06	+11 57.3	1.470	2.438	7.1	19.2
4 1	12 46.61	+12 23.6	1.456	2.429	6.9	19.2
4 11	12 37.03	+12 29.8	1.466	2.420	9.4	19.3
4 21	12 28.51	+12 12.8	1.502	2.411	12.9	19.5
5 1	12 22.00	+11 32.6	1.558	2.403	16.3	19.6
5 11	12 18.08	+10 31.6	1.633	2.395	19.3	19.8

212863 2007 VN_{114} 4 1.9 262°.44 2°.1/31.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.30	− 2 35.9	1.558	2.435	13.6	20.6
3 12	13 2.99	− 1 42.5	1.484	2.426	9.6	20.3
3 22	12 55.46	− 0 38.7	1.435	2.417	5.1	20.0
4 1	12 46.56	+ 0 28.6	1.411	2.408	2.1	19.8
4 11	12 37.47	+ 1 30.8	1.415	2.399	5.9	20.0
4 21	12 29.33	+ 2 20.6	1.445	2.390	10.5	20.3
5 1	12 23.13	+ 2 52.4	1.497	2.381	14.7	20.5
5 11	12 19.47	+ 3 3.8	1.568	2.371	18.3	20.7

162697 2000 UO_{18} 4 1.9 113°.74 3°.3/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 11.50	−14 44.1	1.611	2.447	15.4	19.9
3 12	13 5.14	−14 45.0	1.546	2.458	11.6	19.7
3 22	12 56.54	−14 26.7	1.503	2.468	7.4	19.5
4 1	12 46.65	−13 51.2	1.486	2.478	3.8	19.3
4 11	12 36.71	−13 3.9	1.497	2.487	4.6	19.4
4 21	12 27.89	−12 11.9	1.534	2.496	8.5	19.6
5 1	12 21.13	−11 22.7	1.596	2.505	12.4	19.9
5 11	12 16.99	−10 42.9	1.679	2.514	15.9	20.1

143584 2003 FS_{23} 4 1.9 269°.61 1°.1/31.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.00	− 4 2.7	2.351	3.215	10.1	19.7
3 12	12 59.36	− 3 14.5	2.269	3.205	7.1	19.5
3 22	12 53.28	− 2 18.3	2.213	3.195	3.7	19.3
4 1	12 46.36	− 1 18.4	2.186	3.184	1.1	19.1
4 11	12 39.32	− 0 20.4	2.189	3.174	4.0	19.3
4 21	12 32.87	+ 0 30.6	2.219	3.164	7.4	19.5
5 1	12 27.65	+ 1 10.6	2.275	3.153	10.6	19.6
5 11	12 24.12	+ 1 36.9	2.353	3.143	13.3	19.8

497147 2004 RY_{89} 4 1.9 236°.96 0°.0/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.21	− 7 45.2	2.343	3.192	10.7	22.5
3 12	13 1.69	− 7 1.9	2.249	3.176	7.7	22.3
3 22	12 54.58	− 6 7.4	2.181	3.159	4.2	22.1
4 1	12 46.48	− 5 5.3	2.142	3.141	0.4	21.7
4 11	12 38.18	− 4 1.0	2.134	3.123	3.5	22.0
4 21	12 30.46	− 3 0.2	2.154	3.104	7.2	22.2
5 1	12 24.04	− 2 8.0	2.201	3.085	10.6	22.3
5 11	12 19.43	− 1 28.3	2.271	3.065	13.6	22.5

121944 2000 EJ_{28} 4 1.9 317°.06 7°.7/27.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 10.59	+ 9 32.6	1.222	2.116	15.3	19.3
3 12	13 5.01	+10 42.7	1.165	2.108	11.4	19.1
3 22	12 56.67	+11 49.0	1.129	2.100	8.3	18.9
4 1	12 46.67	+12 39.7	1.117	2.093	8.1	18.8
4 11	12 36.53	+13 5.3	1.129	2.086	11.2	19.0
4 21	12 27.72	+13 0.8	1.163	2.079	15.3	19.2
5 1	12 21.40	+12 26.2	1.216	2.072	19.3	19.4
5 11	12 18.19	+11 25.0	1.285	2.067	22.6	19.6

298822 2004 RM_{74} 4 1.9 155°.11 0°.6/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.41	− 7 51.3	1.651	2.507	14.1	20.8
3 12	13 5.72	− 7 35.4	1.583	2.512	10.1	20.6
3 22	12 56.84	− 7 6.7	1.540	2.518	5.6	20.3
4 1	12 46.69	− 6 29.1	1.523	2.522	0.9	20.0
4 11	12 36.46	− 5 48.7	1.535	2.526	4.3	20.2
4 21	12 27.30	− 5 11.5	1.574	2.530	8.9	20.5
5 1	12 20.15	− 4 43.3	1.637	2.533	13.0	20.8
5 11	12 15.56	− 4 27.9	1.721	2.536	16.4	21.0

500354 2012 TE_{13} 4 1.9 149°.92 3°.9/28.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.99	+ 6 30.3	2.308	3.180	10.0	21.4
3 12	13 2.06	+ 7 11.1	2.248	3.184	7.1	21.2
3 22	12 54.67	+ 7 50.6	2.215	3.188	4.6	21.0
4 1	12 46.49	+ 8 23.8	2.210	3.192	4.0	21.0
4 11	12 38.31	+ 8 46.2	2.234	3.195	6.1	21.1
4 21	12 30.88	+ 8 54.9	2.286	3.198	8.9	21.3
5 1	12 24.85	+ 8 48.4	2.362	3.201	11.6	21.5
5 11	12 20.61	+ 8 27.1	2.459	3.204	13.9	21.7

227498 2005 XJ_{76} 4 1.9 153°.86 1°.3/31.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.30	− 3 0.0	1.973	2.839	11.7	21.0
3 12	13 2.52	− 2 23.3	1.906	2.842	8.2	20.7
3 22	12 55.01	− 1 39.3	1.865	2.846	4.3	20.5
4 1	12 46.53	− 0 52.9	1.851	2.849	1.3	20.3
4 11	12 38.00	− 0 9.8	1.867	2.852	4.5	20.5
4 21	12 30.32	+ 0 24.8	1.910	2.855	8.4	20.8
5 1	12 24.22	+ 0 47.2	1.978	2.857	11.9	21.0
5 11	12 20.19	+ 0 55.3	2.067	2.860	14.8	21.2

387281 2012 UX_{139} 4 1.9 105°.59 3°.5/ 5.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.58	−17 30.1	2.334	3.145	12.1	21.5
3 12	13 1.87	−17 33.5	2.262	3.156	9.3	21.3
3 22	12 54.62	−17 21.4	2.215	3.167	6.4	21.1
4 1	12 46.50	−16 55.0	2.194	3.177	3.9	21.0
4 11	12 38.32	−16 17.7	2.202	3.188	4.0	21.0
4 21	12 30.88	−15 34.2	2.239	3.198	6.4	21.2
5 1	12 24.85	−14 49.7	2.302	3.208	9.3	21.4
5 11	12 20.68	−14 9.5	2.389	3.218	12.0	21.6

115127 2003 SJ_{49} 4 1.9 76°.15 3°.7/ 5.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 9.63	−16 9.6	1.939	2.763	13.7	19.4
3 12	13 3.57	−16 25.5	1.870	2.772	10.5	19.2
3 22	12 55.63	−16 24.5	1.825	2.782	7.0	19.0
4 1	12 46.59	−16 7.8	1.806	2.792	4.1	18.9
4 11	12 37.49	−15 38.9	1.815	2.802	4.4	18.9
4 21	12 29.28	−15 3.0	1.852	2.812	7.4	19.1
5 1	12 22.78	−14 26.1	1.914	2.822	10.8	19.3
5 11	12 18.51	−13 53.9	1.999	2.832	13.8	19.6

460683 2014 UG_{179} 4 1.9 305°.17 2°.3/31.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 7.63	− 2 13.9	1.405	2.288	14.4	20.4
3 12	13 2.71	− 1 23.4	1.333	2.278	10.2	20.2
3 22	12 55.40	− 0 22.2	1.285	2.268	5.4	19.9
4 1	12 46.59	+ 0 42.4	1.261	2.258	2.4	19.6
4 11	12 37.54	+ 1 41.2	1.263	2.248	6.3	19.9
4 21	12 29.53	+ 2 26.2	1.291	2.239	11.2	20.1
5 1	12 23.60	+ 2 51.9	1.340	2.230	15.7	20.3
5 11	12 20.40	+ 2 56.0	1.407	2.221	19.5	20.6

217952 2001 UK_{29} 4 1.9 199°.72 2°.6/30.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.41	+ 1 5.8	2.324	3.191	10.1	21.5
3 12	13 2.44	+ 1 58.9	2.250	3.187	7.1	21.3
3 22	12 54.93	+ 2 56.0	2.202	3.182	4.0	21.1
4 1	12 46.54	+ 3 52.0	2.184	3.176	2.7	21.0
4 11	12 38.05	+ 4 41.2	2.196	3.170	5.1	21.1
4 21	12 30.25	+ 5 19.1	2.236	3.163	8.4	21.3
5 1	12 23.80	+ 5 42.9	2.302	3.155	11.4	21.5
5 11	12 19.18	+ 5 51.1	2.389	3.147	14.0	21.7

138595 2000 QD_{161} 4 1.9 199°.10 0°.8/ 3.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 4.32	−10 44.4	3.040	3.874	9.0	21.0
3 12	12 59.32	−10 8.2	2.953	3.870	6.5	20.8
3 22	12 53.18	− 9 22.1	2.893	3.865	3.8	20.6
4 1	12 46.38	− 8 28.9	2.863	3.860	1.1	20.4
4 11	12 39.51	− 7 32.3	2.863	3.854	2.5	20.5
4 21	12 33.12	− 6 36.4	2.893	3.848	5.4	20.7
5 1	12 27.72	− 5 45.2	2.952	3.842	8.0	20.8
5 11	12 23.68	− 5 2.0	3.035	3.835	10.4	21.0

501213 2013 TS_{145} 4 1.9 159°.85 1°.7/ 4.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 7.35	−13 12.0	2.510	3.337	10.8	22.3
3 12	13 1.59	−12 44.5	2.434	3.344	8.0	22.1
3 22	12 54.44	−12 4.1	2.384	3.351	4.9	21.9
4 1	12 46.49	−11 13.5	2.362	3.357	2.0	21.7
4 11	12 38.51	−10 17.0	2.371	3.362	3.0	21.8
4 21	12 31.20	− 9 19.5	2.409	3.367	6.1	22.0
5 1	12 25.18	− 8 26.2	2.475	3.371	9.1	22.2
5 11	12 20.86	− 7 41.1	2.564	3.375	11.8	22.4

240024 2001 UM_{39} 4 1.9 280°.03 0°.2/ 1.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.81	− 7 36.8	2.164	3.022	11.1	20.7
3 12	12 59.36	− 6 42.9	2.080	3.012	7.9	20.4
3 22	12 53.35	− 5 36.9	2.022	3.002	4.2	20.2
4 1	12 46.41	− 4 23.4	1.992	2.991	0.4	19.9
4 11	12 39.34	− 3 8.7	1.991	2.981	3.7	20.1
4 21	12 32.91	− 1 59.2	2.019	2.971	7.5	20.3
5 1	12 27.81	− 1 0.4	2.072	2.961	11.0	20.5
5 11	12 24.53	− 0 16.1	2.147	2.950	14.0	20.7

192553 1998 TH_{27} 4 1.9 148°.18 0°.1/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 12.49	− 6 42.9	1.681	2.539	13.8	21.8
3 12	13 5.70	− 6 11.7	1.618	2.549	9.8	21.6
3 22	12 56.80	− 5 28.4	1.578	2.558	5.3	21.4
4 1	12 46.73	− 4 38.0	1.567	2.566	0.4	21.0
4 11	12 36.64	− 3 47.2	1.583	2.573	4.4	21.3
4 21	12 27.63	− 3 2.5	1.627	2.580	8.9	21.6
5 1	12 20.61	− 2 29.3	1.696	2.586	12.9	21.9
5 11	12 16.07	− 2 10.9	1.785	2.592	16.3	22.1

243068 2007 GN_{36} 4 1.9 339°.55 6°.2/28.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.67	+ 9 20.2	1.474	2.359	13.7	19.7
3 12	13 4.72	+ 9 53.2	1.411	2.351	10.1	19.5
3 22	12 56.41	+10 21.3	1.371	2.343	7.0	19.3
4 1	12 46.70	+10 36.6	1.357	2.336	6.4	19.2
4 11	12 36.88	+10 32.8	1.368	2.329	9.1	19.3
4 21	12 28.20	+10 7.1	1.403	2.324	12.8	19.5
5 1	12 21.66	+ 9 19.5	1.460	2.319	16.5	19.7
5 11	12 17.83	+ 8 12.5	1.535	2.314	19.6	19.9

378316 2007 FM_{49} 4 1.9 281°.18 8°.0/23.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.30	+14 25.1	1.797	2.679	11.8	20.1
3 12	13 1.37	+16 7.8	1.739	2.667	9.4	20.0
3 22	12 54.52	+17 44.1	1.705	2.656	8.1	19.8
4 1	12 46.53	+19 4.1	1.698	2.644	8.7	19.9
4 11	12 38.42	+19 59.7	1.717	2.633	11.0	20.0
4 21	12 31.17	+20 26.9	1.758	2.621	13.8	20.1
5 1	12 25.63	+20 25.0	1.820	2.609	16.5	20.3
5 11	12 22.32	+19 56.5	1.898	2.598	18.9	20.4

135347 2001 TC_{48} 4 1.9 109°.09 0°.4/ 1.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.26	− 6 16.6	1.877	2.738	12.4	20.8
3 12	13 2.50	− 5 34.6	1.818	2.751	8.8	20.6
3 22	12 55.00	− 4 42.0	1.784	2.764	4.6	20.4
4 1	12 46.57	− 3 44.0	1.778	2.777	0.5	20.1
4 11	12 38.16	− 2 47.1	1.800	2.789	4.1	20.4
4 21	12 30.70	− 1 57.2	1.850	2.802	8.2	20.6
5 1	12 24.90	− 1 19.1	1.925	2.813	11.7	20.9
5 11	12 21.22	− 0 55.6	2.021	2.825	14.7	21.1

350202 2012 LL_{11} 4 1.9 266°.51 4°.7/12.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 0.42	−33 27.2	4.584	5.267	8.4	20.1
3 12	12 56.43	−33 31.4	4.482	5.260	7.3	20.0
3 22	12 51.60	−33 22.2	4.402	5.254	6.2	19.9
4 1	12 46.27	−32 59.5	4.347	5.248	5.2	19.8
4 11	12 40.86	−32 24.4	4.320	5.241	4.7	19.8
4 21	12 35.80	−31 38.9	4.320	5.235	5.0	19.8
5 1	12 31.45	−30 45.9	4.347	5.228	5.9	19.8
5 11	12 28.11	−29 49.0	4.399	5.222	7.0	19.9

384115 2008 WR_{133} 4 1.9 94°.98 7°.0/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 8.04	−28 15.7	2.141	2.896	14.8	20.4
3 12	13 2.47	−28 33.4	2.066	2.907	12.4	20.2
3 22	12 55.06	−28 27.0	2.013	2.917	9.9	20.1
4 1	12 46.59	−27 56.0	1.984	2.928	7.8	20.0
4 11	12 38.02	−27 3.0	1.981	2.938	7.0	19.9
4 21	12 30.31	−25 53.5	2.004	2.948	8.1	20.0
5 1	12 24.26	−24 35.3	2.054	2.958	10.3	20.2
5 11	12 20.37	−23 16.3	2.126	2.968	12.8	20.4

310467 2000 SB_{24} 4 1.9 146°.05 3°.1/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 21.28	+ 4 15.6	1.840	2.696	12.8	20.5
3 12	13 11.70	+ 4 12.3	1.776	2.707	9.1	20.3
3 22	12 59.96	+ 4 7.8	1.740	2.717	5.2	20.1
4 1	12 47.04	+ 3 57.9	1.733	2.726	3.1	20.0
4 11	12 34.18	+ 3 39.3	1.758	2.734	5.9	20.2
4 21	12 22.56	+ 3 9.9	1.811	2.742	9.8	20.4
5 1	12 13.08	+ 2 29.4	1.891	2.748	13.3	20.7
5 11	12 6.24	+ 1 38.3	1.992	2.755	16.2	20.9

286084 2001 TV_{17} 4 1.9 76°.61 1°.4/ 3.4 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 10.00	−10 10.2	2.275	3.112	11.4	20.5
3 12	13 3.42	−10 9.5	2.223	3.140	8.3	20.3
3 22	12 55.39	− 9 58.4	2.196	3.168	4.8	20.1
4 1	12 46.62	− 9 39.1	2.198	3.195	1.6	19.9
4 11	12 37.95	− 9 15.4	2.230	3.222	3.1	20.1
4 21	12 30.15	− 8 51.3	2.291	3.248	6.4	20.4
5 1	12 23.84	− 8 30.9	2.379	3.275	9.5	20.6
5 11	12 19.41	− 8 17.1	2.490	3.301	12.1	20.8

310061 2010 JW_{131} 4 1.9 284°.04 0°.1/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 3.72	− 7 43.0	2.319	3.175	10.6	20.7
3 12	12 59.28	− 6 51.8	2.224	3.154	7.6	20.5
3 22	12 53.33	− 5 48.6	2.154	3.133	4.1	20.2
4 1	12 46.44	− 4 37.6	2.113	3.112	0.3	19.9
4 11	12 39.35	− 3 24.6	2.101	3.091	3.5	20.1
4 21	12 32.81	− 2 15.5	2.118	3.069	7.3	20.3
5 1	12 27.49	− 1 15.7	2.160	3.048	10.7	20.5
5 11	12 23.90	− 0 29.4	2.226	3.027	13.6	20.6

384783 2012 PE_{23} 4 1.9 237°.10 1°.0/ 3.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.12	−10 17.2	2.049	2.897	12.1	21.6
3 12	13 1.06	− 9 44.6	1.968	2.892	8.8	21.4
3 22	12 54.30	− 8 58.4	1.913	2.887	5.0	21.1
4 1	12 46.53	− 8 2.0	1.885	2.882	1.3	20.9
4 11	12 38.63	− 7 1.2	1.885	2.877	3.5	21.0
4 21	12 31.45	− 6 2.1	1.914	2.872	7.4	21.2
5 1	12 25.76	− 5 10.5	1.968	2.867	11.0	21.4
5 11	12 22.04	− 4 30.7	2.044	2.861	14.1	21.6

240274 2002 XF_{99} 4 1.9 99°.34 2°.0/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.19	− 0 45.2	2.239	3.107	10.4	20.8
3 12	13 0.82	+ 0 0.6	2.182	3.120	7.2	20.6
3 22	12 54.04	+ 0 51.0	2.151	3.133	3.8	20.4
4 1	12 46.50	+ 1 41.0	2.150	3.145	2.0	20.3
4 11	12 39.00	+ 2 25.3	2.177	3.157	4.6	20.5
4 21	12 32.26	+ 2 59.8	2.233	3.169	7.9	20.7
5 1	12 26.89	+ 3 21.5	2.313	3.181	10.8	20.9
5 11	12 23.29	+ 3 29.1	2.415	3.193	13.3	21.1

143359 2003 BV 4 1.9 98°.69 3°.7/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 13.24	+ 4 37.0	1.835	2.705	12.2	19.4
3 12	13 5.90	+ 5 9.8	1.790	2.727	8.6	19.2
3 22	12 56.77	+ 5 42.2	1.770	2.747	5.1	19.1
4 1	12 46.75	+ 6 8.3	1.779	2.767	3.9	19.0
4 11	12 36.91	+ 6 23.1	1.817	2.787	6.4	19.2
4 21	12 28.22	+ 6 23.7	1.882	2.807	9.8	19.5
5 1	12 21.39	+ 6 8.9	1.971	2.826	13.0	19.7
5 11	12 16.85	+ 5 39.5	2.080	2.844	15.6	19.9

390410 2013 YQ_{17} 4 1.9 123°.27 4°.2/27.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.30	+ 6 40.3	2.332	3.208	9.7	21.1
3 12	13 0.17	+ 7 51.4	2.280	3.217	7.0	20.9
3 22	12 53.69	+ 9 1.7	2.254	3.226	4.7	20.8
4 1	12 46.47	+10 5.0	2.258	3.235	4.5	20.8
4 11	12 39.28	+10 55.8	2.290	3.243	6.5	21.0
4 21	12 32.81	+11 30.5	2.349	3.251	9.2	21.1
5 1	12 27.65	+11 47.3	2.432	3.259	11.7	21.3
5 11	12 24.18	+11 46.5	2.535	3.266	13.9	21.5

313646 2003 SA_{120} 4 1.9 214°.55 0°.1/ 2.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 10.12	− 7 41.5	1.941	2.793	12.5	22.6
3 12	13 3.99	− 7 8.1	1.858	2.786	9.0	22.4
3 22	12 55.94	− 6 22.4	1.799	2.777	4.9	22.1
4 1	12 46.69	− 5 28.5	1.769	2.768	0.5	21.8
4 11	12 37.25	− 4 32.1	1.768	2.759	4.0	22.0
4 21	12 28.60	− 3 39.8	1.795	2.748	8.2	22.2
5 1	12 21.59	− 2 57.0	1.848	2.737	12.1	22.4
5 11	12 16.80	− 2 27.7	1.922	2.725	15.4	22.6

388818 2008 CO_{76} 4 1.9 88°.10 4°.1/28.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 5.13	+ 6 28.5	2.301	3.179	9.8	21.1
3 12	13 0.05	+ 7 32.8	2.253	3.191	7.0	20.9
3 22	12 53.61	+ 8 36.0	2.231	3.203	4.6	20.8
4 1	12 46.47	+ 9 32.3	2.237	3.216	4.3	20.8
4 11	12 39.38	+10 16.4	2.272	3.228	6.4	20.9
4 21	12 33.03	+10 45.0	2.334	3.240	9.1	21.1
5 1	12 28.00	+10 56.4	2.420	3.252	11.6	21.3
5 11	12 24.67	+10 50.9	2.525	3.264	13.8	21.5

498643 2008 SN_{33} 4 1.9 259°.31 0°.9/ 1.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 6.59	− 5 8.1	2.021	2.884	11.6	22.1
3 12	13 1.48	− 4 17.5	1.932	2.867	8.2	21.9
3 22	12 54.58	− 3 15.9	1.869	2.850	4.3	21.6
4 1	12 46.58	− 2 8.3	1.835	2.833	0.9	21.3
4 11	12 38.35	− 1 1.4	1.829	2.816	4.4	21.5
4 21	12 30.79	− 0 1.6	1.851	2.798	8.5	21.8
5 1	12 24.70	+ 0 45.7	1.898	2.780	12.2	21.9
5 11	12 20.63	+ 1 17.1	1.966	2.761	15.3	22.1

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