114953 2003 QD_{57} 4 9.9 258°.61 0°.2/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 42.98	− 9 42.9	1.828	2.617	15.8	20.9
3 12	13 39.10	− 9 26.3	1.717	2.596	12.6	20.6
3 22	13 32.60	− 8 55.7	1.628	2.574	8.8	20.3
4 1	13 23.93	− 8 13.3	1.564	2.552	4.3	20.0
4 11	13 13.98	− 7 23.4	1.527	2.529	0.6	19.6
4 21	13 3.84	− 6 32.1	1.518	2.505	5.5	19.9
5 1	12 54.69	− 5 46.2	1.536	2.481	10.3	20.2
5 11	12 47.52	− 5 11.7	1.577	2.456	14.5	20.4

140282 2001 SO_{281} 4 9.9 169°.00 1°.4/11.6 18

3 2	13 40.39	−13 56.3	2.720	3.474	12.0	20.1
3 12	13 35.93	−13 59.6	2.623	3.477	9.6	19.9
3 22	13 29.74	−13 52.3	2.549	3.479	6.9	19.8
4 1	13 22.29	−13 35.4	2.502	3.482	3.8	19.6
4 11	13 14.19	−13 11.1	2.484	3.484	1.4	19.4
4 21	13 6.15	−12 42.3	2.496	3.485	3.5	19.5
5 1	12 58.86	−12 13.0	2.537	3.486	6.5	19.7
5 11	12 52.89	−11 46.8	2.605	3.487	9.4	19.9

272782 2005 YJ_{209} 4 9.9 52°.55 9°.1/17.9 18

3 2	13 45.06	−30 20.3	1.670	2.372	20.2	20.1
3 12	13 41.01	−31 34.6	1.604	2.395	17.6	19.9
3 22	13 33.92	−32 23.5	1.554	2.418	14.7	19.8
4 1	13 24.49	−32 42.4	1.524	2.442	11.8	19.7
4 11	13 13.94	−32 29.9	1.517	2.465	9.6	19.6
4 21	13 3.64	−31 49.1	1.534	2.489	9.2	19.6
5 1	12 54.94	−30 47.6	1.576	2.513	10.7	19.8
5 11	12 48.75	−29 35.8	1.641	2.537	13.1	20.0

507578 2013 AP_{155} 4 9.9 181°.07 2°.0/12.6 17

3 2	13 36.36	−18 14.4	2.824	3.566	11.9	22.7
3 12	13 32.76	−17 54.7	2.723	3.566	9.7	22.6
3 22	13 27.58	−17 21.1	2.645	3.566	7.1	22.4
4 1	13 21.23	−16 34.8	2.593	3.566	4.3	22.2
4 11	13 14.31	−15 38.4	2.570	3.566	2.1	22.1
4 21	13 7.45	−14 36.0	2.576	3.565	3.4	22.1
5 1	13 1.30	−13 32.3	2.612	3.565	6.2	22.3
5 11	12 56.37	−12 32.1	2.675	3.563	8.9	22.5

415906 2001 TW_{262} 4 9.9 90°.82 1°.9/11.8 18

3 2	13 39.16	−16 37.9	1.810	2.583	16.5	20.7
3 12	13 35.76	−16 13.3	1.731	2.595	13.3	20.5
3 22	13 30.00	−15 29.2	1.671	2.606	9.5	20.3
4 1	13 22.49	−14 27.8	1.637	2.617	5.3	20.1
4 11	13 14.17	−13 13.8	1.629	2.628	1.9	19.9
4 21	13 6.06	−11 54.4	1.648	2.639	4.6	20.1
5 1	12 59.14	−10 37.5	1.695	2.650	8.7	20.4
5 11	12 54.14	− 9 30.3	1.766	2.661	12.4	20.6

429162 2009 VW_{2} 4 9.9 174°.31 3°.7/13.2 17

3 2	13 44.83	−18 56.8	2.237	2.973	14.8	21.6
3 12	13 39.94	−19 27.0	2.140	2.975	12.2	21.5
3 22	13 32.78	−19 42.9	2.064	2.977	9.2	21.3
4 1	13 23.86	−19 43.6	2.013	2.978	6.0	21.1
4 11	13 14.01	−19 29.8	1.990	2.979	3.8	20.9
4 21	13 4.17	−19 4.5	1.996	2.980	4.8	21.0
5 1	12 55.31	−18 32.2	2.030	2.980	7.8	21.2
5 11	12 48.21	−17 58.8	2.089	2.979	11.0	21.4

90883 1996 XB_{26} 4 9.9 80°.52 2°.3/12.2 18

3 2	13 39.84	−16 57.7	1.861	2.630	16.3	19.9
3 12	13 36.22	−16 47.3	1.784	2.644	13.2	19.7
3 22	13 30.27	−16 18.8	1.727	2.658	9.5	19.5
4 1	13 22.61	−15 33.5	1.694	2.672	5.5	19.3
4 11	13 14.16	−14 35.3	1.688	2.686	2.4	19.1
4 21	13 5.93	−13 30.5	1.710	2.700	4.5	19.3
5 1	12 58.88	−12 26.1	1.758	2.714	8.4	19.6
5 11	12 53.73	−11 28.8	1.832	2.728	12.0	19.8

83241 2001 RH_{52} 4 10.0 74°.60 1°.3/11.4 18 R

3 2	13 36.31	−15 29.0	2.180	2.950	14.1	19.5
3 12	13 33.14	−14 57.6	2.093	2.957	11.3	19.4
3 22	13 28.03	−14 10.0	2.028	2.964	8.0	19.2
4 1	13 21.50	−13 8.4	1.988	2.971	4.3	18.9
4 11	13 14.29	−11 57.4	1.977	2.978	1.3	18.7
4 21	13 7.23	−10 42.8	1.994	2.984	4.0	18.9
5 1	13 1.09	− 9 31.0	2.039	2.991	7.6	19.2
5 11	12 56.49	− 8 27.9	2.109	2.998	10.9	19.4

299872 2006 SB_{294} 4 10.0 219°.67 0°.4/ 9.5 18

3 2	13 36.41	−10 8.7	2.677	3.455	11.6	21.7
3 12	13 32.87	− 9 24.8	2.574	3.448	9.1	21.6
3 22	13 27.70	− 8 29.5	2.496	3.440	6.2	21.3
4 1	13 21.32	− 7 25.7	2.444	3.432	2.9	21.1
4 11	13 14.31	− 6 17.6	2.422	3.424	0.7	20.9
4 21	13 7.35	− 5 10.3	2.430	3.415	4.0	21.2
5 1	13 1.07	− 4 8.5	2.467	3.406	7.2	21.4
5 11	12 56.04	− 3 16.6	2.530	3.397	10.2	21.5

286499 2002 BF_{27} 4 10.0 144°.14 3°.1/13.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 39.37	−20 20.1	2.751	3.477	12.5	21.4
3 12	13 35.18	−20 30.5	2.655	3.484	10.3	21.3
3 22	13 29.26	−20 27.4	2.582	3.490	7.8	21.1
4 1	13 22.06	−20 10.6	2.534	3.496	5.2	21.0
4 11	13 14.24	−19 41.7	2.514	3.502	3.3	20.8
4 21	13 6.48	−19 3.8	2.524	3.507	3.9	20.9
5 1	12 59.49	−18 20.8	2.562	3.513	6.4	21.1
5 11	12 53.83	−17 37.7	2.627	3.518	9.0	21.2

232900 2004 XG_{51} 4 10.0 123°.28 2°.5/12.7 18

3 2	13 40.63	−18 4.0	2.364	3.109	13.8	21.4
3 12	13 36.33	−17 58.8	2.279	3.123	11.3	21.3
3 22	13 30.11	−17 38.6	2.215	3.137	8.2	21.1
4 1	13 22.48	−17 4.0	2.177	3.150	5.0	20.9
4 11	13 14.19	−16 17.8	2.167	3.162	2.5	20.8
4 21	13 6.06	−15 24.4	2.186	3.175	4.0	20.9
5 1	12 58.88	−14 29.2	2.234	3.187	7.1	21.1
5 11	12 53.25	−13 37.6	2.308	3.198	10.1	21.3

457363 2008 SY_{288} 4 10.0 212°.12 2°.4/11.9 17

3 2	13 45.16	−15 46.5	1.800	2.565	16.9	22.3
3 12	13 40.80	−15 52.0	1.700	2.559	13.8	22.1
3 22	13 33.72	−15 40.4	1.620	2.552	10.0	21.8
4 1	13 24.45	−15 11.9	1.565	2.544	5.8	21.6
4 11	13 13.96	−14 28.9	1.537	2.535	2.5	21.3
4 21	13 3.42	−13 36.7	1.536	2.526	5.1	21.5
5 1	12 54.05	−12 42.4	1.563	2.516	9.5	21.7
5 11	12 46.80	−11 53.3	1.614	2.505	13.6	21.9

244634 2003 CD_{15} 4 10.0 106°.09 3°.5/ 7.4 18

3 2	13 43.81	− 2 57.3	1.471	2.290	17.5	21.1
3 12	13 39.76	− 2 6.8	1.405	2.303	13.6	20.8
3 22	13 32.89	− 1 5.9	1.360	2.315	9.2	20.6
4 1	13 23.94	− 0 1.4	1.339	2.327	4.9	20.4
4 11	13 14.06	+ 0 58.4	1.345	2.339	4.0	20.4
4 21	13 4.52	+ 1 45.6	1.377	2.351	7.9	20.6
5 1	12 56.49	+ 2 14.6	1.433	2.362	12.2	20.9
5 11	12 50.81	+ 2 22.8	1.511	2.373	16.0	21.1

386172 2007 UK_{82} 4 10.0 185°.30 0°.1/ 9.9 17

3 2	13 38.91	− 9 41.0	2.546	3.323	12.1	22.2
3 12	13 34.88	− 9 21.0	2.451	3.323	9.6	22.0
3 22	13 29.09	− 8 51.1	2.379	3.322	6.5	21.8
4 1	13 22.00	− 8 13.5	2.334	3.321	3.2	21.6
4 11	13 14.27	− 7 31.9	2.318	3.320	0.4	21.3
4 21	13 6.60	− 6 50.2	2.332	3.319	3.9	21.6
5 1	12 59.70	− 6 12.8	2.375	3.317	7.3	21.8
5 11	12 54.17	− 5 43.4	2.443	3.315	10.3	22.0

278839 2008 SL_{301} 4 10.0 151°.70 2°.4/ 7.6 17

3 2	13 39.04	− 3 36.4	2.018	2.825	13.9	20.5
3 12	13 35.39	− 2 55.8	1.935	2.826	10.8	20.3
3 22	13 29.64	− 2 6.7	1.875	2.828	7.3	20.1
4 1	13 22.31	− 1 13.7	1.840	2.829	3.7	19.8
4 11	13 14.23	− 0 22.5	1.834	2.830	2.8	19.8
4 21	13 6.28	+ 0 21.1	1.856	2.831	6.1	20.0
5 1	12 59.31	+ 0 52.5	1.904	2.832	9.7	20.2
5 11	12 54.02	+ 1 8.7	1.975	2.833	13.0	20.4

206296 2003 CJ_{18} 4 10.0 40°.36 0°.7/ 9.3 17

3 2	13 37.16	− 8 25.6	1.963	2.763	14.4	20.5
3 12	13 33.93	− 7 58.8	1.888	2.774	11.3	20.3
3 22	13 28.62	− 7 20.5	1.835	2.785	7.6	20.1
4 1	13 21.80	− 6 34.2	1.807	2.796	3.6	19.9
4 11	13 14.29	− 5 45.0	1.806	2.808	1.0	19.7
4 21	13 6.97	− 4 58.6	1.834	2.820	4.9	20.0
5 1	13 0.69	− 4 20.0	1.888	2.832	8.7	20.2
5 11	12 56.07	− 3 53.3	1.966	2.845	12.1	20.5

298740 2004 GT_{42} 4 10.0 335°.15 0°.5/ 9.6 17

3 2	13 40.18	− 6 57.1	2.027	2.823	14.2	20.6
3 12	13 36.39	− 6 57.8	1.934	2.817	11.2	20.4
3 22	13 30.40	− 6 49.9	1.864	2.812	7.6	20.1
4 1	13 22.73	− 6 35.7	1.819	2.808	3.7	19.9
4 11	13 14.18	− 6 18.7	1.802	2.803	0.8	19.7
4 21	13 5.68	− 6 3.0	1.813	2.799	4.9	19.9
5 1	12 58.14	− 5 52.5	1.851	2.796	8.8	20.2
5 11	12 52.30	− 5 50.8	1.913	2.792	12.3	20.4

262428 2006 UL_{76} 4 10.0 259°.52 0°.7/ 9.3 17

3 2	13 38.51	−10 17.5	1.760	2.559	15.9	21.4
3 12	13 35.52	− 9 32.1	1.662	2.547	12.6	21.2
3 22	13 30.06	− 8 29.5	1.585	2.534	8.6	20.9
4 1	13 22.66	− 7 13.2	1.533	2.522	4.1	20.6
4 11	13 14.19	− 5 49.7	1.508	2.509	1.1	20.4
4 21	13 5.71	− 4 27.1	1.510	2.496	5.8	20.6
5 1	12 58.29	− 3 13.8	1.539	2.483	10.3	20.9
5 11	12 52.81	− 2 16.5	1.591	2.470	14.4	21.1

372991 2011 CN_{75} 4 10.0 73°.81 7°.6/17.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 42.52	−28 56.3	1.834	2.539	18.6	20.8
3 12	13 38.77	−29 43.2	1.754	2.552	16.1	20.6
3 22	13 32.30	−30 6.6	1.691	2.565	13.2	20.5
4 1	13 23.72	−30 3.0	1.649	2.578	10.3	20.3
4 11	13 14.08	−29 32.2	1.631	2.591	8.1	20.2
4 21	13 4.59	−28 37.5	1.639	2.604	7.8	20.2
5 1	12 56.44	−27 26.3	1.672	2.616	9.6	20.3
5 11	12 50.51	−26 8.1	1.729	2.629	12.3	20.5

156114 2001 ST_{267} 4 10.0 216°.61 1°.1/ 8.9 18

3 2	13 40.03	− 8 2.6	2.259	3.046	13.2	21.0
3 12	13 36.04	− 7 20.9	2.159	3.038	10.4	20.7
3 22	13 30.06	− 6 27.6	2.081	3.029	7.0	20.5
4 1	13 22.54	− 5 25.9	2.031	3.019	3.3	20.3
4 11	13 14.21	− 4 21.0	2.009	3.009	1.4	20.1
4 21	13 5.91	− 3 18.6	2.017	2.999	5.0	20.3
5 1	12 58.46	− 2 24.3	2.052	2.987	8.7	20.5
5 11	12 52.56	− 1 42.5	2.113	2.976	12.0	20.7

407349 2010 RJ_{90} 4 10.0 175°.77 0°.3/ 9.7 16

3 2	13 42.50	− 9 44.2	2.182	2.961	13.9	22.7
3 12	13 37.97	− 9 14.6	2.091	2.964	10.9	22.5
3 22	13 31.34	− 8 32.9	2.022	2.966	7.5	22.3
4 1	13 23.14	− 7 41.9	1.980	2.968	3.6	22.1
4 11	13 14.16	− 6 46.2	1.967	2.969	0.6	21.8
4 21	13 5.29	− 5 51.3	1.983	2.969	4.6	22.2
5 1	12 57.39	− 5 2.7	2.028	2.968	8.5	22.4
5 11	12 51.15	− 4 24.7	2.097	2.967	11.8	22.6

213328 2001 SF_{139} 4 10.0 152°.67 1°.5/11.6 17

3 2	13 40.27	−14 10.4	2.550	3.308	12.6	21.3
3 12	13 35.96	−14 13.6	2.457	3.312	10.2	21.1
3 22	13 29.84	−14 5.4	2.386	3.317	7.2	20.9
4 1	13 22.38	−13 46.8	2.341	3.321	4.0	20.7
4 11	13 14.25	−13 20.2	2.325	3.325	1.6	20.5
4 21	13 6.19	−12 48.9	2.339	3.328	3.6	20.7
5 1	12 58.94	−12 16.9	2.381	3.331	6.8	20.9
5 11	12 53.10	−11 48.5	2.450	3.334	9.8	21.1

172403 2003 BO_{52} 4 10.0 25°.52 3°.9/13.9 18

3 2	13 38.08	−20 55.4	2.145	2.888	15.1	20.0
3 12	13 34.74	−21 10.8	2.053	2.891	12.6	19.8
3 22	13 29.27	−21 9.1	1.982	2.894	9.6	19.6
4 1	13 22.18	−20 49.7	1.935	2.898	6.4	19.4
4 11	13 14.27	−20 14.4	1.914	2.901	4.1	19.3
4 21	13 6.42	−19 27.1	1.920	2.905	4.8	19.3
5 1	12 59.54	−18 33.4	1.954	2.909	7.7	19.5
5 11	12 54.34	−17 39.9	2.013	2.914	10.8	19.7

492652 2014 OV_{377} 4 10.0 235°.71 3°.9/ 6.6 17

3 2	13 40.61	− 2 51.7	1.608	2.427	16.2	21.5
3 12	13 37.31	− 1 44.1	1.521	2.419	12.7	21.3
3 22	13 31.35	− 0 24.0	1.455	2.411	8.7	21.0
4 1	13 23.30	+ 1 2.0	1.415	2.402	4.8	20.8
4 11	13 14.14	+ 2 24.7	1.401	2.392	4.5	20.7
4 21	13 5.03	+ 3 35.0	1.413	2.383	8.3	20.9
5 1	12 57.13	+ 4 25.6	1.451	2.373	12.6	21.1
5 11	12 51.35	+ 4 52.7	1.509	2.362	16.5	21.3

396566 1999 VV_{191} 4 10.0 118°.98 2°.2/ 8.5 18

3 2	13 45.64	− 5 7.0	1.456	2.267	18.0	21.0
3 12	13 41.32	− 4 37.6	1.385	2.278	14.1	20.8
3 22	13 34.04	− 3 56.4	1.335	2.289	9.5	20.6
4 1	13 24.54	− 3 8.7	1.309	2.299	4.6	20.3
4 11	13 14.01	− 2 21.5	1.309	2.308	2.6	20.2
4 21	13 3.79	− 1 42.1	1.336	2.318	7.0	20.5
5 1	12 55.13	− 1 16.6	1.388	2.327	11.7	20.8
5 11	12 48.91	− 1 8.3	1.462	2.335	15.8	21.0

435040 2006 WP_{45} 4 10.0 238°.52 0°.8/ 9.0 17

3 2	13 37.01	− 8 4.6	2.617	3.402	11.6	22.2
3 12	13 33.41	− 7 28.7	2.513	3.391	9.1	22.0
3 22	13 28.13	− 6 42.9	2.432	3.380	6.2	21.8
4 1	13 21.57	− 5 50.1	2.379	3.368	2.9	21.5
4 11	13 14.34	− 4 54.4	2.355	3.356	1.1	21.3
4 21	13 7.13	− 4 0.4	2.361	3.344	4.3	21.6
5 1	13 0.60	− 3 12.7	2.395	3.331	7.6	21.8
5 11	12 55.36	− 2 35.1	2.454	3.318	10.5	21.9

385624 2005 ND_{22} 4 10.0 336°.52 6°.1/ 3.6 17

3 2	13 34.21	+ 4 21.3	1.804	2.638	14.1	20.1
3 12	13 31.94	+ 5 44.2	1.725	2.628	11.1	19.9
3 22	13 27.48	+ 7 12.2	1.668	2.619	8.1	19.7
4 1	13 21.35	+ 8 37.1	1.636	2.610	6.2	19.5
4 11	13 14.36	+ 9 50.3	1.631	2.602	6.9	19.6
4 21	13 7.46	+10 44.3	1.651	2.594	9.6	19.7
5 1	13 1.57	+11 14.6	1.695	2.587	12.8	19.9
5 11	12 57.41	+11 19.8	1.759	2.580	15.9	20.0

217070 2001 SS_{127} 4 10.0 186°.25 0°.0/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 41.08	−10 43.1	2.304	3.079	13.3	22.0
3 12	13 36.78	−10 15.6	2.208	3.079	10.5	21.8
3 22	13 30.50	− 9 35.9	2.136	3.078	7.2	21.6
4 1	13 22.73	− 8 46.6	2.090	3.077	3.5	21.4
4 11	13 14.22	− 7 51.7	2.073	3.075	0.4	21.1
4 21	13 5.77	− 6 56.4	2.085	3.072	4.3	21.4
5 1	12 58.21	− 6 6.0	2.126	3.069	8.0	21.6
5 11	12 52.21	− 5 25.1	2.192	3.065	11.3	21.8

464353 2016 AM_{122} 4 10.0 135°.87 1°.5/ 8.7 18

3 2	13 43.53	− 7 9.0	1.834	2.629	15.5	22.8
3 12	13 39.04	− 6 27.4	1.758	2.642	12.1	22.6
3 22	13 32.16	− 5 33.8	1.705	2.654	8.1	22.3
4 1	13 23.55	− 4 32.5	1.677	2.666	3.9	22.1
4 11	13 14.14	− 3 29.9	1.677	2.677	1.8	22.0
4 21	13 4.97	− 2 32.7	1.706	2.687	5.8	22.3
5 1	12 57.03	− 1 46.8	1.761	2.697	9.9	22.5
5 11	12 51.04	− 1 16.2	1.840	2.706	13.4	22.8

188695 2005 TC_{24} 4 10.0 189°.26 1°.6/ 8.3 17

3 2	13 41.70	− 4 58.8	2.507	3.292	12.1	21.7
3 12	13 37.05	− 4 25.5	2.412	3.291	9.4	21.5
3 22	13 30.58	− 3 44.5	2.341	3.289	6.4	21.3
4 1	13 22.74	− 2 58.9	2.298	3.287	3.1	21.1
4 11	13 14.22	− 2 13.3	2.285	3.283	1.9	21.0
4 21	13 5.77	− 1 32.1	2.302	3.279	4.9	21.2
5 1	12 58.14	− 0 59.2	2.347	3.275	8.2	21.4
5 11	12 51.93	− 0 37.8	2.418	3.269	11.1	21.6

97312 1999 XQ_{201} 4 10.0 140°.31 1°.3/11.3 17

3 2	13 41.87	−13 29.3	2.458	3.217	13.0	20.5
3 12	13 37.22	−13 27.7	2.369	3.227	10.4	20.3
3 22	13 30.70	−13 14.5	2.304	3.237	7.3	20.1
4 1	13 22.79	−12 51.0	2.265	3.246	4.0	19.9
4 11	13 14.23	−12 19.9	2.255	3.255	1.3	19.7
4 21	13 5.79	−11 44.9	2.275	3.264	3.7	19.9
5 1	12 58.24	−11 10.3	2.323	3.272	7.1	20.1
5 11	12 52.17	−10 40.4	2.398	3.279	10.1	20.3

463906 2014 UR_{120} 4 10.0 33°.00 1°.1/10.9 17

3 2	13 38.89	−14 3.7	1.606	2.399	17.4	21.5
3 12	13 35.98	−13 40.5	1.522	2.399	14.0	21.3
3 22	13 30.43	−12 57.9	1.457	2.400	9.9	21.1
4 1	13 22.84	−11 57.9	1.416	2.401	5.2	20.8
4 11	13 14.22	−10 46.3	1.401	2.402	1.1	20.5
4 21	13 5.72	− 9 30.7	1.412	2.403	5.2	20.8
5 1	12 58.49	− 8 19.8	1.450	2.404	9.9	21.1
5 11	12 53.37	− 7 21.2	1.510	2.406	14.1	21.3

92435 2000 JW_{73} 4 10.0 271°.11 3°.8/ 7.3 16

3 2	13 42.53	− 1 54.2	1.508	2.329	17.0	20.2
3 12	13 39.15	− 1 14.9	1.416	2.314	13.5	20.0
3 22	13 32.84	− 0 25.4	1.344	2.299	9.3	19.7
4 1	13 24.14	+ 0 28.5	1.296	2.283	5.1	19.4
4 11	13 14.08	+ 1 18.9	1.274	2.268	4.3	19.3
4 21	13 3.96	+ 1 57.9	1.277	2.252	8.3	19.5
5 1	12 55.10	+ 2 19.0	1.305	2.236	13.0	19.7
5 11	12 48.56	+ 2 19.0	1.354	2.220	17.3	19.9

201751 Steinhardt 4 10.0 177°.31 1°.3/ 8.6 17

3 2	13 39.30	− 6 18.5	2.239	3.032	13.1	21.0
3 12	13 35.41	− 5 46.3	2.150	3.033	10.2	20.8
3 22	13 29.57	− 5 4.7	2.084	3.034	6.9	20.6
4 1	13 22.29	− 4 17.2	2.045	3.034	3.3	20.4
4 11	13 14.30	− 3 28.5	2.035	3.035	1.6	20.3
4 21	13 6.41	− 2 43.8	2.053	3.034	5.0	20.5
5 1	12 59.41	− 2 7.6	2.099	3.034	8.5	20.7
5 11	12 53.93	− 1 43.3	2.170	3.034	11.7	20.9

35407 1997 YF_{11} 4 10.0 337°.94 6°.8/ 5.0 18

3 2	13 37.93	+ 3 4.2	1.262	2.109	18.1	17.6
3 12	13 35.84	+ 4 12.1	1.190	2.101	14.4	17.3
3 22	13 30.67	+ 5 27.2	1.137	2.094	10.3	17.0
4 1	13 23.07	+ 6 39.6	1.106	2.087	7.2	16.8
4 11	13 14.21	+ 7 38.0	1.099	2.081	7.6	16.8
4 21	13 5.49	+ 8 13.2	1.115	2.075	11.2	17.0
5 1	12 58.26	+ 8 20.0	1.153	2.071	15.5	17.2
5 11	12 53.54	+ 7 57.7	1.209	2.067	19.4	17.5

20224 Johnrae 4 10.0 344°.80 0°.2/10.3 18

3 2	13 35.10	−12 7.7	2.364	3.145	12.9	18.6
3 12	13 32.08	−11 31.2	2.271	3.144	10.2	18.4
3 22	13 27.29	−10 41.3	2.200	3.143	7.0	18.2
4 1	13 21.18	− 9 40.9	2.156	3.142	3.5	18.0
4 11	13 14.43	− 8 34.4	2.140	3.142	0.3	17.7
4 21	13 7.75	− 7 27.1	2.153	3.141	4.0	18.0
5 1	13 1.88	− 6 24.7	2.194	3.140	7.5	18.2
5 11	12 57.39	− 5 31.8	2.260	3.140	10.7	18.4

78979 2003 UC_{24} 4 10.0 230°.96 0°.6/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 42.26	− 8 17.1	1.654	2.456	16.6	19.7
3 12	13 38.56	− 8 2.1	1.567	2.453	13.2	19.5
3 22	13 32.18	− 7 34.0	1.500	2.450	9.0	19.2
4 1	13 23.71	− 6 56.0	1.458	2.447	4.3	18.9
4 11	13 14.15	− 6 13.3	1.442	2.443	1.0	18.7
4 21	13 4.65	− 5 32.1	1.453	2.440	5.8	19.0
5 1	12 56.39	− 4 58.7	1.490	2.436	10.4	19.3
5 11	12 50.26	− 4 38.2	1.550	2.433	14.5	19.5

506027 2015 HB_{156} 4 10.0 283°.32 4°.9/15.9 18

3 2	13 36.33	−27 1.8	2.285	2.994	15.2	21.3
3 12	13 33.36	−26 52.4	2.181	2.990	13.0	21.1
3 22	13 28.34	−26 21.0	2.097	2.986	10.3	20.9
4 1	13 21.75	−25 26.8	2.036	2.981	7.5	20.8
4 11	13 14.37	−24 11.6	2.001	2.977	5.3	20.6
4 21	13 7.05	−22 40.1	1.994	2.973	5.3	20.6
5 1	13 0.65	−20 59.5	2.015	2.969	7.6	20.7
5 11	12 55.86	−19 18.2	2.062	2.965	10.5	20.9

303923 2005 UY_{276} 4 10.0 233°.76 2°.6/ 7.3 18

3 2	13 40.98	+ 0 32.3	2.683	3.478	11.1	20.5
3 12	13 36.38	+ 0 49.1	2.587	3.471	8.7	20.4
3 22	13 30.08	+ 1 8.9	2.516	3.464	6.0	20.2
4 1	13 22.51	+ 1 28.4	2.472	3.457	3.4	20.0
4 11	13 14.29	+ 1 43.9	2.458	3.449	2.9	19.9
4 21	13 6.13	+ 1 52.4	2.474	3.442	5.3	20.1
5 1	12 58.69	+ 1 51.4	2.517	3.434	8.2	20.3
5 11	12 52.57	+ 1 39.5	2.586	3.426	10.8	20.4

488944 2005 UO_{163} 4 10.0 126°.54 0°.2/10.2 16

3 2	13 43.30	−10 21.6	2.227	3.001	13.8	23.1
3 12	13 38.44	−10 8.7	2.147	3.016	10.9	22.9
3 22	13 31.57	− 9 44.9	2.090	3.032	7.4	22.7
4 1	13 23.23	− 9 12.3	2.060	3.046	3.7	22.5
4 11	13 14.22	− 8 34.7	2.058	3.060	0.4	22.3
4 21	13 5.41	− 7 56.5	2.086	3.074	4.2	22.6
5 1	12 57.62	− 7 22.5	2.142	3.086	7.8	22.9
5 11	12 51.48	− 6 56.5	2.224	3.099	11.0	23.1

170072 2002 VG_{128} 4 10.0 92°.53 4°.8/ 5.1 18

3 2	13 39.20	+ 4 40.5	2.192	3.006	12.6	19.9
3 12	13 35.28	+ 5 31.0	2.119	3.011	9.9	19.8
3 22	13 29.44	+ 6 23.2	2.069	3.016	7.1	19.6
4 1	13 22.20	+ 7 11.5	2.046	3.021	5.0	19.5
4 11	13 14.33	+ 7 50.1	2.050	3.026	5.3	19.5
4 21	13 6.63	+ 8 14.6	2.082	3.031	7.6	19.6
5 1	12 59.88	+ 8 22.1	2.140	3.035	10.4	19.8
5 11	12 54.67	+ 8 12.1	2.221	3.040	13.0	20.0

282094 2000 RN_{90} 4 10.0 234°.04 4°.8/14.3 17

3 2	13 42.78	−22 22.9	2.176	2.901	15.4	21.0
3 12	13 38.62	−22 53.0	2.068	2.892	13.0	20.8
3 22	13 32.09	−23 6.4	1.981	2.882	10.2	20.6
4 1	13 23.66	−23 1.2	1.917	2.872	7.2	20.4
4 11	13 14.16	−22 37.8	1.880	2.862	5.0	20.3
4 21	13 4.55	−21 58.9	1.871	2.851	5.5	20.3
5 1	12 55.88	−21 9.7	1.889	2.839	8.3	20.4
5 11	12 48.99	−20 17.1	1.933	2.828	11.5	20.6

363971 2005 US_{131} 4 10.0 155°.05 3°.2/ 6.3 15

3 2	13 39.88	− 1 18.2	2.328	3.129	12.4	22.5
3 12	13 35.69	− 0 12.2	2.249	3.138	9.6	22.3
3 22	13 29.66	+ 1 0.5	2.195	3.145	6.5	22.1
4 1	13 22.30	+ 2 14.6	2.168	3.152	3.8	21.9
4 11	13 14.34	+ 3 24.0	2.171	3.159	3.7	21.9
4 21	13 6.53	+ 4 23.2	2.203	3.165	6.3	22.1
5 1	12 59.61	+ 5 7.8	2.262	3.170	9.4	22.3
5 11	12 54.18	+ 5 35.4	2.345	3.175	12.1	22.5

428735 2008 RX_{107} 4 10.0 242°.35 4°.7/14.7 18

3 2	13 41.71	−23 39.7	2.404	3.118	14.4	21.8
3 12	13 37.59	−23 59.5	2.287	3.102	12.3	21.6
3 22	13 31.29	−24 2.5	2.191	3.086	9.7	21.4
4 1	13 23.26	−23 47.2	2.118	3.069	6.9	21.2
4 11	13 14.22	−23 13.9	2.073	3.052	4.9	21.0
4 21	13 5.05	−22 25.4	2.056	3.035	5.3	21.0
5 1	12 56.70	−21 26.8	2.067	3.016	7.8	21.1
5 11	12 49.95	−20 24.6	2.104	2.998	10.8	21.3

358047 2006 GM_{39} 4 10.0 314°.28 2°.2/10.5 17

3 2	13 56.86	− 5 43.3	1.276	2.076	20.7	19.5
3 12	13 51.95	− 7 21.0	1.167	2.049	17.1	19.2
3 22	13 42.78	− 9 2.6	1.077	2.022	12.3	18.8
4 1	13 29.57	−10 46.7	1.011	1.996	6.6	18.4
4 11	13 13.47	−12 30.0	0.970	1.971	2.2	18.1
4 21	12 56.39	−14 8.3	0.958	1.947	7.5	18.3
5 1	12 40.61	−15 39.5	0.971	1.923	13.9	18.5
5 11	12 28.12	−17 4.8	1.006	1.900	19.6	18.8

496829 1995 TD_5 4 10.0 239°.35 0°.0/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 42.69	−10 1.1	1.998	2.781	14.8	22.7
3 12	13 38.57	− 9 42.8	1.892	2.767	11.8	22.4
3 22	13 32.07	− 9 11.6	1.807	2.751	8.2	22.2
4 1	13 23.66	− 8 29.3	1.748	2.736	4.0	21.9
4 11	13 14.18	− 7 40.5	1.717	2.719	0.5	21.5
4 21	13 4.61	− 6 50.4	1.715	2.702	5.0	21.8
5 1	12 56.00	− 6 5.3	1.740	2.684	9.3	22.1
5 11	12 49.18	− 5 30.4	1.789	2.666	13.2	22.3

207782 2007 TT_{103} 4 10.0 256°.29 2°.5/ 8.1 17

3 2	13 43.39	− 3 56.0	1.714	2.521	15.9	20.6
3 12	13 39.50	− 3 26.5	1.614	2.505	12.6	20.4
3 22	13 32.91	− 2 46.7	1.536	2.489	8.6	20.1
4 1	13 24.14	− 2 1.0	1.483	2.472	4.3	19.8
4 11	13 14.13	− 1 15.5	1.457	2.454	2.9	19.7
4 21	13 4.02	− 0 36.9	1.458	2.437	6.9	19.9
5 1	12 55.02	− 0 11.2	1.485	2.418	11.5	20.1
5 11	12 48.10	− 0 2.4	1.534	2.400	15.6	20.3

431282 2006 UC_{177} 4 10.0 181°.35 2°.4/ 6.8 18

3 2	13 35.75	− 3 52.4	2.662	3.460	11.1	21.3
3 12	13 32.31	− 2 43.1	2.573	3.460	8.6	21.1
3 22	13 27.30	− 1 25.5	2.509	3.460	5.8	21.0
4 1	13 21.16	− 0 4.2	2.473	3.460	3.1	20.8
4 11	13 14.47	+ 1 15.3	2.468	3.460	2.8	20.7
4 21	13 7.86	+ 2 27.6	2.492	3.459	5.3	20.9
5 1	13 1.96	+ 3 28.1	2.544	3.458	8.2	21.1
5 11	12 57.29	+ 4 13.9	2.621	3.457	10.8	21.3

435353 2007 VO_{209} 4 10.0 157°.29 1°.0/ 8.9 17

3 2	13 41.06	− 5 35.7	2.477	3.263	12.2	22.1
3 12	13 36.56	− 5 23.0	2.389	3.267	9.5	21.9
3 22	13 30.25	− 5 3.4	2.324	3.271	6.4	21.7
4 1	13 22.60	− 4 39.4	2.286	3.274	3.1	21.5
4 11	13 14.31	− 4 14.7	2.277	3.278	1.3	21.3
4 21	13 6.12	− 3 52.7	2.298	3.280	4.4	21.6
5 1	12 58.77	− 3 36.9	2.348	3.283	7.7	21.8
5 11	12 52.84	− 3 29.9	2.422	3.285	10.7	22.0

299384 2005 VM_{135} 4 10.0 261°.85 2°.9/12.1 17

3 2	13 42.03	−16 42.8	1.548	2.327	18.6	21.0
3 12	13 38.94	−16 47.1	1.445	2.312	15.3	20.8
3 22	13 32.84	−16 30.9	1.361	2.296	11.3	20.5
4 1	13 24.23	−15 53.4	1.300	2.279	6.7	20.2
4 11	13 14.11	−14 57.4	1.264	2.262	3.0	19.9
4 21	13 3.81	−13 49.0	1.254	2.245	5.7	20.0
5 1	12 54.74	−12 37.4	1.270	2.228	10.6	20.2
5 11	12 48.03	−11 32.3	1.308	2.210	15.3	20.4

286657 2002 EV_{93} 4 10.0 237°.22 5°.8/15.5 18

3 2	13 43.82	−25 52.1	2.583	3.274	14.0	20.4
3 12	13 39.09	−26 48.6	2.479	3.272	12.1	20.3
3 22	13 32.23	−27 30.7	2.396	3.270	9.8	20.1
4 1	13 23.69	−27 55.8	2.337	3.268	7.5	20.0
4 11	13 14.19	−28 3.0	2.304	3.265	6.0	19.9
4 21	13 4.60	−27 53.4	2.300	3.263	6.1	19.9
5 1	12 55.83	−27 30.4	2.324	3.260	7.7	19.9
5 11	12 48.62	−26 59.3	2.373	3.258	10.1	20.1

269526 2009 VQ_{41} 4 10.0 174°.38 1°.6/ 8.3 17

3 2	13 40.62	− 5 31.6	2.254	3.047	13.0	21.3
3 12	13 36.41	− 4 54.7	2.166	3.049	10.2	21.2
3 22	13 30.25	− 4 8.8	2.101	3.051	6.8	20.9
4 1	13 22.64	− 3 17.6	2.064	3.052	3.3	20.7
4 11	13 14.32	− 2 26.2	2.055	3.053	2.0	20.6
4 21	13 6.10	− 1 39.6	2.075	3.054	5.2	20.8
5 1	12 58.80	− 1 2.5	2.123	3.054	8.7	21.1
5 11	12 53.04	− 0 38.2	2.196	3.053	11.8	21.2

401060 2011 UN_{39} 4 10.0 205°.68 8°.5/31.7 17

3 2	13 47.91	+22 58.7	2.701	3.473	11.6	21.2
3 12	13 41.69	+23 40.4	2.633	3.471	10.1	21.1
3 22	13 33.59	+24 11.7	2.587	3.468	8.9	21.0
4 1	13 24.15	+24 26.8	2.568	3.465	8.5	20.9
4 11	13 14.17	+24 21.1	2.576	3.462	9.0	21.0
4 21	13 4.43	+23 52.9	2.610	3.458	10.3	21.0
5 1	12 55.70	+23 2.5	2.668	3.455	11.9	21.1
5 11	12 48.55	+21 52.4	2.748	3.451	13.5	21.3

435237 2007 RC_{323} 4 10.0 210°.68 2°.2/ 7.8 17

3 2	13 40.52	− 2 5.8	2.403	3.200	12.2	21.7
3 12	13 36.24	− 1 43.0	2.312	3.197	9.5	21.5
3 22	13 30.09	− 1 14.8	2.244	3.194	6.5	21.3
4 1	13 22.56	− 0 44.7	2.203	3.190	3.4	21.1
4 11	13 14.33	− 0 16.8	2.191	3.186	2.5	21.0
4 21	13 6.17	+ 0 4.9	2.208	3.182	5.3	21.2
5 1	12 58.84	+ 0 17.1	2.253	3.178	8.6	21.4
5 11	12 52.95	+ 0 17.6	2.323	3.174	11.5	21.5

1269 Rollandia 4 10.0 36°38 1°0/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 34.46	− 6 36.0	2.796	3.587	10.8	14.5
3 12	13 31.22	− 6 7.5	2.711	3.593	8.4	14.3
3 22	13 26.53	− 5 31.5	2.649	3.598	5.6	14.2
4 1	13 20.78	− 4 51.0	2.615	3.604	2.7	14.0
4 11	13 14.53	− 4 9.5	2.610	3.610	1.2	13.9
4 21	13 8.39	− 3 30.9	2.635	3.617	4.0	14.1
5 1	13 2.91	− 2 58.5	2.687	3.623	6.8	14.3
5 11	12 58.58	− 2 35.2	2.765	3.630	9.4	14.5

371761 2007 GU_{25} 4 10.0 62°37 3°2/12.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.18	−15 30.5	1.719	2.489	17.4	21.3
3 12	13 40.73	−16 7.9	1.641	2.501	14.1	21.1
3 22	13 33.58	−16 30.3	1.584	2.514	10.3	20.9
4 1	13 24.37	−16 37.1	1.550	2.526	6.2	20.6
4 11	13 14.14	−16 29.8	1.543	2.539	3.3	20.5
4 21	13 4.10	−16 12.0	1.563	2.552	5.2	20.6
5 1	12 55.39	−15 49.4	1.610	2.565	9.1	20.9
5 11	12 48.87	−15 28.1	1.680	2.578	12.8	21.1

181133 2005 QH_{142} 4 10.0 131°20 0°2/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 36.11	−11 49.3	2.636	3.409	11.9	20.3
3 12	13 32.63	−11 16.2	2.546	3.415	9.4	20.1
3 22	13 27.54	−10 31.7	2.479	3.421	6.4	19.9
4 1	13 21.29	− 9 38.2	2.440	3.426	3.2	19.7
4 11	13 14.48	− 8 39.7	2.429	3.431	0.3	19.5
4 21	13 7.78	− 7 40.7	2.448	3.436	3.6	19.8
5 1	13 1.82	− 6 45.8	2.496	3.441	6.8	20.0
5 11	12 57.12	− 5 59.2	2.570	3.446	9.7	20.2

150742 2001 QY_{85} 4 10.0 113°78 0°5/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.75	−11 31.8	2.200	2.969	14.0	21.6
3 12	13 38.78	−11 16.2	2.125	2.991	11.1	21.4
3 22	13 31.78	−10 48.7	2.073	3.012	7.6	21.2
4 1	13 23.34	−10 11.4	2.048	3.033	3.8	21.0
4 11	13 14.27	− 9 28.3	2.051	3.053	0.5	20.8
4 21	13 5.45	− 8 44.1	2.084	3.072	4.1	21.1
5 1	12 57.70	− 8 3.9	2.145	3.091	7.8	21.4
5 11	12 51.64	− 7 31.7	2.232	3.109	10.9	21.6

383203 2005 YQ_{47} 4 10.0 317°73 19°2/22.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.48	−40 30.6	1.174	1.860	28.0	19.9
3 12	13 42.50	−43 9.2	1.096	1.852	26.2	19.7
3 22	13 36.91	−45 17.9	1.030	1.844	24.1	19.5
4 1	13 26.89	−46 42.9	0.977	1.837	21.9	19.3
4 11	13 13.80	−47 11.8	0.938	1.830	20.1	19.2
4 21	13 0.04	−46 38.9	0.916	1.824	19.2	19.1
5 1	12 48.42	−45 8.8	0.911	1.818	19.7	19.1
5 11	12 41.11	−42 57.7	0.922	1.813	21.2	19.2

294437 2007 VH_{267} 4 10.0 42°29 2°7/ 6.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 34.32	− 5 55.7	1.935	2.749	14.1	20.4
3 12	13 31.73	− 4 28.8	1.865	2.761	10.9	20.2
3 22	13 27.15	− 2 49.5	1.818	2.774	7.2	20.0
4 1	13 21.15	− 1 4.4	1.798	2.787	3.7	19.8
4 11	13 14.52	+ 0 38.1	1.806	2.800	3.2	19.8
4 21	13 8.10	+ 2 10.1	1.842	2.814	6.5	20.1
5 1	13 2.68	+ 3 25.0	1.905	2.828	10.0	20.3
5 11	12 58.86	+ 4 19.3	1.991	2.843	13.1	20.5

33689 1999 JM_{126} 4 10.0 161°33 2°4/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 37.64	−18 58.1	2.685	3.424	12.5	18.8
3 12	13 33.88	−18 43.9	2.588	3.428	10.2	18.6
3 22	13 28.44	−18 15.2	2.513	3.432	7.5	18.4
4 1	13 21.75	−17 32.8	2.464	3.435	4.7	18.2
4 11	13 14.46	−16 39.4	2.444	3.438	2.4	18.1
4 21	13 7.24	−15 38.9	2.452	3.441	3.6	18.2
5 1	13 0.79	−14 36.3	2.490	3.443	6.4	18.4
5 11	12 55.66	−13 36.8	2.555	3.445	9.2	18.5

393554 2003 DJ_{20} 4 10.0 1°41 7°6/31.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 32.98	+ 7 51.3	1.889	2.725	13.5	20.2
3 12	13 30.85	+10 0.9	1.824	2.724	10.8	20.1
3 22	13 26.67	+12 13.2	1.782	2.724	8.5	19.9
4 1	13 20.96	+14 17.7	1.768	2.724	7.6	19.9
4 11	13 14.54	+16 4.5	1.780	2.725	8.7	19.9
4 21	13 8.25	+17 25.9	1.818	2.726	11.1	20.1
5 1	13 2.93	+18 17.8	1.879	2.728	13.8	20.2
5 11	12 59.24	+18 40.1	1.959	2.730	16.2	20.4

402883 2007 RC_{299} 4 10.0 91°19 2°6/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.87	− 5 53.9	1.555	2.370	16.9	20.8
3 12	13 37.33	− 4 50.7	1.489	2.385	13.1	20.6
3 22	13 31.19	− 3 34.0	1.445	2.399	8.8	20.4
4 1	13 23.17	− 2 10.3	1.425	2.414	4.3	20.2
4 11	13 14.32	− 0 48.5	1.432	2.429	3.1	20.1
4 21	13 5.79	+ 0 22.7	1.466	2.443	7.1	20.4
5 1	12 58.64	+ 1 16.6	1.525	2.457	11.3	20.7
5 11	12 53.63	+ 1 49.5	1.606	2.471	15.0	20.9

41462 2000 OJ_{13} 4 10.0 173°15 4°7/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 37.43	+ 4 47.6	2.436	3.248	11.6	19.0
3 12	13 33.76	+ 5 51.7	2.358	3.250	9.1	18.8
3 22	13 28.37	+ 6 58.1	2.305	3.250	6.6	18.7
4 1	13 21.72	+ 8 1.1	2.279	3.251	4.9	18.6
4 11	13 14.48	+ 8 55.0	2.281	3.252	5.2	18.6
4 21	13 7.35	+ 9 35.1	2.311	3.252	7.4	18.7
5 1	13 1.04	+ 9 58.3	2.368	3.252	10.0	18.9
5 11	12 56.09	+10 3.7	2.447	3.252	12.4	19.0

93183 2000 SC_{106} 4 10.0 164°84 0°2/10.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.67	−11 37.3	2.127	2.907	14.1	20.7
3 12	13 35.87	−11 8.9	2.037	2.910	11.2	20.5
3 22	13 29.99	−10 26.8	1.970	2.913	7.7	20.2
4 1	13 22.57	− 9 33.7	1.928	2.915	3.8	20.0
4 11	13 14.39	− 8 34.2	1.915	2.917	0.4	19.7
4 21	13 6.32	− 7 33.8	1.931	2.919	4.4	20.0
5 1	12 59.20	− 6 38.4	1.974	2.920	8.3	20.3
5 11	12 53.73	− 5 53.2	2.042	2.922	11.7	20.5

397889 2008 UW_{187} 4 10.0 248°86 2°6/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.32	− 5 5.6	1.626	2.436	16.5	21.8
3 12	13 38.80	− 4 19.4	1.529	2.422	13.0	21.5
3 22	13 32.52	− 3 19.6	1.453	2.407	8.9	21.2
4 1	13 24.01	− 2 11.2	1.402	2.391	4.5	20.9
4 11	13 14.22	− 1 1.7	1.377	2.375	3.1	20.8
4 21	13 4.37	+ 0 0.4	1.380	2.358	7.3	21.0
5 1	12 55.68	+ 0 47.8	1.408	2.341	12.0	21.2
5 11	12 49.15	+ 1 15.3	1.457	2.323	16.2	21.4

112904 2002 QS_{53} 4 10.0 67°14 3°0/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.06	− 3 57.3	1.558	2.378	16.6	20.1
3 12	13 36.79	− 3 7.0	1.486	2.385	13.0	19.9
3 22	13 30.92	− 2 5.3	1.436	2.391	8.7	19.7
4 1	13 23.09	− 0 58.6	1.410	2.398	4.5	19.4
4 11	13 14.34	+ 0 5.2	1.410	2.405	3.5	19.4
4 21	13 5.83	+ 0 58.3	1.436	2.413	7.3	19.6
5 1	12 58.64	+ 1 34.7	1.487	2.420	11.6	19.9
5 11	12 53.57	+ 1 51.2	1.560	2.427	15.3	20.1

173970 2001 XL_{83} 4 10.0 128°55 7°1/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.37	+15 55.1	2.631	3.432	11.2	20.4
3 12	13 35.84	+16 59.2	2.573	3.442	9.3	20.3
3 22	13 29.65	+17 57.5	2.539	3.452	7.7	20.2
4 1	13 22.29	+18 44.1	2.531	3.461	7.1	20.1
4 11	13 14.44	+19 14.1	2.551	3.470	7.7	20.2
4 21	13 6.80	+19 24.7	2.597	3.479	9.2	20.3
5 1	13 0.03	+19 15.0	2.667	3.488	11.0	20.4
5 11	12 54.64	+18 46.0	2.759	3.496	12.8	20.6

262846 2007 BX_{16} 4 10.0 91°56 1°7/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.68	−13 58.4	1.804	2.581	16.4	21.2
3 12	13 38.56	−13 59.7	1.727	2.594	13.2	21.0
3 22	13 31.98	−13 45.7	1.670	2.607	9.3	20.8
4 1	13 23.57	−13 17.4	1.638	2.620	5.1	20.6
4 11	13 14.30	−12 38.7	1.632	2.633	1.7	20.4
4 21	13 5.24	−11 54.8	1.655	2.645	4.7	20.6
5 1	12 57.41	−11 12.0	1.704	2.658	8.8	20.9
5 11	12 51.58	−10 36.1	1.777	2.670	12.5	21.1

93536 2000 UM_{14} 4 10.0 62°02 4°1/13.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.88	−20 51.9	1.727	2.480	17.9	19.5
3 12	13 38.02	−21 2.5	1.660	2.505	14.7	19.3
3 22	13 31.62	−20 52.0	1.613	2.530	11.1	19.1
4 1	13 23.37	−20 20.3	1.588	2.555	7.2	19.0
4 11	13 14.33	−19 30.6	1.590	2.580	4.3	18.8
4 21	13 5.62	−18 28.7	1.618	2.605	5.3	19.0
5 1	12 58.29	−17 22.4	1.673	2.630	8.6	19.2
5 11	12 53.06	−16 19.8	1.752	2.655	12.0	19.5

184395 2005 MV_5 4 10.0 259°37 2°8/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.46	− 3 42.7	1.936	2.742	14.4	20.5
3 12	13 36.88	− 2 53.8	1.833	2.723	11.3	20.3
3 22	13 30.96	− 1 54.1	1.751	2.704	7.7	20.0
4 1	13 23.18	− 0 48.2	1.696	2.684	4.0	19.8
4 11	13 14.34	+ 0 17.2	1.669	2.664	3.2	19.7
4 21	13 5.42	+ 1 15.1	1.670	2.643	6.8	19.8
5 1	12 57.44	+ 1 59.3	1.697	2.622	10.8	20.0
5 11	12 51.23	+ 2 25.7	1.746	2.601	14.5	20.2

72076 2000 YO_{37} 4 10.1 96°87 0°5/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.84	− 9 49.9	1.635	2.432	17.0	20.0
3 12	13 38.80	− 9 19.1	1.566	2.449	13.4	19.8
3 22	13 32.17	− 8 33.3	1.517	2.465	9.1	19.6
4 1	13 23.66	− 7 36.4	1.493	2.481	4.3	19.3
4 11	13 14.31	− 6 34.8	1.496	2.497	0.8	19.1
4 21	13 5.27	− 5 35.8	1.526	2.513	5.5	19.5
5 1	12 57.60	− 4 46.2	1.583	2.528	10.0	19.8
5 11	12 52.07	− 4 10.9	1.662	2.543	13.8	20.0

178833 2001 HN_{12} 4 10.1 281°.45 2°.7/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 44.18	− 3 5.0	1.864	2.666	15.0	20.0
3 12	13 40.15	− 2 38.0	1.745	2.633	12.0	19.7
3 22	13 33.47	− 2 1.6	1.647	2.598	8.3	19.4
4 1	13 24.54	− 1 19.7	1.575	2.563	4.3	19.1
4 11	13 14.18	− 0 38.1	1.531	2.528	3.1	18.9
4 21	13 3.48	− 0 3.0	1.514	2.491	7.0	19.1
5 1	12 53.65	+ 0 19.7	1.524	2.454	11.5	19.3
5 11	12 45.71	+ 0 25.8	1.557	2.416	15.7	19.4

436737 2011 UN_{355} 4 10.1 217°.76 1°.2/ 8.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 36.43	− 6 55.4	2.747	3.534	11.1	21.8
3 12	13 32.86	− 6 13.3	2.648	3.528	8.7	21.6
3 22	13 27.73	− 5 22.3	2.573	3.521	5.8	21.4
4 1	13 21.43	− 4 25.6	2.526	3.515	2.8	21.2
4 11	13 14.55	− 3 27.3	2.508	3.508	1.4	21.1
4 21	13 7.70	− 2 32.0	2.520	3.500	4.3	21.3
5 1	13 1.52	− 1 44.0	2.561	3.492	7.4	21.5
5 11	12 56.54	− 1 6.5	2.627	3.485	10.1	21.7

331928 2004 SH_{17} 4 10.1 239°.61 5°.1/ 3.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.95	+ 3 55.8	2.317	3.128	12.2	22.1
3 12	13 35.21	+ 5 20.5	2.221	3.112	9.6	21.9
3 22	13 29.55	+ 6 50.7	2.150	3.096	7.0	21.7
4 1	13 22.39	+ 8 19.8	2.107	3.079	5.2	21.6
4 11	13 14.44	+ 9 40.4	2.092	3.061	5.8	21.6
4 21	13 6.48	+10 46.2	2.106	3.043	8.2	21.7
5 1	12 59.31	+11 32.4	2.146	3.024	11.1	21.9
5 11	12 53.60	+11 57.1	2.208	3.004	13.8	22.0

54365 2000 KO_{42} 4 10.1 22°.15 8°.2/ 1.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 37.26	+ 8 5.2	1.633	2.468	15.2	18.5
3 12	13 34.52	+ 9 59.5	1.569	2.470	12.2	18.3
3 22	13 29.34	+11 55.8	1.528	2.471	9.5	18.1
4 1	13 22.33	+13 43.1	1.513	2.473	8.3	18.0
4 11	13 14.46	+15 10.6	1.523	2.474	9.3	18.1
4 21	13 6.79	+16 10.6	1.557	2.476	11.9	18.3
5 1	13 0.34	+16 39.4	1.614	2.478	14.9	18.4
5 11	12 55.86	+16 37.5	1.689	2.480	17.7	18.6

219589 2001 TA_{18} 4 10.1 213°.21 1°.8/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.13	− 4 7.2	2.311	3.100	12.9	21.2
3 12	13 38.45	− 3 41.9	2.212	3.092	10.1	21.0
3 22	13 31.73	− 3 9.1	2.136	3.084	6.8	20.8
4 1	13 23.45	− 2 32.2	2.087	3.075	3.4	20.6
4 11	13 14.35	− 1 55.6	2.068	3.065	2.1	20.5
4 21	13 5.26	− 1 23.8	2.077	3.055	5.3	20.6
5 1	12 57.04	− 1 0.9	2.116	3.044	8.8	20.8
5 11	12 50.37	− 0 49.9	2.178	3.032	12.0	21.0

266369 2007 EY_{77} 4 10.1 83°.88 0°.1/10.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.34	− 9 38.4	1.839	2.626	15.8	20.9
3 12	13 39.64	− 9 32.8	1.771	2.647	12.4	20.7
3 22	13 32.58	− 9 15.3	1.724	2.668	8.5	20.5
4 1	13 23.82	− 8 48.4	1.702	2.689	4.1	20.3
4 11	13 14.33	− 8 16.5	1.708	2.710	0.4	20.0
4 21	13 5.14	− 7 44.5	1.742	2.731	4.8	20.4
5 1	12 57.22	− 7 17.6	1.804	2.751	8.9	20.7
5 11	12 51.27	− 6 59.7	1.889	2.771	12.4	20.9

57264 2001 QP_{113} 4 10.1 125°.73 1°.3/11.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.19	−13 5.4	2.499	3.260	12.8	18.8
3 12	13 36.72	−13 10.4	2.410	3.269	10.2	18.6
3 22	13 30.41	−13 4.7	2.344	3.277	7.2	18.5
4 1	13 22.75	−12 49.3	2.304	3.286	3.9	18.3
4 11	13 14.43	−12 26.6	2.294	3.294	1.3	18.1
4 21	13 6.22	−12 0.0	2.312	3.302	3.7	18.3
5 1	12 58.85	−11 33.4	2.360	3.309	6.9	18.5
5 11	12 52.92	−11 10.7	2.433	3.317	9.9	18.7

402865 2007 RN_{145} 4 10.1 129°.29 0°.1/10.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.27	−12 3.2	1.846	2.629	15.9	21.3
3 12	13 38.12	−11 24.1	1.769	2.643	12.5	21.1
3 22	13 31.62	−10 28.9	1.712	2.656	8.6	20.9
4 1	13 23.39	− 9 21.0	1.681	2.668	4.2	20.6
4 11	13 14.37	− 8 6.3	1.678	2.680	0.4	20.4
4 21	13 5.58	− 6 52.0	1.703	2.691	4.9	20.7
5 1	12 58.00	− 5 45.3	1.756	2.702	9.2	21.0
5 11	12 52.34	− 4 51.9	1.833	2.712	12.8	21.2

333648 2008 RJ_{107} 4 10.1 257°.39 4°.0/13.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.84	−20 22.9	2.096	2.839	15.5	20.8
3 12	13 37.18	−20 39.6	1.988	2.826	12.9	20.6
3 22	13 31.19	−20 39.3	1.899	2.813	9.9	20.4
4 1	13 23.31	−20 20.9	1.835	2.800	6.6	20.2
4 11	13 14.37	−19 45.5	1.797	2.786	4.1	20.0
4 21	13 5.33	−18 56.8	1.787	2.773	5.1	20.0
5 1	12 57.21	−18 0.5	1.804	2.759	8.3	20.2
5 11	12 50.86	−17 3.9	1.846	2.745	11.8	20.3

190397 1999 TZ_{138} 4 10.1 118°.80 0°.5/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 39.05	−13 48.8	2.350	3.116	13.3	21.2
3 12	13 35.07	−13 4.5	2.269	3.133	10.6	21.0
3 22	13 29.27	−12 5.8	2.211	3.149	7.3	20.8
4 1	13 22.18	−10 55.8	2.180	3.165	3.7	20.6
4 11	13 14.51	− 9 39.1	2.178	3.180	0.5	20.4
4 21	13 7.04	− 8 21.7	2.206	3.195	3.9	20.7
5 1	13 0.49	− 7 9.4	2.263	3.209	7.4	20.9
5 11	12 55.43	− 6 7.4	2.346	3.223	10.5	21.2

374305 2005 SE_{154} 4 10.1 269°.64 0°.3/10.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.82	−12 16.8	1.864	2.652	15.5	22.1
3 12	13 35.77	−11 45.6	1.758	2.635	12.5	21.9
3 22	13 30.31	−10 57.2	1.672	2.617	8.7	21.6
4 1	13 22.91	− 9 53.7	1.611	2.598	4.4	21.3
4 11	13 14.42	− 8 40.3	1.578	2.580	0.4	20.9
4 21	13 5.83	− 7 23.9	1.572	2.561	5.1	21.2
5 1	12 58.22	− 6 12.4	1.593	2.542	9.6	21.5
5 11	12 52.44	− 5 12.9	1.638	2.523	13.7	21.7

214855 2006 WF_{203} 4 10.1 253°.85 0°.8/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 37.52	−12 26.4	2.479	3.250	12.6	21.0
3 12	13 33.98	−12 12.7	2.377	3.244	10.0	20.8
3 22	13 28.64	−11 47.4	2.298	3.237	7.0	20.6
4 1	13 21.94	−11 12.0	2.246	3.230	3.7	20.3
4 11	13 14.53	−10 29.9	2.222	3.223	0.8	20.1
4 21	13 7.14	− 9 45.0	2.227	3.216	3.8	20.3
5 1	13 0.50	− 9 2.0	2.260	3.209	7.2	20.5
5 11	12 55.23	− 8 25.4	2.319	3.202	10.3	20.7

2428 Kamenyar 4 10.1 204°.65 0°.9/11.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.68	−11 59.5	2.690	3.454	11.9	17.1
3 12	13 35.49	−11 59.5	2.589	3.451	9.5	16.9
3 22	13 29.57	−11 49.7	2.512	3.448	6.7	16.7
4 1	13 22.37	−11 31.5	2.462	3.445	3.5	16.5
4 11	13 14.50	−11 7.3	2.441	3.442	0.9	16.3
4 21	13 6.66	−10 40.1	2.449	3.438	3.5	16.5
5 1	12 59.53	−10 13.7	2.486	3.434	6.7	16.7
5 11	12 53.71	− 9 51.8	2.550	3.430	9.6	16.8

229966 1999 TH_{203} 4 10.1 220°.31 1°.2/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.03	−12 24.0	1.558	2.346	18.1	21.1
3 12	13 41.12	−12 23.7	1.465	2.341	14.6	20.8
3 22	13 34.22	−12 6.9	1.392	2.334	10.3	20.5
4 1	13 24.90	−11 34.6	1.342	2.327	5.4	20.2
4 11	13 14.23	−10 50.8	1.319	2.320	1.2	19.9
4 21	13 3.53	−10 1.8	1.322	2.312	5.6	20.2
5 1	12 54.15	− 9 15.2	1.351	2.304	10.6	20.4
5 11	12 47.15	− 8 38.3	1.403	2.295	15.1	20.7

40333 1999 NO_{1} 4 10.1 329°.25 15°.2/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.46	−49 38.5	1.894	2.449	22.0	17.7
3 12	13 38.50	−51 1.2	1.799	2.441	20.8	17.5
3 22	13 33.01	−51 53.4	1.716	2.434	19.5	17.4
4 1	13 24.51	−52 6.8	1.646	2.427	17.9	17.2
4 11	13 14.25	−51 35.3	1.592	2.421	16.5	17.1
4 21	13 3.94	−50 17.2	1.556	2.415	15.5	17.0
5 1	12 55.31	−48 16.9	1.540	2.409	15.2	17.0
5 11	12 49.67	−45 45.2	1.545	2.404	15.9	17.0

489547 2007 RD_{264} 4 10.1 164°.09 3°.4/13.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.34	−19 56.3	2.544	3.271	13.4	22.2
3 12	13 37.75	−20 17.1	2.446	3.275	11.1	22.0
3 22	13 31.22	−20 24.2	2.370	3.279	8.4	21.8
4 1	13 23.21	−20 16.9	2.319	3.282	5.6	21.7
4 11	13 14.44	−19 56.5	2.297	3.285	3.5	21.5
4 21	13 5.70	−19 25.8	2.304	3.287	4.3	21.6
5 1	12 57.80	−18 48.9	2.339	3.289	6.9	21.7
5 11	12 51.40	−18 11.0	2.400	3.291	9.7	21.9

275844 2001 SN_{33} 4 10.1 173°.07 0°.5/ 9.4 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.00	− 9 18.8	2.598	3.371	12.0	23.0
3 12	13 36.48	− 8 39.8	2.505	3.375	9.5	22.9
3 22	13 30.21	− 7 50.3	2.435	3.379	6.4	22.7
4 1	13 22.66	− 6 53.2	2.394	3.382	3.0	22.4
4 11	13 14.50	− 5 52.7	2.382	3.383	0.8	22.3
4 21	13 6.43	− 4 53.7	2.401	3.385	4.1	22.5
5 1	12 59.16	− 4 0.8	2.449	3.385	7.4	22.7
5 11	12 53.26	− 3 18.0	2.523	3.384	10.3	22.9

300129 2006 VZ_{37} 4 10.1 167°.65 0°.8/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 37.59	−13 29.5	2.939	3.697	11.1	22.9
3 12	13 33.66	−13 8.3	2.843	3.701	8.9	22.7
3 22	13 28.22	−12 36.3	2.770	3.705	6.2	22.5
4 1	13 21.68	−11 55.3	2.725	3.708	3.3	22.3
4 11	13 14.60	−11 8.1	2.709	3.710	0.8	22.1
4 21	13 7.60	−10 18.4	2.723	3.712	3.2	22.3
5 1	13 1.27	− 9 30.4	2.767	3.714	6.1	22.5
5 11	12 56.11	− 8 47.8	2.837	3.716	8.8	22.7

36624 2000 QA_{157} 4 10.1 274°.47 5°.9/22.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 36.41	−40 44.6	4.608	5.162	9.7	19.0
3 12	13 32.56	−41 23.1	4.498	5.160	8.8	18.9
3 22	13 27.42	−41 48.5	4.407	5.158	7.9	18.8
4 1	13 21.29	−41 59.3	4.337	5.157	6.9	18.8
4 11	13 14.64	−41 55.0	4.291	5.155	6.2	18.7
4 21	13 7.96	−41 36.3	4.270	5.153	5.9	18.7
5 1	13 1.75	−41 4.8	4.275	5.152	6.1	18.7
5 11	12 56.48	−40 23.5	4.306	5.150	6.8	18.7

44854 1999 UY_{5} 4 10.1 325°.50 4°.3/13.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.91	−19 39.9	1.503	2.279	19.2	18.6
3 12	13 36.48	−19 55.5	1.413	2.273	16.0	18.4
3 22	13 31.14	−19 48.5	1.341	2.267	12.1	18.1
4 1	13 23.44	−19 17.7	1.290	2.262	7.8	17.9
4 11	13 14.42	−18 25.2	1.264	2.257	4.5	17.7
4 21	13 5.39	−17 17.1	1.262	2.252	5.9	17.7
5 1	12 57.69	−16 2.6	1.286	2.248	10.1	18.0
5 11	12 52.33	−14 51.8	1.332	2.244	14.4	18.2

425071 2009 RB_{46} 4 10.1 115°.58 1°.0/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.85	−12 7.6	2.014	2.789	15.0	21.7
3 12	13 38.45	−12 4.8	1.932	2.800	11.9	21.5
3 22	13 31.81	−11 49.2	1.872	2.811	8.3	21.3
4 1	13 23.52	−11 22.4	1.838	2.822	4.3	21.1
4 11	13 14.43	−10 48.0	1.831	2.833	1.0	20.8
4 21	13 5.51	−10 10.6	1.853	2.843	4.4	21.1
5 1	12 57.69	− 9 35.4	1.903	2.853	8.3	21.3
5 11	12 51.66	− 9 7.3	1.977	2.862	11.7	21.6

226879 2004 TG_{97} 4 10.1 303°.94 0°.7/ 9.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.11	− 8 9.1	1.689	2.496	16.1	20.6
3 12	13 36.29	− 7 55.4	1.585	2.474	12.9	20.3
3 22	13 30.86	− 7 28.6	1.501	2.453	8.9	20.0
4 1	13 23.29	− 6 51.3	1.442	2.431	4.3	19.7
4 11	13 14.45	− 6 8.6	1.409	2.410	1.0	19.4
4 21	13 5.45	− 5 26.5	1.402	2.389	5.8	19.7
5 1	12 57.47	− 4 51.7	1.420	2.369	10.6	19.9
5 11	12 51.50	− 4 29.9	1.461	2.348	15.0	20.1

128135 2003 QL_{48} 4 10.1 271°.75 3°.8/13.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.69	−18 52.8	1.627	2.397	18.2	20.4
3 12	13 37.77	−19 2.8	1.526	2.383	15.1	20.1
3 22	13 32.00	−18 51.8	1.443	2.370	11.4	19.9
4 1	13 23.88	−18 18.7	1.383	2.356	7.2	19.6
4 11	13 14.39	−17 25.6	1.348	2.342	3.9	19.4
4 21	13 4.78	−16 17.9	1.339	2.329	5.6	19.4
5 1	12 56.34	−15 4.2	1.355	2.315	10.0	19.6
5 11	12 50.14	−13 54.2	1.395	2.301	14.3	19.8

143354 2003 AS_{87} 4 10.1 26°.03 5°.1/ 4.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 36.11	+ 3 22.1	2.034	2.857	13.2	19.3
3 12	13 33.12	+ 4 36.4	1.962	2.860	10.3	19.1
3 22	13 28.14	+ 5 54.9	1.913	2.863	7.4	18.9
4 1	13 21.73	+ 7 10.5	1.891	2.867	5.3	18.8
4 11	13 14.64	+ 8 16.0	1.896	2.871	5.7	18.8
4 21	13 7.71	+ 9 5.6	1.928	2.875	8.2	19.0
5 1	13 1.72	+ 9 35.4	1.985	2.879	11.2	19.2
5 11	12 57.31	+ 9 44.2	2.064	2.883	13.9	19.4

265875 2005 YQ_{258} 4 10.1 2°.74 1°.5/11.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.35	−13 12.5	1.649	2.441	17.1	20.5
3 12	13 36.36	−13 14.3	1.564	2.441	13.7	20.3
3 22	13 30.77	−13 0.1	1.498	2.441	9.7	20.1
4 1	13 23.16	−12 31.0	1.457	2.441	5.2	19.8
4 11	13 14.49	−11 50.9	1.441	2.442	1.5	19.5
4 21	13 5.91	−11 5.8	1.451	2.443	5.0	19.8
5 1	12 58.54	−10 22.3	1.487	2.444	9.5	20.0
5 11	12 53.24	− 9 46.9	1.547	2.446	13.6	20.3

453306 2008 UH_{284} 4 10.1 79°.38 2°.0/ 8.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.57	− 5 41.9	1.393	2.207	18.6	22.3
3 12	13 41.27	− 5 13.1	1.334	2.228	14.5	22.1
3 22	13 34.03	− 4 32.3	1.295	2.248	9.7	21.9
4 1	13 24.64	− 3 44.6	1.279	2.269	4.7	21.6
4 11	13 14.36	− 2 57.6	1.289	2.289	2.4	21.5
4 21	13 4.53	− 2 18.2	1.326	2.309	6.8	21.8
5 1	12 56.37	− 1 52.5	1.387	2.329	11.5	22.2
5 11	12 50.67	− 1 43.8	1.471	2.348	15.5	22.4

473973 2016 EE_{193} 4 10.1 59°.50 1°.0/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 36.85	−11 20.6	1.613	2.418	16.8	21.0
3 12	13 34.21	−10 9.5	1.541	2.430	13.2	20.7
3 22	13 29.13	− 8 38.9	1.491	2.442	8.9	20.5
4 1	13 22.27	− 6 54.7	1.465	2.454	4.2	20.3
4 11	13 14.60	− 5 5.9	1.466	2.467	1.4	20.1
4 21	13 7.19	− 3 22.3	1.494	2.479	5.9	20.4
5 1	13 1.03	− 1 53.2	1.549	2.492	10.3	20.7
5 11	12 56.84	− 0 44.5	1.626	2.505	14.2	21.0

184554 2005 QK_{49} 4 10.1 223°.16 4°.0/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 36.03	+ 2 21.9	2.566	3.376	11.1	21.3
3 12	13 32.67	+ 3 29.9	2.480	3.371	8.7	21.1
3 22	13 27.68	+ 4 42.2	2.418	3.367	6.1	20.9
4 1	13 21.48	+ 5 53.6	2.385	3.362	4.2	20.8
4 11	13 14.68	+ 6 58.3	2.380	3.357	4.5	20.8
4 21	13 7.96	+ 7 51.5	2.404	3.352	6.7	20.9
5 1	13 1.96	+ 8 29.3	2.454	3.347	9.4	21.1
5 11	12 57.22	+ 8 50.1	2.528	3.341	11.8	21.3

191154 2002 HA_{11} 4 10.1 97°.41 1°.9/ 8.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.04	− 2 43.0	1.947	2.743	14.7	19.7
3 12	13 40.98	− 2 43.8	1.867	2.751	11.5	19.5
3 22	13 33.56	− 2 39.2	1.809	2.758	7.8	19.2
4 1	13 24.40	− 2 32.3	1.777	2.765	3.9	19.0
4 11	13 14.39	− 2 27.0	1.773	2.772	2.1	18.9
4 21	13 4.56	− 2 27.0	1.798	2.779	5.6	19.1
5 1	12 55.89	− 2 35.1	1.850	2.785	9.5	19.4
5 11	12 49.13	− 2 53.5	1.927	2.792	12.9	19.6

72236 2001 AD_{19} 4 10.1 257°.62 3°.2/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.76	−18 20.1	2.262	3.006	14.4	20.0
3 12	13 37.76	−18 35.9	2.147	2.989	11.9	19.8
3 22	13 31.53	−18 37.2	2.053	2.971	9.0	19.5
4 1	13 23.52	−18 23.2	1.984	2.953	5.7	19.3
4 11	13 14.47	−17 55.3	1.942	2.935	3.3	19.1
4 21	13 5.27	−17 16.5	1.929	2.916	4.6	19.1
5 1	12 56.89	−16 31.9	1.944	2.897	7.9	19.3
5 11	12 50.13	−15 47.6	1.984	2.877	11.3	19.5

34892 Evapalisa 4 10.1 202°.67 2°.3/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.35	− 3 14.6	2.488	3.279	12.0	19.7
3 12	13 36.90	− 2 30.2	2.391	3.273	9.4	19.5
3 22	13 30.60	− 1 38.4	2.318	3.267	6.3	19.3
4 1	13 22.93	− 0 43.1	2.273	3.260	3.3	19.1
4 11	13 14.54	+ 0 10.7	2.258	3.252	2.6	19.0
4 21	13 6.20	+ 0 58.3	2.272	3.244	5.4	19.2
5 1	12 58.65	+ 1 35.3	2.315	3.235	8.6	19.4
5 11	12 52.50	+ 1 58.9	2.383	3.225	11.5	19.5

431284 2006 UQ_{202} 4 10.1 214°.85 3°.3/ 6.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.02	+ 2 34.4	2.802	3.600	10.6	21.8
3 12	13 35.62	+ 3 10.1	2.708	3.592	8.3	21.6
3 22	13 29.61	+ 3 48.3	2.639	3.585	5.8	21.4
4 1	13 22.41	+ 4 25.2	2.598	3.577	3.7	21.3
4 11	13 14.60	+ 4 56.5	2.586	3.569	3.7	21.3
4 21	13 6.85	+ 5 18.8	2.603	3.560	5.8	21.4
5 1	12 59.78	+ 5 29.4	2.649	3.550	8.4	21.5
5 11	12 53.94	+ 5 26.9	2.719	3.541	10.9	21.7

419589 2010 RS_{103} 4 10.1 240°.11 0°.8/10.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.94	−12 3.1	1.920	2.698	15.5	21.9
3 12	13 38.95	−11 52.4	1.814	2.685	12.5	21.7
3 22	13 32.49	−11 27.2	1.730	2.671	8.8	21.4
4 1	13 24.02	−10 48.9	1.671	2.656	4.5	21.1
4 11	13 14.43	−10 1.3	1.639	2.641	0.8	20.8
4 21	13 4.73	− 9 9.8	1.636	2.625	4.9	21.1
5 1	12 56.04	− 8 20.9	1.659	2.609	9.3	21.3
5 11	12 49.23	− 7 40.8	1.707	2.592	13.3	21.5

286291 2001 VP_{130} 4 10.1 3°.30 5°.3/ 4.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 34.87	+ 2 52.7	1.955	2.782	13.4	20.2
3 12	13 32.27	+ 4 15.9	1.881	2.782	10.5	20.0
3 22	13 27.65	+ 5 44.5	1.831	2.782	7.5	19.8
4 1	13 21.53	+ 7 10.9	1.806	2.783	5.4	19.6
4 11	13 14.69	+ 8 27.2	1.809	2.784	6.0	19.7
4 21	13 7.99	+ 9 26.6	1.838	2.785	8.6	19.8
5 1	13 2.25	+10 4.9	1.892	2.786	11.6	20.0
5 11	12 58.10	+10 20.4	1.968	2.788	14.4	20.2

519471 2012 BJ_{158} 4 10.1 315°.04 1°.5/11.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.06	−13 15.8	1.462	2.266	18.3	21.3
3 12	13 35.89	−13 15.7	1.366	2.250	14.9	21.1
3 22	13 30.83	−12 57.1	1.289	2.235	10.6	20.8
4 1	13 23.36	−12 20.9	1.235	2.220	5.7	20.4
4 11	13 14.49	−11 31.1	1.205	2.206	1.5	20.1
4 21	13 5.50	−10 34.5	1.200	2.192	5.6	20.4
5 1	12 57.75	− 9 39.6	1.219	2.179	10.8	20.6
5 11	12 52.31	− 8 54.8	1.261	2.166	15.6	20.8

63693 2001 QN_{161} 4 10.1 178°.39 2°.0/ 8.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.17	− 5 6.3	2.034	2.832	14.1	20.6
3 12	13 37.14	− 4 25.9	1.947	2.833	11.0	20.4
3 22	13 30.95	− 3 35.6	1.884	2.834	7.4	20.2
4 1	13 23.14	− 2 39.8	1.846	2.835	3.6	19.9
4 11	13 14.53	− 1 44.2	1.837	2.835	2.3	19.8
4 21	13 6.04	− 0 54.7	1.857	2.835	5.8	20.1
5 1	12 58.54	− 0 16.4	1.903	2.834	9.5	20.3
5 11	12 52.75	+ 0 7.2	1.973	2.833	12.9	20.5

436675 2011 SL_{113} 4 10.1 183°.70 1°.3/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 36.15	− 6 34.1	3.054	3.837	10.2	22.1
3 12	13 32.47	− 5 41.2	2.959	3.837	7.9	21.9
3 22	13 27.39	− 4 40.1	2.889	3.837	5.3	21.8
4 1	13 21.30	− 3 34.2	2.848	3.836	2.5	21.6
4 11	13 14.73	− 2 27.5	2.837	3.835	1.5	21.5
4 21	13 8.22	− 1 24.4	2.856	3.833	4.1	21.7
5 1	13 2.32	− 0 28.9	2.905	3.831	6.8	21.8
5 11	12 57.49	+ 0 15.9	2.980	3.829	9.3	22.0

5130 Ilioneus 4 10.1 218°.59 2°.3/14.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 31.06	−22 37.9	4.547	5.251	8.2	17.2
3 12	13 28.16	−22 28.0	4.440	5.250	6.8	17.0
3 22	13 24.30	−22 8.4	4.355	5.250	5.2	16.9
4 1	13 19.76	−21 39.6	4.296	5.249	3.6	16.8
4 11	13 14.88	−21 2.8	4.267	5.249	2.4	16.7
4 21	13 10.05	−20 20.1	4.267	5.248	2.6	16.7
5 1	13 5.61	−19 34.0	4.297	5.248	4.0	16.8
5 11	13 1.89	−18 47.2	4.355	5.247	5.7	16.9

402203 2004 VW_{20} 4 10.1 133°.70 1°.0/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.79	− 7 27.6	1.787	2.579	16.0	21.8
3 12	13 40.97	− 7 6.4	1.711	2.591	12.5	21.6
3 22	13 33.65	− 6 33.7	1.656	2.603	8.5	21.4
4 1	13 24.46	− 5 53.1	1.626	2.615	4.0	21.1
4 11	13 14.41	− 5 9.9	1.624	2.626	1.3	20.9
4 21	13 4.59	− 4 29.9	1.651	2.636	5.5	21.2
5 1	12 56.06	− 3 58.6	1.705	2.645	9.8	21.5
5 11	12 49.58	− 3 39.9	1.782	2.654	13.5	21.8

253538 2003 SX_{220} 4 10.1 169°.20 1°.5/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.78	− 5 43.9	2.182	2.967	13.7	21.2
3 12	13 39.78	− 5 16.5	2.094	2.972	10.7	21.0
3 22	13 32.65	− 4 40.2	2.030	2.977	7.2	20.8
4 1	13 23.94	− 3 58.4	1.992	2.981	3.5	20.6
4 11	13 14.46	− 3 15.9	1.984	2.984	1.7	20.5
4 21	13 5.11	− 2 37.6	2.005	2.986	5.2	20.7
5 1	12 56.76	− 2 7.9	2.055	2.987	8.9	20.9
5 11	12 50.10	− 1 50.1	2.129	2.987	12.1	21.1

352784 2008 UH_{112} 4 10.1 25°.62 0°.3/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.09	− 7 1.0	1.929	2.720	15.0	20.1
3 12	13 39.61	− 7 12.3	1.842	2.721	11.8	19.9
3 22	13 32.75	− 7 15.4	1.776	2.723	8.1	19.7
4 1	13 24.07	− 7 12.0	1.736	2.724	3.9	19.4
4 11	13 14.46	− 7 5.5	1.724	2.726	0.6	19.2
4 21	13 4.93	− 6 59.4	1.740	2.728	4.9	19.5
5 1	12 56.50	− 6 57.4	1.784	2.730	9.0	19.7
5 11	12 49.95	− 7 3.1	1.851	2.732	12.6	20.0

56008 1998 TL_{20} 4 10.1 95°.49 0°.7/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.61	− 7 28.4	1.444	2.249	18.5	20.0
3 12	13 42.23	− 7 24.1	1.374	2.261	14.6	19.8
3 22	13 34.82	− 7 7.4	1.323	2.273	9.9	19.5
4 1	13 25.13	− 6 41.4	1.295	2.284	4.8	19.3
4 11	13 14.36	− 6 11.6	1.294	2.296	1.0	19.0
4 21	13 3.88	− 5 44.1	1.320	2.307	6.1	19.4
5 1	12 54.99	− 5 24.9	1.370	2.318	11.0	19.7
5 11	12 48.59	− 5 18.2	1.443	2.329	15.2	20.0

1434 Margot 4 10.1 263°.14 3°.7/ 5.8 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 36.31	− 0 15.4	2.260	3.072	12.4	15.4
3 12	13 33.16	+ 0 50.7	2.172	3.066	9.6	15.2
3 22	13 28.16	+ 2 3.6	2.107	3.060	6.6	15.0
4 1	13 21.77	+ 3 18.1	2.070	3.053	4.1	14.8
4 11	13 14.70	+ 4 27.4	2.061	3.047	4.2	14.8
4 21	13 7.68	+ 5 25.9	2.081	3.040	6.8	14.9
5 1	13 1.48	+ 6 9.0	2.127	3.034	9.9	15.1
5 11	12 56.72	+ 6 34.0	2.195	3.027	12.7	15.3

416828 2005 JK_{60} 4 10.1 302°.23 5°.7/ 5.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.49	+ 2 28.8	1.503	2.334	16.6	20.9
3 12	13 37.58	+ 3 21.2	1.414	2.317	13.2	20.6
3 22	13 31.83	+ 4 20.2	1.347	2.301	9.4	20.4
4 1	13 23.80	+ 5 18.3	1.303	2.285	6.2	20.2
4 11	13 14.49	+ 6 6.2	1.285	2.269	6.3	20.1
4 21	13 5.14	+ 6 36.4	1.292	2.254	9.8	20.3
5 1	12 57.04	+ 6 43.4	1.321	2.239	13.9	20.5
5 11	12 51.18	+ 6 25.6	1.371	2.224	17.8	20.7

54480 2000 OB_{24} 4 10.1 283°.76 5°.5/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.64	+ 3 24.6	1.786	2.607	14.8	18.8
3 12	13 37.26	+ 4 22.0	1.690	2.587	11.7	18.5
3 22	13 31.38	+ 5 24.9	1.616	2.567	8.4	18.3
4 1	13 23.51	+ 6 26.4	1.568	2.546	5.9	18.1
4 11	13 14.52	+ 7 18.4	1.546	2.526	6.1	18.0
4 21	13 5.47	+ 7 54.0	1.551	2.505	9.2	18.2
5 1	12 57.44	+ 8 8.2	1.580	2.484	12.8	18.3
5 11	12 51.32	+ 7 59.4	1.630	2.464	16.3	18.5

371033 2005 UM_{109} 4 10.1 280°.08 0°.8/ 9.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 42.32	− 7 1.6	1.805	2.604	15.6	20.8
3 12	13 38.50	− 6 55.9	1.711	2.596	12.3	20.6
3 22	13 32.17	− 6 39.9	1.639	2.588	8.4	20.3
4 1	13 23.87	− 6 16.4	1.591	2.580	4.1	20.0
4 11	13 14.49	− 5 49.6	1.571	2.572	1.0	19.8
4 21	13 5.12	− 5 24.6	1.578	2.565	5.5	20.1
5 1	12 56.84	− 5 6.4	1.612	2.557	9.9	20.3
5 11	12 50.51	− 4 59.1	1.669	2.549	13.8	20.5

93014 2000 RY_{90} 4 10.1 226°.45 1°.3/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.95	−15 53.7	2.285	3.046	13.8	20.5
3 12	13 35.35	−15 18.0	2.178	3.036	11.2	20.3
3 22	13 29.75	−14 25.3	2.092	3.025	8.0	20.1
4 1	13 22.60	−13 17.3	2.033	3.014	4.4	19.8
4 11	13 14.62	−11 58.2	2.002	3.003	1.3	19.6
4 21	13 6.65	−10 33.8	2.001	2.991	4.0	19.8
5 1	12 59.53	− 9 11.1	2.028	2.978	7.8	20.0
5 11	12 53.93	− 7 56.5	2.081	2.965	11.3	20.1

466077 2011 YA_{58} 4 10.1 99°.18 1°.8/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.41	− 6 25.1	1.624	2.431	16.6	22.2
3 12	13 38.55	− 5 47.7	1.552	2.443	13.0	22.0
3 22	13 32.11	− 4 58.1	1.502	2.454	8.8	21.7
4 1	13 23.75	− 4 0.9	1.476	2.466	4.2	21.5
4 11	13 14.52	− 3 3.2	1.478	2.477	2.2	21.4
4 21	13 5.55	− 2 12.0	1.506	2.488	6.3	21.7
5 1	12 57.91	− 1 33.5	1.560	2.499	10.6	21.9
5 11	12 52.39	− 1 11.5	1.637	2.510	14.4	22.2

98265 2000 SX_{187} 4 10.1 123°.12 4°.5/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.33	+ 0 13.6	1.710	2.525	15.6	19.9
3 12	13 39.07	+ 1 17.1	1.643	2.538	12.2	19.7
3 22	13 32.35	+ 2 27.5	1.598	2.550	8.4	19.5
4 1	13 23.83	+ 3 37.4	1.579	2.562	5.1	19.4
4 11	13 14.52	+ 4 39.0	1.587	2.573	5.0	19.4
4 21	13 5.48	+ 5 25.5	1.622	2.584	8.1	19.6
5 1	12 57.75	+ 5 52.3	1.682	2.594	11.8	19.8
5 11	12 52.04	+ 5 58.0	1.764	2.604	15.0	20.0

502097 2015 AT_{258} 4 10.1 56°.19 6°.7/15.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.57	−25 19.9	1.804	2.529	18.2	20.4
3 12	13 39.62	−26 13.5	1.727	2.544	15.5	20.3
3 22	13 32.97	−26 46.1	1.668	2.559	12.4	20.1
4 1	13 24.24	−26 54.9	1.632	2.574	9.3	19.9
4 11	13 14.46	−26 39.6	1.619	2.590	7.0	19.8
4 21	13 4.84	−26 3.6	1.633	2.605	7.1	19.9
5 1	12 56.53	−25 13.2	1.673	2.621	9.3	20.0
5 11	12 50.42	−24 17.1	1.736	2.637	12.2	20.2

264686 2001 YR_{136} 4 10.1 252°.18 8°.1/17.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.05	−30 51.7	2.022	2.708	17.6	20.3
3 12	13 38.56	−31 39.1	1.917	2.699	15.5	20.1
3 22	13 32.40	−32 4.6	1.830	2.690	13.0	19.9
4 1	13 24.07	−32 3.9	1.763	2.680	10.5	19.7
4 11	13 14.47	−31 35.4	1.721	2.670	8.5	19.6
4 21	13 4.74	−30 41.0	1.703	2.661	8.2	19.6
5 1	12 56.10	−29 26.4	1.711	2.651	9.8	19.6
5 11	12 49.51	−28 0.9	1.744	2.640	12.4	19.8

413293 2003 UR_{176} 4 10.1 209°.97 1°.2/ 9.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.10	− 7 25.0	2.019	2.808	14.5	22.1
3 12	13 38.80	− 6 53.5	1.922	2.802	11.4	21.9
3 22	13 32.21	− 6 10.3	1.848	2.795	7.8	21.6
4 1	13 23.83	− 5 18.8	1.799	2.788	3.7	21.4
4 11	13 14.51	− 4 24.3	1.779	2.779	1.5	21.2
4 21	13 5.21	− 3 32.6	1.787	2.770	5.4	21.4
5 1	12 56.90	− 2 49.5	1.823	2.760	9.5	21.6
5 11	12 50.37	− 2 19.4	1.884	2.750	13.1	21.8

208345 2001 QG_{328} 4 10.1 176°.18 2°.3/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 36.85	− 3 29.3	2.688	3.483	11.1	21.3
3 12	13 33.21	− 2 31.8	2.599	3.485	8.6	21.2
3 22	13 28.00	− 1 27.0	2.536	3.486	5.8	21.0
4 1	13 21.64	− 0 19.0	2.501	3.487	3.1	20.8
4 11	13 14.74	+ 0 47.1	2.495	3.488	2.6	20.8
4 21	13 7.92	+ 1 46.6	2.519	3.488	5.1	20.9
5 1	13 1.82	+ 2 35.2	2.571	3.488	8.0	21.1
5 11	12 56.93	+ 3 10.3	2.648	3.487	10.6	21.3

423214 2004 RJ_{140} 4 10.1 275°.78 6°.2/14.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.34	−23 21.4	1.934	2.661	17.1	20.8
3 12	13 40.37	−24 18.7	1.828	2.650	14.6	20.5
3 22	13 33.68	−24 59.3	1.742	2.639	11.7	20.3
4 1	13 24.73	−25 19.8	1.679	2.627	8.6	20.1
4 11	13 14.41	−25 18.9	1.641	2.615	6.4	20.0
4 21	13 3.89	−24 58.1	1.629	2.604	6.8	19.9
5 1	12 54.39	−24 22.2	1.644	2.592	9.5	20.1
5 11	12 46.95	−23 38.8	1.683	2.581	12.8	20.2

287835 2003 SP_{204} 4 10.1 183°.63 0°.5/10.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 41.99	−13 16.4	2.236	3.002	13.9	22.2
3 12	13 37.66	−12 37.9	2.140	3.003	11.1	22.0
3 22	13 31.26	−11 44.3	2.065	3.003	7.7	21.8
4 1	13 23.31	−10 37.9	2.018	3.003	3.9	21.6
4 11	13 14.58	− 9 23.4	1.999	3.001	0.5	21.3
4 21	13 5.93	− 8 7.0	2.010	2.999	4.3	21.6
5 1	12 58.21	− 6 55.0	2.050	2.995	8.1	21.8
5 11	12 52.11	− 5 53.2	2.116	2.991	11.5	22.0

489715 2007 VP_{239} 4 10.1 169°.93 0°.7/ 9.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.79	− 7 52.4	2.904	3.680	10.8	22.5
3 12	13 34.60	− 7 22.9	2.811	3.684	8.5	22.4
3 22	13 28.88	− 6 45.4	2.743	3.687	5.7	22.2
4 1	13 22.06	− 6 2.3	2.702	3.690	2.7	22.0
4 11	13 14.71	− 5 17.2	2.692	3.693	0.9	21.8
4 21	13 7.44	− 4 33.8	2.712	3.695	3.8	22.1
5 1	13 0.85	− 3 55.8	2.761	3.696	6.7	22.2
5 11	12 55.44	− 3 26.2	2.836	3.697	9.3	22.4

317163 2001 VG_{133} 4 10.1 110°.35 3°.1/ 6.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.11	+ 0 11.3	2.400	3.204	12.0	21.0
3 12	13 35.09	+ 0 53.0	2.325	3.214	9.3	20.8
3 22	13 29.32	+ 1 38.9	2.274	3.224	6.4	20.6
4 1	13 22.29	+ 2 24.7	2.250	3.233	3.7	20.5
4 11	13 14.70	+ 3 5.4	2.254	3.243	3.5	20.5
4 21	13 7.26	+ 3 36.8	2.288	3.252	6.0	20.6
5 1	13 0.69	+ 3 55.7	2.348	3.261	8.8	20.8
5 11	12 55.53	+ 4 0.6	2.433	3.270	11.5	21.0

497387 2005 VD_{8} 4 10.1 228°.90 0°.1/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.14	−10 15.7	1.906	2.696	15.2	22.3
3 12	13 36.62	− 9 52.5	1.813	2.692	12.0	22.1
3 22	13 30.78	− 9 15.6	1.742	2.688	8.3	21.8
4 1	13 23.16	− 8 27.6	1.696	2.684	4.0	21.6
4 11	13 14.61	− 7 33.4	1.678	2.680	0.5	21.3
4 21	13 6.10	− 6 39.0	1.687	2.675	5.0	21.6
5 1	12 58.63	− 5 50.6	1.724	2.671	9.2	21.8
5 11	12 52.97	− 5 13.6	1.784	2.666	13.0	22.0

117492 2005 CK_{18} 4 10.1 70°.31 1°.4/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.18	−13 40.3	1.473	2.267	18.7	20.3
3 12	13 38.74	−13 32.2	1.402	2.280	15.0	20.1
3 22	13 32.44	−13 5.2	1.351	2.294	10.5	19.8
4 1	13 23.99	−12 21.5	1.322	2.307	5.6	19.6
4 11	13 14.53	−11 26.4	1.319	2.321	1.4	19.3
4 21	13 5.36	−10 27.1	1.343	2.334	5.3	19.6
5 1	12 57.66	− 9 32.0	1.391	2.348	10.1	19.9
5 11	12 52.32	− 8 48.0	1.463	2.361	14.3	20.2

64229 2001 TO_{116} 4 10.1 180°.80 3°.1/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.92	+ 0 0.5	2.102	2.900	13.7	19.0
3 12	13 39.99	+ 0 23.2	2.016	2.901	10.7	18.8
3 22	13 32.87	+ 0 50.3	1.953	2.902	7.3	18.6
4 1	13 24.10	+ 1 17.5	1.917	2.902	4.1	18.4
4 11	13 14.53	+ 1 40.0	1.909	2.901	3.4	18.4
4 21	13 5.07	+ 1 53.5	1.930	2.901	6.4	18.5
5 1	12 56.63	+ 1 54.8	1.979	2.899	9.8	18.7
5 11	12 49.94	+ 1 42.5	2.051	2.898	13.0	18.9

233504 2007 EA_{75} 4 10.1 102°.34 1°.2/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.10	−12 54.5	1.433	2.226	19.1	21.0
3 12	13 41.14	−12 49.2	1.361	2.239	15.3	20.8
3 22	13 34.15	−12 25.6	1.308	2.251	10.7	20.5
4 1	13 24.85	−11 45.7	1.278	2.263	5.6	20.3
4 11	13 14.45	−10 54.5	1.274	2.275	1.2	20.0
4 21	13 4.34	− 9 59.6	1.296	2.287	5.6	20.3
5 1	12 55.80	− 9 8.9	1.344	2.298	10.5	20.6
5 11	12 49.77	− 8 29.7	1.414	2.309	14.8	20.9

66790 1999 TZ_{232} 4 10.1 231°.41 4°.1/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.55	+ 2 20.2	2.467	3.272	11.7	20.9
3 12	13 35.57	+ 3 24.3	2.370	3.259	9.2	20.8
3 22	13 29.78	+ 4 33.3	2.298	3.245	6.5	20.6
4 1	13 22.59	+ 5 42.0	2.253	3.230	4.4	20.4
4 11	13 14.67	+ 6 44.4	2.237	3.215	4.7	20.4
4 21	13 6.76	+ 7 35.2	2.250	3.200	7.0	20.5
5 1	12 59.60	+ 8 10.3	2.290	3.183	9.9	20.7
5 11	12 53.81	+ 8 27.6	2.353	3.166	12.6	20.8

88695 2001 RO_{139} 4 10.1 93°.47 1°.6/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.30	− 5 16.9	2.378	3.171	12.4	20.2
3 12	13 35.22	− 4 41.2	2.306	3.189	9.6	20.1
3 22	13 29.38	− 3 57.8	2.258	3.207	6.4	19.9
4 1	13 22.32	− 3 10.5	2.237	3.226	3.1	19.7
4 11	13 14.72	− 2 23.8	2.245	3.243	1.8	19.6
4 21	13 7.33	− 1 42.2	2.282	3.261	4.8	19.9
5 1	13 0.83	− 1 9.7	2.347	3.278	8.0	20.1
5 11	12 55.76	− 0 49.0	2.437	3.296	10.8	20.3

503041 2015 FW_{150} 4 10.1 77°.41 1°.2/ 8.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 39.44	− 6 43.7	2.067	2.864	13.9	21.6
3 12	13 35.72	− 6 18.1	1.987	2.872	10.9	21.4
3 22	13 29.95	− 5 42.8	1.929	2.879	7.3	21.2
4 1	13 22.68	− 5 1.2	1.897	2.886	3.5	20.9
4 11	13 14.69	− 4 18.1	1.893	2.894	1.4	20.8
4 21	13 6.85	− 3 38.7	1.918	2.901	5.0	21.0
5 1	12 59.99	− 3 7.7	1.969	2.909	8.7	21.3
5 11	12 54.78	− 2 48.3	2.045	2.916	12.0	21.5

169167 2001 QO_{225} 4 10.1 198°.71 3°.7/14.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.85	−21 57.8	2.488	3.214	13.7	20.4
3 12	13 35.16	−22 2.4	2.386	3.212	11.4	20.2
3 22	13 29.56	−21 50.8	2.305	3.210	8.8	20.0
4 1	13 22.51	−21 22.5	2.249	3.208	6.0	19.9
4 11	13 14.70	−20 39.4	2.220	3.206	3.8	19.7
4 21	13 6.93	−19 44.9	2.220	3.204	4.4	19.7
5 1	12 59.96	−18 44.3	2.248	3.201	7.0	19.9
5 11	12 54.47	−17 43.5	2.302	3.198	9.8	20.1

83867 2001 UC_{77} 4 10.1 47°.32 0°.6/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 33.87	− 8 58.1	2.774	3.560	11.0	19.3
3 12	13 30.83	− 8 19.6	2.693	3.571	8.6	19.1
3 22	13 26.35	− 7 32.0	2.637	3.584	5.8	18.9
4 1	13 20.85	− 6 38.3	2.607	3.596	2.7	18.7
4 11	13 14.88	− 5 42.5	2.607	3.608	0.8	18.6
4 21	13 9.03	− 4 48.7	2.636	3.621	3.7	18.8
5 1	13 3.87	− 4 1.0	2.694	3.633	6.6	19.1
5 11	12 59.85	− 3 22.6	2.777	3.646	9.3	19.2

10478 Alsabti 4 10.1 119°.16 0°.4/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.00	− 7 39.3	2.348	3.129	12.9	17.5
3 12	13 37.47	− 7 35.4	2.263	3.137	10.2	17.3
3 22	13 31.03	− 7 23.3	2.200	3.145	6.9	17.1
4 1	13 23.18	− 7 5.1	2.165	3.153	3.3	16.9
4 11	13 14.65	− 6 44.2	2.158	3.160	0.6	16.7
4 21	13 6.25	− 6 24.1	2.181	3.167	4.2	17.0
5 1	12 58.74	− 6 8.4	2.232	3.174	7.7	17.2
5 11	12 52.75	− 6 0.1	2.308	3.181	10.8	17.4

412566 2014 NE_{59} 4 10.1 269°.88 3°.8/ 7.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.19	− 3 18.9	1.521	2.342	16.9	21.6
3 12	13 38.22	− 2 21.4	1.424	2.323	13.4	21.3
3 22	13 32.38	− 1 9.9	1.347	2.303	9.2	21.0
4 1	13 24.16	+ 0 9.5	1.295	2.283	5.0	20.7
4 11	13 14.55	+ 1 27.7	1.268	2.262	4.3	20.6
4 21	13 4.80	+ 2 35.2	1.268	2.241	8.5	20.8
5 1	12 56.23	+ 3 23.7	1.292	2.220	13.3	21.0
5 11	12 49.90	+ 3 48.2	1.336	2.199	17.6	21.2

171895 2001 RG_{85} 4 10.1 111°.42 2°.4/12.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.43	−16 35.7	2.412	3.161	13.5	20.4
3 12	13 37.08	−16 48.9	2.323	3.170	11.0	20.2
3 22	13 30.80	−16 49.3	2.257	3.180	8.0	20.0
4 1	13 23.09	−16 37.0	2.216	3.189	4.9	19.9
4 11	13 14.67	−16 14.2	2.203	3.198	2.5	19.7
4 21	13 6.35	−15 44.1	2.219	3.207	3.9	19.8
5 1	12 58.91	−15 11.1	2.263	3.216	7.0	20.0
5 11	12 52.99	−14 39.8	2.334	3.224	10.0	20.2

55560 2001 YB_{136} 4 10.1 60°.18 3°.1/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.63	−16 43.0	2.277	3.025	14.2	19.5
3 12	13 39.03	−17 19.4	2.183	3.028	11.7	19.3
3 22	13 32.28	−17 43.7	2.111	3.031	8.7	19.1
4 1	13 23.88	−17 55.1	2.064	3.034	5.5	18.9
4 11	13 14.59	−17 54.6	2.045	3.037	3.2	18.8
4 21	13 5.33	−17 44.6	2.054	3.041	4.4	18.9
5 1	12 56.98	−17 28.8	2.092	3.044	7.5	19.1
5 11	12 50.29	−17 12.0	2.156	3.047	10.6	19.3

285816 2001 BV_{9} 4 10.1 161°.04 3°.6/ 6.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.04	− 2 5.1	1.844	2.653	14.9	21.9
3 12	13 38.01	− 1 3.9	1.766	2.658	11.6	21.7
3 22	13 31.66	+ 0 6.5	1.710	2.662	7.9	21.4
4 1	13 23.56	+ 1 19.7	1.681	2.666	4.4	21.2
4 11	13 14.63	+ 2 28.3	1.679	2.670	4.0	21.2
4 21	13 5.87	+ 3 25.2	1.705	2.673	7.3	21.4
5 1	12 58.25	+ 4 5.2	1.757	2.675	11.0	21.6
5 11	12 52.51	+ 4 25.5	1.832	2.677	14.3	21.9

458906 2011 UW_{234} 4 10.1 6°.13 10°.1/21.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 26.77	−37 40.6	1.127	1.858	26.8	20.2
3 12	13 28.11	−37 29.4	1.050	1.857	23.9	20.0
3 22	13 25.99	−36 26.0	0.984	1.859	20.3	19.7
4 1	13 21.11	−34 23.1	0.933	1.861	16.1	19.5
4 11	13 14.86	−31 21.6	0.902	1.866	12.1	19.3
4 21	13 8.89	−27 33.5	0.894	1.872	10.2	19.2
5 1	13 4.72	−23 21.7	0.909	1.880	11.8	19.3
5 11	13 3.35	−19 14.2	0.948	1.889	15.8	19.5

258494 2002 AW_{57} 4 10.1 37°.20 8°.5/19.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 40.86	−33 32.3	2.208	2.869	16.9	19.8
3 12	13 37.31	−34 31.9	2.121	2.878	15.0	19.7
3 22	13 31.35	−35 10.0	2.051	2.887	12.8	19.5
4 1	13 23.49	−35 23.0	2.002	2.896	10.6	19.4
4 11	13 14.64	−35 9.4	1.977	2.906	9.0	19.3
4 21	13 5.82	−34 31.1	1.976	2.916	8.5	19.3
5 1	12 58.08	−33 33.1	2.001	2.926	9.4	19.4
5 11	12 52.26	−32 23.3	2.049	2.937	11.3	19.5

519455 2011 YS_{80} 4 10.1 327°.54 9°.0/ 1.3 17

3 2	13 36.19	+ 8 30.3	1.498	2.341	16.0	20.3
3 12	13 34.08	+10 22.9	1.428	2.332	13.0	20.1
3 22	13 29.34	+12 18.4	1.379	2.323	10.2	19.9
4 1	13 22.56	+14 5.2	1.355	2.315	9.0	19.8
4 11	13 14.73	+15 31.2	1.355	2.307	10.1	19.8
4 21	13 7.02	+16 27.7	1.378	2.300	12.9	20.0
5 1	13 0.56	+16 50.3	1.423	2.293	16.2	20.1
5 11	12 56.20	+16 39.5	1.485	2.287	19.2	20.3

21528 Chrisfaust 4 10.1 263°.42 2°.9/12.4 18

3 2	13 41.50	−16 46.3	1.688	2.462	17.5	18.4
3 12	13 38.19	−16 56.1	1.594	2.456	14.3	18.2
3 22	13 32.17	−16 47.6	1.520	2.451	10.5	17.9
4 1	13 23.98	−16 20.5	1.468	2.445	6.3	17.7
4 11	13 14.59	−15 37.5	1.442	2.440	3.0	17.4
4 21	13 5.18	−14 43.9	1.443	2.434	5.2	17.6
5 1	12 56.96	−13 47.2	1.470	2.428	9.5	17.8
5 11	12 50.88	−12 55.3	1.520	2.422	13.6	18.0

401931 2002 CU_{156} 4 10.1 35°.49 5°.4/13.6 17

3 2	13 42.78	−19 9.4	1.261	2.047	21.6	20.8
3 12	13 39.95	−19 58.3	1.191	2.057	18.0	20.6
3 22	13 33.73	−20 24.6	1.139	2.067	13.6	20.3
4 1	13 24.81	−20 25.9	1.107	2.077	9.0	20.1
4 11	13 14.51	−20 3.3	1.098	2.089	5.6	20.0
4 21	13 4.43	−19 22.1	1.113	2.101	6.9	20.1
5 1	12 56.08	−18 31.5	1.151	2.113	11.0	20.3
5 11	12 50.56	−17 41.8	1.211	2.126	15.3	20.6

404264 2013 EV_{50} 4 10.1 51°.43 3°.1/12.1 18

3 2	13 44.26	−15 4.9	1.356	2.148	20.1	21.5
3 12	13 40.84	−15 33.2	1.281	2.155	16.4	21.3
3 22	13 34.20	−15 42.8	1.224	2.162	11.9	21.0
4 1	13 25.00	−15 33.3	1.189	2.169	7.0	20.8
4 11	13 14.50	−15 7.3	1.178	2.177	3.2	20.6
4 21	13 4.17	−14 30.5	1.193	2.184	5.9	20.7
5 1	12 55.44	−13 50.8	1.232	2.192	10.7	21.0
5 11	12 49.36	−13 16.5	1.293	2.200	15.1	21.3

62318 2000 SZ_{121} 4 10.1 277°.20 2°.1/ 8.5 18

3 2	13 43.21	− 3 11.3	1.856	2.660	15.0	19.0
3 12	13 39.08	− 2 59.4	1.766	2.655	11.8	18.8
3 22	13 32.51	− 2 40.5	1.698	2.649	8.0	18.5
4 1	13 24.05	− 2 18.2	1.655	2.643	4.0	18.3
4 11	13 14.60	− 1 57.3	1.640	2.638	2.4	18.1
4 21	13 5.19	− 1 42.4	1.652	2.632	6.1	18.4
5 1	12 56.87	− 1 37.8	1.691	2.627	10.2	18.6
5 11	12 50.45	− 1 46.0	1.753	2.621	13.8	18.8

217932 2001 TP_{49} 4 10.1 159°.11 0°.5/ 9.6 16

3 2	13 41.14	− 9 35.8	2.509	3.282	12.4	22.1
3 12	13 36.67	− 8 57.2	2.420	3.291	9.7	21.9
3 22	13 30.42	− 8 7.8	2.356	3.299	6.6	21.8
4 1	13 22.88	− 7 10.5	2.318	3.306	3.2	21.5
4 11	13 14.72	− 6 9.7	2.311	3.312	0.7	21.3
4 21	13 6.69	− 5 10.4	2.333	3.318	4.2	21.6
5 1	12 59.50	− 4 17.4	2.385	3.323	7.5	21.8
5 11	12 53.73	− 3 34.7	2.462	3.327	10.5	22.0

300021 2006 UV_{86} 4 10.1 143°.07 0°.9/11.3 17

3 2	13 37.89	−13 47.3	2.877	3.634	11.3	22.1
3 12	13 33.95	−13 26.7	2.786	3.643	9.0	21.9
3 22	13 28.48	−12 55.1	2.719	3.652	6.4	21.8
4 1	13 21.91	−12 14.2	2.678	3.660	3.4	21.6
4 11	13 14.82	−11 27.0	2.667	3.668	0.9	21.4
4 21	13 7.83	−10 37.3	2.686	3.676	3.2	21.6
5 1	13 1.55	− 9 49.2	2.735	3.683	6.1	21.8
5 11	12 56.46	− 9 6.6	2.809	3.690	8.8	22.0

478332 2011 WD_{110} 4 10.1 240°.28 2°.2/12.9 16

3 2	13 36.69	−18 45.5	2.745	3.485	12.2	22.2
3 12	13 33.27	−18 29.5	2.634	3.475	10.0	22.1
3 22	13 28.19	−17 59.1	2.547	3.466	7.4	21.9
4 1	13 21.84	−17 14.9	2.485	3.456	4.6	21.7
4 11	13 14.83	−16 19.6	2.451	3.446	2.3	21.5
4 21	13 7.81	−15 16.8	2.447	3.436	3.5	21.6
5 1	13 1.48	−14 11.6	2.471	3.425	6.4	21.7
5 11	12 56.41	−13 9.3	2.523	3.415	9.3	21.9

469815 2005 SR_{140} 4 10.1 231°.47 1°.0/11.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 44.98	−10 46.6	2.766	3.522	11.8	21.9
3 12	13 39.68	−11 8.6	2.657	3.513	9.5	21.7
3 22	13 32.54	−11 23.2	2.571	3.504	6.7	21.5
4 1	13 23.97	−11 30.8	2.512	3.495	3.5	21.3
4 11	13 14.62	−11 33.1	2.484	3.485	1.0	21.0
4 21	13 5.21	−11 31.9	2.487	3.475	3.6	21.2
5 1	12 56.50	−11 30.1	2.520	3.465	6.8	21.4
5 11	12 49.13	−11 30.5	2.580	3.455	9.7	21.6

52202 3124 $T\text{-}_3$ 4 10.1 110°.92 0°.7/ 9.3 18

3 2	13 38.76	− 8 27.0	2.242	3.031	13.2	19.7
3 12	13 35.04	− 7 54.9	2.160	3.039	10.4	19.5
3 22	13 29.42	− 7 12.3	2.101	3.048	7.0	19.3
4 1	13 22.42	− 6 22.2	2.068	3.056	3.3	19.1
4 11	13 14.77	− 5 29.5	2.063	3.064	1.0	19.0
4 21	13 7.27	− 4 39.2	2.088	3.073	4.5	19.2
5 1	13 0.67	− 3 56.2	2.140	3.080	8.1	19.5
5 11	12 55.57	− 3 24.2	2.217	3.088	11.2	19.7

470223 2006 WV_{97} 4 10.1 129°.64 3°.1/ 6.8 17

3 2	13 39.34	+ 0 43.6	2.502	3.304	11.6	21.8
3 12	13 35.25	+ 1 16.7	2.421	3.308	9.0	21.6
3 22	13 29.45	+ 1 53.4	2.363	3.313	6.2	21.4
4 1	13 22.41	+ 2 29.6	2.334	3.317	3.7	21.3
4 11	13 14.78	+ 3 0.9	2.333	3.321	3.4	21.3
4 21	13 7.28	+ 3 23.6	2.360	3.325	5.8	21.4
5 1	13 0.58	+ 3 34.7	2.415	3.329	8.6	21.6
5 11	12 55.24	+ 3 32.8	2.495	3.332	11.2	21.8

204075 2003 WK 4 10.1 98°.44 1°.7/ 8.5 18

3 2	13 39.16	− 5 31.7	2.061	2.862	13.8	20.5
3 12	13 35.57	− 4 59.5	1.977	2.864	10.8	20.3
3 22	13 29.91	− 4 18.0	1.915	2.866	7.3	20.1
4 1	13 22.71	− 3 30.9	1.879	2.868	3.5	19.9
4 11	13 14.75	− 2 43.5	1.871	2.870	2.0	19.8
4 21	13 6.91	− 2 1.2	1.891	2.872	5.4	20.0
5 1	13 0.02	− 1 28.7	1.938	2.874	9.1	20.2
5 11	12 54.77	− 1 9.3	2.009	2.876	12.4	20.4

502542 2015 BH_{450} 4 10.1 77°.60 2°.3/ 8.1 17

3 2	13 40.35	− 3 48.3	1.922	2.729	14.5	21.6
3 12	13 36.62	− 3 16.2	1.843	2.734	11.3	21.4
3 22	13 30.67	− 2 35.8	1.786	2.739	7.6	21.2
4 1	13 23.09	− 1 51.4	1.755	2.744	3.8	21.0
4 11	13 14.72	− 1 8.7	1.752	2.749	2.6	20.9
4 21	13 6.51	− 0 33.0	1.776	2.754	6.0	21.1
5 1	12 59.36	− 0 9.1	1.827	2.759	9.8	21.3
5 11	12 53.98	+ 0 0.4	1.900	2.764	13.1	21.6

238768 2005 JD_{87} 4 10.1 211°.36 0°.9/ 9.2 18

3 2	13 38.35	− 7 52.1	2.226	3.018	13.2	20.9
3 12	13 34.82	− 7 20.3	2.134	3.016	10.4	20.7
3 22	13 29.36	− 6 37.8	2.066	3.014	7.0	20.5
4 1	13 22.44	− 5 48.0	2.023	3.012	3.3	20.3
4 11	13 14.79	− 4 55.4	2.009	3.010	1.2	20.1
4 21	13 7.21	− 4 5.3	2.024	3.008	4.7	20.3
5 1	13 0.49	− 3 22.7	2.066	3.006	8.4	20.5
5 11	12 55.28	− 2 51.6	2.133	3.003	11.6	20.7

199045 2005 WA_{158} 4 10.1 176°.51 3°.9/ 6.9 18

3 2	13 44.97	− 0 51.7	1.738	2.547	15.6	21.4
3 12	13 40.52	− 0 0.3	1.658	2.550	12.3	21.2
3 22	13 33.50	+ 0 59.2	1.600	2.551	8.4	20.9
4 1	13 24.52	+ 2 0.4	1.568	2.553	4.8	20.7
4 11	13 14.59	+ 2 55.9	1.563	2.553	4.4	20.7
4 21	13 4.81	+ 3 38.8	1.585	2.553	7.7	20.9
5 1	12 56.28	+ 4 4.2	1.633	2.552	11.7	21.1
5 11	12 49.81	+ 4 9.8	1.704	2.550	15.2	21.3

164360 2005 EL_2 4 10.1 166°.99 1°.9/11.9 17

3 2	13 40.25	−15 16.9	2.236	2.997	14.1	20.9
3 12	13 36.38	−15 16.5	2.142	2.999	11.4	20.7
3 22	13 30.46	−15 2.3	2.069	3.000	8.2	20.5
4 1	13 23.00	−14 35.1	2.022	3.001	4.7	20.3
4 11	13 14.74	−13 57.7	2.003	3.002	1.9	20.1
4 21	13 6.54	−13 14.4	2.013	3.003	4.0	20.3
5 1	12 59.24	−12 30.2	2.050	3.004	7.5	20.5
5 11	12 53.54	−11 50.4	2.113	3.004	10.8	20.7

31006 1995 XC 4 10.1 19°.92 4°.7/15.2 18

3 2	13 35.66	−24 14.0	2.010	2.746	16.2	17.3
3 12	13 33.13	−24 15.8	1.922	2.751	13.7	17.1
3 22	13 28.41	−23 56.2	1.853	2.756	10.6	16.9
4 1	13 22.03	−23 14.4	1.806	2.763	7.5	16.7
4 11	13 14.84	−22 13.0	1.786	2.769	5.0	16.6
4 21	13 7.76	−20 57.0	1.792	2.776	5.3	16.6
5 1	13 1.71	−19 33.7	1.825	2.784	7.9	16.8
5 11	12 57.39	−18 11.3	1.883	2.792	11.1	17.0

437436 2013 YL_5 4 10.1 21°.58 7°.5/ 3.5 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 36.52	+ 7 52.8	1.556	2.396	15.7	20.6
3 12	13 33.98	+ 9 8.6	1.504	2.408	12.5	20.4
3 22	13 29.00	+10 23.5	1.474	2.421	9.4	20.3
4 1	13 22.29	+11 28.2	1.468	2.435	7.6	20.2
4 11	13 14.84	+12 14.3	1.486	2.450	8.3	20.3
4 21	13 7.73	+12 36.4	1.529	2.466	10.7	20.5
5 1	13 1.90	+12 32.4	1.594	2.482	13.7	20.7
5 11	12 58.03	+12 3.5	1.678	2.500	16.5	20.9

509687 2008 QD_{44} 4 10.1 254°.51 5°.4/15.5 17

3 2	13 42.09	−25 55.0	2.394	3.094	14.8	21.9
3 12	13 38.11	−26 15.8	2.271	3.073	12.7	21.7
3 22	13 31.89	−26 18.6	2.167	3.051	10.3	21.5
4 1	13 23.84	−26 1.1	2.087	3.029	7.6	21.3
4 11	13 14.69	−25 23.3	2.033	3.006	5.6	21.1
4 21	13 5.35	−24 27.5	2.008	2.982	5.8	21.0
5 1	12 56.81	−23 18.9	2.010	2.958	8.0	21.1
5 11	12 49.88	−22 4.9	2.038	2.933	11.0	21.3

267392 2001 YX_{96} 4 10.1 122°.54 0°.5/10.6 17

3 2	13 41.44	−12 20.6	2.092	2.867	14.5	21.8
3 12	13 37.28	−11 54.6	2.012	2.880	11.5	21.6
3 22	13 31.03	−11 14.7	1.953	2.894	8.0	21.4
4 1	13 23.25	−10 23.5	1.921	2.906	4.0	21.2
4 11	13 14.76	− 9 25.6	1.917	2.919	0.5	20.9
4 21	13 6.47	− 8 26.6	1.942	2.931	4.3	21.3
5 1	12 59.21	− 7 32.3	1.995	2.942	8.1	21.5
5 11	12 53.65	− 6 47.6	2.072	2.953	11.5	21.7

45860 2000 UG_{27} 4 10.1 195°.41 3°.1/ 7.3 17

3 2	13 43.03	− 2 48.3	1.910	2.714	14.6	19.4
3 12	13 38.83	− 1 57.4	1.823	2.712	11.5	19.2
3 22	13 32.29	− 0 57.1	1.758	2.709	7.8	18.9
4 1	13 23.95	+ 0 7.2	1.719	2.706	4.2	18.7
4 11	13 14.70	+ 1 8.6	1.708	2.702	3.5	18.7
4 21	13 5.54	+ 2 0.7	1.726	2.697	6.8	18.9
5 1	12 57.45	+ 2 38.0	1.770	2.692	10.7	19.1
5 11	12 51.20	+ 2 57.3	1.837	2.686	14.1	19.3

247831 2003 SP_{232} 4 10.1 219°.72 1°.3/ 8.9 15

3 2	13 42.67	− 7 23.0	2.058	2.847	14.2	21.8
3 12	13 38.50	− 6 43.6	1.957	2.837	11.2	21.6
3 22	13 32.06	− 5 52.0	1.879	2.827	7.6	21.4
4 1	13 23.87	− 4 51.8	1.827	2.816	3.7	21.1
4 11	13 14.71	− 3 48.4	1.803	2.803	1.6	20.9
4 21	13 5.54	− 2 48.2	1.809	2.790	5.5	21.2
5 1	12 57.31	− 1 57.2	1.842	2.777	9.5	21.4
5 11	12 50.81	− 1 20.1	1.899	2.762	13.1	21.6

217613 2008 UU_{46} 4 10.1 250°.80 0°.2/10.3 17

3 2	13 40.61	− 9 59.4	2.088	2.873	14.2	20.9
3 12	13 36.82	− 9 50.9	1.992	2.868	11.3	20.7
3 22	13 30.88	− 9 31.0	1.919	2.862	7.8	20.5
4 1	13 23.27	− 9 1.7	1.870	2.857	3.9	20.2
4 11	13 14.77	− 8 26.8	1.850	2.852	0.3	19.9
4 21	13 6.30	− 7 50.7	1.858	2.846	4.5	20.2
5 1	12 58.76	− 7 18.6	1.893	2.841	8.5	20.4
5 11	12 52.88	− 6 54.9	1.953	2.835	12.0	20.6

387602 2002 AK_{195} 4 10.1 40°.21 6°.4/17.1 18

3 2	13 39.23	−28 41.7	2.305	2.998	15.5	20.4
3 12	13 35.78	−29 16.4	2.212	3.003	13.4	20.3
3 22	13 30.18	−29 31.6	2.139	3.008	11.0	20.1
4 1	13 22.92	−29 25.2	2.087	3.014	8.6	20.0
4 11	13 14.81	−28 57.3	2.061	3.019	6.7	19.9
4 21	13 6.74	−28 10.5	2.061	3.025	6.5	19.9
5 1	12 59.62	−27 10.2	2.088	3.032	8.1	20.0
5 11	12 54.19	−26 3.3	2.140	3.038	10.4	20.1

420781 2013 GU_{83} 4 10.1 321°.79 3°.7/ 7.6 17

3 2	13 37.73	− 2 54.4	1.240	2.081	18.8	20.5
3 12	13 36.10	− 2 20.4	1.152	2.062	14.9	20.2
3 22	13 31.28	− 1 33.5	1.083	2.043	10.3	19.9
4 1	13 23.78	− 0 39.9	1.035	2.025	5.5	19.6
4 11	13 14.71	+ 0 11.4	1.011	2.008	4.3	19.4
4 21	13 5.51	+ 0 51.2	1.010	1.991	8.9	19.6
5 1	12 57.68	+ 1 11.4	1.032	1.976	14.2	19.9
5 11	12 52.44	+ 1 7.9	1.072	1.961	19.0	20.1

388800 2008 BY_5 4 10.1 55°.26 4°.9/ 4.6 17

3 2	13 36.91	+ 4 8.0	2.222	3.039	12.4	21.0
3 12	13 33.60	+ 5 14.5	2.151	3.045	9.7	20.8
3 22	13 28.46	+ 6 23.8	2.103	3.051	7.0	20.7
4 1	13 21.99	+ 7 29.6	2.082	3.057	5.0	20.5
4 11	13 14.91	+ 8 25.8	2.089	3.063	5.4	20.6
4 21	13 7.99	+ 9 7.2	2.124	3.069	7.7	20.7
5 1	13 1.95	+ 9 30.7	2.183	3.075	10.4	20.9
5 11	12 57.37	+ 9 35.2	2.266	3.081	13.0	21.1

234798 2002 QO_{69} 4 10.1 175°.59 0°.4/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 39.84	− 8 50.4	2.260	3.044	13.3	20.9
3 12	13 35.97	− 8 30.0	2.169	3.045	10.4	20.7
3 22	13 30.14	− 7 59.1	2.100	3.046	7.1	20.5
4 1	13 22.85	− 7 20.5	2.059	3.047	3.4	20.2
4 11	13 14.83	− 6 38.1	2.045	3.047	0.6	20.0
4 21	13 6.89	− 5 56.6	2.061	3.047	4.4	20.3
5 1	12 59.82	− 5 20.7	2.104	3.047	8.0	20.5
5 11	12 54.27	− 4 54.3	2.172	3.047	11.3	20.7

226997 2004 XA_{77} 4 10.1 125°.17 2°.8/ 7.4 18

3 2	13 40.12	− 2 20.5	2.045	2.851	13.7	20.0
3 12	13 36.30	− 1 39.4	1.965	2.856	10.7	19.8
3 22	13 30.41	− 0 51.0	1.908	2.860	7.2	19.6
4 1	13 22.98	− 0 0.1	1.878	2.864	3.9	19.4
4 11	13 14.82	+ 0 47.6	1.875	2.869	3.2	19.4
4 21	13 6.80	+ 1 26.6	1.900	2.873	6.2	19.6
5 1	12 59.77	+ 1 52.8	1.952	2.876	9.7	19.8
5 11	12 54.40	+ 2 3.5	2.027	2.880	12.8	20.0

335609 2006 EA_{53} 4 10.1 295°.32 0°.6/10.7 17

3 2	13 40.24	−11 8.5	1.937	2.724	15.1	21.3
3 12	13 36.75	−11 4.2	1.842	2.718	12.1	21.1
3 22	13 30.95	−10 47.1	1.769	2.712	8.4	20.9
4 1	13 23.35	−10 18.9	1.720	2.707	4.3	20.6
4 11	13 14.79	− 9 43.3	1.699	2.701	0.6	20.3
4 21	13 6.24	− 9 5.1	1.705	2.695	4.6	20.6
5 1	12 58.69	− 8 30.0	1.739	2.690	8.8	20.8
5 11	12 52.93	− 8 2.9	1.796	2.685	12.5	21.1

249267 2008 SC_{128} 4 10.1 82°.08 1°.7/11.8 17

3 2	13 39.29	−15 2.0	2.010	2.782	15.1	21.0
3 12	13 35.88	−14 54.0	1.919	2.783	12.2	20.8
3 22	13 30.27	−14 30.3	1.850	2.784	8.7	20.6
4 1	13 22.98	−13 52.4	1.805	2.786	4.9	20.3
4 11	13 14.83	−13 3.6	1.787	2.787	1.7	20.1
4 21	13 6.76	−12 9.3	1.797	2.788	4.3	20.3
5 1	12 59.69	−11 15.5	1.834	2.789	8.2	20.5
5 11	12 54.34	−10 28.2	1.896	2.790	11.7	20.7

502215 2015 BW_{82} 4 10.1 356°.85 11°.3/21.0 17

3 2	13 38.29	−36 14.0	1.669	2.346	21.1	19.9
3 12	13 36.34	−37 22.6	1.580	2.343	19.0	19.7
3 22	13 31.31	−38 2.9	1.506	2.341	16.6	19.5
4 1	13 23.74	−38 8.6	1.450	2.340	14.2	19.4
4 11	13 14.74	−37 36.4	1.413	2.339	12.1	19.2
4 21	13 5.71	−36 27.9	1.399	2.339	11.3	19.2
5 1	12 58.08	−34 50.3	1.408	2.340	12.1	19.2
5 11	12 52.97	−32 55.7	1.439	2.341	14.2	19.3

300116 2006 UO_{345} 4 10.1 323°.06 2°.6/13.1 17

3 2	13 36.77	−18 47.4	2.363	3.113	13.7	20.8
3 12	13 33.61	−18 37.1	2.265	3.111	11.3	20.6
3 22	13 28.57	−18 10.8	2.188	3.110	8.3	20.4
4 1	13 22.11	−17 29.1	2.137	3.109	5.2	20.2
4 11	13 14.92	−16 34.9	2.112	3.107	2.7	20.1
4 21	13 7.78	−15 32.5	2.116	3.106	3.9	20.2
5 1	13 1.46	−14 27.8	2.149	3.105	7.1	20.3
5 11	12 56.60	−13 26.5	2.207	3.104	10.2	20.5

191772 2004 TE_{71} 4 10.1 179°.10 1°.5/11.5 17

3 2	13 42.06	−13 29.0	2.051	2.822	14.9	20.4
3 12	13 38.02	−13 33.0	1.958	2.822	12.0	20.2
3 22	13 31.72	−13 23.6	1.887	2.823	8.5	20.0
4 1	13 23.70	−13 2.0	1.841	2.823	4.7	19.8
4 11	13 14.77	−12 30.8	1.822	2.823	1.5	19.6
4 21	13 5.90	−11 54.6	1.832	2.823	4.3	19.8
5 1	12 58.02	−11 18.5	1.870	2.822	8.2	20.0
5 11	12 51.90	−10 47.7	1.932	2.822	11.7	20.2

15416 1998 DZ_2 4 10.1 192°.58 7°.6/ 2.4 18

3 2	13 43.72	+12 37.3	2.133	2.940	13.2	17.2
3 12	13 39.08	+13 47.7	2.060	2.939	10.8	17.0
3 22	13 32.28	+14 54.7	2.011	2.937	8.7	16.8
4 1	13 23.90	+15 50.9	1.988	2.935	7.6	16.8
4 11	13 14.77	+16 29.4	1.992	2.932	8.2	16.8
4 21	13 5.80	+16 45.8	2.022	2.929	10.2	16.9
5 1	12 57.87	+16 38.3	2.076	2.925	12.7	17.1
5 11	12 51.66	+16 8.0	2.152	2.920	15.0	17.2

234456 2001 SR_{180} 4 10.1 252°.50 4°.6/ 6.0 17

3 2	13 40.72	− 2 4.1	1.590	2.411	16.3	21.0
3 12	13 37.67	− 0 43.6	1.497	2.396	12.8	20.7
3 22	13 31.90	+ 0 50.9	1.426	2.381	8.9	20.5
4 1	13 23.94	+ 2 31.7	1.380	2.365	5.3	20.2
4 11	13 14.75	+ 4 8.6	1.360	2.349	5.3	20.2
4 21	13 5.51	+ 5 31.4	1.367	2.332	9.0	20.3
5 1	12 57.43	+ 6 31.9	1.399	2.315	13.4	20.5
5 11	12 51.47	+ 7 5.8	1.451	2.297	17.4	20.7

415900 2001 TM_{206} 4 10.1 158°.96 5°.9/ 3.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 41.53	+ 8 5.5	2.358	3.165	12.1	22.0
3 12	13 37.07	+ 9 25.1	2.289	3.173	9.6	21.8
3 22	13 30.76	+10 44.9	2.244	3.180	7.3	21.7
4 1	13 23.11	+11 58.2	2.227	3.187	6.0	21.6
4 11	13 14.85	+12 58.4	2.238	3.193	6.5	21.7
4 21	13 6.76	+13 40.8	2.277	3.198	8.6	21.8
5 1	12 59.59	+14 2.7	2.342	3.202	11.0	22.0
5 11	12 53.91	+14 4.0	2.428	3.206	13.3	22.1

405435 2004 TJ_{27} 4 10.1 146°.93 0°.6/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.56	−11 41.1	1.800	2.579	16.3	22.5
3 12	13 40.97	−11 30.9	1.717	2.588	13.0	22.3
3 22	13 33.82	−11 6.1	1.656	2.597	9.1	22.1
4 1	13 24.73	−10 29.0	1.619	2.604	4.6	21.8
4 11	13 14.70	− 9 43.8	1.610	2.612	0.7	21.5
4 21	13 4.83	− 8 56.3	1.629	2.618	4.9	21.9
5 1	12 56.21	− 8 12.9	1.675	2.624	9.3	22.1
5 11	12 49.65	− 7 39.0	1.746	2.630	13.1	22.4

16810 Pavelaleksandrov 4 10.1 142°.46 2°.0/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.46	−17 59.1	1.994	2.745	15.9	19.8
3 12	13 39.06	−17 27.5	1.909	2.759	12.9	19.6
3 22	13 32.36	−16 36.4	1.845	2.772	9.3	19.4
4 1	13 23.96	−15 27.5	1.806	2.784	5.3	19.1
4 11	13 14.78	−14 5.5	1.796	2.795	2.1	18.9
4 21	13 5.80	−12 37.2	1.815	2.805	4.4	19.1
5 1	12 57.98	−11 10.5	1.862	2.814	8.2	19.4
5 11	12 52.03	− 9 52.9	1.934	2.823	11.8	19.6

503352 2016 BJ_{63} 4 10.2 293°.69 0°.9/10.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.18	−12 7.4	1.453	2.257	18.4	21.7
3 12	13 37.70	−12 1.3	1.354	2.239	14.9	21.4
3 22	13 32.22	−11 37.1	1.275	2.222	10.6	21.1
4 1	13 24.22	−10 55.8	1.218	2.205	5.5	20.8
4 11	13 14.73	−10 2.2	1.186	2.188	0.9	20.4
4 21	13 5.06	− 9 3.5	1.180	2.171	5.9	20.7
5 1	12 56.63	− 8 8.3	1.198	2.155	11.3	21.0
5 11	12 50.56	− 7 25.0	1.237	2.138	16.1	21.2

422720 2001 BG_{42} 4 10.2 108°.91 4°.6/ 5.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.89	+ 3 29.3	2.149	2.958	13.1	21.4
3 12	13 37.44	+ 4 26.0	2.085	2.975	10.2	21.2
3 22	13 31.02	+ 5 25.0	2.045	2.991	7.2	21.1
4 1	13 23.23	+ 6 20.6	2.031	3.008	4.9	20.9
4 11	13 14.86	+ 7 6.6	2.046	3.024	5.1	21.0
4 21	13 6.73	+ 7 38.5	2.089	3.039	7.4	21.2
5 1	12 59.64	+ 7 53.4	2.158	3.054	10.3	21.4
5 11	12 54.17	+ 7 50.7	2.249	3.069	12.9	21.6

171155 2005 GN_{88} 4 10.2 231°.52 0°.4/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.01	−11 28.9	2.378	3.153	13.0	21.1
3 12	13 35.32	−11 12.0	2.278	3.147	10.3	20.9
3 22	13 29.73	−10 43.4	2.199	3.140	7.2	20.7
4 1	13 22.69	−10 5.0	2.148	3.133	3.6	20.5
4 11	13 14.90	− 9 20.3	2.124	3.126	0.4	20.2
4 21	13 7.12	− 8 33.7	2.130	3.119	4.0	20.5
5 1	13 0.13	− 7 50.2	2.163	3.111	7.6	20.7
5 11	12 54.58	− 7 14.1	2.223	3.103	10.8	20.9

271440 2004 DS_{61} 4 10.2 12°.25 0°.0/10.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 35.64	− 9 40.2	2.559	3.343	11.9	20.9
3 12	13 32.46	− 9 29.2	2.471	3.346	9.4	20.7
3 22	13 27.64	− 9 9.1	2.405	3.350	6.4	20.5
4 1	13 21.62	− 8 41.8	2.366	3.353	3.2	20.3
4 11	13 15.01	− 8 10.8	2.355	3.357	0.3	20.1
4 21	13 8.47	− 7 39.4	2.373	3.362	3.7	20.4
5 1	13 2.67	− 7 11.6	2.419	3.367	6.9	20.6
5 11	12 58.13	− 6 50.7	2.491	3.372	9.8	20.8

480415 2015 KB_{95} 4 10.2 290°.52 4°.9/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 37.75	+ 4 53.7	2.314	3.128	12.1	21.1
3 12	13 34.24	+ 5 52.3	2.235	3.127	9.5	20.9
3 22	13 28.91	+ 6 53.1	2.180	3.126	6.9	20.8
4 1	13 22.25	+ 7 50.3	2.152	3.125	5.0	20.7
4 11	13 14.95	+ 8 38.1	2.152	3.124	5.4	20.7
4 21	13 7.75	+ 9 11.8	2.179	3.123	7.6	20.8
5 1	13 1.40	+ 9 28.3	2.232	3.122	10.3	21.0
5 11	12 56.47	+ 9 26.7	2.307	3.121	12.8	21.1

380937 2006 JR_{9} 4 10.2 116°.83 1°.3/ 8.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.17	− 5 47.3	2.097	2.892	13.8	21.2
3 12	13 37.12	− 5 28.7	2.013	2.896	10.8	21.0
3 22	13 30.99	− 5 1.5	1.951	2.901	7.3	20.8
4 1	13 23.30	− 4 28.9	1.916	2.905	3.5	20.6
4 11	13 14.86	− 3 55.5	1.909	2.909	1.5	20.4
4 21	13 6.53	− 3 25.8	1.930	2.913	5.1	20.7
5 1	12 59.18	− 3 4.1	1.978	2.917	8.8	20.9
5 11	12 53.48	− 2 53.5	2.051	2.920	12.1	21.1

110823 2001 UO_{51} 4 10.2 217°.82 5°.8/ 4.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 41.12	+ 5 33.2	2.023	2.838	13.5	19.7
3 12	13 37.21	+ 6 41.8	1.941	2.833	10.7	19.5
3 22	13 31.13	+ 7 53.3	1.883	2.827	7.9	19.3
4 1	13 23.40	+ 9 0.5	1.850	2.821	5.9	19.2
4 11	13 14.85	+ 9 56.1	1.846	2.815	6.4	19.2
4 21	13 6.39	+10 34.4	1.868	2.808	8.9	19.3
5 1	12 58.92	+10 51.6	1.915	2.801	11.9	19.5
5 11	12 53.15	+10 47.0	1.984	2.794	14.7	19.6

110648 2001 TF_{169} 4 10.2 66°.53 2°.2/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.51	−13 17.8	1.739	2.515	16.9	19.1
3 12	13 41.09	−13 47.5	1.658	2.524	13.7	18.9
3 22	13 34.01	−14 3.9	1.597	2.533	9.8	18.7
4 1	13 24.88	−14 6.9	1.561	2.542	5.6	18.4
4 11	13 14.72	−13 58.6	1.552	2.551	2.3	18.2
4 21	13 4.69	−13 42.8	1.570	2.560	4.9	18.4
5 1	12 55.95	−13 24.7	1.615	2.570	9.1	18.7
5 11	12 49.34	−13 9.7	1.684	2.579	12.9	18.9

70332 1999 RF_{166} 4 10.2 126°.76 3°.9/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.77	− 2 21.3	1.698	2.514	15.6	19.5
3 12	13 37.23	− 1 8.9	1.626	2.522	12.2	19.3
3 22	13 31.26	+ 0 13.9	1.576	2.530	8.3	19.1
4 1	13 23.48	+ 1 39.8	1.551	2.537	4.7	18.9
4 11	13 14.86	+ 3 0.1	1.554	2.544	4.4	18.9
4 21	13 6.45	+ 4 6.8	1.583	2.551	7.8	19.1
5 1	12 59.26	+ 4 54.1	1.638	2.557	11.6	19.3
5 11	12 54.04	+ 5 19.1	1.715	2.563	15.1	19.6

129715 1998 TW_{24} 4 10.2 307°.26 0°.2/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 36.74	−10 42.7	1.828	2.626	15.4	20.1
3 12	13 34.22	−10 13.3	1.726	2.610	12.3	19.8
3 22	13 29.37	− 9 28.1	1.646	2.594	8.5	19.5
4 1	13 22.67	− 8 30.0	1.590	2.579	4.2	19.2
4 11	13 14.93	− 7 24.3	1.561	2.563	0.5	18.9
4 21	13 7.13	− 6 17.6	1.560	2.548	5.2	19.2
5 1	13 0.29	− 5 17.3	1.584	2.534	9.6	19.5
5 11	12 55.25	− 4 29.8	1.632	2.519	13.6	19.7

78353 2002 PQ_{99} 4 10.2 91°.66 4°.6/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.55	+ 0 46.7	1.628	2.448	16.0	19.5
3 12	13 38.73	+ 1 37.2	1.558	2.455	12.5	19.3
3 22	13 32.34	+ 2 33.8	1.510	2.462	8.7	19.0
4 1	13 24.03	+ 3 29.8	1.486	2.469	5.3	18.9
4 11	13 14.82	+ 4 17.3	1.489	2.476	5.1	18.9
4 21	13 5.86	+ 4 49.9	1.518	2.483	8.3	19.1
5 1	12 58.20	+ 5 3.4	1.572	2.490	12.0	19.3
5 11	12 52.63	+ 4 56.5	1.647	2.496	15.5	19.5

419892 2011 AS_{53} 4 10.2 171°.52 3°.5/13.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.12	−18 15.2	1.892	2.648	16.5	21.4
3 12	13 39.17	−18 34.6	1.800	2.649	13.6	21.2
3 22	13 32.70	−18 37.0	1.728	2.650	10.1	21.0
4 1	13 24.27	−18 21.9	1.680	2.651	6.4	20.7
4 11	13 14.80	−17 51.1	1.658	2.651	3.6	20.6
4 21	13 5.35	−17 8.7	1.663	2.652	5.0	20.6
5 1	12 57.02	−16 21.0	1.696	2.652	8.6	20.9
5 11	12 50.66	−15 34.9	1.753	2.652	12.3	21.1

455683 2005 EJ_{64} 4 10.2 39°.61 3°.0/12.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.91	−14 31.4	1.341	2.136	20.1	20.7
3 12	13 40.57	−15 4.9	1.270	2.146	16.3	20.5
3 22	13 34.03	−15 20.5	1.218	2.157	11.8	20.2
4 1	13 25.00	−15 17.8	1.188	2.169	6.9	20.0
4 11	13 14.74	−14 59.4	1.182	2.180	3.1	19.8
4 21	13 4.70	−14 30.7	1.201	2.193	5.8	20.0
5 1	12 56.29	−13 59.0	1.245	2.206	10.5	20.3
5 11	12 50.51	−13 32.1	1.310	2.219	14.9	20.5

93298 2000 SH_{205} 4 10.2 257°.44 0°.4/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.68	− 9 58.5	2.035	2.823	14.4	20.7
3 12	13 36.26	− 9 28.3	1.930	2.808	11.5	20.5
3 22	13 30.63	− 8 44.3	1.847	2.793	7.9	20.2
4 1	13 23.25	− 7 49.2	1.790	2.778	3.8	19.9
4 11	13 14.90	− 6 47.8	1.761	2.763	0.6	19.7
4 21	13 6.48	− 5 46.3	1.760	2.747	4.9	19.9
5 1	12 58.96	− 4 51.0	1.786	2.731	9.1	20.2
5 11	12 53.13	− 4 7.3	1.837	2.714	12.8	20.3

313690 2003 SP_{382} 4 10.2 104°.19 1°.4/ 9.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.11	− 7 11.8	1.708	2.506	16.3	21.7
3 12	13 39.78	− 6 39.8	1.638	2.523	12.8	21.5
3 22	13 32.95	− 5 55.7	1.590	2.540	8.6	21.3
4 1	13 24.29	− 5 4.0	1.567	2.556	4.1	21.1
4 11	13 14.83	− 4 10.7	1.571	2.572	1.6	20.9
4 21	13 5.65	− 3 22.5	1.603	2.587	5.8	21.2
5 1	12 57.79	− 2 45.1	1.662	2.602	10.0	21.5
5 11	12 51.99	− 2 22.3	1.743	2.616	13.7	21.8

335177 2005 AY_{55} 4 10.2 192°.06 0°.9/ 9.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 39.89	− 7 44.5	2.253	3.041	13.2	21.7
3 12	13 36.04	− 7 16.4	2.161	3.040	10.4	21.5
3 22	13 30.24	− 6 38.2	2.092	3.039	7.0	21.3
4 1	13 22.97	− 5 52.7	2.049	3.038	3.4	21.1
4 11	13 14.95	− 5 4.7	2.035	3.036	1.1	20.9
4 21	13 7.00	− 4 18.9	2.050	3.034	4.7	21.2
5 1	12 59.92	− 3 40.2	2.092	3.032	8.3	21.4
5 11	12 54.36	− 3 12.4	2.160	3.029	11.5	21.6

73503 2002 TX_{52} 4 10.2 186°.81 0°.0/10.0 18

3 2	13 44.90	−11 5.8	1.818	2.600	16.1	20.5
3 12	13 40.54	−10 36.9	1.727	2.600	12.8	20.3
3 22	13 33.62	− 9 52.3	1.656	2.600	8.9	20.1
4 1	13 24.72	− 8 54.9	1.611	2.598	4.4	19.8
4 11	13 14.79	− 7 49.9	1.594	2.596	0.4	19.5
4 21	13 4.93	− 6 44.3	1.605	2.593	5.2	19.8
5 1	12 56.23	− 5 45.2	1.643	2.588	9.7	20.1
5 11	12 49.56	− 4 58.8	1.706	2.584	13.7	20.3

64540 2001 VR_{118} 4 10.2 88°.45 1°.7/ 8.4 18

3 2	13 39.72	− 4 12.4	2.368	3.163	12.4	19.5
3 12	13 35.66	− 3 46.4	2.292	3.176	9.7	19.3
3 22	13 29.82	− 3 13.8	2.239	3.188	6.5	19.2
4 1	13 22.69	− 2 37.9	2.213	3.201	3.2	19.0
4 11	13 14.99	− 2 3.1	2.216	3.214	2.0	18.9
4 21	13 7.44	− 1 33.3	2.248	3.226	4.9	19.1
5 1	13 0.78	− 1 12.2	2.307	3.239	8.1	19.3
5 11	12 55.55	− 1 2.2	2.391	3.251	10.9	19.5

111006 2001 VZ 4 10.2 154°.27 6°.0/ 2.3 18

3 2	13 40.77	+13 0.7	2.867	3.665	10.4	20.1
3 12	13 36.15	+13 59.6	2.800	3.673	8.5	19.9
3 22	13 29.98	+14 54.8	2.759	3.680	6.8	19.8
4 1	13 22.73	+15 41.4	2.744	3.687	6.0	19.8
4 11	13 15.00	+16 14.5	2.759	3.694	6.5	19.8
4 21	13 7.42	+16 31.4	2.800	3.700	8.0	19.9
5 1	13 0.60	+16 30.6	2.868	3.705	9.9	20.1
5 11	12 55.05	+16 12.6	2.957	3.710	11.7	20.2

143218 2002 YL_{3} 4 10.2 135°.97 2°.9/ 7.3 18

3 2	13 44.35	− 1 10.6	2.247	3.041	13.0	20.7
3 12	13 39.32	− 0 31.0	2.173	3.056	10.1	20.6
3 22	13 32.33	+ 0 14.2	2.123	3.071	6.9	20.4
4 1	13 23.92	+ 1 0.2	2.100	3.084	3.8	20.2
4 11	13 14.89	+ 1 42.0	2.106	3.098	3.2	20.2
4 21	13 6.08	+ 2 14.9	2.141	3.110	6.0	20.4
5 1	12 58.27	+ 2 35.5	2.205	3.122	9.1	20.6
5 11	12 52.08	+ 2 42.0	2.292	3.132	12.0	20.8

250592 2005 CO_{80} 4 10.2 13°.20 4°.2/13.4 18

3 2	13 39.66	−19 32.7	1.441	2.219	19.7	20.2
3 12	13 37.21	−19 46.9	1.358	2.220	16.4	20.0
3 22	13 31.77	−19 37.8	1.294	2.222	12.3	19.7
4 1	13 23.95	−19 4.2	1.251	2.223	7.9	19.5
4 11	13 14.87	−18 9.2	1.232	2.226	4.4	19.3
4 21	13 5.88	−16 59.3	1.238	2.228	5.9	19.4
5 1	12 58.31	−15 44.0	1.268	2.231	10.1	19.6
5 11	12 53.16	−14 33.8	1.321	2.234	14.4	19.9

320512 2007 XB_{56} 4 10.2 188°.34 3°.8/ 6.7 18

3 2	13 44.82	+ 0 27.6	2.040	2.842	13.9	21.3
3 12	13 40.07	+ 1 14.2	1.954	2.841	10.9	21.1
3 22	13 33.08	+ 2 6.4	1.892	2.840	7.6	20.9
4 1	13 24.39	+ 2 58.9	1.856	2.838	4.5	20.7
4 11	13 14.84	+ 3 45.6	1.848	2.836	4.2	20.7
4 21	13 5.40	+ 4 20.7	1.869	2.832	7.1	20.8
5 1	12 57.00	+ 4 40.4	1.916	2.828	10.6	21.0
5 11	12 50.37	+ 4 42.6	1.987	2.823	13.8	21.2

431857 2008 SL_{95} 4 10.2 61°.72 1°.2/11.5 17

3 2	13 36.53	−16 47.9	1.953	2.725	15.5	21.0
3 12	13 33.76	−15 56.8	1.864	2.729	12.5	20.8
3 22	13 28.84	−14 45.1	1.797	2.733	8.8	20.6
4 1	13 22.32	−13 15.7	1.755	2.737	4.8	20.3
4 11	13 15.03	−11 34.5	1.740	2.741	1.2	20.1
4 21	13 7.88	− 9 49.6	1.755	2.746	4.3	20.3
5 1	13 1.75	− 8 9.4	1.797	2.750	8.4	20.5
5 11	12 57.32	− 6 41.6	1.864	2.755	12.1	20.8

303856 2005 SA_{210} 4 10.2 262°.02 1°.8/12.2 17

3 2	13 37.53	−16 18.5	2.522	3.277	12.8	20.8
3 12	13 34.15	−16 7.5	2.413	3.265	10.4	20.6
3 22	13 28.96	−15 42.8	2.326	3.253	7.6	20.4
4 1	13 22.37	−15 5.1	2.265	3.242	4.4	20.2
4 11	13 15.03	−14 17.2	2.232	3.230	1.9	20.0
4 21	13 7.67	−13 22.9	2.228	3.218	3.7	20.1
5 1	13 1.02	−12 27.5	2.252	3.206	6.9	20.3
5 11	12 55.74	−11 36.1	2.302	3.193	10.1	20.5

181088 2005 QB_{50} 4 10.2 190°.94 2°.3/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 37.61	− 1 32.1	3.036	3.829	10.0	21.2
3 12	13 33.69	− 0 51.2	2.944	3.827	7.8	21.0
3 22	13 28.35	− 0 5.4	2.877	3.825	5.3	20.8
4 1	13 21.97	+ 0 41.7	2.838	3.823	2.9	20.7
4 11	13 15.08	+ 1 26.4	2.829	3.820	2.6	20.6
4 21	13 8.25	+ 2 4.9	2.850	3.817	4.7	20.8
5 1	13 2.03	+ 2 34.3	2.899	3.813	7.3	20.9
5 11	12 56.90	+ 2 52.4	2.973	3.809	9.7	21.1

234143 2000 EY_{44} 4 10.2 47°.02 2°.8/11.9 18

3 2	13 44.89	−14 3.7	1.286	2.085	20.6	20.1
3 12	13 41.54	−14 33.7	1.213	2.092	16.8	19.8
3 22	13 34.85	−14 45.5	1.158	2.099	12.1	19.6
4 1	13 25.48	−14 38.7	1.125	2.107	6.9	19.3
4 11	13 14.75	−14 16.2	1.116	2.115	2.9	19.1
4 21	13 4.20	−13 43.7	1.131	2.123	6.0	19.3
5 1	12 55.35	−13 9.2	1.171	2.132	11.0	19.6
5 11	12 49.25	−12 40.8	1.232	2.141	15.6	19.9

388283 2006 RJ_{121} 4 10.2 184°.51 1°.3/11.5 17

3 2	13 40.97	−13 11.8	2.649	3.406	12.2	21.4
3 12	13 36.63	−13 15.6	2.550	3.406	9.8	21.2
3 22	13 30.53	−13 9.2	2.474	3.406	7.0	21.0
4 1	13 23.10	−12 53.5	2.425	3.405	3.8	20.8
4 11	13 14.98	−12 30.6	2.404	3.405	1.3	20.6
4 21	13 6.89	−12 3.7	2.414	3.404	3.5	20.8
5 1	12 59.54	−11 36.5	2.452	3.402	6.7	21.0
5 11	12 53.54	−11 12.8	2.517	3.401	9.6	21.2

354891 2006 BZ_{193} 4 10.2 307°.17 3°.3/ 7.6 17

3 2	13 36.90	− 5 40.8	1.315	2.148	18.4	20.4
3 12	13 35.25	− 4 40.2	1.226	2.132	14.5	20.1
3 22	13 30.60	− 3 21.2	1.156	2.116	9.9	19.8
4 1	13 23.47	− 1 50.0	1.110	2.100	5.1	19.5
4 11	13 14.93	− 0 17.0	1.088	2.084	3.9	19.3
4 21	13 6.31	+ 1 6.3	1.090	2.070	8.6	19.6
5 1	12 59.01	+ 2 9.6	1.115	2.055	13.8	19.8
5 11	12 54.12	+ 2 46.6	1.160	2.041	18.5	20.0

241101 2007 GD_{50} 4 10.2 8°.50 1°.5/ 9.1 18

3 2	13 36.80	− 9 29.7	1.145	1.979	20.5	20.5
3 12	13 35.38	− 8 43.5	1.074	1.979	16.2	20.2
3 22	13 30.72	− 7 35.4	1.022	1.980	11.0	19.9
4 1	13 23.48	− 6 10.9	0.991	1.982	5.2	19.6
4 11	13 14.94	− 4 40.3	0.983	1.984	1.9	19.4
4 21	13 6.59	− 3 15.7	1.000	1.988	7.5	19.7
5 1	12 59.87	− 2 7.9	1.038	1.991	13.0	20.0
5 11	12 55.80	− 1 24.2	1.096	1.996	17.9	20.3

125650 2001 XV_{68} 4 10.2 119°.62 0°.0/10.1 17

3 2	13 41.31	−10 41.4	2.010	2.793	14.7	21.1
3 12	13 37.32	−10 13.3	1.930	2.805	11.6	20.9
3 22	13 31.17	− 9 32.0	1.872	2.816	8.0	20.7
4 1	13 23.44	− 8 40.4	1.840	2.827	3.9	20.4
4 11	13 14.96	− 7 43.4	1.835	2.837	0.4	20.2
4 21	13 6.66	− 6 47.0	1.860	2.848	4.6	20.5
5 1	12 59.42	− 5 57.0	1.912	2.858	8.5	20.8
5 11	12 53.92	− 5 17.9	1.988	2.867	12.0	21.0

115135 2003 SK_{57} 4 10.2 91°.61 0°.8/10.8 18

3 2	13 45.51	−10 8.8	2.090	2.864	14.5	20.0
3 12	13 40.54	−10 26.0	2.008	2.876	11.6	19.8
3 22	13 33.36	−10 33.3	1.949	2.888	8.0	19.6
4 1	13 24.51	−10 32.1	1.915	2.900	4.1	19.4
4 11	13 14.87	−10 24.6	1.910	2.912	0.8	19.2
4 21	13 5.38	−10 14.3	1.934	2.923	4.3	19.4
5 1	12 56.96	−10 5.1	1.986	2.935	8.0	19.7
5 11	12 50.33	−10 0.5	2.063	2.946	11.4	19.9

111551 2001 YT_{137} 4 10.2 90°.67 6°.8/17.8 18

3 2	13 42.32	−30 39.4	2.499	3.166	15.0	19.8
3 12	13 38.10	−31 25.3	2.409	3.177	13.1	19.7
3 22	13 31.75	−31 52.7	2.338	3.188	10.9	19.5
4 1	13 23.77	−31 59.0	2.289	3.199	8.7	19.4
4 11	13 14.94	−31 43.8	2.266	3.210	7.1	19.3
4 21	13 6.17	−31 9.1	2.269	3.221	6.8	19.3
5 1	12 58.33	−30 19.2	2.300	3.232	8.0	19.4
5 11	12 52.16	−29 20.8	2.355	3.243	10.0	19.6

8587 Ruficollis 4 10.2 14°.70 4°.5/13.4 18

3 2	13 40.27	−18 58.3	1.352	2.137	20.5	17.7
3 12	13 37.89	−19 25.3	1.273	2.139	17.0	17.5
3 22	13 32.36	−19 29.5	1.211	2.141	12.8	17.2
4 1	13 24.30	−19 9.4	1.171	2.144	8.2	17.0
4 11	13 14.89	−18 27.2	1.153	2.147	4.7	16.8
4 21	13 5.56	−17 29.2	1.161	2.151	6.2	16.9
5 1	12 57.75	−16 24.7	1.192	2.156	10.6	17.1
5 11	12 52.52	−15 23.9	1.245	2.161	15.0	17.4

232084 2001 WS_{47} 4 10.2 134°.55 4°.6/ 4.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 39.24	+ 5 30.1	2.490	3.298	11.5	20.6
3 12	13 35.23	+ 6 23.4	2.417	3.305	9.1	20.4
3 22	13 29.51	+ 7 17.9	2.367	3.311	6.6	20.3
4 1	13 22.57	+ 8 8.2	2.345	3.317	4.8	20.2
4 11	13 15.06	+ 8 49.1	2.352	3.323	5.1	20.2
4 21	13 7.70	+ 9 16.8	2.386	3.328	7.1	20.3
5 1	13 1.16	+ 9 28.6	2.447	3.334	9.6	20.5
5 11	12 55.98	+ 9 23.9	2.531	3.339	12.0	20.7

334866 2003 UE_{143} 4 10.2 233°.70 1°.1/11.4 17

3 2	13 40.48	−14 7.1	2.633	3.388	12.3	21.9
3 12	13 36.38	−13 51.4	2.518	3.373	10.0	21.7
3 22	13 30.46	−13 23.3	2.426	3.358	7.1	21.5
4 1	13 23.13	−12 43.9	2.361	3.342	3.9	21.2
4 11	13 15.01	−11 56.0	2.324	3.325	1.1	21.0
4 21	13 6.83	−11 3.7	2.318	3.308	3.6	21.2
5 1	12 59.34	−10 11.7	2.341	3.290	7.0	21.4
5 11	12 53.18	− 9 24.8	2.390	3.271	10.1	21.5

359990 2012 VX_{56} 4 10.2 208°.96 4°.4/ 5.3 17

3 2	13 39.64	+ 4 10.4	2.406	3.213	11.9	21.1
3 12	13 35.69	+ 5 0.9	2.321	3.210	9.3	20.9
3 22	13 29.92	+ 5 53.7	2.261	3.207	6.7	20.7
4 1	13 22.81	+ 6 43.7	2.228	3.203	4.7	20.6
4 11	13 15.05	+ 7 25.6	2.224	3.200	4.9	20.6
4 21	13 7.36	+ 7 54.8	2.247	3.196	7.1	20.7
5 1	13 0.50	+ 8 8.4	2.297	3.191	9.8	20.9
5 11	12 55.04	+ 8 5.3	2.370	3.187	12.4	21.0

521190 2015 FL_{412} 4 10.2 246°.98 4°.2/ 4.9 17

3 2	13 35.92	+ 1 33.5	2.376	3.189	11.8	21.5
3 12	13 32.83	+ 2 50.9	2.291	3.185	9.2	21.3
3 22	13 28.00	+ 4 14.0	2.232	3.181	6.5	21.2
4 1	13 21.89	+ 5 36.8	2.199	3.178	4.4	21.0
4 11	13 15.13	+ 6 52.8	2.196	3.174	4.8	21.0
4 21	13 8.45	+ 7 56.3	2.220	3.170	7.1	21.2
5 1	13 2.53	+ 8 42.9	2.271	3.166	9.9	21.3
5 11	12 57.96	+ 9 10.6	2.345	3.162	12.5	21.5

165348 2000 WO_{14} 4 10.2 142°.44 0°.1/10.3 18

3 2	13 44.92	−10 35.2	1.903	2.683	15.6	21.4
3 12	13 40.31	−10 16.4	1.822	2.694	12.3	21.2
3 22	13 33.32	− 9 44.3	1.762	2.704	8.5	21.0
4 1	13 24.54	− 9 1.4	1.727	2.714	4.2	20.7
4 11	13 14.91	− 8 12.5	1.721	2.723	0.3	20.4
4 21	13 5.46	− 7 23.2	1.743	2.731	4.8	20.8
5 1	12 57.18	− 6 39.6	1.793	2.739	9.0	21.1
5 11	12 50.82	− 6 6.4	1.867	2.746	12.6	21.3

147271 2002 YG_{24} 4 10.2 153°.99 0°.8/10.9 18

3 2	13 42.68	−12 35.2	2.087	2.858	14.6	20.7
3 12	13 38.41	−12 19.4	1.999	2.865	11.7	20.5
3 22	13 31.96	−11 49.9	1.933	2.871	8.2	20.3
4 1	13 23.87	−11 8.6	1.893	2.877	4.2	20.1
4 11	13 14.97	−10 19.6	1.880	2.882	0.8	19.8
4 21	13 6.19	− 9 27.9	1.897	2.887	4.3	20.1
5 1	12 58.43	− 8 39.3	1.942	2.891	8.2	20.3
5 11	12 52.40	− 7 59.0	2.012	2.895	11.7	20.5

319869 2006 WS_{74} 4 10.2 283°.38 0°.7/10.8 17

3 2	13 40.44	−11 59.7	1.679	2.472	16.8	21.5
3 12	13 37.46	−11 49.4	1.578	2.457	13.5	21.2
3 22	13 31.82	−11 22.8	1.497	2.442	9.5	20.9
4 1	13 24.01	−10 41.6	1.441	2.427	4.9	20.6
4 11	13 14.94	− 9 50.0	1.410	2.412	0.7	20.3
4 21	13 5.77	− 8 54.4	1.406	2.397	5.3	20.6
5 1	12 57.68	− 8 2.3	1.428	2.382	10.1	20.8
5 11	12 51.66	− 7 20.6	1.473	2.367	14.4	21.0

234157 2000 GE_{168} 4 10.2 335°.65 3°.4/ 7.9 18

3 2	13 41.37	− 3 1.3	1.250	2.084	19.1	19.9
3 12	13 38.83	− 2 31.6	1.173	2.078	15.1	19.7
3 22	13 33.06	− 1 50.4	1.114	2.073	10.3	19.4
4 1	13 24.67	− 1 3.9	1.079	2.068	5.4	19.1
4 11	13 14.90	− 0 20.4	1.067	2.064	3.9	19.0
4 21	13 5.21	+ 0 11.7	1.079	2.060	8.4	19.2
5 1	12 57.06	+ 0 25.9	1.114	2.057	13.5	19.5
5 11	12 51.54	+ 0 18.7	1.169	2.054	18.1	19.7

481340 2006 BK_{240} 4 10.2 293°.89 6°.4/23.0 18

3 2	13 38.78	−43 4.0	4.574	5.103	10.0	21.0
3 12	13 34.64	−43 51.9	4.464	5.100	9.2	20.9
3 22	13 29.07	−44 26.5	4.372	5.098	8.3	20.8
4 1	13 22.40	−44 45.9	4.301	5.096	7.4	20.7
4 11	13 15.12	−44 49.2	4.253	5.094	6.7	20.7
4 21	13 7.77	−44 36.7	4.230	5.091	6.4	20.7
5 1	13 0.91	−44 10.0	4.232	5.089	6.5	20.7
5 11	12 55.03	−43 32.1	4.259	5.087	7.1	20.7

329386 2001 XG_{126} 4 10.2 145°.07 3°.3/ 7.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 42.85	− 0 47.8	2.025	2.829	13.9	21.5
3 12	13 38.49	− 0 9.1	1.947	2.835	10.9	21.3
3 22	13 31.98	+ 0 35.6	1.891	2.842	7.4	21.1
4 1	13 23.87	+ 1 21.2	1.862	2.847	4.2	20.9
4 11	13 15.00	+ 2 2.0	1.861	2.853	3.6	20.9
4 21	13 6.30	+ 2 33.0	1.888	2.858	6.6	21.1
5 1	12 58.64	+ 2 50.2	1.942	2.862	10.0	21.3
5 11	12 52.72	+ 2 51.8	2.020	2.867	13.1	21.5

219738 2001 XY_{189} 4 10.2 138°.07 4°.8/ 5.0 18

3 2	13 41.63	+ 3 47.7	2.231	3.038	12.7	20.6
3 12	13 37.26	+ 4 54.3	2.162	3.050	9.9	20.4
3 22	13 30.98	+ 6 3.8	2.116	3.062	7.1	20.3
4 1	13 23.32	+ 7 9.9	2.098	3.072	5.0	20.2
4 11	13 15.05	+ 8 6.4	2.108	3.083	5.3	20.2
4 21	13 6.98	+ 8 48.2	2.147	3.092	7.6	20.4
5 1	12 59.87	+ 9 12.1	2.212	3.102	10.4	20.5
5 11	12 54.32	+ 9 17.3	2.299	3.110	12.9	20.7

222577 2001 WA 4 10.2 95°.97 2°.9/12.9 18

3 2	13 41.38	−18 13.1	1.892	2.651	16.4	20.1
3 12	13 37.66	−18 10.2	1.811	2.663	13.4	19.9
3 22	13 31.58	−17 48.9	1.750	2.675	9.8	19.7
4 1	13 23.72	−17 9.8	1.713	2.687	6.0	19.5
4 11	13 15.03	−16 16.3	1.702	2.698	3.0	19.3
4 21	13 6.50	−15 13.9	1.720	2.710	4.6	19.4
5 1	12 59.12	−14 9.8	1.764	2.721	8.3	19.7
5 11	12 53.65	−13 10.9	1.833	2.732	11.8	19.9

293898 2007 RC_{301} 4 10.2 85°.23 1°.1/ 8.9 17

3 2	13 36.92	− 9 11.2	2.130	2.923	13.7	21.1
3 12	13 33.77	− 8 10.9	2.050	2.933	10.7	20.9
3 22	13 28.71	− 6 57.5	1.993	2.942	7.2	20.7
4 1	13 22.26	− 5 35.4	1.963	2.952	3.4	20.4
4 11	13 15.16	− 4 10.9	1.961	2.962	1.4	20.3
4 21	13 8.22	− 2 50.6	1.988	2.971	5.0	20.6
5 1	13 2.20	− 1 40.9	2.043	2.980	8.6	20.8
5 11	12 57.71	− 0 46.2	2.122	2.990	11.8	21.0

260784 2005 NV_{39} 4 10.2 126°.06 10°.9/24.6 18

3 2	13 50.53	−45 3.5	2.462	3.007	17.5	21.6
3 12	13 45.18	−46 11.9	2.379	3.026	16.2	21.5
3 22	13 36.95	−46 56.1	2.310	3.043	14.6	21.4
4 1	13 26.45	−47 10.4	2.259	3.060	13.0	21.3
4 11	13 14.78	−46 52.0	2.229	3.077	11.7	21.2
4 21	13 3.22	−46 1.4	2.222	3.092	11.0	21.2
5 1	12 53.04	−44 43.6	2.238	3.107	11.1	21.2
5 11	12 45.21	−43 6.9	2.279	3.121	12.0	21.3

25350 1999 RB_{143} 4 10.2 147°.45 2°.7/ 8.2 18

3 2	13 45.30	− 4 52.4	1.550	2.359	17.2	19.6
3 12	13 41.12	− 4 7.9	1.475	2.367	13.5	19.4
3 22	13 34.15	− 3 11.2	1.421	2.374	9.1	19.2
4 1	13 25.04	− 2 8.0	1.392	2.380	4.6	18.9
4 11	13 14.91	− 1 6.0	1.389	2.386	3.0	18.8
4 21	13 5.00	− 0 13.1	1.413	2.392	7.1	19.1
5 1	12 56.51	+ 0 24.3	1.462	2.396	11.6	19.3
5 11	12 50.29	+ 0 42.7	1.534	2.401	15.5	19.6

243139 2007 RC_{322} 4 10.2 248°.94 0°.0/10.0 17

3 2	13 39.54	− 9 58.8	2.135	2.921	13.9	21.6
3 12	13 35.96	− 9 42.8	2.042	2.918	11.0	21.4
3 22	13 30.32	− 9 15.1	1.972	2.916	7.6	21.1
4 1	13 23.10	− 8 38.1	1.927	2.914	3.7	20.9
4 11	13 15.08	− 7 55.9	1.910	2.912	0.3	20.6
4 21	13 7.11	− 7 13.3	1.921	2.910	4.4	20.9
5 1	13 0.05	− 6 35.4	1.960	2.907	8.2	21.2
5 11	12 54.58	− 6 6.6	2.023	2.905	11.7	21.4

353928 1995 DW_{5} 4 10.2 102°.81 3°.4/13.8 18

3 2	13 41.41	−19 58.8	2.700	3.426	12.8	21.1
3 12	13 37.01	−20 24.3	2.608	3.435	10.6	20.9
3 22	13 30.81	−20 36.9	2.537	3.444	8.0	20.8
4 1	13 23.28	−20 36.3	2.492	3.453	5.4	20.6
4 11	13 15.08	−20 23.6	2.476	3.462	3.5	20.5
4 21	13 6.92	−20 1.0	2.488	3.471	4.1	20.6
5 1	12 59.55	−19 32.5	2.529	3.479	6.5	20.7
5 11	12 53.55	−19 2.3	2.596	3.488	9.0	20.9

200526 2001 CH_{35} 4 10.2 110°.46 19°.8/22.3 18

3 2	13 48.30	+30 48.5	1.166	1.977	21.7	19.3
3 12	13 44.59	+33 50.6	1.147	1.987	20.3	19.2
3 22	13 36.95	+36 22.6	1.146	1.997	19.8	19.2
4 1	13 26.43	+38 7.1	1.162	2.006	20.2	19.2
4 11	13 14.81	+38 53.8	1.196	2.015	21.4	19.4
4 21	13 3.95	+38 41.4	1.244	2.024	23.0	19.5
5 1	12 55.42	+37 35.9	1.305	2.033	24.7	19.7
5 11	12 50.13	+35 48.0	1.377	2.041	26.2	19.8

336181 2008 RN_{89} 4 10.2 290°.34 1°.8/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 37.99	−16 0.3	1.903	2.677	15.8	20.6
3 12	13 35.15	−15 43.3	1.804	2.669	12.8	20.4
3 22	13 30.00	−15 8.1	1.725	2.660	9.2	20.1
4 1	13 23.04	−14 15.9	1.671	2.651	5.2	19.9
4 11	13 15.09	−13 10.6	1.643	2.643	1.9	19.6
4 21	13 7.14	−11 58.3	1.643	2.635	4.5	19.8
5 1	13 0.17	−10 46.4	1.670	2.626	8.7	20.0
5 11	12 55.00	− 9 42.4	1.721	2.618	12.5	20.2

425869 2011 FL_{10} 4 10.2 8°.97 2°.7/12.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.77	−14 39.0	1.708	2.487	17.1	20.8
3 12	13 39.15	−15 8.7	1.621	2.487	13.9	20.6
3 22	13 32.87	−15 23.9	1.554	2.488	10.1	20.4
4 1	13 24.49	−15 24.2	1.511	2.489	6.0	20.1
4 11	13 14.97	−15 11.5	1.493	2.491	2.8	19.9
4 21	13 5.49	−14 49.7	1.503	2.493	5.0	20.1
5 1	12 57.21	−14 24.4	1.538	2.496	9.2	20.3
5 11	12 51.04	−14 1.8	1.597	2.498	13.1	20.6

96106 3313 $T\text{-}_2$ 4 10.2 220°.78 2°.6/ 7.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.43	− 5 9.2	1.848	2.650	15.1	20.4
3 12	13 38.62	− 4 12.1	1.753	2.641	11.9	20.1
3 22	13 32.37	− 3 2.2	1.680	2.632	8.1	19.9
4 1	13 24.20	− 1 44.7	1.633	2.621	4.1	19.6
4 11	13 15.00	− 0 26.9	1.614	2.610	3.0	19.5
4 21	13 5.81	+ 0 43.5	1.623	2.599	6.7	19.7
5 1	12 57.66	+ 1 39.5	1.659	2.586	10.9	19.9
5 11	12 51.39	+ 2 16.7	1.717	2.574	14.6	20.1

147644 2004 JB_{23} 4 10.2 232°.86 3°.5/ 6.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.07	+ 3 6.8	2.682	3.480	11.0	20.7
3 12	13 36.66	+ 3 37.4	2.587	3.471	8.7	20.6
3 22	13 30.54	+ 4 10.2	2.516	3.461	6.1	20.4
4 1	13 23.15	+ 4 41.0	2.472	3.451	4.0	20.2
4 11	13 15.11	+ 5 5.8	2.459	3.441	3.9	20.2
4 21	13 7.09	+ 5 21.1	2.474	3.431	6.0	20.3
5 1	12 59.79	+ 5 24.2	2.516	3.420	8.7	20.5
5 11	12 53.79	+ 5 14.0	2.584	3.409	11.3	20.6

253001 2002 RS_{38} 4 10.2 169°.52 2°.2/ 7.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.42	− 5 18.0	2.262	3.053	13.0	22.5
3 12	13 37.19	− 4 15.1	2.176	3.058	10.2	22.3
3 22	13 31.01	− 3 1.9	2.113	3.063	6.8	22.1
4 1	13 23.39	− 1 43.3	2.079	3.066	3.5	21.9
4 11	13 15.09	− 0 25.5	2.073	3.069	2.6	21.8
4 21	13 6.90	+ 0 45.4	2.098	3.071	5.6	22.0
5 1	12 59.63	+ 1 43.9	2.150	3.072	9.1	22.2
5 11	12 53.89	+ 2 26.4	2.227	3.073	12.1	22.4

503791 2016 YB_{10} 4 10.2 215°.33 18°.4/23.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.57	+26 32.9	1.175	1.997	20.8	20.5
3 12	13 43.39	+29 32.5	1.136	1.994	19.2	20.3
3 22	13 36.36	+32 11.9	1.116	1.991	18.4	20.3
4 1	13 26.30	+34 11.8	1.115	1.987	18.9	20.3
4 11	13 14.83	+35 18.2	1.132	1.982	20.4	20.4
4 21	13 3.77	+35 26.0	1.166	1.977	22.5	20.5
5 1	12 54.82	+34 38.3	1.213	1.972	24.7	20.6
5 11	12 49.04	+33 4.4	1.272	1.967	26.8	20.8

158935 2004 RC_{73} 4 10.2 237°.06 0°.0/10.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.69	−10 10.6	2.241	3.018	13.6	21.6
3 12	13 37.65	− 9 54.1	2.135	3.006	10.8	21.4
3 22	13 31.52	− 9 26.0	2.051	2.993	7.5	21.2
4 1	13 23.74	− 8 48.3	1.993	2.979	3.7	20.9
4 11	13 15.05	− 8 4.6	1.963	2.965	0.3	20.6
4 21	13 6.31	− 7 19.8	1.963	2.951	4.4	20.9
5 1	12 58.39	− 6 39.0	1.991	2.936	8.3	21.1
5 11	12 52.04	− 6 6.7	2.044	2.921	11.8	21.3

501491 2014 CM_{17} 4 10.2 86°.05 2°.5/ 7.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.01	− 3 9.7	2.292	3.094	12.5	21.3
3 12	13 34.43	− 2 21.6	2.217	3.106	9.7	21.1
3 22	13 29.07	− 1 26.3	2.166	3.118	6.5	20.9
4 1	13 22.41	− 0 28.4	2.142	3.129	3.4	20.8
4 11	13 15.18	+ 0 26.7	2.147	3.141	2.8	20.7
4 21	13 8.11	+ 1 14.0	2.180	3.152	5.5	20.9
5 1	13 1.91	+ 1 49.6	2.240	3.164	8.7	21.1
5 11	12 57.15	+ 2 10.8	2.324	3.175	11.5	21.3

257425 2010 JD_{24} 4 10.2 236°.78 3°.8/ 5.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 35.41	+ 0 17.9	2.482	3.292	11.5	20.7
3 12	13 32.38	+ 1 40.4	2.396	3.289	8.9	20.5
3 22	13 27.68	+ 3 9.6	2.335	3.285	6.2	20.3
4 1	13 21.77	+ 4 39.6	2.302	3.282	4.1	20.2
4 11	13 15.24	+ 6 4.0	2.298	3.278	4.4	20.2
4 21	13 8.79	+ 7 17.0	2.323	3.274	6.7	20.3
5 1	13 3.05	+ 8 13.8	2.375	3.271	9.5	20.5
5 11	12 58.60	+ 8 52.3	2.450	3.267	12.0	20.6

472134 2014 BQ_{53} 4 10.2 69°.47 4°.9/15.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 40.98	−23 25.9	2.208	2.931	15.3	21.1
3 12	13 37.20	−23 55.0	2.117	2.937	12.9	20.9
3 22	13 31.23	−24 6.7	2.046	2.943	10.1	20.8
4 1	13 23.59	−23 59.6	1.999	2.950	7.3	20.6
4 11	13 15.08	−23 34.6	1.978	2.956	5.1	20.5
4 21	13 6.63	−22 54.8	1.984	2.963	5.4	20.5
5 1	12 59.15	−22 5.5	2.018	2.970	7.7	20.6
5 11	12 53.38	−21 13.2	2.077	2.976	10.6	20.8

305900 2009 FP_{34} 4 10.2 280°.18 1°.6/ 8.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.49	− 4 17.9	2.321	3.115	12.7	21.3
3 12	13 36.59	− 4 3.6	2.219	3.102	10.0	21.1
3 22	13 30.72	− 3 42.4	2.140	3.089	6.8	20.9
4 1	13 23.33	− 3 17.3	2.087	3.075	3.3	20.7
4 11	13 15.11	− 2 52.2	2.063	3.062	1.8	20.5
4 21	13 6.87	− 2 31.1	2.067	3.048	5.0	20.7
5 1	12 59.41	− 2 17.6	2.100	3.035	8.5	20.9
5 11	12 53.41	− 2 14.7	2.157	3.021	11.7	21.1

138562 2000 QC_{68} 4 10.2 196°.77 0°.2/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.07	− 8 26.7	3.000	3.770	10.7	20.8
3 12	13 35.71	− 8 13.7	2.899	3.767	8.4	20.7
3 22	13 29.81	− 7 53.1	2.822	3.763	5.7	20.5
4 1	13 22.78	− 7 27.0	2.772	3.759	2.8	20.3
4 11	13 15.17	− 6 58.0	2.753	3.755	0.4	20.1
4 21	13 7.58	− 6 29.2	2.764	3.750	3.5	20.3
5 1	13 0.63	− 6 4.0	2.805	3.745	6.4	20.5
5 11	12 54.82	− 5 45.1	2.872	3.739	9.1	20.7

124259 2001 QM_{11} 4 10.2 170°.93 0°.4/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.64	−11 42.8	1.931	2.705	15.6	21.0
3 12	13 40.96	−11 22.9	1.842	2.710	12.4	20.8
3 22	13 33.86	−10 48.5	1.774	2.714	8.6	20.6
4 1	13 24.89	−10 1.9	1.732	2.717	4.4	20.3
4 11	13 14.99	− 9 7.6	1.717	2.719	0.5	20.0
4 21	13 5.19	− 8 11.5	1.732	2.721	4.8	20.4
5 1	12 56.52	− 7 20.0	1.774	2.721	9.0	20.6
5 11	12 49.78	− 6 38.6	1.842	2.721	12.7	20.9

24397 Parkerowan 4 10.2 181°.09 3°.8/ 6.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.76	− 1 7.6	1.950	2.758	14.2	19.4
3 12	13 37.81	− 0 1.7	1.868	2.759	11.1	19.2
3 22	13 31.63	+ 1 12.5	1.808	2.760	7.6	18.9
4 1	13 23.77	+ 2 28.8	1.776	2.760	4.5	18.7
4 11	13 15.09	+ 3 39.9	1.771	2.759	4.3	18.7
4 21	13 6.52	+ 4 38.9	1.794	2.758	7.3	18.9
5 1	12 58.99	+ 5 20.6	1.844	2.756	10.9	19.1
5 11	12 53.23	+ 5 42.4	1.916	2.754	14.1	19.3

425520 2010 LU_{61} 4 10.2 291°.50 9°.3/16.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.80	−29 4.1	1.553	2.277	20.7	20.3
3 12	13 38.68	−30 1.4	1.443	2.254	18.3	20.0
3 22	13 33.32	−30 34.2	1.349	2.230	15.4	19.7
4 1	13 25.07	−30 35.9	1.274	2.207	12.3	19.5
4 11	13 14.95	−30 2.8	1.221	2.183	9.8	19.3
4 21	13 4.37	−28 55.9	1.191	2.160	9.5	19.2
5 1	12 54.99	−27 22.5	1.184	2.136	11.9	19.2
5 11	12 48.19	−25 35.2	1.200	2.113	15.6	19.4

196608 2003 QE_{77} 4 10.2 287°.95 4°.2/13.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.79	−19 24.2	1.965	2.715	16.1	19.8
3 12	13 38.32	−19 55.2	1.855	2.698	13.5	19.6
3 22	13 32.35	−20 10.4	1.766	2.682	10.3	19.3
4 1	13 24.32	−20 8.0	1.699	2.665	6.9	19.1
4 11	13 15.04	−19 48.6	1.659	2.649	4.3	18.9
4 21	13 5.58	−19 15.2	1.646	2.632	5.4	18.9
5 1	12 57.05	−18 33.1	1.660	2.615	8.8	19.1
5 11	12 50.38	−17 49.3	1.698	2.599	12.5	19.3

278905 2008 TF_{130} 4 10.2 213°.12 1°.5/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.95	−14 17.4	2.205	2.970	14.1	21.6
3 12	13 37.09	−14 13.3	2.106	2.967	11.4	21.4
3 22	13 31.14	−13 55.5	2.029	2.963	8.2	21.2
4 1	13 23.56	−13 25.2	1.978	2.959	4.5	20.9
4 11	13 15.13	−12 45.3	1.954	2.954	1.5	20.7
4 21	13 6.71	−12 0.1	1.959	2.949	4.1	20.9
5 1	12 59.18	−11 15.0	1.992	2.945	7.8	21.1
5 11	12 53.26	−10 35.2	2.050	2.939	11.2	21.3

507025 2008 UK_{85} 4 10.2 283°.08 1°.3/11.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 37.92	−16 6.0	1.979	2.750	15.3	21.6
3 12	13 35.18	−15 29.4	1.860	2.724	12.5	21.4
3 22	13 30.13	−14 32.3	1.762	2.698	9.0	21.1
4 1	13 23.20	−13 15.8	1.689	2.671	5.0	20.8
4 11	13 15.16	−11 44.4	1.643	2.644	1.3	20.5
4 21	13 6.94	−10 5.0	1.625	2.617	4.6	20.6
5 1	12 59.58	− 8 26.4	1.636	2.589	9.1	20.8
5 11	12 53.95	− 6 57.3	1.670	2.561	13.2	21.0

201142 2002 JY_{105} 4 10.2 281°.36 4°.3/14.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 37.62	−24 14.1	2.080	2.809	15.9	20.5
3 12	13 34.90	−24 0.0	1.963	2.790	13.5	20.3
3 22	13 29.89	−23 22.9	1.865	2.770	10.5	20.0
4 1	13 23.05	−22 21.6	1.791	2.750	7.3	19.8
4 11	13 15.17	−20 58.1	1.743	2.730	4.6	19.6
4 21	13 7.19	−19 17.7	1.723	2.709	5.1	19.6
5 1	13 0.11	−17 28.6	1.730	2.689	8.3	19.7
5 11	12 54.77	−15 40.3	1.764	2.668	11.9	19.9

244041 2001 SD_{328} 4 10.2 225°.58 0°.9/ 9.4 18

3 2	13 41.59	− 6 12.9	2.310	3.097	12.9	20.5
3 12	13 37.39	− 6 5.0	2.216	3.094	10.2	20.3
3 22	13 31.22	− 5 49.4	2.145	3.091	6.9	20.1
4 1	13 23.57	− 5 28.7	2.100	3.089	3.3	19.9
4 11	13 15.14	− 5 6.3	2.085	3.086	1.1	19.7
4 21	13 6.76	− 4 46.0	2.098	3.083	4.5	19.9
5 1	12 59.22	− 4 31.6	2.139	3.079	8.1	20.2
5 11	12 53.20	− 4 26.0	2.205	3.076	11.3	20.4

54929 2001 OZ_{101} 4 10.2 205°.84 5°.5/15.6 18

3 2	13 44.32	−25 50.9	2.347	3.045	15.1	19.2
3 12	13 39.88	−26 20.2	2.240	3.040	13.0	19.0
3 22	13 33.15	−26 31.6	2.152	3.034	10.4	18.8
4 1	13 24.61	−26 23.2	2.088	3.028	7.7	18.7
4 11	13 15.05	−25 54.7	2.050	3.021	5.8	18.5
4 21	13 5.42	−25 8.8	2.041	3.013	5.9	18.5
5 1	12 56.69	−24 10.5	2.059	3.005	8.0	18.6
5 11	12 49.68	−23 6.8	2.103	2.996	10.8	18.8

217901 2001 SJ_{70} 4 10.2 187°.62 2°.7/ 7.2 17

3 2	13 42.11	− 1 43.7	2.531	3.322	11.8	21.8
3 12	13 37.55	− 0 56.6	2.440	3.322	9.2	21.7
3 22	13 31.20	− 0 3.2	2.373	3.320	6.3	21.5
4 1	13 23.51	+ 0 52.2	2.334	3.318	3.5	21.3
4 11	13 15.16	+ 1 44.7	2.324	3.315	3.0	21.2
4 21	13 6.88	+ 2 29.5	2.345	3.312	5.6	21.4
5 1	12 59.39	+ 3 2.8	2.393	3.307	8.6	21.6
5 11	12 53.29	+ 3 22.1	2.466	3.302	11.4	21.8

86254 1999 TV_{188} 4 10.2 244°.31 3°.6/14.1 18

3 2	13 40.70	−21 2.2	2.772	3.492	12.6	20.3
3 12	13 36.59	−21 24.6	2.660	3.482	10.5	20.1
3 22	13 30.66	−21 33.9	2.569	3.471	8.1	19.9
4 1	13 23.31	−21 29.5	2.503	3.460	5.6	19.7
4 11	13 15.17	−21 12.1	2.465	3.449	3.7	19.6
4 21	13 6.96	−20 43.9	2.457	3.438	4.3	19.6
5 1	12 59.42	−20 8.7	2.476	3.427	6.6	19.7
5 11	12 53.19	−19 31.0	2.523	3.415	9.2	19.9

470171 2006 UG_{201} 4 10.2 221°.39 0°.4/10.8 16

3 2	13 38.50	−11 59.8	2.907	3.669	11.1	23.0
3 12	13 34.62	−11 38.3	2.798	3.660	8.9	22.9
3 22	13 29.16	−11 6.4	2.713	3.650	6.2	22.7
4 1	13 22.52	−10 26.0	2.655	3.639	3.2	22.4
4 11	13 15.25	− 9 39.9	2.627	3.629	0.4	22.2
4 21	13 7.97	− 8 51.8	2.629	3.617	3.3	22.4
5 1	13 1.31	− 8 5.9	2.660	3.605	6.4	22.6
5 11	12 55.82	− 7 26.0	2.717	3.593	9.2	22.8

175385 2006 KA_{101} 4 10.2 180°.74 1°.7/ 8.6 18

3 2	13 42.96	− 6 11.8	2.075	2.866	14.1	21.2
3 12	13 38.65	− 5 31.4	1.986	2.867	11.0	21.0
3 22	13 32.18	− 4 40.4	1.920	2.868	7.5	20.7
4 1	13 24.06	− 3 42.8	1.880	2.868	3.6	20.5
4 11	13 15.12	− 2 44.2	1.869	2.868	2.0	20.4
4 21	13 6.27	− 1 50.5	1.886	2.866	5.5	20.6
5 1	12 58.42	− 1 7.0	1.932	2.864	9.3	20.8
5 11	12 52.26	− 0 37.7	2.001	2.862	12.7	21.0

200562 2001 OB_{22} 4 10.2 202°.94 2°.1/ 8.3 17

3 2	13 43.78	− 6 8.1	1.884	2.679	15.1	20.7
3 12	13 39.61	− 5 18.3	1.791	2.675	11.9	20.4
3 22	13 33.02	− 4 15.9	1.720	2.669	8.1	20.2
4 1	13 24.55	− 3 5.4	1.675	2.663	4.0	19.9
4 11	13 15.08	− 1 53.7	1.658	2.656	2.4	19.8
4 21	13 5.65	− 0 47.8	1.670	2.649	6.2	20.0
5 1	12 57.29	+ 0 5.5	1.709	2.640	10.4	20.2
5 11	12 50.81	+ 0 41.8	1.771	2.631	14.1	20.4

367080 2006 QV_{4} 4 10.2 317°.81 0°.3/ 9.9 17

3 2	13 36.36	−10 24.2	1.318	2.141	18.9	20.6
3 12	13 35.00	−10 2.8	1.223	2.120	15.2	20.3
3 22	13 30.60	− 9 21.7	1.146	2.100	10.6	20.0
4 1	13 23.64	− 8 23.2	1.091	2.081	5.3	19.6
4 11	13 15.14	− 7 14.1	1.060	2.062	0.7	19.2
4 21	13 6.46	− 6 3.3	1.053	2.044	6.6	19.6
5 1	12 59.04	− 5 1.2	1.069	2.027	12.3	19.8
5 11	12 54.06	− 4 16.3	1.106	2.010	17.4	20.0

80315 1999 XF_{77} 4 10.2 267°.56 3°.1/ 8.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 42.50	− 4 24.4	1.366	2.190	18.4	19.6
3 12	13 39.46	− 3 42.7	1.287	2.187	14.5	19.4
3 22	13 33.36	− 2 47.7	1.228	2.184	9.8	19.1
4 1	13 24.84	− 1 45.4	1.192	2.181	5.0	18.8
4 11	13 15.05	− 0 44.3	1.181	2.178	3.5	18.7
4 21	13 5.37	+ 0 6.7	1.196	2.176	7.9	18.9
5 1	12 57.13	+ 0 40.3	1.234	2.173	12.8	19.2
5 11	12 51.36	+ 0 52.5	1.293	2.170	17.2	19.4

257440 2010 PF_{65} 4 10.2 255°.38 0°.8/11.1 16

3 2	13 38.27	−12 22.1	2.650	3.417	12.0	21.5
3 12	13 34.64	−12 11.4	2.542	3.406	9.6	21.3
3 22	13 29.29	−11 49.9	2.458	3.395	6.7	21.1
4 1	13 22.63	−11 19.1	2.400	3.383	3.6	20.9
4 11	13 15.25	−10 41.7	2.370	3.372	0.8	20.6
4 21	13 7.86	−10 1.5	2.370	3.360	3.5	20.8
5 1	13 1.13	− 9 22.6	2.399	3.348	6.8	21.0
5 11	12 55.68	− 8 49.1	2.453	3.336	9.8	21.2

169119 2001 OE_{79} 4 10.2 227°.53 0°.9/ 9.2 17

3 2	13 39.55	− 7 12.9	2.527	3.311	12.0	21.1
3 12	13 35.66	− 6 46.3	2.425	3.302	9.5	20.9
3 22	13 29.99	− 6 10.8	2.347	3.293	6.4	20.7
4 1	13 22.97	− 5 29.0	2.295	3.284	3.1	20.5
4 11	13 15.23	− 4 45.0	2.273	3.274	1.1	20.3
4 21	13 7.49	− 4 3.0	2.281	3.264	4.4	20.5
5 1	13 0.48	− 3 27.2	2.316	3.254	7.7	20.7
5 11	12 54.81	− 3 1.3	2.377	3.243	10.7	20.9

83710 2001 TW_{81} 4 10.2 193°.65 2°.6/12.8 18

3 2	13 41.86	−17 8.8	2.481	3.224	13.3	20.3
3 12	13 37.60	−17 26.0	2.380	3.223	10.9	20.1
3 22	13 31.38	−17 30.7	2.302	3.222	8.1	19.9
4 1	13 23.67	−17 22.8	2.249	3.220	5.0	19.7
4 11	13 15.17	−17 3.7	2.225	3.219	2.7	19.6
4 21	13 6.66	−16 36.4	2.229	3.217	4.0	19.6
5 1	12 58.96	−16 5.1	2.262	3.215	7.0	19.8
5 11	12 52.73	−15 34.4	2.321	3.213	10.0	20.0

269491 2009 UR_{25} 4 10.2 153°.98 2°.2/ 7.9 17

3 2	13 40.38	− 5 2.3	2.103	2.902	13.7	21.1
3 12	13 36.55	− 4 12.7	2.021	2.907	10.6	20.9
3 22	13 30.68	− 3 13.3	1.961	2.912	7.2	20.7
4 1	13 23.31	− 2 8.7	1.928	2.916	3.6	20.5
4 11	13 15.21	− 1 5.0	1.924	2.920	2.5	20.4
4 21	13 7.24	− 0 7.9	1.948	2.924	5.7	20.6
5 1	13 0.22	+ 0 37.1	1.999	2.928	9.3	20.9
5 11	12 54.83	+ 1 6.9	2.074	2.931	12.5	21.1

423625 2005 WA_{165} 4 10.2 80°.10 1°.1/11.3 17

3 2	13 40.00	−13 54.3	1.821	2.602	16.1	21.5
3 12	13 36.67	−13 35.2	1.739	2.610	12.9	21.3
3 22	13 30.98	−12 59.4	1.678	2.618	9.1	21.1
4 1	13 23.51	−12 9.1	1.642	2.625	4.8	20.9
4 11	13 15.19	−11 8.9	1.632	2.633	1.1	20.6
4 21	13 7.01	−10 5.3	1.650	2.641	4.6	20.9
5 1	12 59.97	− 9 5.3	1.695	2.649	8.8	21.2
5 11	12 54.81	− 8 15.1	1.763	2.656	12.5	21.4

415098 2012 CR_{6} 4 10.2 95°.35 0°.9/10.9 18

3 2	13 41.87	−13 12.5	1.645	2.433	17.3	21.5
3 12	13 38.36	−12 52.7	1.568	2.443	13.8	21.3
3 22	13 32.25	−12 15.3	1.511	2.453	9.7	21.1
4 1	13 24.17	−11 22.7	1.478	2.463	5.0	20.8
4 11	13 15.14	−10 20.4	1.471	2.473	0.9	20.5
4 21	13 6.31	− 9 15.5	1.491	2.482	5.0	20.9
5 1	12 58.77	− 8 15.6	1.538	2.491	9.5	21.1
5 11	12 53.34	− 7 27.3	1.608	2.501	13.5	21.4

267328 2001 UL_{102} 4 10.2 121°.60 0°.8/ 9.3 18

3 2	13 42.08	− 8 44.1	2.163	2.946	13.8	22.1
3 12	13 37.73	− 8 3.7	2.087	2.963	10.8	21.9
3 22	13 31.39	− 7 11.8	2.034	2.980	7.3	21.7
4 1	13 23.61	− 6 12.2	2.008	2.996	3.5	21.5
4 11	13 15.20	− 5 10.2	2.011	3.012	1.1	21.4
4 21	13 6.99	− 4 11.4	2.043	3.027	4.7	21.7
5 1	12 59.80	− 3 21.1	2.103	3.041	8.3	21.9
5 11	12 54.23	− 2 43.2	2.188	3.055	11.5	22.1

457403 2008 TU_{115} 4 10.2 259°.25 3°.8/13.1 17

3 2	13 43.53	−19 1.5	1.624	2.388	18.5	21.8
3 12	13 40.32	−19 11.1	1.515	2.369	15.4	21.5
3 22	13 34.12	−18 59.6	1.424	2.349	11.6	21.2
4 1	13 25.36	−18 25.0	1.356	2.329	7.4	20.9
4 11	13 15.02	−17 29.1	1.313	2.307	4.0	20.7
4 21	13 4.40	−16 17.0	1.296	2.286	5.8	20.7
5 1	12 54.90	−14 57.6	1.305	2.264	10.4	20.9
5 11	12 47.71	−13 41.4	1.337	2.241	15.0	21.1

97192 1999 WT_{16} 4 10.2 161°.18 0°.7/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 43.31	− 7 0.1	2.406	3.185	12.7	20.2
3 12	13 38.59	− 6 47.5	2.317	3.190	10.0	20.0
3 22	13 31.96	− 6 26.9	2.251	3.195	6.8	19.8
4 1	13 23.91	− 6 0.6	2.212	3.199	3.3	19.6
4 11	13 15.17	− 5 32.2	2.202	3.203	0.9	19.4
4 21	13 6.52	− 5 5.6	2.222	3.207	4.3	19.6
5 1	12 58.74	− 4 44.5	2.271	3.210	7.8	19.9
5 11	12 52.46	− 4 32.0	2.345	3.212	10.8	20.1

56485 2000 GL_{125} 4 10.2 138°.52 4°.3/ 6.2 18

3 2	13 39.82	− 0 38.4	1.765	2.583	15.0	18.8
3 12	13 36.53	+ 0 30.0	1.688	2.585	11.7	18.6
3 22	13 30.89	+ 1 46.9	1.634	2.587	8.1	18.4
4 1	13 23.48	+ 3 5.4	1.605	2.589	4.9	18.2
4 11	13 15.21	+ 4 17.2	1.604	2.591	4.8	18.2
4 21	13 7.09	+ 5 15.0	1.629	2.593	8.0	18.4
5 1	13 0.09	+ 5 53.3	1.680	2.594	11.6	18.6
5 11	12 54.96	+ 6 9.9	1.752	2.596	14.9	18.8

149406 2003 AM_{57} 4 10.2 75°.20 0°.3/10.4 18

3 2	13 44.61	−10 16.7	1.687	2.477	16.8	20.2
3 12	13 40.27	−10 9.9	1.620	2.498	13.3	20.0
3 22	13 33.39	− 9 49.7	1.574	2.519	9.1	19.8
4 1	13 24.66	− 9 18.8	1.553	2.540	4.5	19.6
4 11	13 15.12	− 8 41.7	1.559	2.561	0.4	19.3
4 21	13 5.89	− 8 4.3	1.592	2.581	5.0	19.7
5 1	12 58.03	− 7 32.3	1.651	2.602	9.3	20.0
5 11	12 52.26	− 7 10.2	1.735	2.622	13.0	20.3

278598 2008 OL_{21} 4 10.2 163°.95 3°.1/ 6.6 17

3 2	13 39.50	− 1 44.2	2.348	3.149	12.3	21.4
3 12	13 35.63	− 0 42.0	2.265	3.153	9.6	21.2
3 22	13 29.94	+ 0 27.1	2.207	3.157	6.5	21.0
4 1	13 22.93	+ 1 38.3	2.177	3.161	3.7	20.8
4 11	13 15.27	+ 2 45.6	2.175	3.164	3.5	20.8
4 21	13 7.73	+ 3 43.4	2.202	3.167	6.1	21.0
5 1	13 1.03	+ 4 27.4	2.257	3.169	9.2	21.2
5 11	12 55.77	+ 4 55.1	2.336	3.171	12.0	21.4

169601 2002 GA_{84} 4 10.2 341°.65 3°.7/ 7.3 17

3 2	13 32.68	− 5 30.6	1.140	1.990	19.5	19.3
3 12	13 32.27	− 4 26.4	1.063	1.978	15.3	19.0
3 22	13 28.75	− 3 2.2	1.004	1.967	10.4	18.6
4 1	13 22.71	− 1 26.0	0.966	1.957	5.4	18.3
4 11	13 15.27	+ 0 10.5	0.952	1.949	4.4	18.2
4 21	13 7.87	+ 1 34.2	0.960	1.941	9.2	18.5
5 1	13 1.92	+ 2 34.4	0.990	1.935	14.5	18.7
5 11	12 58.51	+ 3 5.1	1.039	1.931	19.2	19.0

257841 2000 KB_{11} 4 10.2 191°.40 2°.3/ 8.4 17

3 2	13 42.61	− 4 0.3	1.751	2.559	15.6	20.3
3 12	13 38.81	− 3 35.5	1.668	2.559	12.3	20.1
3 22	13 32.53	− 3 1.6	1.607	2.559	8.3	19.8
4 1	13 24.33	− 2 23.0	1.570	2.559	4.2	19.6
4 11	13 15.16	− 1 45.5	1.560	2.558	2.6	19.5
4 21	13 6.09	− 1 14.8	1.578	2.558	6.3	19.7
5 1	12 58.19	− 0 55.9	1.621	2.558	10.5	20.0
5 11	12 52.26	− 0 51.9	1.688	2.558	14.2	20.2

412861 2014 PO_{67} 4 10.2 169°.67 1°.4/11.4 16

3 2	13 45.66	−13 29.6	1.855	2.626	16.2	22.9
3 12	13 41.16	−13 25.9	1.766	2.630	13.1	22.7
3 22	13 34.13	−13 7.0	1.697	2.633	9.3	22.5
4 1	13 25.12	−12 34.1	1.653	2.636	5.0	22.2
4 11	13 15.10	−11 50.8	1.637	2.638	1.4	22.0
4 21	13 5.15	−11 2.4	1.649	2.639	4.7	22.2
5 1	12 56.38	−10 15.4	1.688	2.640	9.0	22.5
5 11	12 49.62	− 9 36.0	1.752	2.640	12.8	22.7

92888 2000 QU_{230} 4 10.2 259°.85 1°.8/ 8.7 18

3 2	13 44.71	− 3 52.0	2.060	2.853	14.1	20.1
3 12	13 40.29	− 3 40.2	1.953	2.836	11.2	19.9
3 22	13 33.52	− 3 21.2	1.869	2.817	7.6	19.7
4 1	13 24.86	− 2 58.0	1.811	2.799	3.8	19.4
4 11	13 15.12	− 2 34.9	1.781	2.780	2.1	19.2
4 21	13 5.26	− 2 16.5	1.780	2.761	5.7	19.4
5 1	12 56.29	− 2 7.0	1.806	2.741	9.7	19.6
5 11	12 49.07	− 2 9.4	1.856	2.721	13.3	19.8

496852 1999 VD_{41} 4 10.2 192°.57 0°.2/10.0 17

3 2	13 41.69	− 9 3.4	2.216	2.998	13.6	22.2
3 12	13 37.59	− 8 49.5	2.123	2.997	10.8	22.0
3 22	13 31.44	− 8 25.2	2.052	2.995	7.4	21.8
4 1	13 23.73	− 7 52.7	2.007	2.994	3.6	21.5
4 11	13 15.22	− 7 16.0	1.990	2.992	0.5	21.3
4 21	13 6.76	− 6 39.5	2.002	2.990	4.4	21.6
5 1	12 59.19	− 6 7.8	2.043	2.987	8.1	21.8
5 11	12 53.21	− 5 44.9	2.108	2.985	11.5	22.0

262728 2006 XE_{33} 4 10.2 72°.68 2°.3/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 43.32	− 3 57.5	1.654	2.464	16.3	20.6
3 12	13 39.38	− 3 33.0	1.582	2.474	12.7	20.4
3 22	13 32.88	− 2 59.5	1.531	2.484	8.6	20.2
4 1	13 24.47	− 2 21.6	1.505	2.494	4.3	20.0
4 11	13 15.17	− 1 45.4	1.506	2.504	2.6	19.9
4 21	13 6.09	− 1 16.7	1.533	2.514	6.4	20.1
5 1	12 58.32	− 1 0.2	1.587	2.524	10.6	20.4
5 11	12 52.62	− 0 58.8	1.663	2.534	14.3	20.6

385306 2001 VJ_{89} 4 10.2 144°.74 3°.5/13.9 18

3 2	13 40.46	−20 25.7	2.459	3.190	13.7	21.1
3 12	13 36.53	−20 40.2	2.363	3.194	11.4	20.9
3 22	13 30.67	−20 39.9	2.288	3.197	8.7	20.7
4 1	13 23.34	−20 24.5	2.237	3.200	5.8	20.5
4 11	13 15.26	−19 55.3	2.215	3.203	3.6	20.4
4 21	13 7.21	−19 15.7	2.220	3.205	4.3	20.4
5 1	12 59.99	−18 30.3	2.254	3.208	6.9	20.6
5 11	12 54.25	−17 44.5	2.314	3.210	9.8	20.8

379337 2009 WK_{83} 4 10.2 174°.48 2°.4/ 8.2 17

3 2	13 44.90	− 1 56.6	2.040	2.837	14.1	21.4
3 12	13 40.21	− 1 41.2	1.954	2.838	11.0	21.2
3 22	13 33.27	− 1 20.2	1.890	2.839	7.5	21.0
4 1	13 24.64	− 0 57.4	1.853	2.840	3.9	20.8
4 11	13 15.16	− 0 37.3	1.844	2.841	2.7	20.7
4 21	13 5.77	− 0 24.1	1.864	2.841	5.9	20.9
5 1	12 57.43	− 0 21.3	1.911	2.841	9.6	21.1
5 11	12 50.85	− 0 30.9	1.982	2.840	12.9	21.3

412853 2014 PQ_{56} 4 10.2 157°.10 1°.9/11.9 16

3 2	13 46.30	−15 20.0	2.235	2.983	14.4	23.1
3 12	13 41.17	−15 19.5	2.144	2.993	11.7	22.9
3 22	13 33.85	−15 5.1	2.075	3.002	8.4	22.8
4 1	13 24.90	−14 37.5	2.032	3.010	4.8	22.5
4 11	13 15.14	−13 59.5	2.018	3.017	1.9	22.4
4 21	13 5.48	−13 15.4	2.034	3.023	4.1	22.5
5 1	12 56.83	−12 30.3	2.078	3.029	7.7	22.7
5 11	12 49.91	−11 49.7	2.149	3.033	11.0	23.0

155611 2000 DA_{107} 4 10.2 56°.86 4°.7/ 6.9 18

3 2	13 42.25	− 1 31.4	1.262	2.097	18.9	19.6
3 12	13 39.26	− 0 33.7	1.200	2.105	14.8	19.3
3 22	13 33.16	+ 0 34.7	1.157	2.115	10.1	19.1
4 1	13 24.70	+ 1 45.2	1.137	2.124	5.8	18.9
4 11	13 15.16	+ 2 47.7	1.142	2.134	5.2	18.9
4 21	13 5.94	+ 3 33.4	1.171	2.144	9.1	19.1
5 1	12 58.36	+ 3 56.3	1.223	2.154	13.6	19.4
5 11	12 53.32	+ 3 54.5	1.295	2.164	17.7	19.7

344415 2002 BO_{28} 4 10.2 123°.29 6°.0/ 2.6 17

3 2	13 41.48	+13 25.8	2.842	3.639	10.5	20.9
3 12	13 36.73	+14 20.4	2.783	3.654	8.6	20.8
3 22	13 30.44	+15 10.8	2.749	3.669	6.9	20.7
4 1	13 23.09	+15 51.8	2.742	3.684	6.0	20.7
4 11	13 15.30	+16 19.2	2.763	3.698	6.5	20.7
4 21	13 7.71	+16 30.3	2.812	3.712	8.0	20.9
5 1	13 0.92	+16 24.0	2.887	3.725	9.8	21.0
5 11	12 55.42	+16 1.0	2.984	3.738	11.5	21.1

238701 2005 EE_{327} 4 10.2 20°.04 0°.5/10.7 17

3 2	13 38.89	−11 34.6	2.006	2.792	14.7	20.8
3 12	13 35.62	−11 20.1	1.918	2.793	11.7	20.6
3 22	13 30.20	−10 52.3	1.852	2.795	8.1	20.3
4 1	13 23.16	−10 13.4	1.810	2.796	4.1	20.1
4 11	13 15.29	− 9 27.5	1.796	2.798	0.5	19.8
4 21	13 7.50	− 8 39.9	1.810	2.800	4.4	20.1
5 1	13 0.69	− 7 56.1	1.851	2.802	8.3	20.4
5 11	12 55.55	− 7 21.2	1.916	2.805	11.9	20.6

145173 2005 JX_{4} 4 10.2 248°.81 3°.1/ 7.3 17

3 2	13 40.20	− 3 58.3	1.815	2.625	15.0	20.8
3 12	13 36.95	− 2 58.5	1.721	2.614	11.8	20.6
3 22	13 31.31	− 1 46.6	1.649	2.603	8.0	20.3
4 1	13 23.78	− 0 28.2	1.603	2.591	4.3	20.1
4 11	13 15.24	+ 0 49.0	1.584	2.579	3.5	20.0
4 21	13 6.68	+ 1 57.3	1.593	2.566	7.1	20.2
5 1	12 59.15	+ 2 49.9	1.628	2.554	11.2	20.4
5 11	12 53.46	+ 3 22.5	1.685	2.541	14.9	20.6

499494 2010 MM_{72} 4 10.2 256°.57 0°.9/10.9 17

3 2	13 42.04	−12 57.4	1.813	2.595	16.2	22.3
3 12	13 38.62	−12 40.2	1.706	2.578	13.1	22.1
3 22	13 32.62	−12 6.1	1.619	2.560	9.3	21.8
4 1	13 24.51	−11 16.7	1.557	2.542	4.9	21.5
4 11	13 15.17	−10 16.0	1.522	2.523	0.9	21.2
4 21	13 5.68	− 9 10.3	1.514	2.504	5.0	21.4
5 1	12 57.19	− 8 7.3	1.533	2.485	9.7	21.6
5 11	12 50.65	− 7 14.3	1.575	2.465	14.0	21.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
219674 2001 VV_{91}			4 10.2 105°.05		1°.4/ 8.7 18	
	h m	° ′			°	m
3 2	13 39.81	− 9 5.0	1.962	2.754	14.7	20.6
3 12	13 36.18	− 7 57.8	1.888	2.771	11.5	20.4
3 22	13 30.45	− 6 36.5	1.838	2.787	7.7	20.2
4 1	13 23.21	− 5 6.2	1.813	2.802	3.6	20.0
4 11	13 15.30	− 3 34.3	1.818	2.818	1.7	19.9
4 21	13 7.62	− 2 8.2	1.851	2.833	5.4	20.1
5 1	13 1.01	− 0 54.7	1.912	2.847	9.2	20.4
5 11	12 56.10	+ 0 1.6	1.997	2.861	12.5	20.6
221310 2005 VZ_{15}			4 10.2 265°.66		7°.5/16.3 17	
3 2	13 44.07	−27 33.2	1.961	2.665	17.5	20.6
3 12	13 40.41	−28 29.1	1.852	2.651	15.3	20.4
3 22	13 34.00	−29 5.6	1.761	2.637	12.6	20.2
4 1	13 25.27	−29 18.6	1.691	2.622	9.9	20.0
4 11	13 15.11	−29 6.0	1.646	2.608	7.8	19.8
4 21	13 4.69	−28 29.1	1.627	2.593	7.8	19.8
5 1	12 55.28	−27 33.3	1.634	2.577	9.9	19.9
5 11	12 47.95	−26 26.9	1.664	2.562	12.9	20.0
497946 2006 WY_{147}			4 10.2 150°.94		4°.5/ 4.9 17	
3 2	13 40.98	+ 6 56.8	2.735	3.536	10.8	22.0
3 12	13 36.47	+ 7 36.7	2.659	3.541	8.5	21.9
3 22	13 30.36	+ 8 16.2	2.607	3.546	6.3	21.7
4 1	13 23.11	+ 8 50.8	2.583	3.551	4.7	21.6
4 11	13 15.32	+ 9 16.3	2.588	3.556	4.9	21.6
4 21	13 7.67	+ 9 29.5	2.621	3.561	6.7	21.8
5 1	13 0.78	+ 9 28.4	2.682	3.565	9.0	21.9
5 11	12 55.18	+ 9 12.8	2.766	3.569	11.2	22.1
110367 2001 SE_{327}			4 10.2 265°.95		4°.8/15.1 17	
3 2	13 38.92	−24 40.3	1.888	2.621	17.2	20.1
3 12	13 36.17	−24 33.6	1.781	2.609	14.6	19.9
3 22	13 30.92	−24 2.4	1.692	2.597	11.5	19.6
4 1	13 23.65	−23 5.3	1.627	2.584	8.0	19.4
4 11	13 15.27	−21 44.0	1.586	2.571	5.2	19.2
4 21	13 6.82	−20 4.3	1.573	2.558	5.6	19.2
5 1	12 59.43	−18 15.2	1.586	2.546	8.8	19.3
5 11	12 53.98	−16 27.1	1.625	2.532	12.5	19.5
407916 2012 CA_{9}			4 10.2 99°.84		1°.2/ 9.2 18	
3 2	13 43.40	− 7 54.1	1.702	2.501	16.4	22.0
3 12	13 39.33	− 7 17.5	1.633	2.517	12.8	21.8
3 22	13 32.78	− 6 27.9	1.584	2.534	8.7	21.6
4 1	13 24.41	− 5 29.9	1.561	2.550	4.1	21.4
4 11	13 15.22	− 4 29.7	1.565	2.566	1.5	21.2
4 21	13 6.32	− 3 34.4	1.596	2.581	5.7	21.5
5 1	12 58.71	− 2 50.1	1.654	2.596	9.9	21.8
5 11	12 53.14	− 2 21.0	1.736	2.611	13.6	22.1
214139 2005 AW_{46}			4 10.2 8°.16		3°.6/ 7.8 18	
3 2	13 37.44	− 3 32.9	1.143	1.989	19.7	19.8
3 12	13 35.89	− 2 54.7	1.077	1.989	15.5	19.5
3 22	13 31.11	− 2 3.3	1.030	1.991	10.5	19.2
4 1	13 23.82	− 1 6.1	1.004	1.994	5.5	19.0
4 11	13 15.27	− 0 12.6	1.001	1.998	4.1	18.9
4 21	13 6.94	+ 0 28.0	1.022	2.004	8.6	19.1
5 1	13 0.24	+ 0 48.5	1.064	2.010	13.6	19.4
5 11	12 56.15	+ 0 45.9	1.126	2.018	18.1	19.7
357082 2001 SB_{41}			4 10.2 158°.82		0°.7/ 9.7 18	
3 2	13 47.65	− 7 56.3	1.886	2.669	15.6	21.8
3 12	13 42.56	− 7 41.6	1.802	2.677	12.3	21.6
3 22	13 34.99	− 7 15.7	1.740	2.684	8.4	21.3
4 1	13 25.53	− 6 41.6	1.703	2.691	4.1	21.1
4 11	13 15.14	− 6 3.9	1.694	2.696	0.9	20.8
4 21	13 4.89	− 5 27.9	1.715	2.701	5.2	21.2
5 1	12 55.83	− 4 58.8	1.763	2.705	9.4	21.4
5 11	12 48.77	− 4 40.7	1.835	2.708	13.1	21.6
474209 2000 SE_{302}			4 10.2 225°.59		1°.0/11.4 18	
3 2	13 42.30	−12 23.0	3.109	3.858	10.8	22.5
3 12	13 37.53	−12 27.9	2.994	3.846	8.6	22.3
3 22	13 31.17	−12 24.5	2.902	3.833	6.1	22.1
4 1	13 23.57	−12 13.4	2.839	3.820	3.3	21.9
4 11	13 15.30	−11 56.5	2.805	3.806	1.0	21.7
4 21	13 6.97	−11 36.1	2.803	3.792	3.1	21.8
5 1	12 59.22	−11 15.4	2.830	3.777	6.0	22.0
5 11	12 52.61	−10 57.5	2.885	3.761	8.7	22.2
254073 2004 HU_{52}			4 10.2 270°.42		6°.3/16.0 18	
3 2	13 37.38	−29 11.2	1.218	1.972	24.0	20.5
3 12	13 36.37	−28 36.8	1.124	1.962	20.7	20.2
3 22	13 31.83	−27 17.5	1.044	1.953	16.5	19.9
4 1	13 24.35	−25 7.9	0.983	1.943	11.6	19.6
4 11	13 15.22	−22 11.2	0.946	1.933	7.2	19.3
4 21	13 6.10	−18 40.3	0.933	1.924	7.1	19.3
5 1	12 58.67	−14 57.7	0.945	1.914	11.8	19.5
5 11	12 54.16	−11 27.5	0.981	1.904	17.2	19.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
165176 2000 QU_{154}			4 10.2 278°.48		3°.7/13.1 17	
	h m	° ′			°	m
3 2	13 40.32	−19 7.9	1.542	2.316	18.9	20.2
3 12	13 37.83	−19 11.2	1.441	2.301	15.7	20.0
3 22	13 32.40	−18 51.6	1.359	2.287	11.8	19.7
4 1	13 24.53	−18 7.9	1.298	2.272	7.4	19.4
4 11	13 15.21	−17 2.4	1.262	2.257	3.9	19.1
4 21	13 5.73	−15 41.6	1.251	2.243	5.7	19.2
5 1	12 57.46	−14 15.2	1.266	2.228	10.3	19.4
5 11	12 51.51	−12 54.1	1.304	2.213	14.9	19.6
359024 2008 UW_{370}			4 10.2 122°.56		1°.3/11.2 18	
3 2	13 48.67	−12 18.9	1.810	2.580	16.6	20.8
3 12	13 43.44	−12 27.7	1.733	2.597	13.3	20.6
3 22	13 35.61	−12 22.9	1.676	2.612	9.3	20.4
4 1	13 25.83	−12 5.6	1.644	2.627	5.0	20.2
4 11	13 15.12	−11 39.1	1.641	2.642	1.3	20.0
4 21	13 4.64	−11 8.2	1.665	2.655	4.7	20.2
5 1	12 55.47	−10 38.4	1.718	2.669	8.9	20.5
5 11	12 48.43	−10 14.9	1.795	2.681	12.7	20.8
501118 2013 TM_{18}			4 10.3 232°.85		1°.0/11.2 17	
3 2	13 41.71	−13 21.2	2.178	2.946	14.2	22.8
3 12	13 37.82	−13 8.1	2.072	2.935	11.5	22.6
3 22	13 31.75	−12 41.0	1.987	2.923	8.1	22.4
4 1	13 23.99	−12 1.2	1.928	2.911	4.4	22.1
4 11	13 15.27	−11 12.2	1.897	2.899	1.0	21.9
4 21	13 6.50	−10 18.7	1.896	2.886	4.2	22.1
5 1	12 58.60	− 9 26.7	1.922	2.872	8.2	22.3
5 11	12 52.32	− 8 41.6	1.973	2.858	11.7	22.5
275884 2001 TP_{22}			4 10.3 112°.78		0°.6/10.9 18	
3 2	13 43.32	−13 5.1	2.273	3.036	13.8	22.6
3 12	13 38.60	−12 36.3	2.199	3.060	11.0	22.4
3 22	13 31.94	−11 54.2	2.147	3.083	7.6	22.3
4 1	13 23.91	−11 1.4	2.122	3.106	3.9	22.1
4 11	13 15.29	−10 2.3	2.126	3.128	0.6	21.8
4 21	13 6.92	− 9 1.9	2.160	3.149	3.9	22.1
5 1	12 59.55	− 8 5.8	2.222	3.169	7.4	22.4
5 11	12 53.79	− 7 18.6	2.311	3.189	10.5	22.6
200079 1138 $T\text{-}_{3}$			4 10.3 274°.90		4°.0/13.0 18	
3 2	13 46.34	−17 35.6	2.017	2.764	15.9	20.4
3 12	13 41.91	−18 23.8	1.907	2.749	13.2	20.2
3 22	13 34.87	−18 59.5	1.817	2.734	10.0	19.9
4 1	13 25.66	−19 20.7	1.752	2.719	6.6	19.7
4 11	13 15.13	−19 27.1	1.713	2.703	4.1	19.5
4 21	13 4.35	−19 20.4	1.703	2.688	5.4	19.5
5 1	12 54.50	−19 4.8	1.720	2.673	8.8	19.7
5 11	12 46.54	−18 45.9	1.763	2.657	12.4	19.9
348824 2006 RX_{50}			4 10.3 199°.27		0°.3/ 9.9 17	
3 2	13 37.14	−10 31.0	2.522	3.301	12.2	21.7
3 12	13 33.78	− 9 49.7	2.426	3.299	9.6	21.5
3 22	13 28.72	− 8 56.7	2.353	3.297	6.6	21.3
4 1	13 22.39	− 7 54.6	2.307	3.295	3.2	21.1
4 11	13 15.42	− 6 48.2	2.291	3.293	0.5	20.9
4 21	13 8.51	− 5 42.3	2.304	3.290	4.0	21.2
5 1	13 2.34	− 4 42.1	2.345	3.287	7.4	21.4
5 11	12 57.48	− 3 52.1	2.412	3.284	10.4	21.6
130515 2000 QC_{165}			4 10.3 163°.00		2°.8/12.7 18	
3 2	13 43.40	−18 4.5	1.804	2.564	17.0	19.9
3 12	13 39.53	−17 56.8	1.715	2.568	13.9	19.7
3 22	13 33.10	−17 29.3	1.646	2.572	10.2	19.5
4 1	13 24.68	−16 42.5	1.600	2.576	6.2	19.3
4 11	13 15.23	−15 40.0	1.581	2.578	2.9	19.0
4 21	13 5.89	−14 27.9	1.590	2.581	4.8	19.2
5 1	12 57.74	−13 14.1	1.626	2.583	8.9	19.4
5 11	12 51.63	−12 6.8	1.687	2.584	12.8	19.6
299371 2005 UD_{217}			4 10.3 203°.75		1°.4/ 8.8 17	
3 2	13 41.77	− 3 52.4	2.629	3.414	11.6	20.5
3 12	13 37.28	− 3 44.0	2.534	3.412	9.1	20.3
3 22	13 31.05	− 3 30.4	2.463	3.410	6.2	20.1
4 1	13 23.52	− 3 14.0	2.420	3.408	3.0	19.9
4 11	13 15.34	− 2 57.9	2.406	3.405	1.6	19.8
4 21	13 7.19	− 2 45.4	2.422	3.403	4.4	20.0
5 1	12 59.80	− 2 39.3	2.467	3.400	7.5	20.2
5 11	12 53.73	− 2 41.8	2.537	3.397	10.3	20.3
310916 2003 SR_{97}			4 10.3 113°.41		0°.1/10.1 18	
3 2	13 44.99	−10 5.7	1.774	2.560	16.3	22.5
3 12	13 40.53	− 9 44.5	1.700	2.576	12.9	22.3
3 22	13 33.59	− 9 9.7	1.648	2.592	8.8	22.1
4 1	13 24.83	− 8 24.3	1.620	2.608	4.3	21.8
4 11	13 15.23	− 7 33.6	1.620	2.622	0.4	21.5
4 21	13 5.89	− 6 43.7	1.649	2.637	5.0	21.9
5 1	12 57.82	− 6 0.7	1.704	2.651	9.3	22.2
5 11	12 51.77	− 5 29.5	1.783	2.664	13.0	22.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
252500 2001 UA_{130}			4 10.3 320°89		1°2/ 8.9 17	
	h m	° ′			°	m
3 2	13 35.95	− 8 35.5	2.097	2.895	13.7	20.2
3 12	13 33.23	− 7 42.2	2.005	2.891	10.7	20.0
3 22	13 28.54	− 6 35.6	1.936	2.886	7.3	19.8
4 1	13 22.36	− 5 19.8	1.893	2.882	3.5	19.5
4 11	13 15.43	− 4 0.7	1.878	2.878	1.5	19.4
4 21	13 8.54	− 2 45.1	1.891	2.874	5.1	19.6
5 1	13 2.53	− 1 39.4	1.931	2.870	8.9	19.8
5 11	12 58.04	− 0 48.3	1.995	2.866	12.3	20.0
522617 2016 FR_{65}			4 10.3 178°56		7°1/ 2.9 17	
3 2	13 40.96	+ 7 47.0	1.903	2.723	14.1	21.2
3 12	13 37.28	+ 9 17.7	1.832	2.724	11.3	21.0
3 22	13 31.35	+10 50.0	1.784	2.724	8.6	20.8
4 1	13 23.74	+12 15.1	1.763	2.725	7.1	20.7
4 11	13 15.32	+13 24.4	1.768	2.725	7.8	20.8
4 21	13 7.05	+14 11.6	1.800	2.724	10.2	20.9
5 1	12 59.86	+14 33.4	1.855	2.724	13.0	21.1
5 11	12 54.46	+14 29.7	1.931	2.723	15.7	21.3
145388 2005 NP_{24}			4 10.3 338°55		1°2/11.2 17	
3 2	13 39.01	−13 23.9	1.533	2.330	17.9	20.4
3 12	13 36.53	−13 11.9	1.446	2.326	14.4	20.1
3 22	13 31.29	−12 41.2	1.378	2.322	10.2	19.9
4 1	13 23.88	−11 53.6	1.334	2.319	5.4	19.6
4 11	13 15.30	−10 53.9	1.314	2.316	1.2	19.3
4 21	13 6.76	− 9 49.6	1.321	2.313	5.3	19.6
5 1	12 59.46	− 8 49.0	1.353	2.311	10.1	19.8
5 11	12 54.35	− 7 59.8	1.407	2.309	14.5	20.1
38184 1999 KF			4 10.3 233°28		1°0/ 9.4 18	
3 2	13 43.77	− 8 5.6	1.974	2.762	14.8	19.7
3 12	13 39.67	− 7 34.7	1.870	2.748	11.8	19.5
3 22	13 33.16	− 6 51.1	1.787	2.733	8.1	19.2
4 1	13 24.74	− 5 57.8	1.730	2.718	3.9	18.9
4 11	13 15.24	− 5 0.1	1.701	2.702	1.3	18.7
4 21	13 5.65	− 4 4.0	1.701	2.685	5.4	18.9
5 1	12 57.01	− 3 15.9	1.728	2.668	9.7	19.2
5 11	12 50.17	− 2 40.9	1.779	2.649	13.6	19.3
279443 2010 RZ_{45}			4 10.3 177°73		0°7/ 9.5 16	
3 2	13 42.04	− 9 38.1	1.993	2.779	14.8	21.6
3 12	13 38.09	− 8 56.8	1.904	2.781	11.6	21.4
3 22	13 31.91	− 8 1.7	1.836	2.782	8.0	21.2
4 1	13 24.03	− 6 56.2	1.795	2.783	3.8	20.9
4 11	13 15.31	− 5 46.1	1.782	2.783	1.0	20.7
4 21	13 6.67	− 4 37.8	1.797	2.783	5.1	21.0
5 1	12 59.05	− 3 38.1	1.841	2.782	9.1	21.3
5 11	12 53.19	− 2 51.8	1.908	2.780	12.7	21.5
467749 2009 SC_{189}			4 10.3 254°22		4°0/13.1 17	
3 2	13 47.17	−17 48.8	1.984	2.730	16.1	21.4
3 12	13 42.60	−18 34.0	1.876	2.717	13.4	21.2
3 22	13 35.36	−19 5.8	1.787	2.704	10.2	21.0
4 1	13 25.92	−19 22.5	1.723	2.690	6.7	20.7
4 11	13 15.14	−19 23.7	1.686	2.676	4.1	20.5
4 21	13 4.13	−19 11.6	1.677	2.662	5.4	20.6
5 1	12 54.09	−18 50.4	1.696	2.648	8.9	20.8
5 11	12 46.00	−18 26.5	1.739	2.633	12.6	21.0
347834 2002 PL_{72}			4 10.3 180°23		4°8/16.7 18	
3 2	13 41.31	−28 14.3	2.979	3.650	12.7	22.2
3 12	13 36.96	−28 24.2	2.872	3.651	10.9	22.1
3 22	13 30.87	−28 17.6	2.786	3.652	8.9	21.9
4 1	13 23.45	−27 53.5	2.724	3.652	6.7	21.8
4 11	13 15.36	−27 12.4	2.689	3.652	5.1	21.7
4 21	13 7.29	−26 17.1	2.684	3.651	5.0	21.7
5 1	12 59.97	−25 11.8	2.707	3.649	6.5	21.8
5 11	12 53.96	−24 2.1	2.757	3.647	8.6	21.9
210532 Grantmckee			4 10.3 90°87		0°2/10.4 17	
3 2	13 41.18	− 9 52.3	2.222	3.001	13.6	21.1
3 12	13 37.13	− 9 46.1	2.138	3.010	10.8	20.9
3 22	13 31.09	− 9 29.6	2.076	3.018	7.4	20.7
4 1	13 23.58	− 9 4.9	2.040	3.027	3.7	20.5
4 11	13 15.36	− 8 35.3	2.033	3.035	0.3	20.2
4 21	13 7.25	− 8 5.0	2.054	3.043	4.1	20.6
5 1	13 0.07	− 7 38.3	2.103	3.051	7.7	20.8
5 11	12 54.45	− 7 19.1	2.178	3.059	11.0	21.0
373488 2000 VZ_{54}			4 10.3 138°63		1°9/ 8.4 17	
3 2	13 44.54	− 3 22.5	2.348	3.134	12.8	21.5
3 12	13 39.54	− 3 1.3	2.267	3.146	10.0	21.3
3 22	13 32.61	− 2 34.0	2.211	3.158	6.7	21.1
4 1	13 24.28	− 2 4.0	2.182	3.169	3.4	20.9
4 11	13 15.31	− 1 35.4	2.182	3.179	2.1	20.9
4 21	13 6.50	− 1 12.3	2.211	3.189	5.0	21.1
5 1	12 58.63	− 0 57.8	2.270	3.198	8.3	21.3
5 11	12 52.30	− 0 54.3	2.353	3.207	11.3	21.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
83655 2001 TA_{12}			4 10.3 156°36		0°4/10.7 18	
	h m	° ′			°	m
3 2	13 40.59	−10 55.6	2.681	3.447	11.9	20.2
3 12	13 36.33	−10 46.3	2.589	3.453	9.4	20.1
3 22	13 30.39	−10 27.6	2.519	3.458	6.5	19.9
4 1	13 23.20	−10 1.0	2.477	3.462	3.3	19.7
4 11	13 15.39	− 9 29.5	2.464	3.466	0.4	19.4
4 21	13 7.66	− 8 56.6	2.481	3.470	3.5	19.7
5 1	13 0.67	− 8 26.0	2.527	3.474	6.7	19.9
5 11	12 54.98	− 8 1.2	2.599	3.477	9.5	20.1
514082 2014 UG_{98}			4 10.3 234°46		0°9/ 8.3 18	
3 2	13 30.97	− 4 40.9	4.747	5.530	6.8	21.7
3 12	13 28.15	− 4 11.6	4.647	5.525	5.3	21.6
3 22	13 24.48	− 3 38.5	4.573	5.520	3.5	21.4
4 1	13 20.21	− 3 3.3	4.528	5.515	1.7	21.3
4 11	13 15.65	− 2 28.2	4.513	5.511	1.1	21.2
4 21	13 11.11	− 1 55.3	4.528	5.506	2.7	21.4
5 1	13 6.90	− 1 26.5	4.573	5.501	4.5	21.5
5 11	13 3.32	− 1 3.5	4.645	5.496	6.2	21.6
83225 2001 RS_{33}			4 10.3 144°76		1°2/11.6 18	
3 2	13 39.03	−14 22.3	2.341	3.106	13.4	20.1
3 12	13 35.43	−14 7.3	2.249	3.109	10.8	19.9
3 22	13 29.94	−13 38.8	2.179	3.113	7.7	19.7
4 1	13 23.03	−12 58.5	2.134	3.115	4.2	19.5
4 11	13 15.42	−12 9.6	2.118	3.118	1.3	19.3
4 21	13 7.87	−11 16.7	2.130	3.121	3.8	19.5
5 1	13 1.17	−10 25.1	2.171	3.123	7.2	19.7
5 11	12 55.94	− 9 39.7	2.237	3.126	10.4	19.9
365078 2009 BS_{36}			4 10.3 23°63		0°2/10.4 18	
3 2	13 42.26	− 9 46.5	1.324	2.138	19.4	21.0
3 12	13 39.40	− 9 45.9	1.250	2.141	15.4	20.8
3 22	13 33.42	− 9 29.7	1.194	2.145	10.7	20.5
4 1	13 24.97	− 9 0.1	1.160	2.149	5.3	20.2
4 11	13 15.27	− 8 22.8	1.152	2.154	0.4	19.9
4 21	13 5.72	− 7 44.7	1.168	2.159	6.0	20.3
5 1	12 57.71	− 7 13.2	1.208	2.164	11.2	20.6
5 11	12 52.23	− 6 54.4	1.269	2.170	15.8	20.9
502971 2015 FM_{21}			4 10.3 159°17		6°0/ 3.6 18	
3 2	13 40.71	+ 8 44.0	2.320	3.130	12.2	20.7
3 12	13 36.62	+ 9 48.3	2.248	3.134	9.8	20.6
3 22	13 30.67	+10 51.8	2.201	3.137	7.4	20.4
4 1	13 23.35	+11 48.4	2.179	3.140	6.0	20.3
4 11	13 15.41	+12 32.1	2.186	3.143	6.5	20.4
4 21	13 7.61	+12 58.5	2.219	3.145	8.5	20.5
5 1	13 0.70	+13 5.3	2.278	3.147	10.9	20.7
5 11	12 55.28	+12 52.6	2.359	3.149	13.3	20.8
291708 2006 JT_{11}			4 10.3 279°63		5°4/ 6.1 17	
3 2	13 42.15	+ 1 27.6	1.526	2.352	16.6	20.5
3 12	13 39.00	+ 2 23.5	1.440	2.340	13.2	20.2
3 22	13 33.02	+ 3 27.1	1.374	2.328	9.3	19.9
4 1	13 24.78	+ 4 31.0	1.333	2.315	6.0	19.7
4 11	13 15.29	+ 5 26.1	1.317	2.303	5.9	19.7
4 21	13 5.79	+ 6 4.4	1.327	2.290	9.4	19.8
5 1	12 57.53	+ 6 20.3	1.360	2.278	13.6	20.0
5 11	12 51.49	+ 6 11.8	1.414	2.266	17.4	20.2
244754 2003 SE_{62}			4 10.3 177°80		3°3/13.9 17	
3 2	13 41.06	−20 48.4	2.426	3.155	13.9	21.5
3 12	13 37.07	−20 51.1	2.327	3.157	11.6	21.3
3 22	13 31.11	−20 37.6	2.248	3.158	8.8	21.2
4 1	13 23.64	−20 7.9	2.195	3.158	5.8	21.0
4 11	13 15.39	−19 23.9	2.169	3.158	3.5	20.8
4 21	13 7.17	−18 29.4	2.172	3.158	4.2	20.9
5 1	12 59.81	−17 29.6	2.204	3.158	7.0	21.0
5 11	12 53.96	−16 30.8	2.261	3.157	10.0	21.2
503200 2015 HV_{14}			4 10.3 240°80		4°6/ 5.0 17	
3 2	13 38.82	+ 4 35.1	2.427	3.236	11.7	21.1
3 12	13 35.14	+ 5 28.3	2.342	3.231	9.2	20.9
3 22	13 29.68	+ 6 23.7	2.280	3.226	6.7	20.7
4 1	13 22.90	+ 7 16.2	2.246	3.220	4.8	20.6
4 11	13 15.45	+ 8 0.3	2.240	3.215	5.0	20.6
4 21	13 8.07	+ 8 31.5	2.262	3.209	7.2	20.7
5 1	13 1.47	+ 8 46.6	2.311	3.203	9.9	20.9
5 11	12 56.25	+ 8 44.7	2.382	3.197	12.4	21.0
198688 2005 CJ_{18}			4 10.3 87°96		0°5/10.8 17	
3 2	13 39.66	−11 58.3	2.044	2.825	14.6	20.9
3 12	13 36.18	−11 40.3	1.957	2.829	11.6	20.7
3 22	13 30.59	−11 8.7	1.892	2.834	8.1	20.5
4 1	13 23.40	−10 25.8	1.853	2.838	4.1	20.3
4 11	13 15.41	− 9 35.7	1.841	2.843	0.5	20.0
4 21	13 7.53	− 8 43.9	1.857	2.847	4.3	20.3
5 1	13 0.62	− 7 56.1	1.901	2.851	8.2	20.5
5 11	12 55.38	− 7 17.3	1.969	2.856	11.7	20.8

387323 2012 VG_{74} 4 10.3 256°.56 0°.7/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 38.67	− 8 24.5	2.258	3.046	13.1	21.4
3 12	13 35.26	− 7 54.7	2.158	3.037	10.4	21.1
3 22	13 29.92	− 7 13.8	2.082	3.029	7.1	20.9
4 1	13 23.07	− 6 24.8	2.031	3.020	3.4	20.7
4 11	13 15.44	− 5 32.2	2.010	3.011	1.0	20.5
4 21	13 7.81	− 4 41.1	2.016	3.002	4.6	20.7
5 1	13 0.98	− 3 56.7	2.051	2.992	8.3	20.9
5 11	12 55.64	− 3 23.2	2.110	2.983	11.6	21.1

491681 2012 UY_{35} 4 10.3 209°.34 0°.1/10.4 17

3 2	13 39.28	−10 47.7	2.504	3.277	12.4	22.3
3 12	13 35.52	−10 24.1	2.404	3.273	9.9	22.1
3 22	13 29.96	− 9 49.4	2.327	3.268	6.8	21.9
4 1	13 23.05	− 9 5.8	2.277	3.263	3.4	21.7
4 11	13 15.45	− 8 16.9	2.256	3.258	0.2	21.4
4 21	13 7.86	− 7 27.2	2.264	3.253	3.9	21.7
5 1	13 1.02	− 6 41.4	2.301	3.247	7.3	21.9
5 11	12 55.55	− 6 3.6	2.364	3.241	10.4	22.1

93765 2000 WB_{21} 4 10.3 144°.15 1°.6/11.9 18

3 2	13 41.34	−15 32.4	2.320	3.075	13.8	20.1
3 12	13 37.23	−15 18.5	2.230	3.084	11.1	19.9
3 22	13 31.16	−14 50.3	2.163	3.092	8.0	19.7
4 1	13 23.64	−14 9.1	2.121	3.100	4.5	19.5
4 11	13 15.41	−13 18.4	2.108	3.108	1.6	19.3
4 21	13 7.28	−12 22.8	2.124	3.115	3.8	19.5
5 1	13 0.07	−11 27.6	2.169	3.121	7.3	19.7
5 11	12 54.39	−10 38.2	2.239	3.127	10.4	19.9

96538 1998 SN_{24} 4 10.3 212°.17 1°.7/ 8.4 18

3 2	13 40.31	− 5 1.1	2.323	3.116	12.7	20.4
3 12	13 36.43	− 4 26.7	2.229	3.111	9.9	20.2
3 22	13 30.64	− 3 43.9	2.157	3.106	6.7	20.0
4 1	13 23.41	− 2 56.1	2.113	3.101	3.3	19.8
4 11	13 15.43	− 2 8.1	2.097	3.095	2.0	19.7
4 21	13 7.48	− 1 24.9	2.111	3.089	5.1	19.9
5 1	13 0.36	− 0 50.9	2.152	3.083	8.5	20.1
5 11	12 54.69	− 0 29.2	2.217	3.077	11.7	20.3

422161 2014 RW_{6} 4 10.3 135°.96 0°.2/10.1 18

3 2	13 44.20	−10 3.5	2.001	2.780	14.9	22.1
3 12	13 39.69	− 9 40.2	1.920	2.793	11.8	21.9
3 22	13 32.94	− 9 4.2	1.861	2.804	8.1	21.7
4 1	13 24.53	− 8 18.6	1.829	2.816	4.0	21.4
4 11	13 15.34	− 7 28.0	1.824	2.826	0.4	21.2
4 21	13 6.33	− 6 38.0	1.849	2.836	4.7	21.5
5 1	12 58.42	− 5 54.1	1.901	2.846	8.6	21.8
5 11	12 52.30	− 5 21.0	1.978	2.854	12.1	22.0

81932 2000 OJ_{12} 4 10.3 270°.89 3°.7/14.0 17

3 2	13 39.43	−20 47.8	2.342	3.077	14.2	19.6
3 12	13 36.01	−20 59.3	2.233	3.066	11.9	19.4
3 22	13 30.52	−20 54.9	2.144	3.054	9.1	19.2
4 1	13 23.43	−20 33.9	2.080	3.043	6.1	19.0
4 11	13 15.43	−19 57.6	2.043	3.031	3.8	18.8
4 21	13 7.36	−19 9.5	2.034	3.020	4.5	18.8
5 1	13 0.08	−18 14.7	2.053	3.008	7.4	19.0
5 11	12 54.34	−17 19.4	2.097	2.997	10.5	19.2

379888 2012 HH_{67} 4 10.3 264°.09 6°.3/ 4.5 17

3 2	13 43.63	+ 7 11.4	1.982	2.794	13.9	21.4
3 12	13 39.51	+ 8 7.8	1.887	2.775	11.2	21.2
3 22	13 33.04	+ 9 5.8	1.815	2.756	8.4	21.0
4 1	13 24.70	+ 9 58.5	1.769	2.737	6.5	20.8
4 11	13 15.33	+10 38.5	1.749	2.717	6.9	20.8
4 21	13 5.91	+11 0.1	1.757	2.697	9.4	20.9
5 1	12 57.45	+10 59.8	1.790	2.676	12.6	21.0
5 11	12 50.78	+10 37.0	1.844	2.655	15.6	21.2

459621 2013 HK_{138} 4 10.3 178°.47 1°.0/11.2 16

3 2	13 44.43	−13 20.7	1.919	2.690	15.8	22.7
3 12	13 40.15	−13 5.0	1.828	2.693	12.7	22.5
3 22	13 33.45	−12 33.7	1.757	2.694	8.9	22.3
4 1	13 24.87	−11 48.6	1.711	2.695	4.7	22.0
4 11	13 15.32	−10 53.7	1.693	2.695	1.0	21.8
4 21	13 5.83	− 9 54.9	1.704	2.694	4.6	22.0
5 1	12 57.44	− 8 58.8	1.742	2.693	8.8	22.3
5 11	12 50.97	− 8 11.7	1.805	2.691	12.6	22.5

315305 2007 TO_{204} 4 10.3 226°.37 0°.9/ 9.5 16

3 2	13 42.17	− 9 36.0	1.899	2.687	15.3	21.9
3 12	13 38.48	− 8 52.9	1.798	2.677	12.1	21.6
3 22	13 32.38	− 7 54.4	1.720	2.666	8.3	21.4
4 1	13 24.39	− 6 43.9	1.667	2.655	4.0	21.1
4 11	13 15.35	− 5 27.4	1.641	2.643	1.1	20.9
4 21	13 6.28	− 4 12.3	1.645	2.630	5.5	21.1
5 1	12 58.21	− 3 5.9	1.675	2.617	9.8	21.3
5 11	12 51.97	− 2 14.2	1.730	2.602	13.8	21.6

117129 2004 PL_{51} 4 10.3 281°.25 3°.9/ 5.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 37.55	+ 1 54.1	2.426	3.235	11.7	20.0
3 12	13 34.22	+ 2 45.6	2.331	3.222	9.2	19.8
3 22	13 29.11	+ 3 41.5	2.260	3.209	6.5	19.6
4 1	13 22.66	+ 4 37.1	2.216	3.195	4.2	19.4
4 11	13 15.50	+ 5 26.8	2.200	3.182	4.3	19.4
4 21	13 8.34	+ 6 5.8	2.212	3.169	6.7	19.5
5 1	13 1.91	+ 6 30.4	2.251	3.156	9.6	19.7
5 11	12 56.82	+ 6 38.6	2.313	3.142	12.3	19.8

36322 2000 LB_{26} 4 10.3 112°.19 10°.8/30.7 18

3 2	13 46.68	+17 16.3	1.739	2.549	15.6	18.7
3 12	13 41.77	+19 20.2	1.701	2.572	13.2	18.6
3 22	13 34.34	+21 14.4	1.687	2.594	11.3	18.5
4 1	13 25.16	+22 47.6	1.698	2.616	10.8	18.5
4 11	13 15.32	+23 51.2	1.733	2.636	11.7	18.6
4 21	13 5.93	+24 20.9	1.793	2.656	13.5	18.8
5 1	12 57.99	+24 17.2	1.873	2.675	15.6	19.0
5 11	12 52.19	+23 43.8	1.971	2.694	17.6	19.1

224391 2005 UA_{206} 4 10.3 153°.62 0°.2/10.1 17

3 2	13 40.81	−10 11.6	1.941	2.730	15.0	21.7
3 12	13 37.21	− 9 44.7	1.855	2.732	11.9	21.4
3 22	13 31.36	− 9 4.3	1.789	2.735	8.2	21.2
4 1	13 23.82	− 8 13.3	1.750	2.737	4.0	21.0
4 11	13 15.41	− 7 16.9	1.737	2.739	0.5	20.7
4 21	13 7.10	− 6 20.9	1.753	2.741	4.8	21.0
5 1	12 59.83	− 5 31.6	1.796	2.743	8.9	21.3
5 11	12 54.32	− 4 53.8	1.863	2.744	12.5	21.5

215888 2005 GU_{4} 4 10.3 246°.02 3°.2/ 7.7 17

3 2	13 44.00	− 1 49.5	1.863	2.668	14.9	20.8
3 12	13 39.95	− 1 15.1	1.766	2.655	11.8	20.6
3 22	13 33.42	− 0 32.9	1.691	2.642	8.1	20.3
4 1	13 24.92	+ 0 12.6	1.642	2.628	4.4	20.1
4 11	13 15.32	+ 0 55.1	1.620	2.614	3.5	20.0
4 21	13 5.68	+ 1 28.6	1.626	2.600	6.9	20.1
5 1	12 57.05	+ 1 48.0	1.658	2.585	11.0	20.3
5 11	12 50.32	+ 1 50.5	1.713	2.570	14.7	20.5

106699 2000 WA_{167} 4 10.3 96°.53 2°.1/ 7.9 18

3 2	13 38.24	− 3 37.4	2.437	3.235	12.0	19.9
3 12	13 34.62	− 2 59.8	2.356	3.242	9.3	19.7
3 22	13 29.28	− 2 15.5	2.299	3.249	6.3	19.6
4 1	13 22.69	− 1 28.2	2.268	3.256	3.2	19.4
4 11	13 15.51	− 0 42.5	2.267	3.263	2.3	19.3
4 21	13 8.45	− 0 2.9	2.294	3.269	5.1	19.5
5 1	13 2.18	+ 0 26.8	2.349	3.276	8.1	19.7
5 11	12 57.27	+ 0 44.2	2.428	3.283	10.9	19.9

466139 2012 HH_{1} 4 10.3 36°.43 11°.4/ 2.6 18

3 2	13 47.46	+18 18.4	1.487	2.305	17.4	20.5
3 12	13 42.88	+19 22.3	1.438	2.314	14.8	20.3
3 22	13 35.37	+20 14.2	1.408	2.323	12.5	20.2
4 1	13 25.75	+20 43.7	1.401	2.333	11.4	20.2
4 11	13 15.28	+20 43.0	1.417	2.344	12.0	20.2
4 21	13 5.30	+20 9.2	1.456	2.355	13.9	20.4
5 1	12 57.00	+19 3.9	1.516	2.366	16.4	20.6
5 11	12 51.14	+17 32.5	1.595	2.378	18.9	20.8

308694 2006 EX_{5} 4 10.3 209°.66 1°.7/ 8.9 16

3 2	13 43.62	− 6 49.1	1.707	2.508	16.2	21.8
3 12	13 39.81	− 6 14.0	1.618	2.504	12.8	21.6
3 22	13 33.39	− 5 25.9	1.549	2.500	8.7	21.3
4 1	13 24.91	− 4 28.8	1.506	2.495	4.3	21.1
4 11	13 15.33	− 3 29.2	1.489	2.489	2.0	20.9
4 21	13 5.79	− 2 34.3	1.500	2.483	6.2	21.1
5 1	12 57.42	− 1 50.7	1.537	2.477	10.7	21.4
5 11	12 51.11	− 1 23.2	1.597	2.470	14.7	21.6

374122 2004 TR_{45} 4 10.3 179°.24 0°.6/10.9 17

3 2	13 40.12	−13 24.5	2.380	3.146	13.2	21.5
3 12	13 36.25	−12 53.3	2.285	3.147	10.6	21.4
3 22	13 30.50	−12 8.2	2.211	3.148	7.4	21.1
4 1	13 23.34	−11 11.6	2.165	3.148	3.8	20.9
4 11	13 15.47	−10 7.4	2.147	3.148	0.6	20.7
4 21	13 7.66	− 9 0.9	2.158	3.148	3.9	20.9
5 1	13 0.69	− 7 57.7	2.198	3.147	7.4	21.1
5 11	12 55.17	− 7 2.9	2.265	3.145	10.6	21.3

229817 2008 SK_{285} 4 10.3 295°.36 1°.1/ 9.3 17

3 2	13 39.76	− 7 34.5	1.951	2.749	14.6	20.6
3 12	13 36.40	− 7 6.8	1.862	2.747	11.5	20.3
3 22	13 30.83	− 6 27.7	1.795	2.745	7.8	20.1
4 1	13 23.57	− 5 40.5	1.754	2.743	3.8	19.9
4 11	13 15.45	− 4 50.5	1.740	2.741	1.3	19.7
4 21	13 7.39	− 4 3.3	1.754	2.739	5.2	19.9
5 1	13 0.31	− 3 24.7	1.795	2.737	9.2	20.2
5 11	12 54.95	− 2 58.7	1.859	2.736	12.8	20.4

341330 2007 TK_{33} 4 10.3 181°.12 0°.5/ 9.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 40.13	− 8 30.1	2.592	3.369	11.9	21.8
3 12	13 36.06	− 8 7.4	2.498	3.370	9.4	21.6
3 22	13 30.27	− 7 35.6	2.427	3.370	6.4	21.5
4 1	13 23.20	− 6 57.2	2.383	3.370	3.1	21.2
4 11	13 15.48	− 6 15.8	2.368	3.370	0.7	21.0
4 21	13 7.82	− 5 35.3	2.383	3.369	4.0	21.3
5 1	13 0.91	− 5 0.0	2.427	3.368	7.2	21.5
5 11	12 55.31	− 4 33.2	2.497	3.366	10.2	21.7

345693 2006 UW_{186} 4 10.3 113°.36 4°.6/15.9 17

3 2	13 43.24	−25 41.2	2.876	3.562	12.8	21.8
3 12	13 38.42	−26 9.0	2.789	3.580	10.9	21.7
3 22	13 31.84	−26 21.9	2.722	3.598	8.7	21.5
4 1	13 23.95	−26 18.8	2.680	3.616	6.4	21.4
4 11	13 15.43	−26 0.4	2.666	3.633	4.8	21.3
4 21	13 7.00	−25 28.8	2.681	3.650	4.8	21.4
5 1	12 59.38	−24 48.1	2.724	3.667	6.4	21.5
5 11	12 53.14	−24 3.2	2.794	3.683	8.6	21.7

276624 2003 UW_{139} 4 10.3 228°.82 3°.6/ 6.6 17

3 2	13 40.03	+ 0 4.3	2.151	2.959	13.1	20.8
3 12	13 36.36	+ 0 54.2	2.063	2.954	10.2	20.6
3 22	13 30.67	+ 1 50.1	1.998	2.949	7.1	20.4
4 1	13 23.46	+ 2 46.9	1.960	2.943	4.3	20.2
4 11	13 15.47	+ 3 38.6	1.950	2.938	4.1	20.2
4 21	13 7.53	+ 4 19.6	1.968	2.932	6.8	20.3
5 1	13 0.48	+ 4 45.8	2.012	2.926	10.0	20.5
5 11	12 54.99	+ 4 55.0	2.080	2.920	13.1	20.7

260735 2005 LE_{22} 4 10.3 288°.14 1°.3/ 9.1 17

3 2	13 38.65	− 8 47.9	1.629	2.437	16.6	21.0
3 12	13 36.18	− 8 3.8	1.529	2.420	13.2	20.7
3 22	13 31.09	− 7 2.5	1.451	2.403	9.0	20.4
4 1	13 23.87	− 5 47.9	1.396	2.385	4.4	20.1
4 11	13 15.42	− 4 27.1	1.368	2.368	1.7	19.9
4 21	13 6.88	− 3 8.6	1.366	2.351	6.3	20.1
5 1	12 59.41	− 2 1.3	1.389	2.334	11.2	20.3
5 11	12 53.96	− 1 11.9	1.435	2.317	15.5	20.6

218263 2003 BO_{29} 4 10.3 139°.66 13°.2/23.7 17

3 2	13 40.97	+25 50.1	1.834	2.636	15.2	20.2
3 12	13 37.61	+28 21.0	1.795	2.639	13.9	20.1
3 22	13 31.74	+30 36.9	1.780	2.642	13.2	20.0
4 1	13 24.01	+32 25.8	1.787	2.645	13.5	20.1
4 11	13 15.43	+33 39.2	1.816	2.647	14.7	20.1
4 21	13 7.08	+34 13.3	1.865	2.650	16.2	20.2
5 1	13 0.01	+34 8.6	1.932	2.652	17.9	20.4
5 11	12 54.95	+33 29.8	2.012	2.654	19.4	20.5

503979 2004 TK_{43} 4 10.3 198°.96 0°.8/11.1 17

3 2	13 41.16	−13 2.2	2.406	3.170	13.1	22.8
3 12	13 37.10	−12 43.3	2.305	3.167	10.5	22.6
3 22	13 31.12	−12 11.6	2.227	3.163	7.4	22.4
4 1	13 23.67	−11 28.9	2.175	3.159	3.9	22.1
4 11	13 15.46	−10 38.5	2.152	3.154	0.8	21.9
4 21	13 7.26	− 9 45.1	2.159	3.149	3.8	22.1
5 1	12 59.88	− 8 53.9	2.194	3.143	7.4	22.3
5 11	12 53.96	− 8 9.5	2.255	3.136	10.6	22.5

182904 2002 EP_{60} 4 10.3 336°.29 2°.1/12.3 17

3 2	13 38.06	−15 39.2	2.198	2.963	14.2	20.5
3 12	13 34.94	−15 43.1	2.099	2.958	11.5	20.3
3 22	13 29.78	−15 33.1	2.022	2.953	8.4	20.1
4 1	13 23.06	−15 9.8	1.970	2.948	4.9	19.8
4 11	13 15.51	−14 35.7	1.945	2.943	2.2	19.6
4 21	13 7.94	−13 54.8	1.948	2.939	4.0	19.8
5 1	13 1.23	−13 12.2	1.979	2.935	7.5	20.0
5 11	12 56.06	−12 33.4	2.034	2.932	10.9	20.2

189580 2000 UX_{69} 4 10.3 270°.07 1°.8/11.9 17

3 2	13 42.05	−15 32.8	2.180	2.939	14.5	21.1
3 12	13 38.33	−15 24.3	2.055	2.910	11.9	20.9
3 22	13 32.33	−15 0.3	1.951	2.881	8.7	20.6
4 1	13 24.44	−14 20.9	1.873	2.852	5.0	20.4
4 11	13 15.39	−13 28.8	1.822	2.821	1.9	20.1
4 21	13 6.09	−12 28.5	1.800	2.791	4.3	20.2
5 1	12 57.53	−11 26.1	1.806	2.759	8.4	20.4
5 11	12 50.60	−10 28.4	1.837	2.727	12.3	20.5

291762 2006 KM_{16} 4 10.3 310°.88 0°.3/10.5 17

3 2	13 36.10	−13 20.3	1.350	2.162	19.1	20.5
3 12	13 34.75	−12 42.8	1.256	2.146	15.4	20.2
3 22	13 30.43	−11 40.7	1.180	2.130	10.9	19.9
4 1	13 23.65	−10 16.4	1.127	2.115	5.5	19.5
4 11	13 15.45	− 8 37.2	1.098	2.100	0.4	19.1
4 21	13 7.14	− 6 53.9	1.094	2.086	6.2	19.5
5 1	13 0.11	− 5 18.6	1.114	2.072	11.8	19.7
5 11	12 55.45	− 4 1.8	1.155	2.058	16.8	20.0

250510 2004 HC_{78} 4 10.3 295°.35 0°.2/ 9.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 36.81	−13 30.7	2.311	3.085	13.3	20.6
3 12	13 34.00	−12 21.1	2.181	3.050	10.7	20.4
3 22	13 29.22	−10 51.8	2.073	3.015	7.5	20.1
4 1	13 22.85	− 9 5.4	1.992	2.979	3.7	19.8
4 11	13 15.52	− 7 7.4	1.941	2.943	0.5	19.5
4 21	13 8.03	− 5 5.6	1.920	2.907	4.7	19.7
5 1	13 1.20	− 3 8.7	1.929	2.870	8.8	19.9
5 11	12 55.79	− 1 24.5	1.963	2.833	12.5	20.1

434337 2004 LN_{26} 4 10.3 242°.19 0°.5/ 9.7 17

3 2	13 36.33	−10 31.5	2.428	3.210	12.5	21.2
3 12	13 33.27	− 9 43.0	2.331	3.206	9.9	21.0
3 22	13 28.47	− 8 41.8	2.258	3.203	6.7	20.8
4 1	13 22.36	− 7 31.0	2.211	3.199	3.2	20.6
4 11	13 15.59	− 6 15.7	2.193	3.195	0.7	20.3
4 21	13 8.86	− 5 1.3	2.205	3.191	4.2	20.6
5 1	13 2.89	− 3 53.6	2.245	3.187	7.7	20.8
5 11	12 58.26	− 2 57.3	2.310	3.183	10.8	21.0

415575 2014 QL_{275} 4 10.3 296°.84 1°.2/ 9.5 17

3 2	13 41.64	− 7 21.2	1.384	2.202	18.5	21.3
3 12	13 39.11	− 7 6.2	1.289	2.184	14.8	21.0
3 22	13 33.46	− 6 36.5	1.213	2.167	10.2	20.7
4 1	13 25.19	− 5 55.5	1.160	2.150	5.0	20.3
4 11	13 15.35	− 5 9.1	1.131	2.133	1.5	20.0
4 21	13 5.32	− 4 25.2	1.128	2.116	6.8	20.3
5 1	12 56.56	− 3 51.7	1.148	2.099	12.3	20.5
5 11	12 50.26	− 3 34.7	1.189	2.083	17.2	20.8

138529 2000 OB_{31} 4 10.3 198°.33 3°.4/14.7 18

3 2	13 39.56	−22 54.3	3.015	3.721	11.9	20.4
3 12	13 35.55	−22 55.9	2.906	3.718	10.0	20.2
3 22	13 29.91	−22 43.3	2.818	3.714	7.7	20.1
4 1	13 23.05	−22 16.3	2.756	3.709	5.4	19.9
4 11	13 15.54	−21 36.2	2.722	3.704	3.6	19.8
4 21	13 8.04	−20 45.9	2.718	3.699	3.9	19.8
5 1	13 1.19	−19 49.5	2.742	3.693	6.0	19.9
5 11	12 55.55	−18 52.0	2.794	3.687	8.4	20.0

330950 2009 SR_{293} 4 10.3 170°.95 0°.0/10.2 17

3 2	13 42.20	−10 23.4	2.153	2.931	14.0	22.1
3 12	13 38.09	−10 3.6	2.062	2.933	11.1	21.9
3 22	13 31.87	− 9 31.7	1.994	2.936	7.7	21.7
4 1	13 24.07	− 8 50.2	1.951	2.938	3.8	21.4
4 11	13 15.46	− 8 3.2	1.937	2.939	0.3	21.1
4 21	13 6.93	− 7 15.8	1.952	2.940	4.4	21.5
5 1	12 59.35	− 6 33.1	1.995	2.941	8.2	21.7
5 11	12 53.40	− 5 59.8	2.062	2.941	11.6	21.9

193919 2001 QS_{278} 4 10.3 165°.76 5°.0/ 6.1 18

3 2	13 45.57	+ 1 39.8	1.758	2.569	15.4	21.2
3 12	13 41.09	+ 2 41.9	1.683	2.574	12.1	21.0
3 22	13 34.09	+ 3 50.0	1.630	2.578	8.5	20.8
4 1	13 25.19	+ 4 56.9	1.602	2.582	5.5	20.6
4 11	13 15.38	+ 5 54.6	1.602	2.585	5.5	20.6
4 21	13 5.75	+ 6 36.5	1.629	2.588	8.5	20.8
5 1	12 57.35	+ 6 58.1	1.682	2.589	12.1	21.0
5 11	12 50.99	+ 6 58.2	1.757	2.590	15.4	21.2

49653 1999 JO_{85} 4 10.3 265°.58 8°.8/ 1.1 18

3 2	13 40.85	+12 59.8	1.879	2.699	14.2	18.1
3 12	13 37.37	+14 31.1	1.806	2.691	11.8	17.9
3 22	13 31.56	+15 59.7	1.755	2.682	9.7	17.8
4 1	13 23.96	+17 16.6	1.730	2.673	8.8	17.7
4 11	13 15.47	+18 12.8	1.730	2.665	9.7	17.8
4 21	13 7.07	+18 42.6	1.755	2.656	11.8	17.9
5 1	12 59.75	+18 43.6	1.802	2.647	14.4	18.0
5 11	12 54.26	+18 16.8	1.869	2.638	16.9	18.2

349891 2009 DE_{133} 4 10.3 52°.34 0°.6/10.9 15

3 2	13 37.77	−12 53.3	2.098	2.878	14.3	21.4
3 12	13 34.65	−12 27.3	2.014	2.885	11.4	21.2
3 22	13 29.52	−11 47.0	1.951	2.892	7.9	21.0
4 1	13 22.90	−10 54.9	1.914	2.899	4.1	20.8
4 11	13 15.56	− 9 55.4	1.905	2.907	0.6	20.5
4 21	13 8.33	− 8 54.1	1.924	2.914	4.1	20.8
5 1	13 2.05	− 7 57.1	1.970	2.922	7.9	21.1
5 11	12 57.34	− 7 9.4	2.041	2.929	11.3	21.3

33844 2000 GQ_{133} 4 10.3 281°.41 4°.2/ 6.7 17 R

3 2	13 40.26	− 3 12.8	1.502	2.325	17.0	19.3
3 12	13 37.77	− 2 3.2	1.401	2.301	13.5	19.0
3 22	13 32.42	− 0 37.7	1.320	2.276	9.3	18.7
4 1	13 24.64	+ 0 57.1	1.264	2.251	5.3	18.4
4 11	13 15.40	+ 2 31.4	1.233	2.225	4.9	18.3
4 21	13 5.93	+ 3 54.1	1.228	2.199	9.0	18.5
5 1	12 57.57	+ 4 55.9	1.247	2.173	13.8	18.7
5 11	12 51.42	+ 5 31.1	1.287	2.147	18.3	18.9

102074 1999 RN_{143} 4 10.3 170°.56 1°.6/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 42.90	− 6 51.8	2.353	3.135	12.9	20.8
3 12	13 38.36	− 5 57.5	2.264	3.141	10.1	20.6
3 22	13 31.90	− 4 52.6	2.199	3.145	6.8	20.4
4 1	13 24.03	− 3 41.2	2.161	3.149	3.3	20.2
4 11	13 15.47	− 2 28.7	2.153	3.152	1.9	20.1
4 21	13 7.02	− 1 21.0	2.176	3.154	5.0	20.3
5 1	12 59.45	− 0 23.5	2.227	3.155	8.5	20.5
5 11	12 53.39	+ 0 20.2	2.303	3.155	11.5	20.7

296427 2009 HD_{37} 4 10.3 324°.71 3°.7/13.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.74	−18 53.4	1.462	2.243	19.4	20.3
3 12	13 36.65	−18 57.7	1.372	2.237	16.0	20.0
3 22	13 31.62	−18 38.5	1.299	2.230	12.0	19.7
4 1	13 24.20	−17 55.0	1.249	2.224	7.5	19.5
4 11	13 15.45	−16 50.5	1.222	2.218	3.9	19.2
4 21	13 6.67	−15 31.8	1.221	2.213	5.6	19.3
5 1	12 59.19	−14 9.2	1.244	2.207	10.2	19.5
5 11	12 54.07	−12 52.9	1.290	2.203	14.7	19.8

463413 2013 HJ_{73} 4 10.3 329°.04 1°.4/11.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.67	−11 50.5	1.337	2.145	19.5	21.5
3 12	13 39.18	−12 5.1	1.251	2.137	15.8	21.2
3 22	13 33.51	−12 3.2	1.183	2.129	11.2	20.9
4 1	13 25.20	−11 45.5	1.136	2.122	6.0	20.6
4 11	13 15.38	−11 15.8	1.114	2.116	1.5	20.3
4 21	13 5.50	−10 40.1	1.117	2.110	5.9	20.5
5 1	12 57.04	−10 6.1	1.143	2.104	11.3	20.8
5 11	12 51.14	− 9 41.4	1.191	2.099	16.1	21.1

91548 1999 RN_{210} 4 10.3 160°.27 3°.9/14.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.40	−21 21.9	2.451	3.169	14.1	19.8
3 12	13 39.71	−21 46.6	2.354	3.175	11.8	19.6
3 22	13 32.96	−21 56.5	2.278	3.180	9.0	19.4
4 1	13 24.62	−21 50.6	2.227	3.184	6.2	19.2
4 11	13 15.44	−21 29.7	2.204	3.188	4.1	19.1
4 21	13 6.30	−20 56.7	2.210	3.192	4.7	19.1
5 1	12 58.03	−20 16.0	2.245	3.195	7.2	19.3
5 11	12 51.35	−19 33.4	2.305	3.198	10.0	19.5

306852 2001 SH_{134} 4 10.3 253°.76 2°.4/12.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.95	−15 41.3	2.046	2.804	15.3	21.9
3 12	13 39.94	−15 52.5	1.933	2.787	12.6	21.7
3 22	13 33.49	−15 49.2	1.841	2.769	9.2	21.5
4 1	13 25.04	−15 31.2	1.775	2.751	5.5	21.2
4 11	13 15.40	−15 0.4	1.735	2.733	2.5	21.0
4 21	13 5.58	−14 20.5	1.724	2.714	4.6	21.0
5 1	12 56.65	−13 37.3	1.740	2.694	8.6	21.2
5 11	12 49.51	−12 57.0	1.781	2.674	12.4	21.4

247793 2003 SR_{43} 4 10.3 137°.65 3°.3/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.15	−17 47.3	1.757	2.516	17.4	20.7
3 12	13 41.04	−18 2.3	1.671	2.523	14.3	20.5
3 22	13 34.24	−17 59.3	1.606	2.530	10.6	20.3
4 1	13 25.35	−17 37.9	1.563	2.536	6.6	20.1
4 11	13 15.39	−17 0.3	1.547	2.542	3.4	19.9
4 21	13 5.52	−16 11.6	1.558	2.548	5.1	20.0
5 1	12 56.91	−15 18.7	1.596	2.553	9.0	20.3
5 11	12 50.43	−14 29.3	1.658	2.558	12.8	20.5

407727 2011 UG_{319} 4 10.3 105°.47 1°.5/ 9.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.39	− 7 13.2	1.648	2.449	16.7	22.2
3 12	13 40.25	− 6 36.4	1.579	2.465	13.1	22.0
3 22	13 33.53	− 5 46.9	1.530	2.480	8.9	21.8
4 1	13 24.91	− 4 49.3	1.506	2.495	4.3	21.6
4 11	13 15.43	− 3 50.3	1.510	2.510	1.8	21.4
4 21	13 6.23	− 2 56.9	1.540	2.524	6.0	21.7
5 1	12 58.38	− 2 15.5	1.597	2.538	10.3	22.0
5 11	12 52.63	− 1 49.9	1.677	2.552	14.0	22.3

269089 2007 HX_{38} 4 10.3 221°.40 0°.9/ 9.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.85	− 8 38.0	1.905	2.701	15.0	21.3
3 12	13 36.55	− 8 2.9	1.816	2.699	11.8	21.1
3 22	13 30.99	− 7 14.6	1.749	2.698	8.0	20.8
4 1	13 23.70	− 6 16.8	1.707	2.696	3.9	20.6
4 11	13 15.52	− 5 15.0	1.693	2.694	1.2	20.4
4 21	13 7.41	− 4 15.8	1.706	2.692	5.2	20.6
5 1	13 0.30	− 3 25.3	1.746	2.690	9.4	20.9
5 11	12 54.97	− 2 48.5	1.810	2.688	13.0	21.1

99019 2001 DK_{73} 4 10.3 74°.67 1°.4/11.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.08	−13 24.0	2.000	2.775	15.1	20.1
3 12	13 37.45	−13 23.2	1.910	2.776	12.1	19.9
3 22	13 31.58	−13 8.6	1.841	2.778	8.6	19.6
4 1	13 23.98	−12 41.3	1.797	2.779	4.7	19.4
4 11	13 15.50	−12 4.8	1.780	2.781	1.4	19.2
4 21	13 7.07	−11 23.6	1.791	2.782	4.3	19.4
5 1	12 59.64	−10 43.3	1.829	2.784	8.2	19.6
5 11	12 53.96	−10 9.3	1.892	2.785	11.8	19.8

298764 2004 JU_{33} 4 10.3 307°.09 2°.8/13.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 35.71	−20 57.0	2.206	2.952	14.7	20.1
3 12	13 33.16	−20 26.0	2.100	2.942	12.2	19.9
3 22	13 28.61	−19 34.6	2.014	2.933	9.1	19.7
4 1	13 22.52	−18 23.3	1.954	2.924	5.7	19.4
4 11	13 15.62	−16 55.8	1.921	2.915	3.0	19.2
4 21	13 8.73	−15 18.2	1.916	2.906	4.1	19.3
5 1	13 2.70	−13 38.0	1.939	2.898	7.5	19.5
5 11	12 58.20	−12 3.2	1.989	2.890	10.9	19.7

457676 2009 DG_{72} 4 10.3 79°.40 3°.6/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.89	−17 23.9	1.508	2.278	19.4	21.6
3 12	13 42.65	−17 47.4	1.439	2.297	15.8	21.4
3 22	13 35.42	−17 51.2	1.389	2.317	11.6	21.2
4 1	13 25.93	−17 34.9	1.362	2.336	7.1	20.9
4 11	13 15.39	−17 1.2	1.360	2.356	3.7	20.8
4 21	13 5.15	−16 15.9	1.385	2.375	5.5	20.9
5 1	12 56.47	−15 26.7	1.435	2.393	9.6	21.2
5 11	12 50.26	−14 41.8	1.509	2.412	13.6	21.5

389924 2012 TT_{109} 4 10.3 133°.47 3°.2/13.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.70	−19 2.7	2.458	3.192	13.7	21.6
3 12	13 38.31	−19 22.2	2.365	3.199	11.3	21.4
3 22	13 31.96	−19 27.9	2.294	3.206	8.5	21.2
4 1	13 24.12	−19 19.5	2.248	3.213	5.5	21.0
4 11	13 15.52	−18 58.5	2.230	3.220	3.3	20.9
4 21	13 6.97	−18 27.9	2.240	3.226	4.2	21.0
5 1	12 59.29	−17 52.0	2.279	3.232	6.9	21.2
5 11	12 53.11	−17 15.8	2.345	3.238	9.8	21.3

276954 2004 TD_{297} 4 10.3 80°.52 0°.8/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.63	− 6 36.1	1.903	2.695	15.1	20.5
3 12	13 40.13	− 6 32.1	1.828	2.709	11.9	20.3
3 22	13 33.32	− 6 19.1	1.775	2.722	8.1	20.1
4 1	13 24.80	− 5 59.9	1.747	2.736	3.9	19.9
4 11	13 15.48	− 5 38.6	1.748	2.749	1.0	19.7
4 21	13 6.37	− 5 19.6	1.776	2.762	5.0	20.0
5 1	12 58.41	− 5 7.1	1.832	2.776	9.0	20.2
5 11	12 52.33	− 5 4.2	1.911	2.789	12.4	20.5

252991 2002 QN_{100} 4 10.3 211°.61 0°.7/ 9.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.01	− 7 36.5	1.952	2.739	15.0	21.7
3 12	13 40.62	− 7 24.1	1.857	2.734	11.9	21.4
3 22	13 33.83	− 7 1.1	1.783	2.728	8.2	21.2
4 1	13 25.15	− 6 30.3	1.735	2.722	4.0	20.9
4 11	13 15.45	− 5 55.8	1.714	2.716	0.9	20.7
4 21	13 5.75	− 5 22.7	1.723	2.709	5.1	21.0
5 1	12 57.07	− 4 56.1	1.758	2.701	9.3	21.2
5 11	12 50.24	− 4 40.2	1.818	2.693	13.1	21.4

63007 2000 WF_{30} 4 10.3 205°.54 7°.2/ 1.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.45	+16 32.7	2.670	3.465	11.2	19.3
3 12	13 37.80	+17 26.8	2.598	3.463	9.4	19.2
3 22	13 31.42	+18 15.2	2.550	3.460	7.8	19.1
4 1	13 23.78	+18 52.1	2.528	3.456	7.2	19.0
4 11	13 15.56	+19 12.5	2.533	3.453	7.7	19.1
4 21	13 7.47	+19 13.6	2.565	3.449	9.2	19.1
5 1	13 0.21	+18 54.4	2.621	3.445	11.1	19.3
5 11	12 54.32	+18 16.1	2.699	3.441	12.9	19.4

237740 2001 XS_{112} 4 10.3 54°.47 9°.4/23.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.28	−41 23.3	2.256	2.859	17.8	19.8
3 12	13 37.06	−41 48.3	2.174	2.877	16.2	19.7
3 22	13 31.38	−41 46.0	2.107	2.895	14.2	19.5
4 1	13 23.88	−41 12.9	2.059	2.913	12.2	19.4
4 11	13 15.56	−40 8.3	2.032	2.931	10.4	19.3
4 21	13 7.47	−38 35.5	2.029	2.950	9.5	19.3
5 1	13 0.63	−36 41.1	2.052	2.968	9.7	19.4
5 11	12 55.79	−34 34.9	2.100	2.987	11.1	19.5

148632 2001 SO_{10} 4 10.3 142°.04 4°.4/13.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 47.74	−19 52.5	2.033	2.766	16.2	20.5
3 12	13 42.80	−20 34.7	1.942	2.773	13.5	20.3
3 22	13 35.34	−21 1.5	1.871	2.780	10.3	20.1
4 1	13 25.91	−21 11.1	1.825	2.786	7.0	19.9
4 11	13 15.41	−21 3.9	1.806	2.792	4.6	19.8
4 21	13 4.93	−20 42.5	1.815	2.798	5.4	19.9
5 1	12 55.56	−20 11.9	1.852	2.803	8.4	20.1
5 11	12 48.16	−19 38.5	1.914	2.808	11.6	20.3

26531 2000 CP_{100} 4 10.3 285°.35 1°.5/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.14	− 6 27.8	2.047	2.846	14.0	18.7
3 12	13 35.83	− 5 54.3	1.957	2.842	11.0	18.5
3 22	13 30.42	− 5 10.4	1.889	2.839	7.4	18.3
4 1	13 23.42	− 4 19.6	1.847	2.836	3.6	18.0
4 11	13 15.60	− 3 27.4	1.833	2.833	1.7	17.9
4 21	13 7.83	− 2 39.2	1.847	2.829	5.3	18.1
5 1	13 0.98	− 2 0.5	1.888	2.826	9.1	18.3
5 11	12 55.76	− 1 35.0	1.952	2.823	12.5	18.5

171490 1996 TX_{31} 4 10.3 132°.22 3°.0/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 45.89	− 2 20.6	1.735	2.540	15.8	20.2
3 12	13 41.37	− 1 48.5	1.660	2.549	12.4	20.0
3 22	13 34.30	− 1 8.7	1.607	2.558	8.4	19.8
4 1	13 25.33	− 0 26.3	1.579	2.566	4.5	19.5
4 11	13 15.47	+ 0 12.6	1.579	2.574	3.3	19.5
4 21	13 5.81	+ 0 42.1	1.606	2.582	6.8	19.7
5 1	12 57.41	+ 0 57.7	1.659	2.589	10.8	19.9
5 11	12 51.08	+ 0 57.2	1.735	2.595	14.3	20.2

374489 2005 YJ_{93} 4 10.3 162°.20 3°.2/ 6.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.91	− 1 17.4	2.321	3.121	12.5	22.0
3 12	13 36.82	− 0 19.6	2.240	3.126	9.7	21.9
3 22	13 30.88	+ 0 44.8	2.182	3.131	6.6	21.7
4 1	13 23.57	+ 1 50.8	2.152	3.136	3.8	21.5
4 11	13 15.60	+ 2 52.5	2.151	3.140	3.6	21.5
4 21	13 7.75	+ 3 44.7	2.179	3.143	6.2	21.7
5 1	13 0.77	+ 4 23.0	2.234	3.146	9.2	21.9
5 11	12 55.26	+ 4 45.2	2.313	3.149	12.1	22.0

159396 1998 SH_{70} 4 10.3 216°.82 2°.6/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.77	− 1 18.8	2.632	3.422	11.4	20.5
3 12	13 37.38	− 0 43.9	2.532	3.413	8.9	20.3
3 22	13 31.23	− 0 3.7	2.457	3.404	6.1	20.1
4 1	13 23.76	+ 0 38.2	2.409	3.394	3.4	19.9
4 11	13 15.58	+ 1 17.4	2.391	3.383	2.8	19.8
4 21	13 7.42	+ 1 49.9	2.403	3.372	5.3	20.0
5 1	12 59.96	+ 2 12.1	2.442	3.360	8.3	20.1
5 11	12 53.82	+ 2 21.8	2.507	3.348	11.1	20.3

113399 2002 SM_{22} 4 10.3 295°.01 0°.0/10.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.08	− 9 16.4	1.569	2.372	17.3	20.3
3 12	13 39.22	− 9 13.1	1.463	2.348	14.0	20.0
3 22	13 33.46	− 8 55.9	1.376	2.324	9.8	19.7
4 1	13 25.23	− 8 26.4	1.312	2.300	4.9	19.3
4 11	13 15.46	− 7 49.1	1.274	2.276	0.4	18.9
4 21	13 5.39	− 7 10.0	1.262	2.252	5.9	19.2
5 1	12 56.38	− 6 36.2	1.275	2.228	11.1	19.5
5 11	12 49.58	− 6 14.1	1.310	2.204	15.9	19.7

43684 2002 JZ_{24} 4 10.3 241°.02 0°.3/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.15	−10 15.8	2.697	3.466	11.7	20.5
3 12	13 36.20	− 9 38.5	2.580	3.447	9.3	20.3
3 22	13 30.49	− 8 49.7	2.486	3.427	6.4	20.0
4 1	13 23.43	− 7 51.8	2.420	3.407	3.1	19.8
4 11	13 15.61	− 6 48.7	2.384	3.385	0.5	19.5
4 21	13 7.72	− 5 45.0	2.378	3.363	4.0	19.8
5 1	13 0.46	− 4 45.7	2.401	3.341	7.4	20.0
5 11	12 54.46	− 3 55.4	2.450	3.317	10.4	20.1

466192 2012 KG_{46} 4 10.3 301°.85 5°.0/14.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 37.53	−23 7.4	1.694	2.446	18.2	20.7
3 12	13 35.53	−23 13.6	1.584	2.425	15.5	20.5
3 22	13 30.84	−22 55.4	1.492	2.404	12.1	20.2
4 1	13 23.88	−22 10.6	1.421	2.384	8.4	19.9
4 11	13 15.57	−21 0.4	1.375	2.363	5.4	19.7
4 21	13 7.06	−19 30.0	1.355	2.343	6.0	19.7
5 1	12 59.61	−17 48.6	1.360	2.323	9.6	19.8
5 11	12 54.25	−16 7.5	1.389	2.303	13.8	20.0

510315 2011 QX_{88} 4 10.3 229°.77 1°.4/ 8.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.42	− 6 10.9	2.690	3.476	11.3	22.8
3 12	13 34.76	− 5 28.2	2.586	3.465	8.9	22.6
3 22	13 29.45	− 4 36.6	2.506	3.454	6.0	22.4
4 1	13 22.89	− 3 39.5	2.454	3.442	2.9	22.1
4 11	13 15.67	− 2 41.0	2.431	3.430	1.7	22.0
4 21	13 8.44	− 1 46.0	2.438	3.417	4.5	22.2
5 1	13 1.87	− 0 58.8	2.474	3.404	7.6	22.4
5 11	12 56.53	− 0 22.8	2.535	3.391	10.5	22.5

349313 2007 UL_{68} 4 10.3 267°.01 3°.2/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.08	−22 13.0	2.350	3.081	14.3	21.2
3 12	13 35.00	−21 47.7	2.231	3.062	12.0	21.0
3 22	13 29.90	−21 2.3	2.133	3.043	9.1	20.8
4 1	13 23.21	−19 56.6	2.059	3.024	6.0	20.5
4 11	13 15.64	−18 33.3	2.013	3.005	3.4	20.3
4 21	13 8.00	−16 57.5	1.996	2.985	4.2	20.4
5 1	13 1.15	−15 16.5	2.008	2.965	7.4	20.5
5 11	12 55.79	−13 38.2	2.046	2.945	10.8	20.7

103888 2000 DP_{52} 4 10.3 68°.57 0°.4/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.08	−11 2.4	2.093	2.875	14.3	19.7
3 12	13 36.55	−10 49.3	2.002	2.875	11.4	19.5
3 22	13 30.91	−10 23.8	1.933	2.875	7.9	19.3
4 1	13 23.67	− 9 48.1	1.890	2.876	4.0	19.0
4 11	13 15.62	− 9 6.0	1.874	2.876	0.4	18.7
4 21	13 7.62	− 8 22.5	1.887	2.877	4.3	19.1
5 1	13 0.55	− 7 42.7	1.927	2.877	8.2	19.3
5 11	12 55.11	− 7 11.5	1.992	2.878	11.6	19.5

334596 2002 TE_{244} 4 10.3 243°.15 0°.4/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 39.84	−11 17.4	2.296	3.072	13.3	21.1
3 12	13 36.23	−11 1.3	2.195	3.064	10.6	20.9
3 22	13 30.65	−10 33.4	2.116	3.056	7.4	20.7
4 1	13 23.56	− 9 55.5	2.063	3.048	3.8	20.4
4 11	13 15.65	− 9 11.1	2.038	3.040	0.4	20.1
4 21	13 7.73	− 8 24.9	2.042	3.032	4.1	20.4
5 1	13 0.61	− 7 41.9	2.074	3.023	7.8	20.6
5 11	12 54.98	− 7 6.6	2.132	3.014	11.1	20.8

181080 2005 QP_{31} 4 10.3 274°.51 6°.2/14.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.66	−23 30.6	1.942	2.666	17.1	20.1
3 12	13 41.85	−24 19.2	1.820	2.640	14.7	19.8
3 22	13 35.22	−24 51.1	1.718	2.613	11.8	19.6
4 1	13 26.13	−25 2.4	1.637	2.587	8.7	19.3
4 11	13 15.44	−24 51.5	1.583	2.559	6.4	19.1
4 21	13 4.30	−24 19.5	1.554	2.531	6.8	19.1
5 1	12 54.02	−23 31.4	1.553	2.503	9.8	19.2
5 11	12 45.76	−22 35.5	1.575	2.474	13.4	19.3

186169 2001 UQ_{143} 4 10.3 276°.60 0°.1/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.75	−11 32.0	1.786	2.578	16.0	20.4
3 12	13 36.73	−11 5.7	1.695	2.574	12.7	20.2
3 22	13 31.29	−10 23.4	1.624	2.569	8.9	19.9
4 1	13 23.96	− 9 27.8	1.578	2.565	4.5	19.6
4 11	13 15.62	− 8 24.1	1.558	2.560	0.3	19.3
4 21	13 7.32	− 7 19.1	1.566	2.556	5.0	19.6
5 1	13 0.08	− 6 20.1	1.600	2.551	9.4	19.9
5 11	12 54.73	− 5 33.3	1.658	2.547	13.4	20.1

147759 2005 QR_{5} 4 10.3 198°.52 1°.5/12.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.24	−15 49.9	3.173	3.913	10.7	22.1
3 12	13 35.16	−15 41.9	3.066	3.909	8.7	22.0
3 22	13 29.60	−15 23.3	2.982	3.905	6.3	21.8
4 1	13 22.94	−14 54.9	2.925	3.900	3.7	21.6
4 11	13 15.71	−14 18.8	2.897	3.895	1.6	21.5
4 21	13 8.49	−13 38.1	2.900	3.890	3.0	21.6
5 1	13 1.85	−12 56.1	2.933	3.883	5.7	21.7
5 11	12 56.30	−12 16.8	2.992	3.877	8.2	21.9

40806 1999 TX_{41} 4 10.3 324°.18 1°.2/11.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 37.52	−12 41.3	1.308	2.122	19.5	19.4
3 12	13 36.04	−12 38.0	1.216	2.107	15.8	19.1
3 22	13 31.47	−12 14.6	1.143	2.092	11.3	18.8
4 1	13 24.30	−11 32.2	1.091	2.078	6.0	18.4
4 11	13 15.60	−10 35.9	1.062	2.064	1.2	18.1
4 21	13 6.75	− 9 33.4	1.058	2.051	6.0	18.4
5 1	12 59.22	− 8 34.6	1.077	2.040	11.6	18.6
5 11	12 54.19	− 7 48.5	1.117	2.029	16.6	18.9

435791 2008 UL_{355} 4 10.3 118°.36 4°.6/15.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.03	−25 46.0	2.296	3.005	15.2	21.5
3 12	13 36.45	−25 42.6	2.205	3.015	12.8	21.4
3 22	13 30.80	−25 18.8	2.133	3.024	10.1	21.2
4 1	13 23.62	−24 34.2	2.085	3.033	7.2	21.0
4 11	13 15.69	−23 30.7	2.064	3.042	5.0	20.9
4 21	13 7.88	−22 12.9	2.070	3.051	5.0	20.9
5 1	13 1.04	−20 47.4	2.105	3.059	7.3	21.1
5 11	12 55.82	−19 21.8	2.166	3.068	10.1	21.3

229237 2004 XG_{79} 4 10.3 130°.68 0°.1/10.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.38	− 9 51.4	2.085	2.869	14.3	21.0
3 12	13 37.53	− 9 34.2	1.999	2.874	11.3	20.8
3 22	13 31.57	− 9 5.4	1.935	2.878	7.8	20.6
4 1	13 24.01	− 8 27.4	1.896	2.883	3.8	20.3
4 11	13 15.67	− 7 44.4	1.886	2.888	0.3	20.1
4 21	13 7.42	− 7 1.4	1.904	2.892	4.4	20.4
5 1	13 0.14	− 6 23.7	1.949	2.896	8.3	20.6
5 11	12 54.52	− 5 55.4	2.019	2.900	11.7	20.9

158496 2002 EG_{43} 4 10.3 301°.65 3°.2/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 36.39	− 4 55.5	1.798	2.614	14.9	20.0
3 12	13 34.03	− 3 35.7	1.707	2.604	11.7	19.8
3 22	13 29.42	− 2 1.5	1.639	2.594	7.9	19.5
4 1	13 23.04	− 0 19.3	1.596	2.584	4.3	19.3
4 11	13 15.73	+ 1 22.0	1.581	2.575	3.8	19.2
4 21	13 8.44	+ 2 53.6	1.594	2.565	7.3	19.4
5 1	13 2.14	+ 4 7.4	1.632	2.556	11.3	19.6
5 11	12 57.58	+ 4 58.9	1.692	2.548	14.9	19.8

376783 2000 QK_{138} 4 10.3 241°.96 1°.1/11.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.06	−12 37.0	2.267	3.030	13.9	21.6
3 12	13 39.71	−12 38.2	2.155	3.015	11.2	21.4
3 22	13 33.18	−12 27.6	2.064	2.999	8.0	21.1
4 1	13 24.90	−12 6.0	2.000	2.982	4.3	20.9
4 11	13 15.60	−11 35.8	1.964	2.965	1.1	20.6
4 21	13 6.18	−11 1.0	1.957	2.947	4.1	20.8
5 1	12 57.55	−10 26.3	1.979	2.929	8.0	21.0
5 11	12 50.52	− 9 56.7	2.026	2.910	11.5	21.2

344587 2003 BF_{76} 4 10.3 50°.57 2°.0/ 8.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 43.11	− 2 58.8	1.955	2.756	14.4	21.0
3 12	13 38.82	− 2 47.9	1.887	2.774	11.2	20.8
3 22	13 32.36	− 2 30.9	1.842	2.792	7.6	20.6
4 1	13 24.35	− 2 11.5	1.823	2.811	3.8	20.4
4 11	13 15.67	− 1 54.1	1.832	2.830	2.3	20.3
4 21	13 7.23	− 1 42.7	1.869	2.849	5.5	20.6
5 1	12 59.91	− 1 40.5	1.932	2.868	9.1	20.8
5 11	12 54.37	− 1 49.5	2.019	2.888	12.3	21.1

154476 2003 EX_{3} 4 10.3 157°.36 5°.1/14.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.80	−21 51.7	2.043	2.768	16.3	20.6
3 12	13 42.17	−22 36.6	1.949	2.772	13.8	20.5
3 22	13 35.00	−23 5.1	1.875	2.775	10.7	20.3
4 1	13 25.83	−23 15.0	1.824	2.779	7.6	20.1
4 11	13 15.55	−23 6.1	1.801	2.781	5.3	19.9
4 21	13 5.24	−22 41.0	1.805	2.784	5.8	20.0
5 1	12 56.01	−22 4.8	1.836	2.786	8.5	20.1
5 11	12 48.73	−21 24.3	1.892	2.788	11.7	20.3

143963 2003 YA_{130} 4 10.3 67°.08 5°.3/ 6.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.98	+ 2 51.5	1.610	2.431	16.1	19.5
3 12	13 40.12	+ 3 36.9	1.538	2.434	12.7	19.3
3 22	13 33.61	+ 4 26.3	1.487	2.437	9.0	19.1
4 1	13 25.10	+ 5 12.7	1.461	2.441	5.9	18.9
4 11	13 15.62	+ 5 48.5	1.460	2.444	5.7	18.9
4 21	13 6.33	+ 6 7.7	1.486	2.448	8.8	19.1
5 1	12 58.35	+ 6 6.9	1.537	2.452	12.5	19.3
5 11	12 52.50	+ 5 45.3	1.608	2.455	15.9	19.5

264182 2010 EQ_{77} 4 10.3 330°.91 0°.4/10.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.42	−11 34.1	2.116	2.897	14.2	21.0
3 12	13 36.04	−11 17.7	2.024	2.896	11.3	20.8
3 22	13 30.58	−10 48.4	1.954	2.896	7.9	20.6
4 1	13 23.56	−10 8.3	1.910	2.896	4.0	20.4
4 11	13 15.72	− 9 21.5	1.893	2.895	0.4	20.1
4 21	13 7.94	− 8 32.9	1.905	2.895	4.2	20.4
5 1	13 1.07	− 7 48.1	1.944	2.894	8.1	20.6
5 11	12 55.79	− 7 11.8	2.007	2.894	11.5	20.8

505853 2015 CM_{53} 4 10.3 100°.39 1°.4/ 8.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.76	− 6 40.0	2.075	2.871	13.9	21.0
3 12	13 36.23	− 6 5.1	1.992	2.876	10.9	20.8
3 22	13 30.66	− 5 19.9	1.932	2.881	7.4	20.6
4 1	13 23.57	− 4 28.2	1.898	2.886	3.6	20.3
4 11	13 15.73	− 3 35.4	1.892	2.891	1.7	20.2
4 21	13 8.01	− 2 46.8	1.914	2.896	5.1	20.4
5 1	13 1.24	− 2 7.6	1.963	2.901	8.8	20.7
5 11	12 56.08	− 1 41.4	2.036	2.906	12.1	20.9

178014 2006 RG 4 10.3 256°.44 3°.4/13.7 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.32	−19 25.7	2.378	3.115	14.0	20.1
3 12	13 37.48	−19 46.4	2.273	3.108	11.6	20.0
3 22	13 31.59	−19 53.0	2.189	3.101	8.8	19.8
4 1	13 24.09	−19 44.8	2.129	3.094	5.8	19.6
4 11	13 15.69	−19 22.9	2.097	3.087	3.6	19.4
4 21	13 7.24	−18 50.1	2.094	3.080	4.4	19.4
5 1	12 59.58	−18 11.2	2.118	3.072	7.3	19.6
5 11	12 53.45	−17 31.3	2.168	3.065	10.3	19.8

173342 1999 XW_{53} 4 10.3 184°.44 3°.4/ 7.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.37	− 1 5.9	2.013	2.814	14.1	21.1
3 12	13 39.93	− 0 21.6	1.928	2.814	11.1	20.9
3 22	13 33.26	+ 0 29.7	1.865	2.814	7.6	20.6
4 1	13 24.88	+ 1 22.7	1.829	2.813	4.3	20.4
4 11	13 15.64	+ 2 11.4	1.821	2.812	3.7	20.4
4 21	13 6.50	+ 2 50.1	1.841	2.810	6.7	20.6
5 1	12 58.38	+ 3 14.3	1.888	2.807	10.3	20.8
5 11	12 52.02	+ 3 21.8	1.959	2.804	13.5	21.0

497630 2006 QQ_{115} 4 10.3 243°.47 0°.2/10.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.19	−10 58.9	2.016	2.797	14.8	22.0
3 12	13 38.51	−10 22.9	1.907	2.780	11.8	21.7
3 22	13 32.49	− 9 31.4	1.819	2.762	8.2	21.5
4 1	13 24.61	− 8 27.0	1.757	2.744	4.1	21.2
4 11	13 15.65	− 7 14.7	1.723	2.725	0.5	20.9
4 21	13 6.58	− 6 1.0	1.718	2.705	5.0	21.2
5 1	12 58.40	− 4 53.2	1.740	2.685	9.3	21.4
5 11	12 51.95	− 3 57.6	1.787	2.664	13.2	21.6

36686 2000 RH_{4} 4 10.3 126°.51 3°.2/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.98	− 1 59.5	1.626	2.435	16.5	17.9
3 12	13 41.68	− 1 29.8	1.551	2.442	13.0	17.7
3 22	13 34.68	− 0 52.3	1.497	2.449	8.9	17.4
4 1	13 25.63	− 0 12.4	1.468	2.455	4.7	17.2
4 11	13 15.60	+ 0 23.4	1.466	2.461	3.5	17.1
4 21	13 5.76	+ 0 49.1	1.491	2.467	7.1	17.4
5 1	12 57.26	+ 1 0.3	1.541	2.473	11.3	17.6
5 11	12 50.93	+ 0 54.5	1.614	2.478	15.0	17.8

294723 2008 BR_{37} 4 10.3 148°.29 8°.1/20.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 47.55	−37 37.3	2.971	3.563	14.0	21.1
3 12	13 42.32	−38 43.9	2.873	3.571	12.7	21.0
3 22	13 34.90	−39 33.0	2.793	3.578	11.1	20.9
4 1	13 25.74	−40 1.0	2.735	3.585	9.6	20.8
4 11	13 15.59	−40 6.0	2.701	3.592	8.5	20.7
4 21	13 5.36	−39 48.4	2.693	3.598	8.1	20.7
5 1	12 55.96	−39 11.1	2.711	3.604	8.6	20.7
5 11	12 48.17	−38 19.9	2.754	3.609	9.8	20.8

390976 2005 RZ_{21} 4 10.3 231°.08 1°.8/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.95	−14 55.3	2.947	3.687	11.5	21.4
3 12	13 38.28	−15 9.9	2.832	3.675	9.3	21.2
3 22	13 31.89	−15 15.0	2.740	3.663	6.8	21.0
4 1	13 24.17	−15 10.7	2.676	3.651	4.0	20.8
4 11	13 15.71	−14 58.4	2.641	3.638	1.8	20.6
4 21	13 7.17	−14 40.3	2.636	3.625	3.3	20.7
5 1	12 59.24	−14 19.6	2.661	3.611	6.2	20.9
5 11	12 52.52	−13 59.9	2.713	3.597	9.0	21.1

456762 2007 TB_{99} 4 10.3 109°.56 0°.8/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.04	−11 7.8	1.649	2.445	16.9	21.5
3 12	13 37.75	−10 7.5	1.573	2.456	13.3	21.3
3 22	13 31.94	− 8 48.7	1.519	2.467	9.1	21.1
4 1	13 24.26	− 7 16.5	1.490	2.478	4.3	20.8
4 11	13 15.71	− 5 39.0	1.488	2.489	1.1	20.6
4 21	13 7.38	− 4 5.3	1.513	2.499	5.7	20.9
5 1	13 0.31	− 2 44.2	1.565	2.509	10.2	21.2
5 11	12 55.26	− 1 41.8	1.640	2.519	14.1	21.5

357978 2006 BL_{172} 4 10.3 330°.52 2°.1/ 8.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.53	− 7 11.8	1.311	2.137	18.9	21.2
3 12	13 37.41	− 6 31.5	1.231	2.131	14.9	20.9
3 22	13 32.24	− 5 34.2	1.170	2.126	10.2	20.6
4 1	13 24.62	− 4 24.9	1.131	2.121	5.0	20.3
4 11	13 15.68	− 3 12.4	1.117	2.117	2.4	20.1
4 21	13 6.79	− 2 6.4	1.127	2.113	7.3	20.4
5 1	12 59.31	− 1 15.9	1.162	2.109	12.5	20.7
5 11	12 54.29	− 0 46.7	1.216	2.106	17.1	20.9

507438 2012 SG_{17} 4 10.3 216°.40 1°.5/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.67	−13 40.2	2.350	3.109	13.5	22.3
3 12	13 38.45	−13 47.2	2.248	3.105	10.9	22.1
3 22	13 32.20	−13 42.6	2.168	3.100	7.8	21.9
4 1	13 24.38	−13 27.0	2.115	3.095	4.4	21.7
4 11	13 15.71	−13 2.8	2.089	3.089	1.6	21.5
4 21	13 7.01	−12 33.3	2.093	3.084	3.9	21.6
5 1	12 59.13	−12 3.0	2.126	3.078	7.4	21.8
5 11	12 52.78	−11 36.5	2.183	3.071	10.7	22.0

189783 2002 CC_{302} 4 10.3 93°.69 1°.7/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.46	−14 26.7	1.906	2.679	15.8	20.3
3 12	13 37.91	−14 24.1	1.818	2.683	12.7	20.1
3 22	13 32.02	−14 6.1	1.751	2.686	9.1	19.9
4 1	13 24.33	−13 33.8	1.709	2.690	5.1	19.6
4 11	13 15.71	−12 50.8	1.693	2.693	1.7	19.4
4 21	13 7.18	−12 2.2	1.705	2.697	4.4	19.6
5 1	12 59.70	−11 14.2	1.745	2.700	8.4	19.8
5 11	12 54.07	−10 32.7	1.808	2.704	12.1	20.1

499349 2009 WC_{254} 4 10.3 83°.50 5°.9/ 5.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.26	+ 6 49.1	1.887	2.700	14.4	20.8
3 12	13 39.88	+ 7 34.2	1.818	2.708	11.5	20.7
3 22	13 33.20	+ 8 19.0	1.772	2.715	8.4	20.5
4 1	13 24.83	+ 8 57.0	1.752	2.723	6.2	20.4
4 11	13 15.69	+ 9 21.8	1.758	2.730	6.4	20.4
4 21	13 6.78	+ 9 29.0	1.791	2.737	8.8	20.5
5 1	12 59.03	+ 9 16.5	1.849	2.745	11.8	20.7
5 11	12 53.15	+ 8 44.8	1.930	2.752	14.6	20.9

299257 2005 NG_{24} 4 10.3 154°.96 2°.8/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.11	−20 26.4	2.727	3.454	12.6	21.3
3 12	13 35.35	−20 21.9	2.629	3.458	10.4	21.2
3 22	13 29.89	−20 2.9	2.553	3.463	7.8	21.0
4 1	13 23.16	−19 29.7	2.503	3.467	5.1	20.8
4 11	13 15.81	−18 44.4	2.480	3.470	3.0	20.7
4 21	13 8.50	−17 50.5	2.487	3.474	3.7	20.7
5 1	13 1.94	−16 52.8	2.523	3.477	6.3	20.9
5 11	12 56.68	−15 56.4	2.585	3.480	9.0	21.1

18262 5125 T_{-2} 4 10.3 307°.05 5°.4/15.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.16	−23 50.7	2.106	2.833	15.8	18.3
3 12	13 36.32	−24 21.6	1.989	2.812	13.5	18.1
3 22	13 31.14	−24 34.6	1.892	2.790	10.8	17.9
4 1	13 24.02	−24 27.6	1.818	2.769	7.9	17.7
4 11	13 15.73	−24 0.4	1.770	2.748	5.7	17.5
4 21	13 7.23	−23 15.4	1.747	2.727	5.9	17.5
5 1	12 59.55	−22 18.0	1.752	2.706	8.5	17.6
5 11	12 53.60	−21 15.6	1.780	2.686	11.7	17.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
62750 2000 UO_4			4 10.4 255°.41		5°.0/ 6.2 18	
	h m	° ′			°	m
3 2	13 44.19	+ 4 12.4	1.937	2.747	14.2	19.0
3 12	13 39.96	+ 4 49.3	1.850	2.740	11.3	18.8
3 22	13 33.38	+ 5 28.6	1.787	2.733	8.1	18.6
4 1	13 25.00	+ 6 4.2	1.749	2.726	5.5	18.4
4 11	13 15.69	+ 6 30.1	1.738	2.719	5.4	18.4
4 21	13 6.44	+ 6 41.4	1.755	2.712	8.1	18.6
5 1	12 58.23	+ 6 35.0	1.797	2.705	11.4	18.7
5 11	12 51.85	+ 6 10.3	1.862	2.697	14.6	18.9
348862 2006 SK_{133}			4 10.4 198°.94		2°.3/13.2 18	
3 2	13 38.80	−18 45.6	2.622	3.360	12.8	21.8
3 12	13 35.21	−18 32.3	2.519	3.358	10.5	21.6
3 22	13 29.86	−18 4.2	2.437	3.356	7.8	21.4
4 1	13 23.19	−17 22.0	2.382	3.353	4.8	21.2
4 11	13 15.83	−16 28.3	2.355	3.350	2.4	21.1
4 21	13 8.49	−15 27.2	2.357	3.346	3.6	21.1
5 1	13 1.89	−14 23.7	2.388	3.342	6.5	21.3
5 11	12 56.62	−13 23.2	2.445	3.338	9.5	21.5
4653 Tommaso			4 10.4 314°.77		0°.5/10.9 18	
3 2	13 35.19	−14 23.6	1.660	2.456	16.8	16.6
3 12	13 33.49	−13 38.5	1.559	2.439	13.6	16.4
3 22	13 29.32	−12 30.9	1.477	2.422	9.6	16.1
4 1	13 23.14	−11 3.3	1.419	2.405	5.0	15.8
4 11	13 15.83	− 9 22.0	1.387	2.389	0.5	15.4
4 21	13 8.44	− 7 36.1	1.382	2.374	5.2	15.7
5 1	13 2.08	− 5 56.1	1.403	2.358	10.1	15.9
5 11	12 57.66	− 4 31.1	1.447	2.344	14.5	16.2
382802 2003 UT_{130}			4 10.4 221°.09		4°.9/15.9 18	
3 2	13 41.31	−26 12.7	2.502	3.199	14.3	21.9
3 12	13 37.49	−26 23.9	2.391	3.191	12.3	21.7
3 22	13 31.61	−26 17.1	2.300	3.183	9.8	21.6
4 1	13 24.13	−25 50.5	2.232	3.174	7.2	21.4
4 11	13 15.77	−25 5.1	2.192	3.164	5.3	21.2
4 21	13 7.36	−24 3.8	2.179	3.154	5.3	21.2
5 1	12 59.76	−22 51.9	2.194	3.144	7.3	21.3
5 11	12 53.68	−21 36.4	2.236	3.133	10.0	21.5
10240 1998 VW_{34}			4 10.4 153°.84		0°.1/10.5 18	
3 2	13 40.02	−10 59.8	2.256	3.034	13.5	18.7
3 12	13 36.34	−10 36.6	2.166	3.037	10.7	18.5
3 22	13 30.71	−10 1.2	2.099	3.040	7.4	18.3
4 1	13 23.63	− 9 16.2	2.057	3.043	3.7	18.0
4 11	13 15.81	− 8 25.7	2.044	3.046	0.2	17.7
4 21	13 8.07	− 7 34.4	2.059	3.048	4.1	18.1
5 1	13 1.20	− 6 47.7	2.103	3.050	7.8	18.3
5 11	12 55.84	− 6 10.0	2.171	3.052	11.0	18.5
378328 2007 GQ_{55}			4 10.4 186°.18		3°.5/ 7.1 17	
3 2	13 42.28	− 0 15.6	2.030	2.836	13.8	21.4
3 12	13 38.29	+ 0 24.7	1.947	2.836	10.8	21.2
3 22	13 32.14	+ 1 10.7	1.886	2.836	7.5	21.0
4 1	13 24.36	+ 1 57.6	1.851	2.835	4.3	20.8
4 11	13 15.76	+ 2 39.3	1.845	2.835	3.9	20.8
4 21	13 7.26	+ 3 10.8	1.866	2.834	6.7	20.9
5 1	12 59.75	+ 3 27.9	1.913	2.833	10.2	21.1
5 11	12 53.92	+ 3 28.8	1.984	2.831	13.3	21.3
274004 2007 PS_{21}			4 10.4 300°.33		5°.2/ 4.8 18	
3 2	13 36.72	+ 0 27.6	1.829	2.653	14.4	20.6
3 12	13 34.44	+ 1 56.3	1.726	2.626	11.3	20.4
3 22	13 29.85	+ 3 36.8	1.645	2.598	8.1	20.1
4 1	13 23.38	+ 5 21.4	1.590	2.571	5.5	19.9
4 11	13 15.82	+ 7 0.8	1.563	2.543	6.0	19.9
4 21	13 8.10	+ 8 25.5	1.562	2.516	9.2	20.0
5 1	13 1.26	+ 9 28.2	1.585	2.488	12.9	20.1
5 11	12 56.15	+10 4.7	1.630	2.461	16.5	20.3
181865 1999 BP_{32}			4 10.4 278°.48		6°.8/ 3.7 17	
3 2	13 41.25	+ 6 10.6	1.825	2.646	14.5	20.6
3 12	13 38.00	+ 7 29.4	1.729	2.623	11.7	20.4
3 22	13 32.29	+ 8 53.1	1.655	2.599	8.8	20.2
4 1	13 24.59	+10 13.4	1.607	2.576	6.9	20.0
4 11	13 15.74	+11 21.2	1.585	2.551	7.6	20.0
4 21	13 6.78	+12 8.7	1.590	2.527	10.4	20.1
5 1	12 58.78	+12 30.9	1.618	2.503	13.8	20.2
5 11	12 52.64	+12 26.4	1.666	2.478	17.0	20.4
351598 2005 UO_{527}			4 10.4 272°.96		6°.8/18.4 18	
3 2	13 39.55	−32 1.3	2.589	3.249	14.6	20.4
3 12	13 36.22	−32 30.8	2.475	3.237	12.9	20.3
3 22	13 30.81	−32 41.2	2.380	3.225	10.9	20.1
4 1	13 23.77	−32 29.8	2.306	3.213	8.8	19.9
4 11	13 15.80	−31 56.0	2.258	3.201	7.2	19.8
4 21	13 7.75	−31 1.7	2.236	3.189	6.8	19.8
5 1	13 0.48	−29 51.4	2.240	3.177	8.0	19.8
5 11	12 54.74	−28 31.9	2.271	3.165	10.1	19.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
377110 2002 WA_{30}			4 10.4 274°.02		2°.3/14.8 18	
	h m	° ′			°	m
3 2	13 32.27	−22 11.4	4.490	5.194	8.3	20.9
3 12	13 29.39	−22 3.8	4.378	5.189	6.9	20.8
3 22	13 25.52	−21 46.6	4.289	5.185	5.3	20.7
4 1	13 20.94	−21 20.2	4.226	5.180	3.6	20.5
4 11	13 16.01	−20 45.9	4.193	5.176	2.4	20.4
4 21	13 11.09	−20 5.6	4.189	5.171	2.6	20.5
5 1	13 6.55	−19 21.7	4.214	5.166	4.0	20.6
5 11	13 2.73	−18 37.1	4.268	5.162	5.7	20.7
172904 2005 GR_{79}			4 10.4 40°.16		1°.4/ 9.4 18	
3 2	13 42.38	− 6 50.9	1.350	2.169	18.8	20.4
3 12	13 39.36	− 6 32.9	1.283	2.179	14.8	20.2
3 22	13 33.36	− 6 1.5	1.235	2.189	10.0	19.9
4 1	13 25.08	− 5 21.1	1.211	2.200	4.9	19.6
4 11	13 15.72	− 4 38.6	1.211	2.212	1.7	19.5
4 21	13 6.63	− 4 1.1	1.236	2.223	6.5	19.8
5 1	12 59.06	− 3 35.3	1.286	2.236	11.4	20.1
5 11	12 53.91	− 3 25.3	1.356	2.248	15.6	20.4
338423 2003 BZ_{84}			4 10.4 71°.18		1°.6/11.8 17	
3 2	13 42.01	−13 37.6	2.222	2.987	14.1	20.2
3 12	13 37.93	−13 47.6	2.137	2.997	11.3	20.0
3 22	13 31.81	−13 45.7	2.074	3.007	8.1	19.8
4 1	13 24.18	−13 32.6	2.036	3.016	4.5	19.6
4 11	13 15.79	−13 11.0	2.027	3.026	1.6	19.4
4 21	13 7.50	−12 44.4	2.046	3.036	3.9	19.6
5 1	13 0.14	−12 17.2	2.093	3.046	7.4	19.9
5 11	12 54.38	−11 53.9	2.165	3.056	10.6	20.1
101877 1999 NA_{16}			4 10.4 263°.26		4°.0/13.5 17	
3 2	13 42.82	−19 30.0	1.738	2.495	17.7	20.1
3 12	13 39.64	−19 43.9	1.630	2.479	14.8	19.9
3 22	13 33.67	−19 38.1	1.542	2.463	11.2	19.6
4 1	13 25.38	−19 10.9	1.476	2.446	7.3	19.3
4 11	13 15.69	−18 23.8	1.436	2.429	4.2	19.1
4 21	13 5.79	−17 21.4	1.422	2.411	5.5	19.1
5 1	12 56.95	−16 11.4	1.435	2.394	9.6	19.3
5 11	12 50.23	−15 3.1	1.471	2.376	13.8	19.5
197524 2004 DN_{44}			4 10.4 307°.51		3°.5/ 7.7 18	
3 2	13 38.61	− 5 57.6	1.249	2.082	19.2	20.7
3 12	13 36.86	− 4 51.0	1.168	2.074	15.1	20.5
3 22	13 31.99	− 3 25.0	1.106	2.065	10.3	20.2
4 1	13 24.57	− 1 46.8	1.067	2.057	5.3	19.8
4 11	13 15.75	− 0 7.7	1.052	2.049	4.0	19.7
4 21	13 6.95	+ 1 20.0	1.062	2.042	8.7	20.0
5 1	12 59.60	+ 2 25.9	1.094	2.035	13.9	20.2
5 11	12 54.75	+ 3 3.9	1.146	2.028	18.6	20.5
176496 2001 XC_{251}			4 10.4 154°.70		4°.9/ 4.6 18	
3 2	13 39.86	+ 6 34.4	2.560	3.366	11.3	20.9
3 12	13 35.88	+ 7 27.7	2.484	3.370	8.9	20.7
3 22	13 30.21	+ 8 21.4	2.433	3.373	6.6	20.6
4 1	13 23.32	+ 9 10.4	2.409	3.376	5.0	20.5
4 11	13 15.86	+ 9 49.7	2.413	3.379	5.3	20.5
4 21	13 8.51	+10 15.3	2.445	3.382	7.2	20.6
5 1	13 1.95	+10 24.8	2.503	3.385	9.6	20.8
5 11	12 56.70	+10 17.7	2.585	3.387	11.9	20.9
384169 2009 BW_{30}			4 10.4 148°.79		1°.3/ 8.9 17	
3 2	13 40.15	− 6 11.9	2.405	3.193	12.5	21.7
3 12	13 36.26	− 5 41.2	2.318	3.198	9.7	21.5
3 22	13 30.56	− 5 1.9	2.255	3.203	6.6	21.3
4 1	13 23.53	− 4 17.4	2.219	3.207	3.2	21.1
4 11	13 15.85	− 3 32.1	2.212	3.211	1.5	21.0
4 21	13 8.26	− 2 50.4	2.233	3.215	4.6	21.2
5 1	13 1.49	− 2 16.6	2.283	3.219	7.9	21.4
5 11	12 56.12	− 1 53.8	2.358	3.222	10.9	21.6
127833 2003 FU_{103}			4 10.4 337°.17		2°.8/11.9 18	
3 2	13 45.39	−13 12.5	1.332	2.130	20.1	19.8
3 12	13 42.26	−13 51.6	1.248	2.126	16.4	19.5
3 22	13 35.78	−14 15.5	1.181	2.122	11.9	19.2
4 1	13 26.51	−14 22.9	1.137	2.118	6.9	18.9
4 11	13 15.63	−14 15.7	1.116	2.115	2.8	18.7
4 21	13 4.67	−13 58.2	1.120	2.112	6.0	18.8
5 1	12 55.22	−13 37.0	1.149	2.110	11.1	19.1
5 11	12 48.46	−13 19.8	1.199	2.108	15.9	19.4
87723 2000 SE_{46}			4 10.4 117°.33		7°.6/18.4 18	
3 2	13 45.30	−31 44.2	2.197	2.863	16.8	19.5
3 12	13 40.98	−32 31.1	2.109	2.875	14.8	19.3
3 22	13 34.17	−32 56.7	2.040	2.887	12.4	19.2
4 1	13 25.45	−32 57.4	1.991	2.899	10.0	19.1
4 11	13 15.72	−32 32.5	1.967	2.910	8.1	19.0
4 21	13 6.05	−31 44.3	1.970	2.921	7.7	19.0
5 1	12 57.52	−30 38.6	1.998	2.932	9.0	19.0
5 11	12 50.93	−29 23.3	2.052	2.942	11.1	19.2

419922 2011 BJ_{24} 4 10.4 178°.64 0°.4/ 9.8 15 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 44.25	− 9 37.9	3.184	3.936	10.4	23.9
3 12	13 38.96	− 8 56.7	3.082	3.940	8.2	23.7
3 22	13 32.16	− 8 6.4	3.005	3.943	5.6	23.5
4 1	13 24.26	− 7 9.2	2.958	3.944	2.7	23.3
4 11	13 15.81	− 6 8.9	2.942	3.944	0.6	23.1
4 21	13 7.43	− 5 9.4	2.959	3.943	3.5	23.4
5 1	12 59.70	− 4 14.6	3.007	3.940	6.3	23.6
5 11	12 53.12	− 3 28.0	3.083	3.937	8.9	23.7

384769 2012 LT_{23} 4 10.4 185°.82 4°.4/ 4.7 17

3 2	13 41.94	+ 5 51.8	2.893	3.688	10.4	22.2
3 12	13 37.31	+ 6 49.1	2.808	3.688	8.2	22.0
3 22	13 31.11	+ 7 47.7	2.748	3.687	6.0	21.9
4 1	13 23.76	+ 8 42.8	2.717	3.685	4.5	21.8
4 11	13 15.85	+ 9 29.7	2.716	3.683	4.8	21.8
4 21	13 8.01	+10 4.4	2.744	3.679	6.6	21.9
5 1	13 0.86	+10 24.5	2.799	3.675	8.9	22.1
5 11	12 54.92	+10 29.0	2.878	3.671	11.1	22.2

232622 2003 UJ_{170} 4 10.4 89°.29 0°.6/ 9.8 17

3 2	13 41.47	− 8 26.9	2.102	2.889	14.0	21.3
3 12	13 37.50	− 8 4.3	2.026	2.903	11.0	21.1
3 22	13 31.50	− 7 31.2	1.972	2.918	7.5	20.9
4 1	13 24.01	− 6 50.6	1.944	2.932	3.6	20.7
4 11	13 15.83	− 6 7.2	1.944	2.946	0.8	20.5
4 21	13 7.84	− 5 25.7	1.973	2.960	4.5	20.8
5 1	13 0.84	− 4 51.1	2.030	2.974	8.2	21.1
5 11	12 55.47	− 4 26.9	2.111	2.988	11.5	21.3

382432 1999 RY_{187} 4 10.4 173°.29 0°.8/11.3 17

3 2	13 42.17	−13 4.3	2.722	3.475	12.0	22.4
3 12	13 37.67	−12 49.3	2.624	3.479	9.6	22.2
3 22	13 31.46	−12 23.3	2.550	3.482	6.8	22.0
4 1	13 23.97	−11 47.7	2.503	3.485	3.6	21.8
4 11	13 15.84	−11 5.6	2.485	3.486	0.8	21.6
4 21	13 7.76	−10 20.6	2.498	3.487	3.4	21.8
5 1	13 0.42	− 9 37.1	2.540	3.488	6.6	22.0
5 11	12 54.39	− 8 59.0	2.609	3.487	9.5	22.2

211457 2003 BE_{62} 4 10.4 106°.90 5°.4/ 4.2 17

3 2	13 40.53	+ 7 46.4	2.449	3.257	11.7	20.5
3 12	13 36.40	+ 8 46.5	2.386	3.270	9.3	20.4
3 22	13 30.55	+ 9 46.0	2.346	3.284	7.0	20.3
4 1	13 23.48	+10 39.1	2.334	3.298	5.5	20.2
4 11	13 15.89	+11 20.6	2.350	3.311	5.8	20.2
4 21	13 8.47	+11 46.6	2.393	3.324	7.7	20.4
5 1	13 1.93	+11 55.1	2.462	3.336	10.0	20.5
5 11	12 56.78	+11 45.9	2.554	3.349	12.2	20.7

328776 2009 UA_{136} 4 10.4 243°.50 2°.5/12.6 17

3 2	13 42.74	−16 50.4	2.107	2.861	15.1	21.5
3 12	13 38.93	−16 52.1	1.997	2.847	12.4	21.3
3 22	13 32.81	−16 38.1	1.908	2.833	9.1	21.1
4 1	13 24.83	−16 8.3	1.844	2.819	5.5	20.8
4 11	13 15.78	−15 25.1	1.807	2.804	2.5	20.6
4 21	13 6.61	−14 32.7	1.798	2.788	4.4	20.7
5 1	12 58.31	−13 37.2	1.817	2.773	8.2	20.9
5 11	12 51.74	−12 45.1	1.862	2.756	11.9	21.1

381501 2008 SW_{123} 4 10.4 168°.51 0°.2/10.6 17

3 2	13 39.75	−11 47.8	2.203	2.980	13.8	21.8
3 12	13 36.21	−11 17.7	2.112	2.982	11.0	21.6
3 22	13 30.68	−10 34.0	2.042	2.984	7.6	21.4
4 1	13 23.65	− 9 39.5	1.999	2.985	3.8	21.1
4 11	13 15.87	− 8 38.5	1.984	2.986	0.3	20.8
4 21	13 8.16	− 7 36.7	1.998	2.987	4.2	21.2
5 1	13 1.33	− 6 39.6	2.040	2.988	7.9	21.4
5 11	12 56.05	− 5 52.4	2.107	2.988	11.3	21.6

45323 2000 AF_{68} 4 10.4 119°.42 2°.7/ 7.9 18

3 2	13 41.52	− 5 26.7	1.719	2.526	15.8	18.6
3 12	13 38.03	− 4 25.0	1.644	2.535	12.4	18.3
3 22	13 32.12	− 3 10.7	1.592	2.544	8.3	18.1
4 1	13 24.40	− 1 49.8	1.564	2.553	4.2	17.9
4 11	13 15.82	− 0 30.5	1.565	2.561	3.1	17.8
4 21	13 7.44	+ 0 39.6	1.592	2.569	6.7	18.1
5 1	13 0.25	+ 1 33.7	1.646	2.577	10.7	18.3
5 11	12 55.00	+ 2 8.1	1.722	2.584	14.3	18.6

200989 2002 CV_{137} 4 10.4 154°.67 3°.0/13.2 18

3 2	13 45.98	−19 20.8	2.064	2.802	15.8	20.5
3 12	13 41.30	−19 14.3	1.974	2.813	13.0	20.3
3 22	13 34.27	−18 49.5	1.905	2.822	9.6	20.1
4 1	13 25.45	−18 6.6	1.861	2.831	6.0	19.9
4 11	13 15.76	−17 8.6	1.844	2.838	3.1	19.7
4 21	13 6.18	−16 0.7	1.856	2.845	4.5	19.8
5 1	12 57.71	−14 49.9	1.897	2.851	8.0	20.0
5 11	12 51.11	−13 43.3	1.963	2.856	11.5	20.2

125458 2001 WR_4 4 10.4 231°.63 6°.2/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 43.89	+ 9 57.5	2.501	3.300	11.7	20.5
3 12	13 39.26	+11 8.2	2.407	3.284	9.5	20.3
3 22	13 32.70	+12 18.9	2.337	3.266	7.5	20.2
4 1	13 24.66	+13 23.3	2.294	3.248	6.3	20.0
4 11	13 15.81	+14 15.0	2.281	3.229	6.8	20.0
4 21	13 6.94	+14 49.2	2.295	3.209	8.8	20.1
5 1	12 58.83	+15 3.0	2.334	3.188	11.3	20.3
5 11	12 52.16	+14 55.8	2.397	3.167	13.6	20.4

390282 2013 AN_9 4 10.4 281°.41 3°.2/ 6.9 17

3 2	13 39.46	+ 0 1.9	2.305	3.110	12.4	20.9
3 12	13 35.85	+ 0 40.0	2.217	3.106	9.7	20.7
3 22	13 30.37	+ 1 23.1	2.153	3.102	6.7	20.5
4 1	13 23.48	+ 2 6.6	2.115	3.099	3.9	20.3
4 11	13 15.89	+ 2 45.6	2.106	3.095	3.6	20.3
4 21	13 8.36	+ 3 15.4	2.125	3.092	6.1	20.5
5 1	13 1.65	+ 3 32.6	2.171	3.088	9.2	20.6
5 11	12 56.37	+ 3 35.2	2.240	3.085	12.1	20.8

186634 2003 GA_{45} 4 10.4 279°.47 2°.6/ 7.3 18

3 2	13 36.73	− 3 27.7	2.359	3.162	12.2	20.3
3 12	13 33.69	− 2 31.2	2.269	3.158	9.5	20.1
3 22	13 28.88	− 1 26.2	2.202	3.153	6.4	19.9
4 1	13 22.75	− 0 17.4	2.162	3.148	3.5	19.7
4 11	13 15.95	+ 0 49.6	2.150	3.144	2.9	19.7
4 21	13 9.19	+ 1 49.3	2.168	3.139	5.6	19.8
5 1	13 3.19	+ 2 36.9	2.212	3.135	8.8	20.0
5 11	12 58.53	+ 3 9.3	2.281	3.130	11.7	20.2

501172 2013 TC_{93} 4 10.4 204°.17 0°.0/10.4 17

3 2	13 40.69	−11 45.7	2.335	3.106	13.3	22.4
3 12	13 36.88	−11 9.6	2.234	3.101	10.6	22.2
3 22	13 31.12	−10 20.1	2.156	3.096	7.3	22.0
4 1	13 23.88	− 9 19.6	2.105	3.091	3.7	21.7
4 11	13 15.87	− 8 12.6	2.082	3.084	0.2	21.4
4 21	13 7.87	− 7 4.6	2.090	3.078	4.1	21.7
5 1	13 0.70	− 6 1.3	2.125	3.071	7.8	21.9
5 11	12 54.99	− 5 8.0	2.186	3.063	11.1	22.1

467868 2011 BZ_{84} 4 10.4 82°.46 2°.7/12.8 17

3 2	13 42.50	−17 21.9	1.811	2.575	16.8	21.3
3 12	13 38.82	−17 23.6	1.733	2.588	13.7	21.1
3 22	13 32.68	−17 7.1	1.674	2.602	10.0	20.9
4 1	13 24.70	−16 33.2	1.639	2.615	6.0	20.7
4 11	13 15.82	−15 45.2	1.631	2.628	2.8	20.6
4 21	13 7.11	−14 48.7	1.650	2.641	4.6	20.7
5 1	12 59.60	−13 50.6	1.696	2.654	8.4	20.9
5 11	12 54.06	−12 58.0	1.766	2.666	12.1	21.2

306683 2000 UT_{15} 4 10.4 132°.52 0°.3/10.6 18

3 2	13 44.78	−11 43.7	1.807	2.587	16.3	21.8
3 12	13 40.53	−11 20.7	1.727	2.599	12.9	21.6
3 22	13 33.82	−10 42.4	1.669	2.610	9.0	21.4
4 1	13 25.25	− 9 51.7	1.635	2.621	4.5	21.2
4 11	13 15.79	− 8 53.6	1.629	2.631	0.4	20.8
4 21	13 6.51	− 7 54.6	1.651	2.641	4.8	21.2
5 1	12 58.44	− 7 1.3	1.701	2.650	9.1	21.5
5 11	12 52.36	− 6 19.4	1.774	2.659	12.9	21.7

497824 2006 TE_{129} 4 10.4 136°.87 0°.8/ 9.6 17

3 2	13 41.82	− 6 30.0	2.538	3.318	12.1	22.0
3 12	13 37.48	− 6 20.7	2.449	3.324	9.5	21.8
3 22	13 31.36	− 6 4.4	2.384	3.329	6.5	21.6
4 1	13 23.94	− 5 43.2	2.347	3.334	3.1	21.4
4 11	13 15.88	− 5 20.4	2.338	3.339	0.9	21.2
4 21	13 7.90	− 4 59.5	2.359	3.344	4.1	21.5
5 1	13 0.70	− 4 43.8	2.408	3.348	7.3	21.7
5 11	12 54.88	− 4 36.0	2.484	3.353	10.2	21.9

295853 2008 VG_{67} 4 10.4 241°.20 4°.1/ 7.0 17

3 2	13 46.06	− 0 40.3	1.771	2.577	15.5	21.6
3 12	13 41.89	+ 0 9.1	1.671	2.560	12.3	21.4
3 22	13 35.04	+ 1 7.4	1.593	2.543	8.6	21.1
4 1	13 26.01	+ 2 8.8	1.541	2.525	5.0	20.9
4 11	13 15.73	+ 3 5.7	1.516	2.506	4.5	20.8
4 21	13 5.32	+ 3 50.9	1.519	2.487	8.0	20.9
5 1	12 55.97	+ 4 18.4	1.547	2.466	12.1	21.1
5 11	12 48.65	+ 4 25.2	1.598	2.445	16.0	21.3

62386 2000 SR_{161} 4 10.4 209°.28 0°.6/ 9.8 18

3 2	13 46.11	− 6 50.2	2.491	3.263	12.5	20.1
3 12	13 41.00	− 6 44.5	2.387	3.256	9.9	19.9
3 22	13 33.90	− 6 31.3	2.306	3.248	6.8	19.7
4 1	13 25.27	− 6 12.6	2.253	3.239	3.3	19.4
4 11	13 15.81	− 5 51.6	2.229	3.230	0.8	19.2
4 21	13 6.31	− 5 31.6	2.236	3.221	4.3	19.5
5 1	12 57.61	− 5 16.2	2.271	3.210	7.8	19.7
5 11	12 50.37	− 5 8.6	2.333	3.199	10.9	19.8

219646 2001 UF_{101} 4 10.4 101°.07 0°.2/10.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 43.09	−10 25.9	1.973	2.754	15.0	21.6
3 12	13 38.87	− 9 53.9	1.901	2.775	11.8	21.4
3 22	13 32.48	− 9 8.7	1.851	2.795	8.1	21.2
4 1	13 24.52	− 8 13.8	1.827	2.814	3.9	21.0
4 11	13 15.86	− 7 14.4	1.831	2.833	0.5	20.8
4 21	13 7.45	− 6 16.5	1.864	2.852	4.6	21.1
5 1	13 0.16	− 5 25.9	1.924	2.870	8.5	21.4
5 11	12 54.64	− 4 47.1	2.009	2.887	11.9	21.6

172841 2005 EA_{5} 4 10.4 94°.71 1°.4/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.37	−12 0.1	1.608	2.393	17.7	20.8
3 12	13 42.21	−12 13.6	1.529	2.402	14.3	20.5
3 22	13 35.22	−12 12.9	1.470	2.410	10.1	20.3
4 1	13 26.04	−11 58.8	1.435	2.418	5.4	20.0
4 11	13 15.76	−11 34.7	1.425	2.427	1.4	19.8
4 21	13 5.62	−11 5.7	1.443	2.435	5.0	20.1
5 1	12 56.84	−10 37.9	1.488	2.443	9.6	20.3
5 11	12 50.32	−10 17.0	1.555	2.451	13.7	20.6

425074 2009 RF_{61} 4 10.4 175°.68 10°.2/21.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 51.75	−40 2.9	2.508	3.090	16.6	22.1
3 12	13 46.37	−41 26.7	2.409	3.093	15.2	22.0
3 22	13 38.17	−42 30.3	2.325	3.095	13.6	21.9
4 1	13 27.62	−43 8.2	2.262	3.096	11.9	21.7
4 11	13 15.65	−43 16.7	2.222	3.097	10.7	21.7
4 21	13 3.47	−42 55.2	2.206	3.097	10.2	21.6
5 1	12 52.34	−42 7.2	2.215	3.097	10.7	21.7
5 11	12 43.32	−41 0.1	2.248	3.096	11.9	21.7

519243 2010 WB_{66} 4 10.4 261°.95 8°.8/ 2.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.48	+12 51.6	1.765	2.582	15.1	20.3
3 12	13 40.41	+14 2.2	1.694	2.578	12.5	20.1
3 22	13 33.81	+15 8.9	1.645	2.574	10.1	20.0
4 1	13 25.29	+16 2.7	1.621	2.569	8.8	19.9
4 11	13 15.82	+16 35.3	1.621	2.565	9.5	19.9
4 21	13 6.52	+16 41.6	1.647	2.561	11.7	20.0
5 1	12 58.44	+16 20.0	1.696	2.557	14.4	20.2
5 11	12 52.39	+15 32.5	1.764	2.553	17.1	20.4

472044 2013 YD_{40} 4 10.4 50°.60 6°.1/ 3.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 37.95	+ 6 37.8	2.048	2.869	13.1	20.9
3 12	13 34.82	+ 7 59.1	1.983	2.877	10.4	20.7
3 22	13 29.71	+ 9 21.5	1.942	2.885	7.8	20.6
4 1	13 23.17	+10 37.8	1.928	2.894	6.2	20.5
4 11	13 15.97	+11 40.5	1.940	2.902	6.8	20.6
4 21	13 8.95	+12 24.4	1.979	2.911	9.0	20.7
5 1	13 2.88	+12 46.2	2.042	2.919	11.6	20.9
5 11	12 58.39	+12 45.8	2.126	2.928	14.1	21.1

258509 2002 AE_{125} 4 10.4 351°.96 11°.6/29.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 28.34	+ 9 48.7	1.140	2.011	17.9	18.3
3 12	13 28.90	+12 14.7	1.080	1.999	14.8	18.1
3 22	13 26.55	+14 43.7	1.041	1.988	12.3	17.9
4 1	13 21.89	+16 59.0	1.023	1.980	11.7	17.8
4 11	13 16.05	+18 44.2	1.027	1.973	13.4	17.9
4 21	13 10.32	+19 48.2	1.051	1.969	16.4	18.1
5 1	13 5.98	+20 6.4	1.093	1.966	19.7	18.3
5 11	13 3.94	+19 41.2	1.150	1.966	22.8	18.5

417746 2007 DA_{13} 4 10.4 83°.04 2°.9/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.48	−18 16.0	1.866	2.618	16.8	21.5
3 12	13 40.93	−18 17.0	1.798	2.646	13.7	21.4
3 22	13 33.97	−17 59.7	1.751	2.673	10.0	21.2
4 1	13 25.28	−17 25.0	1.728	2.701	6.1	21.0
4 11	13 15.84	−16 36.2	1.732	2.727	3.1	20.9
4 21	13 6.72	−15 39.1	1.764	2.754	4.5	21.0
5 1	12 58.89	−14 40.4	1.824	2.780	8.1	21.3
5 11	12 53.05	−13 46.8	1.908	2.805	11.5	21.5

55726 1979 MG_{8} 4 10.4 120°.44 5°.6/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.69	+ 8 56.4	2.573	3.379	11.2	19.5
3 12	13 35.70	+10 10.2	2.510	3.393	9.0	19.4
3 22	13 30.06	+11 22.8	2.473	3.407	6.9	19.2
4 1	13 23.28	+12 28.6	2.463	3.420	5.7	19.2
4 11	13 15.98	+13 21.8	2.482	3.433	6.2	19.2
4 21	13 8.85	+13 58.6	2.528	3.445	8.0	19.4
5 1	13 2.54	+14 16.8	2.599	3.458	10.1	19.5
5 11	12 57.53	+14 16.3	2.693	3.469	12.1	19.7

142977 2002 VT_{84} 4 10.4 69°.85 0°.5/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.43	−10 50.0	1.630	2.423	17.2	19.7
3 12	13 39.45	−10 4.6	1.574	2.454	13.5	19.5
3 22	13 32.98	− 9 3.5	1.538	2.484	9.1	19.3
4 1	13 24.77	− 7 51.3	1.526	2.514	4.4	19.1
4 11	13 15.89	− 6 35.3	1.542	2.544	0.7	18.9
4 21	13 7.42	− 5 23.4	1.586	2.574	5.3	19.3
5 1	13 0.34	− 4 22.5	1.656	2.603	9.5	19.6
5 11	12 55.33	− 3 37.6	1.750	2.632	13.2	19.9

267402 2002 AX_{71} 4 10.4 118°.58 10°.7/22.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 46.65	−40 53.8	2.182	2.781	18.4	20.6
3 12	13 42.52	−41 58.9	2.095	2.792	16.8	20.4
3 22	13 35.53	−42 39.0	2.023	2.802	15.0	20.3
4 1	13 26.27	−42 48.7	1.969	2.813	13.1	20.2
4 11	13 15.78	−42 25.1	1.937	2.823	11.5	20.1
4 21	13 5.33	−41 29.4	1.928	2.833	10.7	20.1
5 1	12 56.19	−40 6.9	1.943	2.842	11.1	20.1
5 11	12 49.33	−38 26.9	1.981	2.852	12.4	20.2

156988 2003 KE_{12} 4 10.4 253°.63 4°.7/ 5.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.60	+ 2 50.7	2.203	3.010	12.8	20.4
3 12	13 37.78	+ 3 50.8	2.103	2.991	10.2	20.1
3 22	13 31.88	+ 4 56.1	2.026	2.972	7.3	19.9
4 1	13 24.35	+ 6 0.9	1.976	2.953	5.0	19.8
4 11	13 15.91	+ 6 58.4	1.955	2.933	5.2	19.7
4 21	13 7.41	+ 7 42.9	1.961	2.913	7.7	19.8
5 1	12 59.71	+ 8 9.9	1.994	2.892	10.9	20.0
5 11	12 53.56	+ 8 17.3	2.049	2.871	13.9	20.1

330070 2005 VG_{56} 4 10.4 299°.74 7°.3/ 4.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.38	+ 8 23.9	1.669	2.490	15.7	20.0
3 12	13 40.65	+ 9 13.1	1.583	2.475	12.7	19.8
3 22	13 34.20	+10 1.9	1.519	2.461	9.7	19.6
4 1	13 25.59	+10 42.5	1.479	2.446	7.5	19.4
4 11	13 15.83	+11 6.8	1.464	2.432	7.9	19.4
4 21	13 6.06	+11 8.8	1.475	2.418	10.5	19.5
5 1	12 57.48	+10 45.9	1.509	2.404	14.0	19.7
5 11	12 51.01	+ 9 58.6	1.564	2.391	17.3	19.9

21050 Beck 4 10.4 156°.44 1°.3/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.16	−12 57.6	2.470	3.224	13.1	19.8
3 12	13 40.22	−13 4.8	2.377	3.231	10.5	19.6
3 22	13 33.33	−13 1.4	2.306	3.237	7.5	19.4
4 1	13 24.98	−12 48.1	2.263	3.243	4.1	19.2
4 11	13 15.88	−12 27.3	2.248	3.249	1.3	19.0
4 21	13 6.84	−12 2.3	2.264	3.253	3.7	19.2
5 1	12 58.66	−11 36.9	2.308	3.258	7.0	19.4
5 11	12 51.98	−11 15.2	2.379	3.262	10.1	19.6

423729 2006 BU_{136} 4 10.4 45°.50 3°.2/ 7.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.04	− 2 32.1	1.808	2.621	15.0	21.5
3 12	13 36.81	− 1 44.0	1.731	2.625	11.7	21.3
3 22	13 31.28	− 0 47.2	1.675	2.628	7.9	21.1
4 1	13 24.03	+ 0 12.7	1.646	2.632	4.3	20.9
4 11	13 15.94	+ 1 8.9	1.643	2.636	3.6	20.8
4 21	13 7.99	+ 1 54.9	1.667	2.641	6.8	21.0
5 1	13 1.12	+ 2 25.7	1.717	2.645	10.6	21.3
5 11	12 56.06	+ 2 38.6	1.789	2.649	14.0	21.5

371716 2007 EL_{57} 4 10.4 0°.53 5°.6/13.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.40	−19 48.5	1.685	2.437	18.3	20.0
3 12	13 42.50	−20 54.0	1.595	2.436	15.4	19.8
3 22	13 35.67	−21 43.7	1.524	2.436	12.0	19.6
4 1	13 26.42	−22 14.4	1.475	2.436	8.3	19.4
4 11	13 15.77	−22 25.0	1.452	2.436	5.8	19.2
4 21	13 5.02	−22 17.3	1.455	2.437	6.5	19.2
5 1	12 55.51	−21 56.5	1.483	2.438	9.8	19.4
5 11	12 48.29	−21 30.1	1.535	2.439	13.4	19.6

209001 2003 BD_{10} 4 10.4 60°.89 2°.5/ 7.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.02	− 4 12.9	2.034	2.839	13.8	20.8
3 12	13 35.58	− 3 20.1	1.970	2.860	10.7	20.6
3 22	13 30.18	− 2 18.8	1.929	2.880	7.2	20.4
4 1	13 23.38	− 1 14.2	1.913	2.901	3.7	20.3
4 11	13 15.99	− 0 12.4	1.927	2.922	2.8	20.2
4 21	13 8.84	+ 0 40.8	1.968	2.943	5.8	20.5
5 1	13 2.69	+ 1 20.9	2.035	2.964	9.1	20.7
5 11	12 58.13	+ 1 45.1	2.127	2.985	12.1	20.9

300207 2006 WB_{137} 4 10.4 215°.60 5°.1/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.16	+ 6 57.5	2.399	3.206	11.9	20.7
3 12	13 37.08	+ 7 43.1	2.318	3.204	9.5	20.5
3 22	13 31.17	+ 8 28.8	2.262	3.202	7.0	20.3
4 1	13 23.90	+ 9 9.3	2.232	3.200	5.3	20.2
4 11	13 15.97	+ 9 39.4	2.230	3.198	5.5	20.2
4 21	13 8.14	+ 9 55.2	2.255	3.196	7.6	20.3
5 1	13 1.14	+ 9 54.4	2.307	3.193	10.1	20.5
5 11	12 55.56	+ 9 36.5	2.382	3.191	12.6	20.7

188031 2001 UV_{118} 4 10.4 150°.77 1°.9/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.86	− 4 58.5	2.076	2.870	14.0	21.3
3 12	13 38.70	− 4 23.3	1.993	2.876	10.9	21.1
3 22	13 32.42	− 3 39.2	1.933	2.882	7.4	20.9
4 1	13 24.56	− 2 50.1	1.900	2.888	3.7	20.6
4 11	13 15.93	− 2 1.4	1.895	2.893	2.2	20.5
4 21	13 7.42	− 1 18.4	1.918	2.897	5.5	20.8
5 1	12 59.90	− 0 46.0	1.969	2.902	9.1	21.0
5 11	12 54.06	− 0 27.1	2.043	2.905	12.4	21.2

64259 2001 TL_{188} 4 10.4 31°.11 2°.2/12.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 37.73	−16 42.1	1.945	2.715	15.6	19.1
3 12	13 34.94	−16 32.4	1.863	2.724	12.6	18.9
3 22	13 29.98	−16 5.4	1.801	2.733	9.2	18.7
4 1	13 23.39	−15 22.6	1.764	2.742	5.4	18.5
4 11	13 16.01	−14 27.7	1.753	2.752	2.3	18.3
4 21	13 8.75	−13 26.3	1.770	2.762	4.2	18.4
5 1	13 2.50	−12 25.0	1.814	2.773	7.9	18.7
5 11	12 57.97	−11 30.2	1.882	2.784	11.4	18.9

117081 2004 LB_{11} 4 10.4 279°.79 0°.4/ 9.9 17

3 2	13 37.79	− 9 42.3	2.326	3.111	12.9	20.4
3 12	13 34.64	− 9 12.2	2.228	3.104	10.2	20.2
3 22	13 29.63	− 8 30.6	2.152	3.097	7.0	19.9
4 1	13 23.20	− 7 40.1	2.102	3.090	3.4	19.7
4 11	13 16.02	− 6 45.1	2.081	3.083	0.5	19.4
4 21	13 8.86	− 5 50.5	2.089	3.076	4.2	19.7
5 1	13 2.46	− 5 1.6	2.124	3.069	7.8	19.9
5 11	12 57.47	− 4 22.6	2.184	3.062	11.1	20.1

165301 2000 US_{3} 4 10.4 153°.52 1°.5/ 9.2 18

3 2	13 44.89	− 6 13.6	1.604	2.408	17.0	20.3
3 12	13 41.03	− 5 53.7	1.523	2.410	13.4	20.1
3 22	13 34.43	− 5 22.3	1.462	2.412	9.2	19.8
4 1	13 25.69	− 4 43.2	1.425	2.414	4.5	19.6
4 11	13 15.86	− 4 2.4	1.415	2.416	1.8	19.4
4 21	13 6.13	− 3 26.1	1.432	2.417	6.1	19.7
5 1	12 57.70	− 3 0.3	1.475	2.419	10.7	19.9
5 11	12 51.44	− 2 49.0	1.540	2.420	14.8	20.2

159887 2004 SF_{55} 4 10.4 207°.21 6°.1/ 3.0 18

3 2	13 41.98	+ 9 45.4	2.469	3.273	11.7	20.4
3 12	13 37.73	+10 56.4	2.387	3.267	9.5	20.2
3 22	13 31.63	+12 6.9	2.330	3.261	7.4	20.0
4 1	13 24.15	+13 10.6	2.300	3.254	6.2	20.0
4 11	13 15.98	+14 1.3	2.297	3.247	6.7	20.0
4 21	13 7.87	+14 34.5	2.323	3.239	8.6	20.1
5 1	13 0.56	+14 47.7	2.373	3.230	11.0	20.2
5 11	12 54.67	+14 40.5	2.446	3.221	13.3	20.4

89172 2001 UE_{55} 4 10.4 35°.07 0°.5/10.8 18

3 2	13 36.75	−14 56.8	1.521	2.319	18.0	18.8
3 12	13 34.73	−14 0.4	1.445	2.326	14.4	18.5
3 22	13 30.12	−12 40.5	1.389	2.334	10.1	18.3
4 1	13 23.54	−11 1.2	1.356	2.342	5.1	18.0
4 11	13 16.03	− 9 10.9	1.349	2.351	0.5	17.7
4 21	13 8.70	− 7 19.9	1.369	2.360	5.3	18.1
5 1	13 2.65	− 5 39.1	1.415	2.370	10.0	18.4
5 11	12 58.65	− 4 16.6	1.483	2.380	14.2	18.6

253662 2003 UC_{170} 4 10.4 283°.46 2°.0/11.9 17

3 2	13 42.39	−14 33.7	1.623	2.406	17.7	21.1
3 12	13 39.56	−14 36.7	1.512	2.382	14.5	20.8
3 22	13 33.83	−14 21.8	1.421	2.358	10.6	20.5
4 1	13 25.64	−13 48.9	1.352	2.334	6.0	20.2
4 11	13 15.89	−13 0.8	1.309	2.309	2.1	19.8
4 21	13 5.80	−12 3.0	1.292	2.284	5.3	20.0
5 1	12 56.74	−11 3.7	1.301	2.259	10.4	20.2
5 11	12 49.85	−10 11.3	1.332	2.234	15.1	20.4

366530 2002 QQ_{23} 4 10.4 295°.46 3°.5/ 7.5 17

3 2	13 39.06	− 4 11.9	1.527	2.350	16.8	21.2
3 12	13 36.80	− 3 14.5	1.431	2.331	13.3	20.9
3 22	13 31.80	− 2 2.3	1.356	2.312	9.1	20.6
4 1	13 24.54	− 0 41.2	1.304	2.292	4.9	20.3
4 11	13 15.96	+ 0 39.8	1.278	2.273	4.0	20.2
4 21	13 7.26	+ 1 51.2	1.278	2.254	8.0	20.4
5 1	12 59.66	+ 2 44.6	1.302	2.236	12.7	20.6
5 11	12 54.19	+ 3 14.6	1.347	2.217	17.0	20.8

155232 2005 WL_{5} 4 10.4 216°.99 3°.1/13.7 18

3 2	13 40.24	−21 1.5	2.129	2.868	15.4	19.8
3 12	13 36.90	−20 41.0	2.025	2.863	12.7	19.6
3 22	13 31.38	−20 0.3	1.942	2.857	9.6	19.4
4 1	13 24.14	−18 59.5	1.883	2.851	6.1	19.1
4 11	13 16.01	−17 41.7	1.851	2.845	3.3	18.9
4 21	13 7.87	−16 12.7	1.848	2.838	4.4	19.0
5 1	13 0.68	−14 40.0	1.873	2.831	7.8	19.2
5 11	12 55.16	−13 11.7	1.924	2.823	11.3	19.4

351991 2006 UX_{183} 4 10.4 150°.38 4°.3/15.7 18

3 2	13 40.24	−24 57.9	2.679	3.380	13.4	21.2
3 12	13 36.42	−25 7.9	2.581	3.385	11.3	21.0
3 22	13 30.77	−25 1.6	2.503	3.390	8.9	20.8
4 1	13 23.76	−24 38.1	2.449	3.394	6.5	20.7
4 11	13 16.04	−23 58.8	2.423	3.399	4.6	20.6
4 21	13 8.37	−23 6.7	2.425	3.403	4.7	20.6
5 1	13 1.47	−22 6.5	2.456	3.406	6.6	20.7
5 11	12 55.97	−21 3.9	2.513	3.410	9.1	20.9

123184 2000 UQ_{6} 4 10.4 171°.91 0°.8/11.3 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 42.00	−13 20.1	2.522	3.280	12.8	20.4
3 12	13 37.73	−12 58.0	2.426	3.284	10.2	20.3
3 22	13 31.63	−12 23.4	2.353	3.287	7.2	20.1
4 1	13 24.17	−11 38.2	2.307	3.290	3.8	19.9
4 11	13 16.02	−10 45.9	2.290	3.292	0.8	19.6
4 21	13 7.93	− 9 50.7	2.303	3.293	3.6	19.8
5 1	13 0.64	− 8 57.8	2.345	3.294	7.0	20.1
5 11	12 54.76	− 8 11.7	2.413	3.294	10.1	20.3

188821 2005 YR_{6} 4 10.4 234°.32 0°.9/11.2 17

3 2	13 41.12	−12 41.1	1.921	2.701	15.4	21.1
3 12	13 37.72	−12 28.6	1.828	2.699	12.4	20.9
3 22	13 32.00	−12 1.3	1.757	2.696	8.7	20.7
4 1	13 24.47	−11 21.1	1.710	2.694	4.6	20.4
4 11	13 16.00	−10 31.9	1.690	2.692	0.9	20.1
4 21	13 7.55	− 9 39.3	1.698	2.689	4.5	20.4
5 1	13 0.11	− 8 49.6	1.734	2.687	8.7	20.6
5 11	12 54.46	− 8 8.6	1.793	2.684	12.4	20.9

157291 2004 RH_{309} 4 10.4 143°.47 1°.4/ 9.2 18

3 2	13 43.26	− 5 54.3	2.035	2.827	14.3	20.8
3 12	13 39.11	− 5 34.4	1.950	2.831	11.2	20.6
3 22	13 32.77	− 5 5.5	1.888	2.836	7.6	20.4
4 1	13 24.79	− 4 31.0	1.852	2.840	3.7	20.2
4 11	13 15.99	− 3 55.4	1.844	2.844	1.6	20.0
4 21	13 7.29	− 3 23.6	1.864	2.847	5.1	20.3
5 1	12 59.59	− 3 0.1	1.911	2.851	8.9	20.5
5 11	12 53.61	− 2 48.2	1.983	2.854	12.3	20.7

331554 2000 WH_{160} 4 10.4 193°.63 1°.6/12.4 18

3 2	13 41.00	−17 22.6	2.662	3.402	12.6	22.1
3 12	13 36.93	−16 51.9	2.556	3.399	10.2	22.0
3 22	13 31.08	−16 6.3	2.473	3.396	7.4	21.8
4 1	13 23.91	−15 6.9	2.416	3.392	4.3	21.6
4 11	13 16.05	−13 57.2	2.389	3.387	1.7	21.4
4 21	13 8.22	−12 41.7	2.392	3.382	3.4	21.5
5 1	13 1.13	−11 26.0	2.424	3.376	6.6	21.7
5 11	12 55.38	−10 15.8	2.484	3.369	9.6	21.8

72916 2001 QR_{53} 4 10.4 101°.06 2°.0/ 8.9 18

3 2	13 46.82	− 5 24.7	1.466	2.274	18.1	19.8
3 12	13 42.66	− 5 0.4	1.396	2.286	14.2	19.5
3 22	13 35.56	− 4 24.6	1.347	2.299	9.7	19.3
4 1	13 26.25	− 3 42.0	1.322	2.311	4.7	19.0
4 11	13 15.91	− 2 59.4	1.323	2.323	2.3	18.9
4 21	13 5.83	− 2 23.7	1.351	2.334	6.6	19.2
5 1	12 57.27	− 2 0.7	1.403	2.346	11.3	19.5
5 11	12 51.09	− 1 53.8	1.478	2.356	15.3	19.8

69101 2003 BJ_{72} 4 10.4 65°.14 3°.8/13.9 17

3 2	13 43.33	−19 39.2	2.175	2.913	15.1	19.7
3 12	13 39.14	−20 8.6	2.094	2.929	12.5	19.6
3 22	13 32.77	−20 22.8	2.033	2.944	9.5	19.4
4 1	13 24.79	−20 21.0	1.996	2.960	6.3	19.2
4 11	13 16.00	−20 4.6	1.987	2.975	3.9	19.1
4 21	13 7.32	−19 36.8	2.006	2.991	4.7	19.2
5 1	12 59.65	−19 2.4	2.052	3.006	7.5	19.4
5 11	12 53.69	−18 27.1	2.123	3.022	10.4	19.6

427524 2002 JE_{141} 4 10.4 339°.12 2°.4/ 8.3 16

3 2	13 30.57	− 7 59.4	1.309	2.148	18.1	20.7
3 12	13 30.46	− 7 0.7	1.218	2.127	14.3	20.4
3 22	13 27.62	− 5 40.6	1.147	2.107	9.8	20.1
4 1	13 22.52	− 4 4.7	1.098	2.089	4.8	19.7
4 11	13 16.13	− 2 22.9	1.073	2.072	2.9	19.5
4 21	13 9.65	− 0 47.1	1.072	2.057	7.7	19.8
5 1	13 4.35	+ 0 31.3	1.094	2.044	12.9	20.0
5 11	13 1.25	+ 1 24.4	1.136	2.032	17.6	20.2

217530 2006 WJ_{188} 4 10.4 297°.47 1°.2/11.3 17

3 2	13 40.65	−12 46.0	1.593	2.387	17.5	20.6
3 12	13 38.15	−12 43.5	1.486	2.365	14.2	20.3
3 22	13 32.82	−12 24.0	1.400	2.343	10.2	20.0
4 1	13 25.12	−11 48.3	1.336	2.321	5.5	19.7
4 11	13 15.97	−11 0.0	1.298	2.299	1.2	19.3
4 21	13 6.55	−10 5.3	1.286	2.278	5.4	19.6
5 1	12 58.18	− 9 12.1	1.298	2.256	10.5	19.8
5 11	12 51.96	− 8 28.2	1.334	2.235	15.1	20.0

289752 2005 JX_{62} 4 10.4 104°.87 1°.1/ 9.6 18

3 2	13 45.04	− 7 29.6	1.738	2.533	16.2	21.2
3 12	13 40.80	− 7 7.4	1.665	2.547	12.8	21.0
3 22	13 34.06	− 6 33.5	1.613	2.561	8.7	20.8
4 1	13 25.45	− 5 51.5	1.586	2.574	4.2	20.5
4 11	13 15.98	− 5 7.2	1.586	2.587	1.3	20.3
4 21	13 6.73	− 4 26.3	1.614	2.600	5.4	20.7
5 1	12 58.73	− 3 54.4	1.668	2.612	9.7	20.9
5 11	12 52.77	− 3 35.6	1.746	2.624	13.4	21.2

246770 2009 CJ_{46} 4 10.4 135°.18 4°.3/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 43.07	− 1 35.4	1.619	2.435	16.3	21.0
3 12	13 39.46	− 0 26.8	1.547	2.442	12.7	20.7
3 22	13 33.25	+ 0 51.6	1.496	2.449	8.7	20.5
4 1	13 25.10	+ 2 12.4	1.470	2.455	5.1	20.3
4 11	13 16.00	+ 3 26.8	1.472	2.461	4.8	20.3
4 21	13 7.11	+ 4 26.8	1.499	2.467	8.1	20.5
5 1	12 59.48	+ 5 6.4	1.552	2.472	12.1	20.7
5 11	12 53.94	+ 5 23.3	1.627	2.477	15.6	21.0

58418 Luguhu 4 10.4 157°.25 0°.0/10.3 18

3 2	13 46.35	− 7 45.9	2.921	3.680	11.2	20.3
3 12	13 40.81	− 7 58.1	2.825	3.685	8.8	20.2
3 22	13 33.58	− 8 4.2	2.754	3.691	6.1	20.0
4 1	13 25.11	− 8 5.6	2.711	3.696	3.0	19.8
4 11	13 16.01	− 8 4.2	2.698	3.700	0.2	19.6
4 21	13 6.96	− 8 2.1	2.717	3.705	3.4	19.8
5 1	12 58.62	− 8 1.9	2.767	3.709	6.4	20.0
5 11	12 51.57	− 8 5.8	2.844	3.712	9.1	20.2

5777 Hanaki 4 10.4 190°.60 4°.1/ 5.9 18

3 2	13 42.62	+ 1 42.3	2.295	3.096	12.6	17.6
3 12	13 38.36	+ 2 41.2	2.209	3.095	9.9	17.4
3 22	13 32.14	+ 3 45.0	2.146	3.093	6.9	17.2
4 1	13 24.46	+ 4 48.2	2.112	3.090	4.5	17.1
4 11	13 16.05	+ 5 44.7	2.105	3.087	4.5	17.1
4 21	13 7.70	+ 6 29.2	2.128	3.083	7.0	17.2
5 1	13 0.22	+ 6 57.9	2.177	3.079	10.0	17.4
5 11	12 54.24	+ 7 8.9	2.250	3.074	12.8	17.6

40650 1999 RS_{187} 4 10.4 118°.46 1°.3/11.6 17

3 2	13 44.66	−12 41.9	2.094	2.860	14.7	19.4
3 12	13 40.21	−12 51.2	2.008	2.869	11.8	19.2
3 22	13 33.54	−12 48.5	1.943	2.877	8.4	19.0
4 1	13 25.20	−12 34.6	1.904	2.885	4.6	18.8
4 11	13 16.00	−12 12.4	1.893	2.893	1.4	18.6
4 21	13 6.90	−11 45.7	1.910	2.901	4.1	18.8
5 1	12 58.81	−11 19.1	1.956	2.909	7.9	19.0
5 11	12 52.47	−10 57.3	2.027	2.916	11.3	19.3

312009 2007 QR_{8} 4 10.4 174°.91 2°.1/ 8.5 17

3 2	13 43.63	− 6 22.2	1.914	2.708	15.0	21.6
3 12	13 39.57	− 5 29.1	1.828	2.711	11.7	21.4
3 22	13 33.19	− 4 23.6	1.764	2.713	8.0	21.2
4 1	13 25.05	− 3 10.6	1.727	2.715	4.0	20.9
4 11	13 16.02	− 1 56.8	1.718	2.716	2.4	20.8
4 21	13 7.09	− 0 49.2	1.737	2.716	6.0	21.0
5 1	12 59.22	+ 0 5.6	1.783	2.716	10.0	21.3
5 11	12 53.18	+ 0 43.6	1.854	2.714	13.5	21.5

71844 2000 UB_{81} 4 10.4 248°.06 2°.7/ 8.3 18

3 2	13 45.56	− 3 12.2	1.779	2.581	15.6	20.0
3 12	13 41.52	− 2 43.3	1.679	2.566	12.4	19.7
3 22	13 34.83	− 2 5.2	1.601	2.551	8.5	19.4
4 1	13 26.01	− 1 22.2	1.548	2.536	4.5	19.2
4 11	13 15.95	− 0 40.4	1.523	2.519	3.0	19.0
4 21	13 5.78	− 0 6.1	1.525	2.503	6.8	19.2
5 1	12 56.66	+ 0 15.3	1.553	2.486	11.1	19.4
5 11	12 49.54	+ 0 20.1	1.604	2.468	15.1	19.6

123382 2000 WR_{58} 4 10.4 137°.22 4°.1/15.1 18

3 2	13 42.09	−23 58.1	2.351	3.063	14.7	20.3
3 12	13 38.07	−23 56.6	2.259	3.074	12.4	20.1
3 22	13 32.00	−23 36.4	2.188	3.084	9.6	20.0
4 1	13 24.40	−22 57.2	2.141	3.094	6.7	19.8
4 11	13 16.06	−22 0.9	2.121	3.104	4.4	19.7
4 21	13 7.83	−20 51.9	2.130	3.113	4.7	19.7
5 1	13 0.54	−19 36.3	2.167	3.121	7.1	19.9
5 11	12 54.86	−18 21.1	2.230	3.129	10.0	20.1

508976 2004 XS_{157} 4 10.4 249°.10 2°.4/ 5.6 18

3 2	13 32.52	+ 3 47.8	4.490	5.287	6.9	20.8
3 12	13 29.53	+ 4 21.8	4.400	5.284	5.4	20.7
3 22	13 25.64	+ 4 56.7	4.337	5.280	3.8	20.6
4 1	13 21.11	+ 5 30.1	4.302	5.277	2.6	20.5
4 11	13 16.27	+ 5 59.7	4.296	5.273	2.7	20.5
4 21	13 11.46	+ 6 23.3	4.321	5.270	4.0	20.6
5 1	13 7.01	+ 6 39.1	4.373	5.266	5.6	20.7
5 11	13 3.23	+ 6 46.4	4.451	5.263	7.1	20.8

233168 2005 VJ_{4} 4 10.4 139°.58 4°.1/13.4 18

3 2	13 48.27	−18 36.1	1.611	2.368	18.9	21.0
3 12	13 43.94	−19 5.7	1.527	2.375	15.6	20.8
3 22	13 36.61	−19 16.3	1.462	2.383	11.7	20.5
4 1	13 26.89	−19 6.3	1.420	2.390	7.5	20.3
4 11	13 15.90	−18 37.4	1.404	2.396	4.3	20.1
4 21	13 4.99	−17 54.1	1.414	2.403	5.7	20.2
5 1	12 55.49	−17 3.8	1.451	2.408	9.7	20.4
5 11	12 48.40	−16 15.1	1.511	2.413	13.7	20.7

69705 1998 HM_{70} 4 10.4 97°.04 0°.1/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 41.44	−12 21.8	1.611	2.404	17.4	19.4
3 12	13 38.24	−11 36.2	1.536	2.416	13.8	19.1
3 22	13 32.44	−10 31.7	1.482	2.427	9.5	18.9
4 1	13 24.70	− 9 12.3	1.451	2.438	4.7	18.6
4 11	13 16.05	− 7 45.3	1.447	2.449	0.3	18.3
4 21	13 7.60	− 6 19.3	1.471	2.460	5.3	18.7
5 1	13 0.45	− 5 3.2	1.520	2.471	9.9	19.0
5 11	12 55.37	− 4 3.3	1.593	2.481	13.9	19.3

140651 2001 UU_{32} 4 10.4 226°.16 4°.4/ 5.8 18

3 2	13 41.26	+ 4 19.2	2.388	3.193	12.0	19.8
3 12	13 37.22	+ 5 1.0	2.302	3.189	9.5	19.7
3 22	13 31.33	+ 5 44.7	2.240	3.185	6.8	19.5
4 1	13 24.06	+ 6 25.5	2.205	3.180	4.7	19.3
4 11	13 16.09	+ 6 58.1	2.198	3.176	4.8	19.3
4 21	13 8.19	+ 7 18.4	2.220	3.171	7.0	19.5
5 1	13 1.10	+ 7 23.7	2.268	3.167	9.7	19.6
5 11	12 55.44	+ 7 12.9	2.339	3.162	12.4	19.8

10940 1999 CE_{52} 4 10.4 196°.99 2°.9/ 7.9 18

3 2	13 46.66	− 2 40.2	1.940	2.735	14.8	17.8
3 12	13 41.99	− 2 2.8	1.849	2.732	11.6	17.6
3 22	13 34.90	− 1 17.1	1.781	2.729	8.0	17.4
4 1	13 25.93	− 0 27.8	1.738	2.724	4.3	17.2
4 11	13 15.98	+ 0 19.0	1.724	2.719	3.2	17.1
4 21	13 6.06	+ 0 57.7	1.739	2.713	6.5	17.3
5 1	12 57.20	+ 1 23.1	1.780	2.706	10.4	17.5
5 11	12 50.22	+ 1 32.5	1.846	2.699	13.9	17.7

87953 2000 SC_{370} 4 10.4 255°.35 3°.9/ 6.9 18

3 2	13 42.16	+ 0 7.2	1.956	2.765	14.1	20.3
3 12	13 38.48	+ 0 52.6	1.863	2.754	11.2	20.0
3 22	13 32.51	+ 1 44.5	1.792	2.742	7.8	19.8
4 1	13 24.76	+ 2 37.6	1.747	2.731	4.7	19.6
4 11	13 16.05	+ 3 25.5	1.730	2.719	4.3	19.5
4 21	13 7.33	+ 4 2.1	1.741	2.707	7.3	19.7
5 1	12 59.55	+ 4 22.8	1.777	2.695	10.9	19.9
5 11	12 53.52	+ 4 25.3	1.836	2.683	14.2	20.1

469056 2015 AB_{276} 4 10.4 313°.16 4°.9/ 6.6 17

3 2	13 40.95	+ 1 24.1	1.617	2.441	15.9	20.7
3 12	13 38.07	+ 2 6.9	1.527	2.426	12.6	20.5
3 22	13 32.53	+ 2 56.1	1.459	2.412	8.9	20.2
4 1	13 24.88	+ 3 45.2	1.415	2.398	5.6	20.0
4 11	13 16.05	+ 4 26.4	1.396	2.384	5.3	19.9
4 21	13 7.17	+ 4 53.0	1.404	2.371	8.6	20.1
5 1	12 59.42	+ 5 0.0	1.435	2.358	12.6	20.3
5 11	12 53.71	+ 4 45.4	1.487	2.345	16.4	20.5

380544 2004 NV_{18} 4 10.4 279°.75 0°.3/10.1 17

3 2	13 41.04	−10 21.6	1.935	2.723	15.1	21.7
3 12	13 37.90	− 9 53.7	1.819	2.696	12.1	21.5
3 22	13 32.35	− 9 10.6	1.724	2.669	8.5	21.2
4 1	13 24.81	− 8 14.6	1.654	2.641	4.2	20.9
4 11	13 16.06	− 7 10.4	1.611	2.613	0.5	20.5
4 21	13 7.07	− 6 4.4	1.596	2.584	5.1	20.8
5 1	12 58.90	− 5 3.8	1.608	2.556	9.7	21.0
5 11	12 52.49	− 4 15.1	1.644	2.527	13.8	21.2

374161 2004 VZ_{7} 4 10.4 137°.57 0°.8/ 9.5 17

3 2	13 41.76	− 8 11.9	2.355	3.135	12.9	22.3
3 12	13 37.58	− 7 37.9	2.273	3.147	10.1	22.1
3 22	13 31.54	− 6 53.8	2.213	3.158	6.9	21.9
4 1	13 24.15	− 6 2.9	2.180	3.168	3.3	21.7
4 11	13 16.12	− 5 9.6	2.177	3.178	1.0	21.6
4 21	13 8.21	− 4 18.9	2.203	3.187	4.4	21.8
5 1	13 1.18	− 3 35.5	2.257	3.196	7.8	22.0
5 11	12 55.62	− 3 2.8	2.337	3.205	10.8	22.3

363144 2001 RW_{36} 4 10.4 215°.02 0°.9/11.3 18

3 2	13 42.62	−13 37.5	2.288	3.050	13.8	22.1
3 12	13 38.57	−13 16.3	2.182	3.042	11.1	21.9
3 22	13 32.44	−12 40.9	2.099	3.033	7.9	21.7
4 1	13 24.70	−11 53.0	2.041	3.023	4.2	21.4
4 11	13 16.08	−10 56.0	2.012	3.013	0.9	21.2
4 21	13 7.42	− 9 55.1	2.012	3.002	4.0	21.4
5 1	12 59.59	− 8 56.1	2.041	2.991	7.8	21.6
5 11	12 53.31	− 8 4.4	2.095	2.978	11.3	21.8

340404 2006 EL_{62} 4 10.4 333°.14 5°.0/14.1 17

3 2	13 44.06	−19 55.0	1.824	2.574	17.2	20.0
3 12	13 40.48	−20 46.9	1.728	2.568	14.5	19.8
3 22	13 34.22	−21 23.1	1.650	2.563	11.2	19.5
4 1	13 25.75	−21 41.2	1.596	2.558	7.7	19.3
4 11	13 16.01	−21 40.8	1.567	2.553	5.2	19.1
4 21	13 6.13	−21 24.1	1.565	2.549	5.9	19.2
5 1	12 57.32	−20 56.3	1.589	2.545	9.1	19.3
5 11	12 50.57	−20 24.4	1.637	2.541	12.7	19.5

486697 2013 WW_{104} 4 10.4 40°.82 15°.4/25.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 39.57	−41 0.2	1.105	1.801	29.0	20.7
3 12	13 39.24	−42 21.0	1.039	1.808	26.5	20.5
3 22	13 34.59	−42 58.6	0.982	1.816	23.6	20.3
4 1	13 26.28	−42 41.8	0.938	1.824	20.3	20.1
4 11	13 15.97	−41 24.2	0.910	1.833	17.4	19.9
4 21	13 5.86	−39 8.7	0.900	1.843	15.6	19.9
5 1	12 58.07	−36 9.3	0.910	1.853	15.8	19.9
5 11	12 53.99	−32 48.7	0.940	1.863	17.8	20.0

88865 2001 ST_{251} 4 10.4 84°.32 0°.8/ 9.7 18

3 2	13 43.43	− 6 10.6	2.277	3.061	13.2	19.5
3 12	13 38.95	− 6 7.4	2.196	3.072	10.4	19.3
3 22	13 32.52	− 5 57.0	2.138	3.083	7.0	19.1
4 1	13 24.65	− 5 41.6	2.107	3.094	3.4	18.9
4 11	13 16.09	− 5 24.8	2.104	3.105	1.0	18.7
4 21	13 7.66	− 5 10.0	2.131	3.116	4.4	19.0
5 1	13 0.16	− 5 0.7	2.185	3.127	7.8	19.2
5 11	12 54.20	− 4 59.4	2.265	3.138	10.9	19.4

182344 2001 QJ_{10} 4 10.4 240°.18 0°.8/ 9.6 17

3 2	13 41.93	− 8 40.4	1.989	2.778	14.7	21.0
3 12	13 38.34	− 8 9.1	1.888	2.767	11.6	20.8
3 22	13 32.46	− 7 24.8	1.809	2.755	8.0	20.6
4 1	13 24.77	− 6 30.6	1.755	2.743	3.9	20.3
4 11	13 16.08	− 5 31.8	1.730	2.731	1.0	20.0
4 21	13 7.33	− 4 34.2	1.732	2.718	5.1	20.3
5 1	12 59.51	− 3 44.4	1.762	2.705	9.3	20.5
5 11	12 53.41	− 3 7.2	1.816	2.692	13.1	20.7

44220 1998 QT_{7} 4 10.4 228°.48 2°.1/12.4 18

3 2	13 44.34	−16 9.1	2.131	2.884	14.9	20.1
3 12	13 40.20	−16 7.7	2.021	2.872	12.2	19.9
3 22	13 33.75	−15 51.0	1.933	2.859	9.0	19.6
4 1	13 25.43	−15 19.2	1.870	2.846	5.3	19.4
4 11	13 16.04	−14 34.7	1.834	2.832	2.2	19.1
4 21	13 6.53	−13 41.9	1.827	2.818	4.3	19.2
5 1	12 57.91	−12 46.9	1.849	2.803	8.2	19.4
5 11	12 51.01	−11 56.0	1.895	2.787	11.9	19.6

378794 2008 SL_{99} 4 10.4 104°.36 2°.0/ 8.4 17

3 2	13 39.32	− 5 53.4	2.012	2.813	14.1	21.3
3 12	13 36.06	− 5 5.3	1.929	2.816	11.0	21.1
3 22	13 30.72	− 4 6.3	1.868	2.819	7.4	20.8
4 1	13 23.81	− 3 1.1	1.834	2.822	3.7	20.6
4 11	13 16.14	− 1 55.8	1.828	2.826	2.3	20.5
4 21	13 8.57	− 0 56.6	1.849	2.829	5.6	20.7
5 1	13 1.96	− 0 9.1	1.897	2.832	9.3	21.0
5 11	12 56.97	+ 0 22.9	1.969	2.835	12.7	21.2

50493 2000 DL_{93} 4 10.4 357°.90 0°.6/ 9.9 18 R

3 2	13 40.57	− 8 23.7	2.017	2.808	14.4	19.4
3 12	13 37.11	− 8 5.5	1.928	2.808	11.4	19.2
3 22	13 31.49	− 7 36.2	1.861	2.808	7.8	18.9
4 1	13 24.23	− 6 58.7	1.820	2.808	3.8	18.7
4 11	13 16.12	− 6 17.5	1.806	2.808	0.8	18.5
4 21	13 8.06	− 5 37.6	1.820	2.808	4.7	18.7
5 1	13 0.96	− 5 4.3	1.862	2.808	8.7	19.0
5 11	12 55.52	− 4 41.5	1.927	2.808	12.2	19.2

99041 2001 EQ_{5} 4 10.4 306°.15 2°.9/ 7.8 18

3 2	13 40.25	− 2 36.6	1.925	2.734	14.3	19.4
3 12	13 36.96	− 1 57.9	1.838	2.729	11.2	19.2
3 22	13 31.45	− 1 10.9	1.772	2.724	7.7	19.0
4 1	13 24.23	− 0 20.6	1.733	2.720	4.1	18.7
4 11	13 16.12	+ 0 27.1	1.721	2.715	3.2	18.7
4 21	13 8.06	+ 1 6.4	1.736	2.711	6.4	18.9
5 1	13 0.97	+ 1 32.3	1.777	2.707	10.2	19.1
5 11	12 55.61	+ 1 42.0	1.841	2.703	13.6	19.3

378592 2008 EK_{42} 4 10.4 283°.54 0°.9/11.9 18

3 2	13 37.12	−12 55.3	4.397	5.139	7.9	20.8
3 12	13 33.16	−13 6.6	4.290	5.136	6.4	20.7
3 22	13 28.16	−13 12.1	4.208	5.134	4.5	20.6
4 1	13 22.41	−13 12.3	4.154	5.132	2.5	20.4
4 11	13 16.25	−13 8.5	4.130	5.129	1.0	20.3
4 21	13 10.09	−13 2.0	4.137	5.127	2.2	20.4
5 1	13 4.32	−12 54.6	4.175	5.124	4.2	20.5
5 11	12 59.29	−12 48.4	4.240	5.122	6.1	20.7

262414 2006 UB_{45} 4 10.4 239°.08 1°.3/ 9.3 17

3 2	13 44.12	− 6 37.5	1.970	2.761	14.7	21.4
3 12	13 40.11	− 6 13.2	1.868	2.748	11.7	21.2
3 22	13 33.72	− 5 38.0	1.788	2.735	8.0	20.9
4 1	13 25.43	− 4 55.2	1.733	2.721	3.9	20.6
4 11	13 16.07	− 4 9.7	1.707	2.707	1.6	20.4
4 21	13 6.63	− 3 27.1	1.709	2.692	5.5	20.7
5 1	12 58.12	− 2 53.0	1.737	2.677	9.7	20.9
5 11	12 51.40	− 2 31.7	1.790	2.662	13.4	21.1

519284 2011 BW_{166} 4 10.4 196°.85 6°.0/16.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 45.60	−27 34.0	2.358	3.043	15.4	22.6
3 12	13 41.14	−28 8.4	2.252	3.040	13.3	22.4
3 22	13 34.35	−28 24.5	2.166	3.036	10.8	22.3
4 1	13 25.73	−28 19.8	2.102	3.032	8.3	22.1
4 11	13 16.06	−27 53.8	2.065	3.028	6.4	22.0
4 21	13 6.30	−27 8.8	2.055	3.023	6.3	22.0
5 1	12 57.47	−26 9.7	2.074	3.017	8.1	22.0
5 11	12 50.36	−25 3.7	2.117	3.010	10.7	22.2

329588 2003 AX_{39} 4 10.4 51°.36 1°.8/11.9 18

3 2	13 42.37	−15 39.2	1.426	2.215	19.4	20.1
3 12	13 39.15	−15 21.7	1.369	2.243	15.5	19.9
3 22	13 33.11	−14 42.9	1.331	2.270	11.0	19.7
4 1	13 25.04	−13 45.6	1.316	2.298	6.1	19.5
4 11	13 16.13	−12 36.1	1.326	2.327	1.9	19.3
4 21	13 7.65	−11 22.8	1.363	2.355	5.0	19.6
5 1	13 0.71	−10 14.5	1.424	2.384	9.6	19.9
5 11	12 56.08	− 9 18.6	1.509	2.413	13.6	20.2

204889 2007 TR_{269} 4 10.4 201°.83 0°.6/ 9.7 18

3 2	13 40.08	− 8 34.4	2.461	3.241	12.4	21.4
3 12	13 36.33	− 8 6.2	2.365	3.239	9.8	21.2
3 22	13 30.76	− 7 28.0	2.291	3.236	6.7	21.0
4 1	13 23.83	− 6 42.5	2.245	3.232	3.3	20.7
4 11	13 16.20	− 5 53.7	2.227	3.229	0.8	20.5
4 21	13 8.60	− 5 6.2	2.239	3.225	4.2	20.8
5 1	13 1.75	− 4 24.6	2.279	3.220	7.6	21.0
5 11	12 56.27	− 3 52.6	2.344	3.216	10.7	21.2

88329 2001 OO_{57} 4 10.4 191°.03 2°.3/ 7.9 17 R

3 2	13 42.57	− 4 0.0	2.335	3.125	12.7	20.7
3 12	13 38.34	− 3 13.6	2.242	3.123	10.0	20.5
3 22	13 32.17	− 2 18.8	2.173	3.121	6.8	20.3
4 1	13 24.54	− 1 19.8	2.132	3.118	3.5	20.1
4 11	13 16.17	− 0 21.8	2.119	3.115	2.6	20.0
4 21	13 7.84	+ 0 29.8	2.136	3.111	5.5	20.2
5 1	13 0.35	+ 1 10.4	2.181	3.106	8.8	20.4
5 11	12 54.34	+ 1 36.9	2.251	3.101	11.9	20.5

337408 2001 QS_{234} 4 10.4 151°.82 2°.7/14.2 18

3 2	13 42.83	−20 51.5	3.431	4.134	10.7	22.5
3 12	13 37.92	−21 1.2	3.333	4.145	8.8	22.4
3 22	13 31.56	−20 59.7	3.258	4.156	6.7	22.3
4 1	13 24.15	−20 46.8	3.209	4.166	4.5	22.1
4 11	13 16.20	−20 23.7	3.190	4.175	2.9	22.0
4 21	13 8.30	−19 52.8	3.202	4.184	3.3	22.1
5 1	13 1.02	−19 17.1	3.244	4.192	5.3	22.2
5 11	12 54.84	−18 40.3	3.314	4.200	7.4	22.4

134313 4816 $P–L$ 4 10.4 213°.31 0°.6/ 9.9 16

3 2	13 44.37	− 9 19.6	2.073	2.852	14.5	22.3
3 12	13 40.16	− 8 48.8	1.971	2.844	11.5	22.0
3 22	13 33.67	− 8 5.1	1.892	2.835	7.9	21.8
4 1	13 25.39	− 7 11.3	1.839	2.826	3.9	21.5
4 11	13 16.13	− 6 12.2	1.814	2.815	0.8	21.3
4 21	13 6.83	− 5 13.8	1.818	2.804	4.9	21.6
5 1	12 58.46	− 4 22.1	1.850	2.793	9.0	21.8
5 11	12 51.80	− 3 42.2	1.907	2.780	12.7	22.0

404404 2013 GS_{58} 4 10.4 39°.74 0°.6/10.1 18

3 2	13 42.63	− 8 56.7	1.219	2.041	20.3	20.2
3 12	13 39.97	− 8 44.7	1.155	2.052	16.0	19.9
3 22	13 34.08	− 8 16.2	1.110	2.063	11.0	19.7
4 1	13 25.69	− 7 34.9	1.086	2.075	5.4	19.4
4 11	13 16.11	− 6 48.0	1.086	2.088	0.8	19.1
4 21	13 6.83	− 6 3.4	1.111	2.101	6.4	19.5
5 1	12 59.22	− 5 29.1	1.159	2.115	11.6	19.9
5 11	12 54.24	− 5 10.6	1.228	2.129	16.2	20.2

97871 2000 QG_{33} 4 10.4 169°.42 4°.7/ 5.9 18

3 2	13 45.98	+ 2 47.7	2.085	2.886	13.7	20.4
3 12	13 41.16	+ 3 49.2	2.007	2.892	10.8	20.2
3 22	13 34.16	+ 4 54.8	1.952	2.896	7.7	20.0
4 1	13 25.54	+ 5 58.4	1.923	2.900	5.1	19.9
4 11	13 16.13	+ 6 53.1	1.924	2.903	5.2	19.9
4 21	13 6.86	+ 7 33.4	1.953	2.905	7.7	20.0
5 1	12 58.63	+ 7 55.5	2.008	2.906	10.9	20.2
5 11	12 52.12	+ 7 58.3	2.086	2.906	13.8	20.4

65873 1997 WD_{7} 4 10.4 81°.15 4°.4/13.8 18

3 2	13 44.48	−19 51.9	1.529	2.293	19.4	18.6
3 12	13 41.06	−20 12.7	1.452	2.303	16.1	18.4
3 22	13 34.67	−20 11.6	1.392	2.313	12.2	18.2
4 1	13 25.97	−19 47.7	1.355	2.324	7.9	17.9
4 11	13 16.10	−19 3.2	1.342	2.334	4.6	17.8
4 21	13 6.37	−18 3.9	1.356	2.345	5.7	17.9
5 1	12 58.08	−16 58.6	1.394	2.355	9.6	18.1
5 11	12 52.18	−15 56.3	1.457	2.365	13.6	18.4

497446 2005 YC_{22} 4 10.4 162°.75 2°.5/13.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 43.35	−18 17.7	2.447	3.183	13.7	22.8
3 12	13 38.95	−18 15.1	2.352	3.189	11.2	22.7
3 22	13 32.59	−17 57.8	2.278	3.195	8.3	22.5
4 1	13 24.76	−17 26.1	2.229	3.200	5.1	22.3
4 11	13 16.17	−16 42.6	2.209	3.204	2.6	22.1
4 21	13 7.65	−15 51.0	2.219	3.208	3.8	22.2
5 1	12 59.98	−14 56.6	2.257	3.211	6.9	22.4
5 11	12 53.82	−14 4.8	2.322	3.213	10.0	22.6

18396 Nellysachs 4 10.4 115°.75 1°.7/ 8.9 18

3 2	13 44.93	− 6 42.2	1.798	2.593	15.8	18.9
3 12	13 40.61	− 6 0.8	1.727	2.610	12.3	18.7
3 22	13 33.89	− 5 7.8	1.678	2.626	8.3	18.5
4 1	13 25.41	− 4 7.8	1.654	2.642	4.1	18.3
4 11	13 16.14	− 3 7.2	1.657	2.657	2.0	18.2
4 21	13 7.12	− 2 12.7	1.689	2.672	5.7	18.4
5 1	12 59.32	− 1 30.0	1.748	2.686	9.8	18.7
5 11	12 53.46	− 1 2.8	1.831	2.699	13.3	18.9

36622 2000 QE_{152} 4 10.4 207°.54 3°.8/ 6.2 18

3 2	13 41.77	+ 0 49.6	2.370	3.169	12.3	20.2
3 12	13 37.71	+ 1 48.7	2.278	3.163	9.6	20.0
3 22	13 31.74	+ 2 53.4	2.210	3.157	6.7	19.8
4 1	13 24.35	+ 3 58.7	2.170	3.150	4.3	19.7
4 11	13 16.21	+ 4 58.5	2.158	3.142	4.2	19.6
4 21	13 8.09	+ 5 47.5	2.176	3.134	6.7	19.8
5 1	13 0.78	+ 6 21.5	2.221	3.125	9.7	19.9
5 11	12 54.90	+ 6 38.5	2.289	3.115	12.5	20.1

470470 2008 AC_{73} 4 10.5 144°.57 3°.7/14.7 18

3 2	13 40.92	−22 4.6	2.615	3.333	13.3	21.7
3 12	13 37.01	−22 17.4	2.518	3.337	11.1	21.5
3 22	13 31.25	−22 15.2	2.442	3.342	8.6	21.3
4 1	13 24.10	−21 57.5	2.391	3.347	5.9	21.2
4 11	13 16.24	−21 25.8	2.367	3.351	3.9	21.1
4 21	13 8.40	−20 43.1	2.372	3.355	4.3	21.1
5 1	13 1.35	−19 53.8	2.406	3.359	6.6	21.2
5 11	12 55.69	−19 3.3	2.466	3.363	9.2	21.4

182518 2001 SL_{314} 4 10.5 221°.94 1°.0/11.5 17

3 2	13 40.75	−15 3.8	2.101	2.866	14.7	21.2
3 12	13 37.32	−14 28.2	1.997	2.859	11.9	21.0
3 22	13 31.72	−13 35.0	1.916	2.851	8.5	20.8
4 1	13 24.42	−12 26.3	1.860	2.842	4.6	20.5
4 11	13 16.22	−11 6.5	1.832	2.833	1.0	20.2
4 21	13 8.00	− 9 42.1	1.833	2.824	4.2	20.4
5 1	13 0.68	− 8 20.4	1.862	2.814	8.3	20.7
5 11	12 55.01	− 7 8.4	1.916	2.803	12.0	20.9

368207 2001 QG_{259} 4 10.5 209°.58 3°.1/13.7 17

3 2	13 43.49	−20 0.2	2.396	3.125	14.1	22.0
3 12	13 39.28	−19 58.9	2.287	3.118	11.7	21.8
3 22	13 32.97	−19 41.4	2.199	3.110	8.8	21.6
4 1	13 25.03	−19 7.5	2.136	3.102	5.7	21.4
4 11	13 16.19	−18 19.1	2.101	3.093	3.2	21.2
4 21	13 7.30	−17 20.1	2.095	3.083	4.2	21.2
5 1	12 59.24	−16 16.1	2.118	3.072	7.3	21.4
5 11	12 52.72	−15 13.5	2.168	3.061	10.5	21.6

4680 Lohrmann 4 10.5 128°.82 2°.8/12.9 18

3 2	13 46.49	−17 39.7	1.798	2.553	17.2	18.1
3 12	13 42.09	−17 42.0	1.717	2.567	14.1	17.9
3 22	13 35.09	−17 25.8	1.655	2.580	10.3	17.7
4 1	13 26.10	−16 51.4	1.618	2.592	6.2	17.5
4 11	13 16.14	−16 2.0	1.607	2.604	3.0	17.3
4 21	13 6.34	−15 3.2	1.625	2.615	4.7	17.4
5 1	12 57.81	−14 2.3	1.669	2.625	8.7	17.7
5 11	12 51.37	−13 6.7	1.738	2.635	12.4	17.9

31997 2000 HR_{43} 4 10.5 226°.11 0°.4/10.9 18

3 2	13 42.49	−12 3.7	2.236	3.005	13.8	20.4
3 12	13 38.56	−11 40.7	2.129	2.994	11.1	20.2
3 22	13 32.52	−11 4.3	2.045	2.983	7.8	20.0
4 1	13 24.82	−10 16.2	1.986	2.971	4.0	19.7
4 11	13 16.21	− 9 20.4	1.956	2.958	0.4	19.4
4 21	13 7.54	− 8 22.0	1.956	2.945	4.2	19.7
5 1	12 59.69	− 7 26.9	1.983	2.931	8.1	19.9
5 11	12 53.41	− 6 40.3	2.036	2.917	11.6	20.1

422766 2001 UJ_{37} 4 10.5 168°.35 2°.5/ 7.5 15

3 2	13 42.81	− 2 39.1	2.549	3.337	11.8	23.2
3 12	13 38.29	− 1 48.4	2.463	3.343	9.2	23.0
3 22	13 32.01	− 0 51.0	2.401	3.348	6.3	22.8
4 1	13 24.44	+ 0 9.0	2.367	3.352	3.4	22.6
4 11	13 16.24	+ 1 6.4	2.363	3.356	2.8	22.6
4 21	13 8.14	+ 1 56.6	2.389	3.358	5.4	22.8
5 1	13 0.83	+ 2 35.5	2.443	3.360	8.3	22.9
5 11	12 54.90	+ 3 0.6	2.522	3.361	11.1	23.1

498606 2008 RF_{58} 4 10.5 229°.83 1°.2/ 9.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 40.67	− 7 41.7	2.218	3.005	13.4	22.3
3 12	13 37.07	− 7 4.0	2.118	2.996	10.6	22.1
3 22	13 31.45	− 6 14.9	2.041	2.988	7.2	21.9
4 1	13 24.28	− 5 17.9	1.990	2.978	3.5	21.6
4 11	13 16.26	− 4 17.9	1.968	2.969	1.4	21.4
4 21	13 8.23	− 3 20.5	1.975	2.958	4.9	21.6
5 1	13 1.02	− 2 31.1	2.009	2.948	8.6	21.9
5 11	12 55.33	− 1 54.2	2.068	2.937	12.0	22.0

169532 2002 EO_{67} 4 10.5 316°.69 1°.7/11.6 17

3 2	13 38.95	−13 39.2	1.345	2.152	19.5	19.8
3 12	13 37.28	−13 40.1	1.251	2.136	15.9	19.5
3 22	13 32.52	−13 20.8	1.175	2.120	11.4	19.2
4 1	13 25.14	−12 42.0	1.120	2.105	6.3	18.8
4 11	13 16.20	−11 47.6	1.090	2.091	1.7	18.5
4 21	13 7.06	−10 45.3	1.083	2.077	5.8	18.7
5 1	12 59.19	− 9 44.4	1.100	2.063	11.3	19.0
5 11	12 53.80	− 8 54.5	1.139	2.051	16.3	19.2

459395 2012 KE_{29} 4 10.5 274°.75 1°.0/11.5 17

3 2	13 38.10	−16 4.9	1.804	2.581	16.4	21.4
3 12	13 35.62	−15 15.9	1.705	2.573	13.2	21.2
3 22	13 30.76	−14 4.8	1.627	2.565	9.4	20.9
4 1	13 24.02	−12 33.9	1.574	2.557	5.1	20.6
4 11	13 16.28	−10 49.2	1.548	2.549	1.0	20.3
4 21	13 8.54	− 8 59.4	1.549	2.541	4.7	20.6
5 1	13 1.82	− 7 14.4	1.578	2.533	9.2	20.8
5 11	12 56.95	− 5 42.8	1.631	2.525	13.3	21.0

388817 2008 CR_{65} 4 10.5 329°.28 5°.8/ 3.3 17

3 2	13 36.30	+ 5 32.8	2.180	3.001	12.5	20.6
3 12	13 33.60	+ 7 2.0	2.102	2.996	9.9	20.4
3 22	13 29.02	+ 8 34.5	2.048	2.992	7.4	20.3
4 1	13 23.03	+10 3.2	2.021	2.988	5.9	20.2
4 11	13 16.35	+11 20.5	2.021	2.984	6.5	20.2
4 21	13 9.72	+12 20.4	2.048	2.980	8.7	20.3
5 1	13 3.92	+12 58.7	2.100	2.977	11.4	20.5
5 11	12 59.56	+13 14.4	2.173	2.973	13.9	20.6

311242 2005 CM_{62} 4 10.5 38°.20 5°.8/ 6.5 18

3 2	13 41.87	+ 1 9.0	1.239	2.079	18.9	20.6
3 12	13 39.17	+ 2 8.5	1.184	2.091	14.8	20.4
3 22	13 33.39	+ 3 14.9	1.147	2.104	10.3	20.2
4 1	13 25.32	+ 4 18.9	1.134	2.117	6.5	20.0
4 11	13 16.22	+ 5 10.6	1.144	2.131	6.3	20.0
4 21	13 7.49	+ 5 42.0	1.178	2.146	9.8	20.3
5 1	13 0.39	+ 5 48.9	1.235	2.161	13.9	20.5
5 11	12 55.78	+ 5 31.0	1.311	2.177	17.7	20.8

425242 2009 WP_{32} 4 10.5 97°.54 2°.7/ 7.7 18

3 2	13 44.65	− 2 15.5	2.227	3.019	13.2	22.1
3 12	13 39.77	− 1 30.4	2.166	3.047	10.2	22.0
3 22	13 32.99	− 0 39.4	2.128	3.075	6.9	21.8
4 1	13 24.89	+ 0 12.9	2.118	3.103	3.7	21.6
4 11	13 16.27	+ 1 1.0	2.136	3.129	3.0	21.6
4 21	13 7.93	+ 1 40.5	2.184	3.156	5.6	21.8
5 1	13 0.62	+ 2 7.6	2.260	3.181	8.8	22.1
5 11	12 54.91	+ 2 20.5	2.360	3.206	11.5	22.3

396317 2014 DR_{35} 4 10.5 343°.86 1°.0/ 9.6 17

3 2	13 40.17	− 6 27.7	2.113	2.908	13.7	20.9
3 12	13 36.75	− 6 16.7	2.021	2.904	10.8	20.7
3 22	13 31.26	− 5 57.0	1.952	2.900	7.4	20.5
4 1	13 24.19	− 5 31.4	1.909	2.897	3.6	20.3
4 11	13 16.30	− 5 3.9	1.894	2.895	1.1	20.1
4 21	13 8.44	− 4 38.8	1.906	2.892	4.7	20.3
5 1	13 1.45	− 4 20.4	1.946	2.890	8.5	20.5
5 11	12 56.04	− 4 12.0	2.009	2.888	11.9	20.7

279074 2008 WX_{77} 4 10.5 259°.91 1°.2/ 9.3 17

3 2	13 40.05	− 7 35.9	2.144	2.935	13.7	21.5
3 12	13 36.71	− 7 1.5	2.042	2.923	10.8	21.3
3 22	13 31.29	− 6 15.6	1.963	2.910	7.4	21.0
4 1	13 24.24	− 5 21.5	1.909	2.897	3.6	20.8
4 11	13 16.30	− 4 24.2	1.883	2.884	1.4	20.6
4 21	13 8.31	− 3 29.3	1.886	2.870	5.0	20.8
5 1	13 1.15	− 2 42.5	1.916	2.857	8.9	21.0
5 11	12 55.53	− 2 8.2	1.971	2.843	12.4	21.2

457730 2009 FH_{70} 4 10.5 343°.71 1°.1/ 9.9 17

3 2	13 41.62	− 5 46.5	1.199	2.030	19.9	20.5
3 12	13 39.60	− 5 59.1	1.117	2.020	15.9	20.2
3 22	13 34.21	− 6 0.8	1.054	2.011	11.0	19.9
4 1	13 26.01	− 5 54.7	1.013	2.003	5.5	19.6
4 11	13 16.20	− 5 45.7	0.994	1.996	1.3	19.3
4 21	13 6.31	− 5 39.7	1.000	1.990	6.9	19.6
5 1	12 57.93	− 5 42.8	1.027	1.986	12.5	19.9
5 11	12 52.28	− 5 59.2	1.075	1.983	17.5	20.2

458839 2011 UV_{42} 4 10.5 184°.04 0°.5/10.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 44.46	−12 43.3	1.828	2.605	16.2	22.6
3 12	13 40.52	−12 15.7	1.737	2.606	13.0	22.3
3 22	13 34.07	−11 31.4	1.666	2.606	9.1	22.1
4 1	13 25.66	−10 32.8	1.620	2.605	4.7	21.8
4 11	13 16.23	− 9 24.8	1.602	2.604	0.5	21.5
4 21	13 6.85	− 8 14.3	1.612	2.602	4.8	21.8
5 1	12 58.59	− 7 8.9	1.649	2.599	9.3	22.1
5 11	12 52.28	− 6 15.0	1.710	2.596	13.2	22.3

388023 2005 SU_{42} 4 10.5 328°.31 2°.2/12.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.40	−13 20.5	2.057	2.825	14.9	20.1
3 12	13 39.58	−13 55.1	1.954	2.815	12.2	19.8
3 22	13 33.42	−14 19.1	1.873	2.804	8.8	19.6
4 1	13 25.38	−14 32.3	1.816	2.794	5.2	19.4
4 11	13 16.25	−14 35.8	1.787	2.785	2.3	19.1
4 21	13 7.00	−14 32.1	1.785	2.776	4.4	19.3
5 1	12 58.62	−14 24.9	1.811	2.767	8.2	19.5
5 11	12 51.98	−14 18.8	1.862	2.759	11.8	19.7

120119 2003 FK_{84} 4 10.5 10°.78 6°.7/15.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.06	−23 43.6	1.533	2.285	19.9	19.3
3 12	13 38.62	−24 32.9	1.450	2.287	16.9	19.1
3 22	13 33.21	−24 59.6	1.384	2.289	13.4	18.9
4 1	13 25.39	−25 0.5	1.338	2.292	9.8	18.7
4 11	13 16.25	−24 35.5	1.316	2.296	7.0	18.5
4 21	13 7.09	−23 48.3	1.319	2.300	7.2	18.5
5 1	12 59.28	−22 46.6	1.345	2.305	10.1	18.7
5 11	12 53.84	−21 40.7	1.395	2.310	13.7	18.9

94403 2001 SM_{286} 4 10.5 145°.48 3°.0/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.09	− 5 13.8	1.623	2.432	16.6	20.3
3 12	13 39.57	− 4 10.0	1.546	2.438	13.0	20.0
3 22	13 33.44	− 2 52.7	1.491	2.444	8.8	19.8
4 1	13 25.34	− 1 28.4	1.461	2.449	4.6	19.6
4 11	13 16.27	− 0 5.6	1.458	2.454	3.4	19.5
4 21	13 7.36	+ 1 7.0	1.482	2.459	7.1	19.7
5 1	12 59.71	+ 2 2.3	1.532	2.463	11.4	20.0
5 11	12 54.13	+ 2 36.4	1.604	2.467	15.2	20.2

249219 2008 EB_{91} 4 10.5 46°.02 1°.5/12.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 36.29	−17 52.5	2.250	3.008	14.1	19.7
3 12	13 33.57	−17 5.5	2.161	3.016	11.4	19.5
3 22	13 28.97	−16 0.3	2.094	3.023	8.2	19.3
4 1	13 23.01	−14 39.2	2.053	3.031	4.7	19.1
4 11	13 16.40	−13 7.1	2.040	3.040	1.6	18.9
4 21	13 9.90	−11 30.5	2.056	3.048	3.7	19.0
5 1	13 4.27	− 9 56.7	2.100	3.056	7.2	19.3
5 11	13 0.09	− 8 32.1	2.171	3.065	10.5	19.5

374076 2004 RA_{146} 4 10.5 113°.54 3°.1/13.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.27	−17 33.4	2.124	2.867	15.3	21.5
3 12	13 41.56	−17 57.5	2.039	2.880	12.5	21.3
3 22	13 34.56	−18 7.1	1.975	2.893	9.3	21.1
4 1	13 25.83	−18 1.9	1.936	2.906	5.8	20.9
4 11	13 16.24	−17 43.4	1.925	2.918	3.2	20.8
4 21	13 6.75	−17 15.1	1.942	2.930	4.4	20.9
5 1	12 58.30	−16 41.9	1.987	2.941	7.7	21.1
5 11	12 51.65	−16 9.4	2.058	2.952	10.9	21.3

139570 2001 QF_{87} 4 10.5 166°.08 2°.1/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.34	−18 23.5	2.672	3.410	12.6	20.4
3 12	13 35.67	−18 4.7	2.574	3.413	10.3	20.3
3 22	13 30.30	−17 31.4	2.497	3.416	7.6	20.1
4 1	13 23.65	−16 44.6	2.447	3.419	4.6	19.9
4 11	13 16.37	−15 47.1	2.426	3.422	2.2	19.7
4 21	13 9.14	−14 43.1	2.433	3.424	3.4	19.8
5 1	13 2.66	−13 37.7	2.470	3.425	6.3	20.0
5 11	12 57.47	−12 36.0	2.534	3.427	9.2	20.2

251793 1999 SD_{23} 4 10.5 166°.55 1°.5/ 8.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.03	− 7 50.5	2.130	2.915	14.0	22.1
3 12	13 38.89	− 6 53.7	2.043	2.921	11.0	21.9
3 22	13 32.65	− 5 44.4	1.979	2.926	7.4	21.7
4 1	13 24.86	− 4 26.9	1.942	2.930	3.6	21.4
4 11	13 16.31	− 3 7.4	1.934	2.933	1.8	21.3
4 21	13 7.86	− 1 52.7	1.955	2.936	5.2	21.5
5 1	13 0.37	− 0 48.9	2.005	2.938	9.0	21.8
5 11	12 54.51	− 0 0.2	2.079	2.939	12.3	22.0

496970 2002 QV_{5} 4 10.5 266°.24 1°.3/11.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.22	−13 1.2	2.027	2.792	15.2	22.3
3 12	13 42.07	−13 1.1	1.902	2.763	12.4	22.0
3 22	13 35.36	−12 47.2	1.799	2.733	9.0	21.8
4 1	13 26.48	−12 19.9	1.720	2.702	4.9	21.5
4 11	13 16.21	−11 41.6	1.669	2.670	1.3	21.1
4 21	13 5.56	−10 56.7	1.647	2.638	4.7	21.3
5 1	12 55.70	−10 11.2	1.653	2.604	9.2	21.5
5 11	12 47.61	− 9 31.4	1.683	2.570	13.4	21.7

425947 2011 GH_{77} 4 10.5 330°.06 0°.4/10.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 35.68	−13 12.3	1.620	2.421	17.0	20.8
3 12	13 34.02	−12 37.8	1.525	2.408	13.6	20.5
3 22	13 29.85	−11 43.2	1.450	2.396	9.6	20.2
4 1	13 23.67	−10 30.9	1.398	2.385	5.0	19.9
4 11	13 16.38	− 9 7.2	1.372	2.374	0.4	19.6
4 21	13 9.04	− 7 40.3	1.372	2.364	5.2	19.9
5 1	13 2.77	− 6 19.5	1.397	2.354	10.0	20.1
5 11	12 58.44	− 5 13.0	1.446	2.345	14.3	20.4

179462 2002 AJ_{202} 4 10.5 215°.42 1°.0/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 37.04	− 8 46.4	2.667	3.449	11.5	20.1
3 12	13 33.83	− 7 51.3	2.569	3.445	9.1	19.9
3 22	13 29.03	− 6 45.3	2.494	3.440	6.1	19.7
4 1	13 23.03	− 5 31.7	2.448	3.436	3.0	19.5
4 11	13 16.43	− 4 15.3	2.430	3.431	1.2	19.4
4 21	13 9.85	− 3 1.3	2.443	3.426	4.2	19.6
5 1	13 3.94	− 1 54.9	2.485	3.421	7.3	19.8
5 11	12 59.24	− 1 0.1	2.552	3.415	10.2	20.0

57600 2001 TM_{96} 4 10.5 3°.05 0°.9/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.00	− 8 52.3	1.479	2.280	18.3	18.1
3 12	13 42.38	− 9 26.2	1.397	2.280	14.7	17.8
3 22	13 35.72	− 9 49.8	1.334	2.279	10.3	17.6
4 1	13 26.64	−10 3.8	1.294	2.280	5.4	17.3
4 11	13 16.22	−10 10.7	1.279	2.281	0.9	17.0
4 21	13 5.81	−10 13.9	1.291	2.283	5.4	17.3
5 1	12 56.78	−10 18.2	1.328	2.285	10.4	17.6
5 11	12 50.15	−10 28.0	1.388	2.289	14.7	17.8

504099 2006 DJ_{183} 4 10.5 279°.24 5°.0/13.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 51.58	−18 47.3	2.052	2.781	16.1	21.1
3 12	13 46.37	−20 1.1	1.941	2.768	13.6	20.8
3 22	13 38.37	−21 4.1	1.850	2.755	10.6	20.6
4 1	13 28.00	−21 53.2	1.784	2.742	7.4	20.4
4 11	13 16.14	−22 26.2	1.746	2.729	5.1	20.2
4 21	13 3.91	−22 43.3	1.737	2.716	6.0	20.2
5 1	12 52.59	−22 47.1	1.756	2.703	9.1	20.4
5 11	12 43.23	−22 43.3	1.801	2.690	12.5	20.6

292430 2006 SA_{326} 4 10.5 262°.91 0°.4/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 37.44	−10 34.9	2.334	3.116	13.0	21.4
3 12	13 34.45	− 9 50.5	2.234	3.109	10.3	21.2
3 22	13 29.61	− 8 52.9	2.157	3.102	7.1	20.9
4 1	13 23.38	− 7 45.2	2.107	3.094	3.5	20.7
4 11	13 16.41	− 6 32.3	2.085	3.087	0.6	20.5
4 21	13 9.44	− 5 20.0	2.092	3.080	4.3	20.7
5 1	13 3.24	− 4 14.0	2.128	3.072	7.9	20.9
5 11	12 58.43	− 3 19.4	2.188	3.064	11.1	21.1

40998 1999 US_{7} 4 10.5 193°.53 2°.1/ 8.4 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.91	− 3 25.0	2.324	3.115	12.8	18.8
3 12	13 38.66	− 2 57.0	2.232	3.113	10.0	18.6
3 22	13 32.45	− 2 22.2	2.164	3.111	6.8	18.4
4 1	13 24.77	− 1 44.1	2.122	3.109	3.5	18.1
4 11	13 16.34	− 1 7.2	2.110	3.106	2.3	18.0
4 21	13 7.94	− 0 36.0	2.126	3.103	5.2	18.2
5 1	13 0.39	− 0 14.4	2.170	3.100	8.6	18.4
5 11	12 54.32	− 0 4.9	2.239	3.096	11.7	18.6

275966 2001 WE_{33} 4 10.5 97°.12 2°.6/ 8.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.30	− 3 24.3	1.835	2.639	15.1	21.2
3 12	13 39.37	− 2 49.0	1.761	2.649	11.8	21.0
3 22	13 33.12	− 2 5.2	1.708	2.659	8.0	20.8
4 1	13 25.14	− 1 17.8	1.682	2.669	4.2	20.5
4 11	13 16.35	− 0 33.0	1.682	2.679	2.9	20.5
4 21	13 7.73	+ 0 3.7	1.710	2.688	6.2	20.7
5 1	13 0.25	+ 0 27.5	1.765	2.698	10.0	20.9
5 11	12 54.62	+ 0 35.8	1.843	2.707	13.4	21.2

299294 2005 QR_{1} 4 10.5 197°.03 2°.5/ 6.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.06	− 1 21.4	3.087	3.878	9.9	22.3
3 12	13 34.36	− 0 27.5	2.993	3.875	7.7	22.2
3 22	13 29.25	+ 0 31.7	2.924	3.871	5.3	22.0
4 1	13 23.12	+ 1 32.5	2.884	3.867	3.1	21.8
4 11	13 16.46	+ 2 30.6	2.874	3.863	2.8	21.8
4 21	13 9.84	+ 3 21.9	2.893	3.857	4.9	22.0
5 1	13 3.79	+ 4 3.2	2.942	3.852	7.4	22.1
5 11	12 58.79	+ 4 32.1	3.015	3.846	9.7	22.3

93276 2000 ST_{178} 4 10.5 163°.29 1°.7/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.67	−14 10.3	2.071	2.835	15.0	20.3
3 12	13 39.62	−14 14.8	1.979	2.838	12.1	20.1
3 22	13 33.33	−14 5.7	1.908	2.840	8.7	19.9
4 1	13 25.29	−13 43.8	1.862	2.841	4.9	19.6
4 11	13 16.35	−13 11.9	1.843	2.843	1.7	19.4
4 21	13 7.43	−12 34.2	1.853	2.844	4.2	19.6
5 1	12 59.49	−11 56.1	1.891	2.846	8.0	19.8
5 11	12 53.28	−11 22.8	1.954	2.847	11.5	20.0

491722 2012 UZ_{155} 4 10.5 89°.43 3°.7/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 43.19	+ 3 3.0	2.454	3.252	11.9	21.4
3 12	13 38.53	+ 3 36.9	2.389	3.273	9.3	21.3
3 22	13 32.13	+ 4 12.5	2.349	3.293	6.5	21.1
4 1	13 24.52	+ 4 45.3	2.335	3.313	4.2	21.0
4 11	13 16.40	+ 5 11.0	2.351	3.334	4.0	21.0
4 21	13 8.49	+ 5 26.1	2.395	3.353	6.1	21.2
5 1	13 1.49	+ 5 28.5	2.467	3.373	8.8	21.4
5 11	12 55.91	+ 5 17.4	2.563	3.392	11.2	21.6

385451 2003 SD_{53} 4 10.5 206°.37 2°.3/13.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.74	−19 31.6	2.737	3.465	12.5	22.2
3 12	13 36.82	−19 11.9	2.626	3.458	10.3	22.1
3 22	13 31.14	−18 36.9	2.538	3.452	7.7	21.9
4 1	13 24.13	−17 47.3	2.476	3.444	4.8	21.7
4 11	13 16.42	−16 45.7	2.442	3.436	2.5	21.5
4 21	13 8.69	−15 36.2	2.438	3.428	3.5	21.5
5 1	13 1.67	−14 23.9	2.465	3.419	6.4	21.7
5 11	12 55.95	−13 14.5	2.518	3.409	9.3	21.9

160961 2002 AW_{178} 4 10.5 197°.33 4°.4/ 6.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.07	− 0 18.5	1.803	2.612	15.2	20.3
3 12	13 40.17	+ 0 45.0	1.719	2.610	11.9	20.1
3 22	13 33.82	+ 1 56.9	1.657	2.607	8.3	19.9
4 1	13 25.57	+ 3 10.5	1.621	2.604	5.1	19.7
4 11	13 16.34	+ 4 17.8	1.613	2.600	4.8	19.6
4 21	13 7.17	+ 5 11.6	1.632	2.596	7.9	19.8
5 1	12 59.11	+ 5 46.5	1.676	2.591	11.7	20.0
5 11	12 52.97	+ 6 0.1	1.743	2.585	15.1	20.2

241946 2002 CR_{219} 4 10.5 344°.17 4°.3/ 7.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 36.76	− 3 26.3	1.204	2.047	19.1	19.5
3 12	13 35.58	− 2 26.2	1.128	2.040	15.0	19.2
3 22	13 31.30	− 1 10.8	1.072	2.032	10.3	19.0
4 1	13 24.52	+ 0 12.2	1.037	2.026	5.7	18.7
4 11	13 16.39	+ 1 31.5	1.026	2.021	4.9	18.6
4 21	13 8.30	+ 2 36.2	1.039	2.017	9.2	18.8
5 1	13 1.65	+ 3 17.4	1.073	2.013	14.1	19.1
5 11	12 57.49	+ 3 31.2	1.126	2.011	18.6	19.3

500546 2012 US_{32} 4 10.5 123°.25 1°.3/ 8.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.21	− 8 1.3	3.019	3.792	10.5	22.5
3 12	13 35.15	− 6 47.3	2.940	3.812	8.2	22.3
3 22	13 29.71	− 5 24.2	2.886	3.831	5.5	22.2
4 1	13 23.30	− 3 55.8	2.862	3.849	2.7	22.0
4 11	13 16.47	− 2 27.2	2.869	3.867	1.5	21.9
4 21	13 9.77	− 1 3.2	2.907	3.884	4.0	22.1
5 1	13 3.75	+ 0 11.6	2.976	3.901	6.7	22.3
5 11	12 58.85	+ 1 13.9	3.071	3.917	9.1	22.5

345711 2006 VC_{150} 4 10.5 91°.94 3°.8/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.14	+ 2 38.9	2.356	3.160	12.2	20.5
3 12	13 37.15	+ 3 16.2	2.278	3.165	9.6	20.3
3 22	13 31.34	+ 3 56.0	2.224	3.171	6.7	20.1
4 1	13 24.19	+ 4 33.7	2.197	3.177	4.3	20.0
4 11	13 16.42	+ 5 4.6	2.199	3.182	4.2	20.0
4 21	13 8.76	+ 5 24.6	2.228	3.188	6.4	20.1
5 1	13 1.96	+ 5 30.9	2.285	3.193	9.3	20.3
5 11	12 56.59	+ 5 22.5	2.365	3.199	11.9	20.5

142445 2002 SR_{58} 4 10.5 279°.54 0°.0/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.65	−10 55.3	1.691	2.485	16.7	21.2
3 12	13 38.78	−10 35.8	1.585	2.465	13.4	20.9
3 22	13 33.22	−10 0.0	1.500	2.445	9.4	20.6
4 1	13 25.44	− 9 10.0	1.438	2.425	4.8	20.3
4 11	13 16.34	− 8 10.5	1.403	2.405	0.2	19.9
4 21	13 7.02	− 7 8.5	1.394	2.385	5.4	20.3
5 1	12 58.72	− 6 11.8	1.412	2.364	10.3	20.5
5 11	12 52.44	− 5 27.4	1.452	2.344	14.8	20.7

102390 1999 TP_{155} 4 10.5 221°.60 0°.6/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.47	−10 21.3	1.995	2.778	14.8	20.4
3 12	13 38.81	− 9 39.5	1.894	2.769	11.8	20.2
3 22	13 32.86	− 8 42.5	1.815	2.759	8.2	20.0
4 1	13 25.11	− 7 33.5	1.762	2.749	4.0	19.7
4 11	13 16.37	− 6 18.1	1.737	2.739	0.8	19.4
4 21	13 7.59	− 5 3.0	1.741	2.727	5.0	19.7
5 1	12 59.75	− 3 55.5	1.772	2.716	9.2	19.9
5 11	12 53.65	− 3 1.4	1.828	2.703	13.0	20.1

161740 2006 SE_{154} 4 10.5 266°.21 4°.3/ 5.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.10	+ 1 49.6	2.263	3.074	12.4	20.1
3 12	13 34.93	+ 2 55.9	2.181	3.073	9.7	19.9
3 22	13 29.92	+ 4 7.3	2.123	3.071	6.8	19.7
4 1	13 23.53	+ 5 17.9	2.092	3.070	4.6	19.5
4 11	13 16.46	+ 6 21.4	2.089	3.069	4.7	19.5
4 21	13 9.46	+ 7 12.2	2.114	3.067	7.1	19.7
5 1	13 3.27	+ 7 46.4	2.165	3.066	10.0	19.9
5 11	12 58.50	+ 8 2.1	2.238	3.065	12.7	20.0

36009 1999 NA_{35} 4 10.5 234°.92 6°.9/ 1.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 38.71	+13 2.4	2.591	3.399	11.1	19.0
3 12	13 35.22	+14 25.6	2.514	3.391	9.2	18.9
3 22	13 30.02	+15 46.7	2.462	3.383	7.6	18.7
4 1	13 23.56	+16 58.9	2.437	3.375	6.9	18.7
4 11	13 16.46	+17 56.2	2.439	3.367	7.6	18.7
4 21	13 9.40	+18 34.3	2.468	3.359	9.2	18.8
5 1	13 3.08	+18 50.8	2.521	3.351	11.3	18.9
5 11	12 58.04	+18 45.9	2.594	3.342	13.2	19.1

331535 2000 SN_{273} 4 10.5 204°.48 0°.4/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.07	−14 9.9	2.283	3.048	13.7	21.5
3 12	13 36.58	−13 20.4	2.182	3.044	11.0	21.3
3 22	13 31.12	−12 14.4	2.103	3.039	7.7	21.1
4 1	13 24.16	−10 54.5	2.050	3.034	4.0	20.8
4 11	13 16.43	− 9 25.9	2.027	3.029	0.4	20.5
4 21	13 8.73	− 7 54.9	2.033	3.023	4.0	20.8
5 1	13 1.86	− 6 28.5	2.068	3.016	7.8	21.0
5 11	12 56.48	− 5 13.0	2.129	3.009	11.2	21.2

219147 1999 HD_{4} 4 10.5 163°.32 2°.1/ 8.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.34	− 3 5.8	2.023	2.815	14.3	20.7
3 12	13 41.64	− 2 53.4	1.937	2.818	11.3	20.5
3 22	13 34.65	− 2 34.7	1.873	2.821	7.7	20.3
4 1	13 25.94	− 2 13.1	1.836	2.823	3.9	20.0
4 11	13 16.34	− 1 53.0	1.827	2.825	2.3	19.9
4 21	13 6.83	− 1 38.6	1.847	2.827	5.6	20.1
5 1	12 58.36	− 1 33.5	1.894	2.828	9.3	20.4
5 11	12 51.66	− 1 40.2	1.965	2.829	12.7	20.6

28007 1997 XO_{10} 4 10.5 204°.96 4°.0/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.63	+ 3 28.3	2.590	3.389	11.4	19.1
3 12	13 37.43	+ 4 12.3	2.501	3.385	9.0	18.9
3 22	13 31.51	+ 4 58.8	2.436	3.380	6.4	18.8
4 1	13 24.30	+ 5 43.2	2.399	3.375	4.3	18.6
4 11	13 16.43	+ 6 20.8	2.391	3.370	4.3	18.6
4 21	13 8.61	+ 6 47.4	2.412	3.364	6.4	18.7
5 1	13 1.53	+ 7 0.3	2.459	3.358	9.1	18.9
5 11	12 55.76	+ 6 58.2	2.531	3.352	11.6	19.1

107586 2001 DW_{100} 4 10.5 315°.37 3°.3/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.54	−11 59.6	1.337	2.138	19.9	18.9
3 12	13 43.08	−13 0.7	1.226	2.106	16.5	18.5
3 22	13 37.09	−13 52.8	1.133	2.074	12.3	18.2
4 1	13 27.82	−14 33.7	1.062	2.043	7.3	17.8
4 11	13 16.22	−15 2.8	1.014	2.013	3.4	17.5
4 21	13 3.79	−15 20.9	0.991	1.983	6.6	17.6
5 1	12 52.40	−15 32.1	0.992	1.954	12.3	17.8
5 11	12 43.68	−15 42.9	1.013	1.927	17.7	18.0

58939 1998 QY_{20} 4 10.5 245°.75 0°.6/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.50	−12 12.4	2.014	2.787	15.0	20.7
3 12	13 39.74	−11 54.8	1.904	2.771	12.1	20.4
3 22	13 33.60	−11 22.6	1.815	2.754	8.6	20.2
4 1	13 25.55	−10 37.2	1.752	2.737	4.5	19.9
4 11	13 16.37	− 9 42.6	1.717	2.719	0.6	19.6
4 21	13 7.05	− 8 44.3	1.710	2.700	4.6	19.8
5 1	12 58.61	− 7 48.8	1.731	2.681	8.9	20.0
5 11	12 51.92	− 7 2.3	1.776	2.661	12.8	20.2

225558 2000 SM_{347} 4 10.5 183°.08 6°.7/ 3.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.88	+11 5.8	2.267	3.069	12.7	20.7
3 12	13 40.20	+12 7.1	2.193	3.070	10.3	20.5
3 22	13 33.50	+13 6.0	2.142	3.070	8.1	20.4
4 1	13 25.31	+13 55.9	2.117	3.069	6.8	20.3
4 11	13 16.39	+14 30.7	2.120	3.069	7.3	20.3
4 21	13 7.61	+14 46.2	2.150	3.067	9.2	20.4
5 1	12 59.77	+14 40.5	2.206	3.065	11.6	20.6
5 11	12 53.53	+14 14.2	2.283	3.063	13.9	20.7

159536 2001 OD_{73} 4 10.5 188°.60 3°.8/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.16	− 1 33.6	1.961	2.760	14.5	20.7
3 12	13 40.81	− 0 27.9	1.874	2.760	11.3	20.5
3 22	13 34.15	+ 0 46.8	1.810	2.759	7.8	20.2
4 1	13 25.72	+ 2 4.5	1.773	2.756	4.6	20.0
4 11	13 16.37	+ 3 17.6	1.764	2.753	4.2	20.0
4 21	13 7.09	+ 4 19.2	1.784	2.749	7.2	20.2
5 1	12 58.84	+ 5 3.7	1.831	2.744	10.9	20.4
5 11	12 52.39	+ 5 28.4	1.900	2.739	14.2	20.6

431612 2007 VE_{255} 4 10.5 223°.56 0°.3/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.86	−13 25.7	2.471	3.237	12.8	22.0
3 12	13 35.49	−12 39.9	2.366	3.229	10.2	21.8
3 22	13 30.31	−11 39.4	2.283	3.221	7.1	21.6
4 1	13 23.76	−10 26.7	2.228	3.212	3.7	21.3
4 11	13 16.47	− 9 6.3	2.201	3.203	0.3	21.0
4 21	13 9.19	− 7 43.8	2.204	3.194	3.8	21.3
5 1	13 2.65	− 6 25.5	2.236	3.184	7.4	21.5
5 11	12 57.45	− 5 16.7	2.295	3.174	10.6	21.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
499538 2010 RO_{99}			4 10.5 274°.07		0°.4/10.9 17	
	h m	° ′			°	m
3 2	13 40.09	−13 13.7	1.632	2.424	17.2	22.1
3 12	13 37.56	−12 40.4	1.534	2.411	13.9	21.8
3 22	13 32.36	−11 47.1	1.455	2.399	9.8	21.6
4 1	13 25.00	−10 35.8	1.400	2.386	5.1	21.2
4 11	13 16.40	− 9 12.4	1.371	2.373	0.5	20.9
4 21	13 7.72	− 7 45.3	1.369	2.360	5.3	21.2
5 1	13 0.14	− 6 23.9	1.393	2.348	10.3	21.4
5 11	12 54.62	− 5 16.4	1.440	2.335	14.7	21.7
425277 2009 WT_{170}			4 10.5 270°.34		0°.3/10.7 17	
3 2	13 43.64	−10 19.1	1.942	2.724	15.2	21.1
3 12	13 39.99	−10 13.6	1.831	2.704	12.3	20.8
3 22	13 33.87	− 9 55.6	1.742	2.684	8.6	20.5
4 1	13 25.73	− 9 26.6	1.677	2.663	4.4	20.2
4 11	13 16.37	− 8 50.3	1.640	2.642	0.3	19.9
4 21	13 6.81	− 8 11.4	1.630	2.620	4.8	20.2
5 1	12 58.13	− 7 35.7	1.648	2.599	9.3	20.4
5 11	12 51.24	− 7 8.7	1.690	2.577	13.3	20.6
433379 2013 SV_{58}			4 10.5 139°.98		1°.5/11.9 17	
3 2	13 46.60	−13 24.7	2.311	3.064	13.9	22.0
3 12	13 41.60	−13 36.8	2.222	3.075	11.2	21.9
3 22	13 34.51	−13 37.7	2.156	3.085	8.0	21.7
4 1	13 25.84	−13 27.8	2.115	3.094	4.5	21.5
4 11	13 16.38	−13 9.5	2.103	3.103	1.6	21.3
4 21	13 7.01	−12 46.0	2.121	3.111	3.8	21.5
5 1	12 58.56	−12 21.6	2.168	3.119	7.3	21.7
5 11	12 51.75	−12 0.6	2.241	3.127	10.5	21.9
190365 1999 RS_{23}			4 10.5 168°.06		2°.6/ 7.5 17	
3 2	13 40.58	− 3 14.7	2.376	3.171	12.4	20.8
3 12	13 36.76	− 2 17.0	2.291	3.175	9.6	20.6
3 22	13 31.11	− 1 11.4	2.229	3.178	6.6	20.4
4 1	13 24.12	− 0 2.5	2.195	3.181	3.6	20.3
4 11	13 16.48	+ 1 4.1	2.190	3.183	2.9	20.2
4 21	13 8.91	+ 2 2.9	2.215	3.185	5.6	20.4
5 1	13 2.16	+ 2 49.3	2.267	3.187	8.8	20.6
5 11	12 56.82	+ 3 20.5	2.343	3.188	11.6	20.8
173987 2001 XK_{162}			4 10.5 95°.62		0°.2/10.3 17	
3 2	13 40.03	− 9 57.5	2.459	3.234	12.6	21.3
3 12	13 36.22	− 9 32.7	2.379	3.249	9.9	21.2
3 22	13 30.68	− 8 57.7	2.322	3.264	6.8	21.0
4 1	13 23.88	− 8 15.0	2.292	3.278	3.3	20.8
4 11	13 16.50	− 7 28.7	2.290	3.293	0.3	20.6
4 21	13 9.25	− 6 43.0	2.318	3.307	3.8	20.9
5 1	13 2.82	− 6 2.4	2.375	3.321	7.1	21.1
5 11	12 57.76	− 5 30.4	2.457	3.334	10.0	21.3
394338 2006 XR_{11}			4 10.5 118°.12		2°.2/ 8.2 17	
3 2	13 41.32	− 2 17.6	2.468	3.261	12.0	21.2
3 12	13 37.24	− 1 53.9	2.384	3.266	9.4	21.0
3 22	13 31.40	− 1 25.0	2.323	3.271	6.4	20.8
4 1	13 24.26	− 0 54.3	2.290	3.276	3.4	20.6
4 11	13 16.48	− 0 25.9	2.286	3.281	2.4	20.5
4 21	13 8.80	− 0 3.4	2.311	3.286	5.0	20.7
5 1	13 1.91	+ 0 9.9	2.363	3.291	8.1	20.9
5 11	12 56.40	+ 0 12.0	2.440	3.296	10.9	21.1
89578 2001 XV_{122}			4 10.5 112°.93		0°.2/10.8 17	
3 2	13 39.52	−11 36.6	2.517	3.287	12.5	20.8
3 12	13 35.82	−11 10.3	2.432	3.298	9.9	20.7
3 22	13 30.42	−10 32.7	2.370	3.309	6.8	20.5
4 1	13 23.76	− 9 46.3	2.335	3.320	3.5	20.3
4 11	13 16.51	− 8 54.7	2.329	3.331	0.2	20.0
4 21	13 9.37	− 8 2.6	2.352	3.341	3.6	20.3
5 1	13 3.01	− 7 14.4	2.403	3.351	6.9	20.5
5 11	12 57.98	− 6 34.3	2.480	3.361	9.8	20.7
462151 2007 TU_{97}			4 10.5 78°.96		1°.1/ 9.6 18	
3 2	13 43.40	− 8 56.3	1.502	2.307	17.9	21.9
3 12	13 39.96	− 8 18.3	1.435	2.322	14.1	21.7
3 22	13 33.79	− 7 24.8	1.388	2.338	9.6	21.5
4 1	13 25.57	− 6 20.5	1.364	2.353	4.6	21.2
4 11	13 16.42	− 5 12.7	1.367	2.369	1.3	21.0
4 21	13 7.54	− 4 9.5	1.397	2.384	5.9	21.4
5 1	13 0.07	− 3 18.4	1.452	2.399	10.6	21.7
5 11	12 54.82	− 2 44.2	1.529	2.414	14.6	22.0
313694 2003 TB_{13}			4 10.5 61°.32		5°.8/16.7 16	
3 2	13 41.22	−28 59.9	1.472	2.201	21.5	20.1
3 12	13 38.55	−28 28.6	1.405	2.226	18.2	19.9
3 22	13 32.91	−27 22.8	1.354	2.251	14.3	19.7
4 1	13 25.13	−25 42.2	1.324	2.276	10.1	19.5
4 11	13 16.44	−23 32.2	1.319	2.301	6.6	19.4
4 21	13 8.19	−21 3.9	1.340	2.326	6.3	19.5
5 1	13 1.55	−18 31.4	1.387	2.351	9.3	19.7
5 11	12 57.30	−16 8.7	1.460	2.376	13.1	20.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
346218 2007 YJ_{50}			4 10.5 59°.25		0°.9/ 9.6 17	
	h m	° ′			°	m
3 2	13 40.09	− 7 37.0	2.151	2.942	13.6	21.4
3 12	13 36.53	− 7 13.4	2.075	2.955	10.7	21.2
3 22	13 31.03	− 6 40.2	2.021	2.968	7.3	21.0
4 1	13 24.10	− 6 0.4	1.993	2.981	3.5	20.8
4 11	13 16.50	− 5 18.6	1.993	2.994	1.0	20.6
4 21	13 9.05	− 4 39.5	2.021	3.008	4.5	20.9
5 1	13 2.53	− 4 7.6	2.077	3.021	8.1	21.2
5 11	12 57.55	− 3 46.3	2.158	3.035	11.2	21.4
193008 2000 EH_{16}			4 10.5 87°.25		1°.6/11.6 18	R
3 2	13 47.40	−13 35.2	1.400	2.189	19.7	20.4
3 12	13 43.41	−13 35.3	1.333	2.207	15.9	20.2
3 22	13 36.33	−13 16.6	1.285	2.224	11.2	20.0
4 1	13 26.89	−12 40.8	1.259	2.242	6.1	19.7
4 11	13 16.36	−11 52.8	1.258	2.259	1.6	19.5
4 21	13 6.13	−10 59.8	1.284	2.277	5.3	19.8
5 1	12 57.53	−10 10.1	1.336	2.293	10.3	20.1
5 11	12 51.47	− 9 30.8	1.409	2.310	14.6	20.4
215229 2000 YO_{39}			4 10.5 39°.42		4°.6/ 7.1 18	
3 2	13 40.39	− 2 14.9	1.242	2.079	19.0	20.0
3 12	13 38.05	− 1 10.0	1.185	2.092	14.8	19.8
3 22	13 32.69	+ 0 6.2	1.148	2.106	10.1	19.6
4 1	13 25.08	+ 1 24.9	1.134	2.121	5.7	19.4
4 11	13 16.46	+ 2 35.4	1.144	2.137	5.1	19.4
4 21	13 8.19	+ 3 28.6	1.179	2.153	8.9	19.6
5 1	13 1.51	+ 3 58.5	1.236	2.169	13.3	19.9
5 11	12 57.25	+ 4 3.2	1.313	2.186	17.2	20.2
473880 2016 EX_{140}			4 10.5 247°.87		0°.4/10.8 17	
3 2	13 42.63	−12 4.3	1.993	2.769	15.1	22.0
3 12	13 39.07	−11 41.2	1.884	2.754	12.1	21.8
3 22	13 33.16	−11 2.9	1.798	2.738	8.5	21.5
4 1	13 25.35	−10 11.2	1.736	2.721	4.4	21.3
4 11	13 16.45	− 9 10.5	1.702	2.704	0.4	20.9
4 21	13 7.42	− 8 6.6	1.696	2.687	4.6	21.2
5 1	12 59.28	− 7 6.4	1.718	2.668	9.0	21.4
5 11	12 52.89	− 6 16.2	1.765	2.650	12.9	21.6
414441 2009 DG_{138}			4 10.5 315°.01		1°.2/ 9.5 16	
3 2	13 39.09	− 9 41.6	1.458	2.271	17.9	21.8
3 12	13 36.95	− 8 54.2	1.372	2.265	14.2	21.6
3 22	13 32.02	− 7 47.6	1.306	2.259	9.8	21.3
4 1	13 24.85	− 6 26.3	1.264	2.253	4.8	21.0
4 11	13 16.48	− 4 58.3	1.246	2.248	1.5	20.7
4 21	13 8.12	− 3 33.6	1.255	2.242	6.4	21.0
5 1	13 1.00	− 2 21.7	1.288	2.237	11.4	21.3
5 11	12 56.09	− 1 29.5	1.343	2.233	15.9	21.5
377879 2006 DJ_{20}			4 10.5 200°.56		0°.6/11.1 17	
3 2	13 42.83	−11 28.6	2.129	2.903	14.3	21.6
3 12	13 38.91	−11 21.6	2.034	2.901	11.5	21.4
3 22	13 32.84	−11 2.5	1.961	2.899	8.0	21.1
4 1	13 25.10	−10 32.9	1.913	2.897	4.2	20.9
4 11	13 16.47	− 9 56.3	1.893	2.895	0.6	20.6
4 21	13 7.85	− 9 17.1	1.902	2.892	4.2	20.9
5 1	13 0.14	− 8 40.6	1.938	2.889	8.1	21.1
5 11	12 54.08	− 8 11.3	1.999	2.886	11.6	21.3
382217 2012 PC_{42}			4 10.5 295°.68		1°.0/11.4 17	
3 2	13 40.61	−12 40.3	1.859	2.642	15.7	21.4
3 12	13 37.65	−12 34.3	1.757	2.629	12.7	21.2
3 22	13 32.26	−12 13.5	1.676	2.616	9.1	20.9
4 1	13 24.92	−11 39.1	1.619	2.603	4.9	20.6
4 11	13 16.48	−10 54.8	1.589	2.591	1.0	20.3
4 21	13 7.93	−10 5.9	1.586	2.578	4.6	20.6
5 1	13 0.33	− 9 18.8	1.610	2.565	9.0	20.8
5 11	12 54.56	− 8 39.8	1.657	2.553	13.0	21.0
166545 2002 RJ_{52}			4 10.5 211°.60		0°.7/ 9.7 18	
3 2	13 41.21	− 7 53.6	2.670	3.445	11.7	21.3
3 12	13 37.15	− 7 28.2	2.567	3.438	9.2	21.1
3 22	13 31.37	− 6 54.1	2.488	3.431	6.3	20.9
4 1	13 24.29	− 6 13.5	2.436	3.423	3.1	20.7
4 11	13 16.52	− 5 30.2	2.414	3.415	0.8	20.5
4 21	13 8.74	− 4 48.2	2.421	3.406	4.0	20.7
5 1	13 1.64	− 4 11.7	2.458	3.397	7.2	20.9
5 11	12 55.81	− 3 43.9	2.520	3.388	10.2	21.1
134090 2004 XS_{105}			4 10.5 177°.87		0°.4/10.2 18	
3 2	13 47.53	− 8 28.7	1.813	2.598	16.1	20.3
3 12	13 42.97	− 8 20.4	1.725	2.599	12.8	20.1
3 22	13 35.82	− 8 0.6	1.657	2.601	8.8	19.9
4 1	13 26.65	− 7 31.6	1.614	2.601	4.4	19.6
4 11	13 16.40	− 6 57.9	1.600	2.601	0.6	19.3
4 21	13 6.20	− 6 24.7	1.613	2.601	5.1	19.6
5 1	12 57.16	− 5 57.4	1.654	2.600	9.6	19.9
5 11	12 50.14	− 5 40.6	1.718	2.599	13.4	20.1

346069 2007 UV_{87} 4 10.5 194°.55 0°.1/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 40.68	− 9 45.6	2.439	3.214	12.7	21.6
3 12	13 36.89	− 9 26.6	2.343	3.213	10.0	21.4
3 22	13 31.27	− 8 57.3	2.270	3.212	6.9	21.2
4 1	13 24.26	− 8 20.0	2.224	3.210	3.4	21.0
4 11	13 16.53	− 7 38.2	2.206	3.208	0.3	20.7
4 21	13 8.82	− 6 56.3	2.218	3.206	3.9	21.0
5 1	13 1.89	− 6 18.8	2.257	3.203	7.4	21.2
5 11	12 56.34	− 5 49.4	2.323	3.201	10.5	21.4

407472 2010 UX_{84} 4 10.5 82°.84 2°.0/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 47.48	− 4 52.0	1.822	2.615	15.7	21.6
3 12	13 42.43	− 4 20.4	1.765	2.647	12.2	21.5
3 22	13 35.06	− 3 40.0	1.730	2.677	8.2	21.3
4 1	13 26.07	− 2 55.6	1.720	2.708	4.1	21.1
4 11	13 16.45	− 2 12.8	1.739	2.738	2.2	21.0
4 21	13 7.21	− 1 37.0	1.786	2.767	5.7	21.3
5 1	12 59.29	− 1 12.6	1.861	2.796	9.4	21.6
5 11	12 53.33	− 1 2.0	1.959	2.824	12.7	21.9

435931 2009 BM_{150} 4 10.5 12°.89 2°.0/ 8.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 37.41	− 5 54.3	1.959	2.765	14.2	21.2
3 12	13 34.73	− 5 5.3	1.876	2.767	11.1	21.0
3 22	13 29.98	− 4 5.2	1.817	2.769	7.5	20.7
4 1	13 23.66	− 2 58.6	1.782	2.771	3.8	20.5
4 11	13 16.57	− 1 52.0	1.776	2.774	2.3	20.4
4 21	13 9.56	− 0 51.7	1.796	2.777	5.7	20.6
5 1	13 3.50	− 0 3.5	1.843	2.780	9.4	20.9
5 11	12 59.04	+ 0 28.8	1.914	2.784	12.8	21.1

67350 2000 JW_{66} 4 10.5 228°.45 1°.6/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.36	− 6 42.8	2.406	3.196	12.4	19.8
3 12	13 35.11	− 5 49.9	2.309	3.190	9.7	19.6
3 22	13 30.07	− 4 46.5	2.236	3.184	6.6	19.4
4 1	13 23.67	− 3 36.3	2.189	3.177	3.3	19.1
4 11	13 16.57	− 2 24.7	2.172	3.171	1.9	19.0
4 21	13 9.48	− 1 17.4	2.184	3.164	4.9	19.2
5 1	13 3.14	− 0 19.6	2.224	3.156	8.3	19.4
5 11	12 58.14	+ 0 24.8	2.289	3.149	11.3	19.6

207877 2007 VN_{300} 4 10.5 265°.68 0°.6/11.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.16	−11 55.7	1.728	2.512	16.7	21.1
3 12	13 40.80	−11 45.2	1.618	2.492	13.6	20.8
3 22	13 34.69	−11 18.6	1.529	2.470	9.6	20.5
4 1	13 26.27	−10 37.3	1.463	2.448	5.1	20.2
4 11	13 16.43	− 9 45.1	1.423	2.425	0.6	19.8
4 21	13 6.31	− 8 48.2	1.411	2.402	5.2	20.1
5 1	12 57.18	− 7 54.1	1.426	2.379	10.2	20.3
5 11	12 50.10	− 7 10.1	1.463	2.355	14.7	20.5

171112 Sickafoose 4 10.5 193°.35 0°.1/10.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.22	−10 22.8	2.432	3.204	12.8	21.7
3 12	13 37.34	−10 5.3	2.335	3.203	10.2	21.5
3 22	13 31.59	− 9 37.0	2.261	3.201	7.0	21.3
4 1	13 24.43	− 9 0.2	2.214	3.199	3.5	21.1
4 11	13 16.53	− 8 18.4	2.195	3.197	0.2	20.8
4 21	13 8.66	− 7 35.9	2.206	3.195	3.9	21.1
5 1	13 1.57	− 6 57.1	2.245	3.192	7.4	21.3
5 11	12 55.87	− 6 26.0	2.310	3.189	10.5	21.5

357969 2006 BK_{79} 4 10.5 321°.50 1°.7/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.42	−11 34.2	1.376	2.176	19.5	20.7
3 12	13 42.34	−12 0.1	1.289	2.170	15.8	20.4
3 22	13 36.01	−12 11.5	1.220	2.164	11.3	20.1
4 1	13 26.99	−12 8.6	1.174	2.158	6.2	19.8
4 11	13 16.40	−11 54.1	1.152	2.153	1.7	19.5
4 21	13 5.71	−11 32.9	1.155	2.148	5.7	19.7
5 1	12 56.42	−11 11.6	1.183	2.143	11.0	20.0
5 11	12 49.71	−10 57.1	1.232	2.139	15.8	20.3

72273 2001 AR_{44} 4 10.5 129°.28 0°.7/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.13	− 8 24.1	1.846	2.632	15.7	19.9
3 12	13 41.66	− 8 1.9	1.768	2.645	12.4	19.7
3 22	13 34.76	− 7 27.7	1.712	2.657	8.5	19.5
4 1	13 26.05	− 6 44.9	1.681	2.668	4.2	19.2
4 11	13 16.46	− 5 58.4	1.678	2.679	0.9	19.0
4 21	13 7.06	− 5 14.3	1.703	2.690	5.1	19.3
5 1	12 58.84	− 4 37.9	1.755	2.700	9.3	19.6
5 11	12 52.56	− 4 13.6	1.832	2.709	12.9	19.8

221120 2005 SD_{219} 4 10.5 150°.78 1°.1/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.15	− 6 54.3	2.363	3.142	12.9	21.3
3 12	13 39.55	− 6 27.8	2.278	3.151	10.2	21.1
3 22	13 33.04	− 5 52.5	2.216	3.160	6.9	20.9
4 1	13 25.12	− 5 11.3	2.182	3.169	3.4	20.7
4 11	13 16.51	− 4 28.6	2.176	3.176	1.2	20.6
4 21	13 8.02	− 3 48.9	2.200	3.184	4.5	20.8
5 1	13 0.41	− 3 16.3	2.253	3.190	7.9	21.0
5 11	12 54.30	− 2 54.0	2.331	3.196	11.0	21.2

213394 2001 US_{187} 4 10.5 222°.44 0°.6/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 31.96	− 7 2.8	4.664	5.437	7.1	20.5
3 12	13 29.18	− 6 34.7	4.563	5.435	5.5	20.4
3 22	13 25.54	− 6 1.9	4.489	5.433	3.7	20.3
4 1	13 21.28	− 5 26.0	4.443	5.430	1.8	20.1
4 11	13 16.71	− 4 49.2	4.427	5.428	0.6	20.0
4 21	13 12.16	− 4 13.6	4.442	5.426	2.4	20.2
5 1	13 7.95	− 3 41.4	4.487	5.423	4.3	20.3
5 11	13 4.37	− 3 14.3	4.558	5.421	6.1	20.4

64956 2001 YU_{128} 4 10.5 327°.79 14°.6/20.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.62	−37 8.3	1.507	2.190	22.8	18.1
3 12	13 37.83	−39 3.8	1.405	2.166	21.1	17.9
3 22	13 33.58	−40 35.2	1.316	2.142	19.1	17.6
4 1	13 26.12	−41 33.1	1.243	2.120	17.0	17.4
4 11	13 16.43	−41 49.5	1.189	2.099	15.3	17.2
4 21	13 6.07	−41 20.8	1.154	2.079	14.6	17.1
5 1	12 56.95	−40 10.1	1.139	2.060	15.3	17.1
5 11	12 50.74	−38 28.4	1.143	2.042	17.3	17.2

112711 2002 PT_{110} 4 10.5 26°.73 6°.9/16.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.38	−26 7.4	2.050	2.754	16.9	19.4
3 12	13 42.22	−27 14.3	1.955	2.755	14.6	19.2
3 22	13 35.45	−28 3.9	1.879	2.756	11.9	19.0
4 1	13 26.56	−28 32.5	1.826	2.758	9.2	18.8
4 11	13 16.44	−28 38.4	1.798	2.760	7.3	18.7
4 21	13 6.20	−28 23.0	1.796	2.761	7.2	18.7
5 1	12 56.99	−27 50.7	1.821	2.763	9.1	18.8
5 11	12 49.76	−27 8.8	1.870	2.765	11.8	19.0

9574 Taku 4 10.5 25°.64 3°.2/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.67	− 3 20.1	1.193	2.026	19.9	16.9
3 12	13 40.99	− 2 56.6	1.127	2.030	15.7	16.7
3 22	13 34.98	− 2 22.1	1.079	2.036	10.7	16.4
4 1	13 26.37	− 1 42.5	1.052	2.042	5.6	16.1
4 11	13 16.46	− 1 6.1	1.050	2.048	3.5	16.0
4 21	13 6.77	− 0 40.5	1.072	2.055	8.0	16.3
5 1	12 58.75	− 0 31.8	1.116	2.063	13.1	16.6
5 11	12 53.42	− 0 42.8	1.181	2.071	17.5	16.9

53108 1999 AW_4 4 10.5 179°.95 0°.2/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.13	− 9 36.7	2.140	2.916	14.2	19.5
3 12	13 39.88	− 9 18.1	2.047	2.918	11.2	19.3
3 22	13 33.48	− 8 48.1	1.977	2.918	7.8	19.1
4 1	13 25.43	− 8 9.0	1.932	2.919	3.9	18.8
4 11	13 16.52	− 7 25.0	1.916	2.918	0.4	18.5
4 21	13 7.65	− 6 41.0	1.930	2.918	4.4	18.8
5 1	12 59.72	− 6 2.2	1.971	2.916	8.3	19.1
5 11	12 53.44	− 5 33.0	2.037	2.915	11.8	19.3

290517 2005 UW_{37} 4 10.5 159°.24 0°.6/10.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.47	− 9 38.8	1.593	2.387	17.5	21.9
3 12	13 41.67	− 9 11.7	1.511	2.392	13.9	21.7
3 22	13 35.09	− 8 29.1	1.449	2.395	9.6	21.4
4 1	13 26.34	− 7 34.4	1.411	2.399	4.7	21.2
4 11	13 16.47	− 6 33.7	1.400	2.402	0.8	20.9
4 21	13 6.72	− 5 34.5	1.416	2.405	5.7	21.2
5 1	12 58.26	− 4 44.1	1.458	2.407	10.4	21.5
5 11	12 52.01	− 4 8.5	1.523	2.408	14.6	21.7

386141 2007 TV_{132} 4 10.5 147°.36 0°.4/10.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.43	− 9 15.1	2.559	3.334	12.1	22.5
3 12	13 36.54	− 8 46.7	2.470	3.341	9.6	22.3
3 22	13 30.94	− 8 8.6	2.405	3.347	6.5	22.1
4 1	13 24.07	− 7 23.3	2.367	3.354	3.2	21.9
4 11	13 16.59	− 6 34.6	2.358	3.360	0.5	21.7
4 21	13 9.19	− 5 47.0	2.378	3.365	3.9	22.0
5 1	13 2.56	− 5 4.8	2.427	3.370	7.1	22.2
5 11	12 57.24	− 4 31.5	2.502	3.375	10.0	22.4

66693 1999 TB_{70} 4 10.5 293°.91 0°.5/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.33	−12 37.2	1.911	2.695	15.3	19.0
3 12	13 36.48	−12 12.1	1.815	2.689	12.3	18.8
3 22	13 31.35	−11 31.0	1.741	2.682	8.7	18.5
4 1	13 24.44	−10 36.3	1.691	2.676	4.5	18.3
4 11	13 16.57	− 9 32.6	1.667	2.669	0.5	17.9
4 21	13 8.69	− 8 26.3	1.672	2.663	4.5	18.2
5 1	13 1.77	− 7 24.4	1.703	2.657	8.8	18.5
5 11	12 56.58	− 6 32.9	1.759	2.651	12.6	18.7

495600 2015 AC_{274} 4 10.5 262°.03 7°.1/16.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.51	−26 30.0	2.016	2.718	17.2	21.2
3 12	13 42.60	−27 28.4	1.902	2.702	14.9	21.0
3 22	13 35.94	−28 9.2	1.808	2.686	12.3	20.8
4 1	13 26.93	−28 28.2	1.736	2.669	9.5	20.6
4 11	13 16.44	−28 23.3	1.688	2.652	7.5	20.4
4 21	13 5.60	−27 55.4	1.667	2.634	7.5	20.4
5 1	12 55.68	−27 9.0	1.672	2.616	9.6	20.4
5 11	12 47.77	−26 12.2	1.701	2.598	12.7	20.6

8830 1988 *VZ* 4 10.5 225°.25 1°.1/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 40.86	− 5 25.2	3.027	3.803	10.4	18.2
3 12	13 36.68	− 5 6.2	2.920	3.792	8.2	18.0
3 22	13 30.96	− 4 41.1	2.838	3.781	5.6	17.8
4 1	13 24.09	− 4 12.1	2.783	3.770	2.8	17.6
4 11	13 16.60	− 3 42.3	2.759	3.758	1.2	17.5
4 21	13 9.08	− 3 15.0	2.765	3.746	3.8	17.6
5 1	13 2.15	− 2 53.1	2.800	3.734	6.7	17.8
5 11	12 56.31	− 2 39.2	2.861	3.721	9.3	18.0

257560 1998 TP_{25} 4 10.5 312°.55 0°.2/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.47	− 8 54.9	1.483	2.292	17.9	20.3
3 12	13 39.01	− 8 52.7	1.386	2.275	14.4	20.0
3 22	13 33.62	− 8 36.6	1.309	2.259	10.1	19.7
4 1	13 25.79	− 8 8.6	1.254	2.243	5.1	19.4
4 11	13 16.50	− 7 33.6	1.225	2.227	0.4	19.0
4 21	13 7.02	− 6 57.8	1.221	2.212	5.9	19.3
5 1	12 58.70	− 6 28.2	1.242	2.197	11.1	19.6
5 11	12 52.65	− 6 11.0	1.284	2.184	15.8	19.8

364676 2007 TM_{361} 4 10.5 64°.25 1°.3/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.23	−15 0.3	1.492	2.283	18.6	21.1
3 12	13 38.47	−14 34.7	1.418	2.293	15.0	20.9
3 22	13 32.92	−13 47.7	1.363	2.303	10.6	20.7
4 1	13 25.26	−12 42.0	1.330	2.314	5.8	20.4
4 11	13 16.55	−11 23.6	1.324	2.325	1.4	20.1
4 21	13 8.05	−10 1.4	1.343	2.336	5.1	20.4
5 1	13 0.91	− 8 44.5	1.388	2.347	9.9	20.7
5 11	12 55.99	− 7 41.1	1.456	2.358	14.1	21.0

519176 2010 OW_{67} 4 10.5 261°.83 0°.9/11.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 37.76	−15 12.3	2.279	3.045	13.7	21.8
3 12	13 34.85	−14 31.5	2.175	3.037	11.1	21.6
3 22	13 30.03	−13 34.1	2.094	3.029	7.9	21.4
4 1	13 23.72	−12 22.1	2.038	3.021	4.2	21.1
4 11	13 16.64	−11 0.2	2.011	3.012	0.9	20.9
4 21	13 9.55	− 9 34.3	2.013	3.004	3.8	21.1
5 1	13 3.26	− 8 11.3	2.043	2.996	7.6	21.3
5 11	12 58.41	− 6 57.4	2.099	2.987	11.0	21.5

453902 2011 UK_{298} 4 10.5 165°.54 3°.4/13.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.87	−19 30.6	1.786	2.537	17.5	22.2
3 12	13 41.08	−19 29.9	1.695	2.541	14.5	22.0
3 22	13 34.64	−19 8.8	1.624	2.544	10.8	21.8
4 1	13 26.13	−18 26.9	1.577	2.547	6.8	21.5
4 11	13 16.52	−17 27.1	1.555	2.550	3.6	21.3
4 21	13 6.96	−16 15.3	1.561	2.552	4.9	21.4
5 1	12 58.60	−14 59.6	1.595	2.553	8.8	21.6
5 11	12 52.31	−13 48.7	1.652	2.554	12.7	21.9

329544 2002 TV_{241} 4 10.5 135°.88 15°.0/ 3.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	14 2.97	+23 28.9	1.254	2.050	21.2	20.4
3 12	13 56.14	+24 38.5	1.203	2.057	18.6	20.2
3 22	13 45.26	+25 29.3	1.170	2.064	16.3	20.1
4 1	13 31.38	+25 46.7	1.157	2.070	15.1	20.0
4 11	13 16.27	+25 20.4	1.166	2.076	15.5	20.1
4 21	13 1.92	+24 8.3	1.198	2.082	17.4	20.2
5 1	12 50.01	+22 15.7	1.250	2.087	20.0	20.4
5 11	12 41.55	+19 52.9	1.320	2.091	22.6	20.6

122966 2000 SN_{219} 4 10.5 246°.93 3°.9/ 6.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.21	+ 0 32.2	2.226	3.028	12.9	20.6
3 12	13 38.40	+ 1 28.9	2.124	3.011	10.2	20.4
3 22	13 32.51	+ 2 32.3	2.046	2.994	7.1	20.2
4 1	13 25.00	+ 3 37.2	1.994	2.975	4.5	20.0
4 11	13 16.59	+ 4 37.3	1.971	2.957	4.4	19.9
4 21	13 8.10	+ 5 26.6	1.977	2.937	7.0	20.0
5 1	13 0.40	+ 6 0.3	2.009	2.918	10.3	20.2
5 11	12 54.22	+ 6 16.0	2.064	2.897	13.4	20.4

422877 2002 QL_{24} 4 10.5 251°.56 3°.7/13.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.94	−18 45.7	2.043	2.783	15.9	21.7
3 12	13 42.71	−19 10.5	1.925	2.763	13.3	21.5
3 22	13 35.88	−19 20.0	1.828	2.742	10.1	21.3
4 1	13 26.88	−19 12.6	1.754	2.721	6.6	21.0
4 11	13 16.50	−18 48.7	1.708	2.699	3.9	20.8
4 21	13 5.83	−18 11.4	1.689	2.677	5.1	20.8
5 1	12 56.00	−17 25.9	1.699	2.653	8.7	21.0
5 11	12 48.03	−16 39.3	1.733	2.629	12.5	21.1

173329 1999 VF_{186} 4 10.5 215°.18 0°.9/ 9.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.74	− 8 45.9	2.067	2.849	14.4	21.2
3 12	13 39.76	− 8 9.8	1.967	2.841	11.4	20.9
3 22	13 33.53	− 7 20.7	1.888	2.833	7.9	20.7
4 1	13 25.54	− 6 21.9	1.836	2.824	3.9	20.4
4 11	13 16.59	− 5 18.7	1.813	2.814	1.1	20.2
4 21	13 7.60	− 4 17.0	1.818	2.803	5.0	20.5
5 1	12 59.52	− 3 23.1	1.851	2.792	9.1	20.7
5 11	12 53.13	− 2 41.9	1.909	2.780	12.7	20.9

419645 2010 TP_{29} 4 10.5 232°.81 0°.3/10.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 42.84	−11 42.8	1.785	2.570	16.2	22.4
3 12	13 39.46	−11 20.9	1.689	2.564	13.0	22.1
3 22	13 33.55	−10 43.1	1.614	2.556	9.1	21.9
4 1	13 25.63	− 9 51.5	1.563	2.549	4.7	21.6
4 11	13 16.59	− 8 51.1	1.539	2.541	0.3	21.2
4 21	13 7.51	− 7 48.5	1.543	2.533	4.9	21.6
5 1	12 59.48	− 6 50.9	1.573	2.525	9.5	21.8
5 11	12 53.40	− 6 4.8	1.627	2.516	13.6	22.0

41968 2000 XE_{53} 4 10.5 95°.99 1°.8/ 9.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.09	− 4 7.4	1.976	2.770	14.6	19.1
3 12	13 40.67	− 3 52.3	1.899	2.781	11.4	18.9
3 22	13 34.01	− 3 29.9	1.844	2.792	7.8	18.7
4 1	13 25.70	− 3 3.8	1.815	2.803	3.9	18.5
4 11	13 16.60	− 2 38.4	1.815	2.814	2.0	18.4
4 21	13 7.66	− 2 18.3	1.842	2.824	5.4	18.6
5 1	12 59.79	− 2 7.3	1.897	2.835	9.1	18.9
5 11	12 53.71	− 2 7.9	1.976	2.845	12.5	19.1

222616 2001 XF_{74} 4 10.5 177°.07 0°.0/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.63	−11 4.4	2.284	3.055	13.5	21.6
3 12	13 38.57	−10 35.0	2.190	3.057	10.8	21.4
3 22	13 32.52	− 9 53.0	2.119	3.059	7.5	21.2
4 1	13 24.96	− 9 1.0	2.074	3.060	3.7	21.0
4 11	13 16.63	− 8 3.2	2.058	3.060	0.2	20.6
4 21	13 8.35	− 7 5.0	2.071	3.060	4.1	21.0
5 1	13 0.94	− 6 11.6	2.113	3.059	7.8	21.2
5 11	12 55.05	− 5 27.9	2.181	3.058	11.1	21.4

74449 1999 CR_{22} 4 10.5 57°.80 3°.5/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.19	− 0 14.3	1.988	2.797	13.9	19.3
3 12	13 37.58	+ 0 26.7	1.915	2.806	10.9	19.1
3 22	13 31.88	+ 1 13.1	1.865	2.816	7.5	18.9
4 1	13 24.63	+ 1 59.7	1.841	2.825	4.4	18.8
4 11	13 16.65	+ 2 40.7	1.845	2.835	3.9	18.8
4 21	13 8.84	+ 3 11.1	1.875	2.844	6.6	18.9
5 1	13 2.04	+ 3 27.0	1.932	2.854	9.9	19.2
5 11	12 56.89	+ 3 26.8	2.013	2.864	13.0	19.4

501041 2013 RK_{79} 4 10.5 134°.31 0°.0/10.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.21	−11 2.7	2.122	2.898	14.3	23.1
3 12	13 38.33	−10 32.7	2.037	2.908	11.3	22.9
3 22	13 32.38	− 9 49.7	1.975	2.917	7.8	22.7
4 1	13 24.89	− 8 56.5	1.939	2.925	3.9	22.4
4 11	13 16.64	− 7 57.7	1.931	2.933	0.2	22.1
4 21	13 8.52	− 6 59.0	1.952	2.941	4.3	22.5
5 1	13 1.35	− 6 6.0	2.001	2.949	8.1	22.7
5 11	12 55.81	− 5 23.6	2.075	2.956	11.5	22.9

332824 2009 XO_{16} 4 10.5 154°.12 1°.9/12.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.77	−16 14.9	2.177	2.933	14.6	21.0
3 12	13 38.06	−16 5.8	2.085	2.937	11.8	20.9
3 22	13 32.26	−15 41.4	2.013	2.941	8.6	20.7
4 1	13 24.86	−15 2.6	1.967	2.944	5.0	20.4
4 11	13 16.65	−14 12.6	1.949	2.947	2.0	20.2
4 21	13 8.48	−13 16.3	1.959	2.950	3.9	20.4
5 1	13 1.23	−12 19.4	1.997	2.953	7.5	20.6
5 11	12 55.60	−11 27.8	2.060	2.955	10.9	20.8

502279 2015 BP_{134} 4 10.5 193°.66 4°.3/ 6.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.73	+ 2 0.0	2.185	2.989	13.0	21.6
3 12	13 38.69	+ 2 56.5	2.100	2.987	10.3	21.4
3 22	13 32.62	+ 3 57.6	2.038	2.985	7.2	21.3
4 1	13 25.02	+ 4 57.8	2.004	2.982	4.8	21.1
4 11	13 16.64	+ 5 50.8	1.998	2.979	4.7	21.1
4 21	13 8.32	+ 6 31.2	2.020	2.976	7.2	21.2
5 1	13 0.90	+ 6 55.2	2.068	2.972	10.3	21.4
5 11	12 55.05	+ 7 1.1	2.140	2.968	13.2	21.6

370030 2000 QV_{81} 4 10.5 204°.95 3°.7/14.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.03	−20 14.6	2.372	3.095	14.4	21.3
3 12	13 41.43	−20 39.4	2.265	3.090	12.0	21.2
3 22	13 34.64	−20 49.7	2.180	3.085	9.2	21.0
4 1	13 26.10	−20 44.5	2.119	3.079	6.2	20.8
4 11	13 16.58	−20 24.4	2.086	3.073	3.9	20.6
4 21	13 6.97	−19 52.2	2.082	3.066	4.6	20.6
5 1	12 58.19	−19 12.4	2.106	3.059	7.4	20.8
5 11	12 51.03	−18 30.8	2.157	3.051	10.5	21.0

422325 2014 SA_{204} 4 10.5 18°.99 4°.3/ 7.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.03	− 0 8.4	1.388	2.213	18.0	20.4
3 12	13 41.66	+ 0 19.8	1.316	2.215	14.2	20.1
3 22	13 35.27	+ 0 54.8	1.263	2.217	9.9	19.9
4 1	13 26.52	+ 1 30.1	1.234	2.220	5.6	19.6
4 11	13 16.57	+ 1 58.4	1.229	2.222	4.6	19.6
4 21	13 6.78	+ 2 13.0	1.250	2.226	8.3	19.8
5 1	12 58.46	+ 2 9.7	1.295	2.229	12.7	20.1
5 11	12 52.56	+ 1 46.8	1.360	2.233	16.8	20.3

322208 2011 AK_{14} 4 10.5 67°.41 0°.7/ 9.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 37.80	− 7 16.8	2.971	3.750	10.5	21.1
3 12	13 34.19	− 6 56.4	2.893	3.766	8.2	21.0
3 22	13 29.19	− 6 29.1	2.839	3.783	5.6	20.8
4 1	13 23.19	− 5 57.4	2.812	3.800	2.7	20.6
4 11	13 16.74	− 5 24.4	2.815	3.816	0.8	20.5
4 21	13 10.39	− 4 53.3	2.848	3.833	3.4	20.7
5 1	13 4.69	− 4 27.1	2.909	3.850	6.2	20.9
5 11	13 0.09	− 4 8.3	2.996	3.866	8.6	21.1

97928 2000 QA_{101} 4 10.5 265°.87 1°.2/ 9.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.72	− 6 21.7	1.605	2.405	17.1	18.9
3 12	13 42.96	− 6 17.1	1.505	2.390	13.7	18.7
3 22	13 36.26	− 6 1.8	1.427	2.375	9.5	18.4
4 1	13 27.13	− 5 38.6	1.372	2.360	4.7	18.1
4 11	13 16.54	− 5 12.1	1.343	2.344	1.3	17.8
4 21	13 5.76	− 4 48.0	1.341	2.328	6.1	18.0
5 1	12 56.12	− 4 32.1	1.365	2.313	11.1	18.3
5 11	12 48.71	− 4 29.1	1.412	2.296	15.5	18.5

421150 2013 RD_{31} 4 10.5 126°.51 7°.3/17.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.18	−29 12.5	1.976	2.670	17.7	21.1
3 12	13 40.57	−29 54.1	1.884	2.674	15.4	21.0
3 22	13 34.35	−30 13.8	1.810	2.679	12.7	20.8
4 1	13 26.04	−30 7.9	1.757	2.683	9.9	20.6
4 11	13 16.60	−29 36.0	1.729	2.687	7.8	20.5
4 21	13 7.14	−28 40.8	1.726	2.691	7.4	20.5
5 1	12 58.83	−27 28.8	1.749	2.695	9.2	20.6
5 11	12 52.55	−26 8.9	1.797	2.698	11.9	20.7

343872 2011 HX_{74} 4 10.5 317°.68 3°.1/ 7.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 36.86	− 4 37.8	1.696	2.516	15.5	20.9
3 12	13 34.84	− 3 35.6	1.603	2.501	12.2	20.6
3 22	13 30.41	− 2 19.7	1.531	2.486	8.3	20.4
4 1	13 24.08	− 0 55.7	1.484	2.472	4.5	20.1
4 11	13 16.69	+ 0 28.0	1.463	2.459	3.6	20.0
4 21	13 9.25	+ 1 42.8	1.469	2.445	7.2	20.2
5 1	13 2.79	+ 2 41.1	1.500	2.433	11.4	20.4
5 11	12 58.18	+ 3 18.1	1.552	2.420	15.3	20.6

423218 2004 RO_{176} 4 10.6 221°.72 4°.3/14.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.81	−21 39.6	2.175	2.902	15.4	21.6
3 12	13 39.93	−22 0.4	2.070	2.896	13.0	21.4
3 22	13 33.73	−22 4.3	1.986	2.890	10.0	21.2
4 1	13 25.70	−21 49.9	1.925	2.883	6.9	21.0
4 11	13 16.63	−21 18.3	1.891	2.876	4.5	20.9
4 21	13 7.46	−20 32.5	1.885	2.869	5.0	20.9
5 1	12 59.20	−19 38.2	1.906	2.861	7.9	21.0
5 11	12 52.66	−18 42.1	1.953	2.853	11.1	21.2

300931 2008 CS_{97} 4 10.6 208°.95 1°.3/ 8.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.45	− 5 49.9	2.693	3.477	11.4	21.5
3 12	13 35.76	− 5 19.1	2.597	3.474	8.9	21.3
3 22	13 30.44	− 4 40.6	2.524	3.470	6.1	21.1
4 1	13 23.89	− 3 57.4	2.478	3.466	3.0	20.9
4 11	13 16.72	− 3 13.5	2.462	3.461	1.5	20.7
4 21	13 9.56	− 2 32.8	2.475	3.457	4.2	20.9
5 1	13 3.07	− 1 59.1	2.517	3.452	7.3	21.1
5 11	12 57.80	− 1 35.5	2.584	3.447	10.1	21.3

362769 2011 WE_{77} 4 10.6 94°.49 3°.4/13.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.88	−19 2.0	1.577	2.342	18.9	20.7
3 12	13 40.54	−19 1.5	1.499	2.354	15.5	20.5
3 22	13 34.38	−18 38.8	1.439	2.365	11.5	20.3
4 1	13 26.04	−17 54.1	1.403	2.376	7.1	20.0
4 11	13 16.62	−16 51.1	1.391	2.387	3.6	19.8
4 21	13 7.36	−15 36.7	1.406	2.397	5.1	20.0
5 1	12 59.47	−14 20.1	1.447	2.408	9.3	20.2
5 11	12 53.85	−13 10.3	1.512	2.418	13.4	20.5

149909 2005 SY_{52} 4 10.6 184°.25 0°.5/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.45	− 7 58.4	2.893	3.665	11.0	20.9
3 12	13 36.41	− 7 41.8	2.796	3.665	8.6	20.7
3 22	13 30.81	− 7 17.6	2.723	3.665	5.9	20.6
4 1	13 24.06	− 6 48.0	2.678	3.664	2.9	20.4
4 11	13 16.72	− 6 15.9	2.662	3.663	0.6	20.2
4 21	13 9.41	− 5 44.8	2.676	3.662	3.5	20.4
5 1	13 2.73	− 5 17.8	2.719	3.660	6.5	20.6
5 11	12 57.22	− 4 58.0	2.788	3.659	9.2	20.8

470936 2009 HJ_{12} 4 10.6 267°.78 3°.7/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 37.34	+ 0 6.7	2.406	3.214	11.9	21.4
3 12	13 34.34	+ 1 16.4	2.314	3.205	9.3	21.2
3 22	13 29.59	+ 2 32.8	2.246	3.195	6.5	21.0
4 1	13 23.52	+ 3 50.6	2.205	3.186	4.1	20.8
4 11	13 16.75	+ 5 3.5	2.194	3.177	4.2	20.8
4 21	13 9.99	+ 6 5.8	2.210	3.168	6.6	20.9
5 1	13 3.94	+ 6 53.0	2.253	3.158	9.5	21.1
5 11	12 59.21	+ 7 22.4	2.320	3.149	12.2	21.3

467097 2016 ED_{22} 4 10.6 329°.27 6°.2/15.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 37.67	−25 8.2	1.503	2.256	20.2	20.5
3 12	13 36.18	−25 25.6	1.408	2.246	17.3	20.2
3 22	13 31.76	−25 15.7	1.330	2.237	13.7	20.0
4 1	13 24.91	−24 35.4	1.273	2.229	9.9	19.7
4 11	13 16.67	−23 25.6	1.238	2.221	6.8	19.5
4 21	13 8.34	−21 52.0	1.228	2.213	6.8	19.5
5 1	13 1.26	−20 5.1	1.242	2.206	10.1	19.6
5 11	12 56.52	−18 17.6	1.279	2.200	14.2	19.9

72368 2001 CT_2 4 10.6 239°.52 1°.4/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.88	−13 19.0	2.139	2.905	14.5	19.7
3 12	13 39.07	−13 21.4	2.038	2.899	11.7	19.5
3 22	13 33.06	−13 11.1	1.959	2.893	8.4	19.2
4 1	13 25.34	−12 48.9	1.905	2.887	4.6	19.0
4 11	13 16.66	−12 17.5	1.879	2.880	1.4	18.8
4 21	13 7.94	−11 41.2	1.882	2.873	4.1	18.9
5 1	13 0.09	−11 4.9	1.912	2.866	7.9	19.2
5 11	12 53.88	−10 33.8	1.967	2.859	11.5	19.4

400522 2008 SN_{243} 4 10.6 215°.86 1°.4/ 9.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 47.08	− 6 53.5	1.788	2.579	16.0	22.2
3 12	13 42.81	− 6 27.4	1.692	2.571	12.7	21.9
3 22	13 35.88	− 5 49.2	1.616	2.563	8.8	21.7
4 1	13 26.83	− 5 2.3	1.566	2.554	4.3	21.4
4 11	13 16.59	− 4 12.3	1.543	2.544	1.6	21.2
4 21	13 6.29	− 3 25.6	1.549	2.533	5.8	21.4
5 1	12 57.07	− 2 48.3	1.581	2.522	10.4	21.7
5 11	12 49.87	− 2 25.4	1.636	2.509	14.4	21.9

61352 2000 PY_9 4 10.6 191°.14 2°.6/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.56	− 1 32.5	2.648	3.434	11.5	19.9
3 12	13 38.97	− 0 51.8	2.554	3.432	9.0	19.7
3 22	13 32.64	− 0 5.5	2.484	3.430	6.2	19.5
4 1	13 25.00	+ 0 42.6	2.443	3.427	3.5	19.3
4 11	13 16.70	+ 1 28.0	2.431	3.422	2.9	19.3
4 21	13 8.42	+ 2 6.3	2.449	3.418	5.3	19.4
5 1	13 0.88	+ 2 34.1	2.495	3.412	8.2	19.6
5 11	12 54.66	+ 2 49.0	2.567	3.406	10.9	19.8

334674 2003 AO_{29} 4 10.6 101°.66 3°.2/ 6.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.06	+ 0 13.9	2.604	3.399	11.4	21.2
3 12	13 36.85	+ 1 9.3	2.539	3.423	8.8	21.1
3 22	13 31.04	+ 2 8.8	2.500	3.446	6.1	21.0
4 1	13 24.13	+ 3 7.5	2.488	3.469	3.7	20.8
4 11	13 16.74	+ 4 0.7	2.506	3.491	3.5	20.8
4 21	13 9.55	+ 4 44.0	2.552	3.513	5.7	21.0
5 1	13 3.17	+ 5 14.5	2.627	3.534	8.3	21.2
5 11	12 58.08	+ 5 30.7	2.726	3.555	10.6	21.4

259003 2002 TX_{98} 4 10.6 248°.89 0°.2/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.24	−10 26.8	1.927	2.710	15.3	22.1
3 12	13 39.68	−10 2.8	1.821	2.695	12.3	21.9
3 22	13 33.69	− 9 24.4	1.736	2.679	8.6	21.6
4 1	13 25.74	− 8 33.9	1.677	2.663	4.3	21.3
4 11	13 16.66	− 7 36.1	1.645	2.647	0.3	21.0
4 21	13 7.45	− 6 36.9	1.641	2.630	4.9	21.3
5 1	12 59.15	− 5 43.1	1.664	2.612	9.4	21.5
5 11	12 52.66	− 5 0.6	1.711	2.594	13.4	21.7

261387 2005 UF_{388} 4 10.6 266°.01 1°.2/ 9.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.72	− 6 14.1	2.565	3.350	11.8	22.0
3 12	13 36.17	− 5 47.8	2.456	3.334	9.3	21.8
3 22	13 30.86	− 5 13.1	2.372	3.318	6.4	21.6
4 1	13 24.18	− 4 32.8	2.314	3.302	3.2	21.3
4 11	13 16.75	− 3 50.9	2.285	3.285	1.4	21.2
4 21	13 9.25	− 3 11.4	2.286	3.269	4.4	21.4
5 1	13 2.41	− 2 38.7	2.314	3.252	7.7	21.5
5 11	12 56.84	− 2 15.9	2.368	3.235	10.7	21.7

350592 2001 QH_{143} 4 10.6 210°.89 0°.4/10.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.94	− 9 26.8	2.597	3.371	12.0	22.0
3 12	13 36.26	− 8 57.6	2.496	3.366	9.5	21.8
3 22	13 30.85	− 8 18.2	2.419	3.361	6.5	21.6
4 1	13 24.15	− 7 31.0	2.369	3.355	3.2	21.4
4 11	13 16.76	− 6 39.9	2.348	3.349	0.5	21.2
4 21	13 9.37	− 5 49.3	2.356	3.343	3.9	21.4
5 1	13 2.68	− 5 3.6	2.393	3.337	7.2	21.6
5 11	12 57.27	− 4 26.9	2.456	3.330	10.2	21.8

432022 2008 VV_{49} 4 10.6 175°.82 1°.9/12.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.99	−15 48.5	2.187	2.944	14.5	21.9
3 12	13 38.28	−15 45.3	2.092	2.945	11.8	21.7
3 22	13 32.45	−15 27.5	2.018	2.946	8.5	21.5
4 1	13 25.01	−14 55.9	1.969	2.946	5.0	21.2
4 11	13 16.72	−14 13.3	1.948	2.947	2.0	21.0
4 21	13 8.44	−13 24.3	1.956	2.947	3.9	21.2
5 1	13 1.06	−12 34.3	1.991	2.947	7.5	21.4
5 11	12 55.29	−11 48.9	2.052	2.946	10.9	21.6

399655 2004 RR_{175} 4 10.6 219°.99 0°.3/10.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 45.05	−12 42.0	2.090	2.856	14.8	23.0
3 12	13 40.88	−12 5.9	1.981	2.844	11.9	22.8
3 22	13 34.39	−11 13.7	1.894	2.832	8.4	22.5
4 1	13 26.06	−10 7.4	1.834	2.818	4.3	22.2
4 11	13 16.67	− 8 51.7	1.801	2.804	0.3	21.9
4 21	13 7.19	− 7 33.1	1.799	2.788	4.5	22.2
5 1	12 58.61	− 6 18.9	1.825	2.771	8.8	22.4
5 11	12 51.75	− 5 15.5	1.876	2.753	12.6	22.6

465052 2006 RE_{81} 4 10.6 195°.03 1°.1/11.4 17

3 2	13 46.10	−12 17.0	1.949	2.719	15.6	22.2
3 12	13 41.80	−12 19.1	1.853	2.717	12.6	22.0
3 22	13 35.06	−12 8.1	1.779	2.715	8.9	21.7
4 1	13 26.39	−11 45.1	1.730	2.713	4.8	21.5
4 11	13 16.66	−11 13.1	1.709	2.710	1.1	21.2
4 21	13 6.92	−10 36.9	1.716	2.707	4.4	21.4
5 1	12 58.20	−10 1.8	1.750	2.703	8.6	21.7
5 11	12 51.35	− 9 33.4	1.809	2.699	12.4	21.9

434985 2006 UN_{143} 4 10.6 236°.55 2°.8/14.0 17

3 2	13 38.46	−20 48.8	2.566	3.296	13.2	21.3
3 12	13 35.26	−20 32.5	2.459	3.290	11.0	21.1
3 22	13 30.25	−19 59.7	2.373	3.284	8.3	20.9
4 1	13 23.88	−19 10.7	2.312	3.278	5.4	20.7
4 11	13 16.78	−18 8.1	2.280	3.272	3.0	20.6
4 21	13 9.67	−16 56.2	2.276	3.265	3.7	20.6
5 1	13 3.30	−15 40.5	2.301	3.258	6.6	20.8
5 11	12 58.26	−14 27.2	2.353	3.251	9.6	20.9

217156 2002 PP_{18} 4 10.6 289°.88 4°.2/14.3 18

3 2	13 41.58	−20 47.3	2.030	2.771	15.9	20.7
3 12	13 38.38	−21 9.9	1.924	2.760	13.4	20.5
3 22	13 32.81	−21 15.3	1.839	2.750	10.3	20.3
4 1	13 25.32	−21 2.2	1.777	2.739	7.0	20.1
4 11	13 16.71	−20 31.5	1.741	2.728	4.5	19.9
4 21	13 7.98	−19 46.6	1.732	2.718	5.1	19.9
5 1	13 0.15	−18 53.3	1.750	2.707	8.2	20.1
5 11	12 54.10	−17 58.8	1.792	2.697	11.7	20.2

141236 2001 XA_{248} 4 10.6 32°.08 1°.2/ 9.3 17

3 2	13 39.00	− 6 57.7	2.126	2.921	13.6	20.1
3 12	13 35.83	− 6 29.0	2.043	2.926	10.7	19.9
3 22	13 30.70	− 5 50.4	1.983	2.932	7.3	19.7
4 1	13 24.10	− 5 5.5	1.949	2.937	3.5	19.4
4 11	13 16.78	− 4 18.9	1.942	2.943	1.4	19.3
4 21	13 9.54	− 3 35.9	1.964	2.949	4.8	19.5
5 1	13 3.19	− 3 1.0	2.012	2.955	8.4	19.8
5 11	12 58.37	− 2 38.0	2.085	2.961	11.6	20.0

418965 2009 HP_{14} 4 10.6 281°.24 4°.7/ 6.5 17

3 2	13 40.90	− 1 9.1	1.561	2.384	16.4	20.7
3 12	13 38.26	− 0 1.3	1.473	2.372	13.0	20.5
3 22	13 32.93	+ 1 17.9	1.406	2.360	9.1	20.2
4 1	13 25.42	+ 2 41.2	1.363	2.348	5.5	20.0
4 11	13 16.71	+ 3 59.2	1.347	2.336	5.2	19.9
4 21	13 7.96	+ 5 2.7	1.356	2.323	8.8	20.1
5 1	13 0.36	+ 5 44.8	1.389	2.311	13.0	20.3
5 11	12 54.84	+ 6 1.8	1.443	2.299	16.9	20.5

377785 2005 YL_{271} 4 10.6 358°.14 2°.8/ 8.0 17

3 2	13 39.52	− 4 27.6	1.746	2.558	15.4	21.0
3 12	13 36.74	− 3 38.1	1.664	2.557	12.1	20.8
3 22	13 31.59	− 2 37.3	1.604	2.557	8.2	20.5
4 1	13 24.64	− 1 30.7	1.568	2.556	4.3	20.3
4 11	13 16.75	− 0 25.5	1.560	2.556	3.1	20.2
4 21	13 8.95	+ 0 31.1	1.578	2.557	6.6	20.4
5 1	13 2.21	+ 1 13.1	1.622	2.557	10.6	20.7
5 11	12 57.31	+ 1 36.7	1.689	2.558	14.2	20.9

136702 1995 SU_{85} 4 10.6 145°.43 0°.1/10.5 17

3 2	13 40.60	− 9 54.0	2.887	3.653	11.1	22.4
3 12	13 36.49	− 9 33.1	2.798	3.662	8.8	22.2
3 22	13 30.85	− 9 3.5	2.732	3.671	6.0	22.1
4 1	13 24.09	− 8 27.3	2.694	3.679	3.0	21.9
4 11	13 16.79	− 7 47.5	2.685	3.687	0.2	21.6
4 21	13 9.57	− 7 7.8	2.707	3.695	3.3	21.9
5 1	13 3.02	− 6 31.7	2.758	3.702	6.3	22.1
5 11	12 57.65	− 6 2.5	2.835	3.709	9.0	22.3

47866 2000 FM_5 4 10.6 198°.66 0°.4/10.9 18

3 2	13 40.95	−11 38.6	2.319	3.091	13.3	20.5
3 12	13 37.29	−11 19.2	2.223	3.089	10.7	20.3
3 22	13 31.70	−10 47.5	2.148	3.087	7.4	20.0
4 1	13 24.62	−10 5.8	2.100	3.085	3.8	19.8
4 11	13 16.77	− 9 17.7	2.080	3.082	0.4	19.5
4 21	13 8.94	− 8 27.9	2.090	3.080	3.9	19.8
5 1	13 1.92	− 7 41.5	2.127	3.077	7.5	20.0
5 11	12 56.36	− 7 3.0	2.190	3.074	10.8	20.2

227370 2005 UV_{190} 4 10.6 296°.78 1°.3/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 40.28	−13 57.9	1.720	2.505	16.8	20.5
3 12	13 37.67	−13 47.6	1.620	2.492	13.6	20.2
3 22	13 32.49	−13 19.8	1.540	2.479	9.8	19.9
4 1	13 25.22	−12 35.6	1.483	2.466	5.4	19.7
4 11	13 16.74	−11 38.9	1.452	2.453	1.4	19.3
4 21	13 8.15	−10 36.2	1.448	2.441	4.8	19.6
5 1	13 0.58	− 9 35.0	1.470	2.428	9.5	19.8
5 11	12 54.98	− 8 42.7	1.515	2.416	13.7	20.0

313758 2003 WA_{59} 4 10.6 89°.50 0°.7/11.1 18

3 2	13 44.19	−12 55.4	1.651	2.435	17.4	21.2
3 12	13 40.46	−12 32.5	1.580	2.452	13.9	21.0
3 22	13 34.13	−11 52.4	1.528	2.469	9.7	20.8
4 1	13 25.88	−10 58.0	1.501	2.486	5.0	20.6
4 11	13 16.72	− 9 54.8	1.501	2.502	0.7	20.3
4 21	13 7.81	− 8 50.0	1.527	2.519	4.8	20.6
5 1	13 0.22	− 7 51.2	1.581	2.535	9.3	20.9
5 11	12 54.71	− 7 4.4	1.658	2.551	13.2	21.2

389632 2011 KS_7 4 10.6 246°.11 2°.9/ 7.7 17

3 2	13 41.15	− 2 18.0	2.092	2.894	13.6	20.8
3 12	13 37.63	− 1 37.2	2.002	2.890	10.6	20.6
3 22	13 32.02	− 0 48.8	1.935	2.885	7.3	20.4
4 1	13 24.82	+ 0 2.5	1.894	2.880	4.0	20.1
4 11	13 16.78	+ 0 51.1	1.881	2.874	3.2	20.1
4 21	13 8.77	+ 1 31.6	1.896	2.869	6.1	20.3
5 1	13 1.65	+ 1 59.3	1.937	2.864	9.6	20.5
5 11	12 56.11	+ 2 11.5	2.002	2.858	12.9	20.6

2386 Nikonov 4 10.6 260°.97 1°.4/11.8 18

3 2	13 43.83	−12 59.4	2.229	2.992	14.1	16.5
3 12	13 39.83	−13 8.9	2.119	2.978	11.4	16.3
3 22	13 33.65	−13 6.9	2.031	2.964	8.2	16.1
4 1	13 25.71	−12 54.0	1.969	2.949	4.6	15.8
4 11	13 16.74	−12 32.2	1.934	2.934	1.5	15.6
4 21	13 7.64	−12 5.1	1.928	2.919	4.0	15.7
5 1	12 59.33	−11 37.2	1.950	2.904	7.8	15.9
5 11	12 52.60	−11 13.3	1.998	2.888	11.4	16.1

467034 2016 CS_{210} 4 10.6 323°.33 2°.1/ 9.2 17

3 2	13 38.11	− 6 3.0	1.264	2.097	19.0	20.1
3 12	13 36.89	− 5 42.4	1.170	2.074	15.2	19.8
3 22	13 32.53	− 5 6.6	1.094	2.052	10.5	19.4
4 1	13 25.48	− 4 19.8	1.040	2.030	5.3	19.1
4 11	13 16.75	− 3 29.3	1.009	2.010	2.4	18.8
4 21	13 7.74	− 2 43.8	1.002	1.990	7.5	19.0
5 1	12 59.97	− 2 12.2	1.017	1.971	13.1	19.3
5 11	12 54.70	− 2 0.7	1.052	1.954	18.2	19.5

12102 Piazzolla 4 10.6 328°.20 1°.5/12.0 18

3 2	13 35.98	−16 52.0	1.663	2.448	17.3	17.7
3 12	13 34.31	−16 12.1	1.567	2.437	14.1	17.4
3 22	13 30.16	−15 8.5	1.490	2.428	10.1	17.1
4 1	13 24.03	−13 43.2	1.436	2.419	5.7	16.9
4 11	13 16.82	−12 1.8	1.409	2.410	1.6	16.6
4 21	13 9.59	−10 13.4	1.408	2.402	4.8	16.8
5 1	13 3.42	− 8 28.4	1.434	2.394	9.5	17.0
5 11	12 59.17	− 6 56.4	1.483	2.387	13.8	17.2

62030 2000 RK_{56} 4 10.6 291°.00 5°.0/13.9 18

3 2	13 45.74	−19 40.8	1.849	2.595	17.1	18.3
3 12	13 42.19	−20 31.2	1.734	2.572	14.5	18.1
3 22	13 35.83	−21 7.0	1.638	2.550	11.3	17.8
4 1	13 27.05	−21 25.5	1.565	2.527	7.8	17.5
4 11	13 16.69	−21 25.5	1.517	2.504	5.2	17.3
4 21	13 5.90	−21 8.6	1.497	2.481	6.1	17.3
5 1	12 55.99	−20 39.6	1.502	2.458	9.5	17.5
5 11	12 48.12	−20 5.5	1.531	2.435	13.4	17.6

119424 2001 TG_{104} 4 10.6 225°.43 4°.0/ 7.3 18

3 2	13 47.23	+ 2 6.5	2.030	2.829	14.1	19.9
3 12	13 42.51	+ 2 32.1	1.939	2.822	11.1	19.7
3 22	13 35.44	+ 3 1.0	1.869	2.815	7.9	19.5
4 1	13 26.57	+ 3 28.3	1.827	2.807	4.8	19.3
4 11	13 16.73	+ 3 48.7	1.812	2.799	4.3	19.2
4 21	13 6.89	+ 3 57.7	1.825	2.791	7.1	19.4
5 1	12 58.05	+ 3 52.0	1.866	2.782	10.5	19.5
5 11	12 50.99	+ 3 30.7	1.929	2.773	13.8	19.7

55424 2001 TQ_{34} 4 10.6 277°.09 6°.0/16.1 18 R

3 2	13 41.10	−26 12.3	1.901	2.621	17.6	19.3
3 12	13 38.38	−26 30.3	1.789	2.604	15.1	19.1
3 22	13 33.05	−26 25.6	1.696	2.587	12.2	18.8
4 1	13 25.56	−25 55.2	1.624	2.570	9.0	18.6
4 11	13 16.77	−24 59.2	1.576	2.553	6.5	18.4
4 21	13 7.79	−23 41.1	1.555	2.535	6.4	18.4
5 1	12 59.79	−22 8.6	1.561	2.518	9.1	18.5
5 11	12 53.76	−20 31.5	1.590	2.500	12.6	18.6

123033 2000 SJ_{286} 4 10.6 135°.35 1°.2/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 43.36	−13 26.3	2.065	2.833	14.9	20.5
3 12	13 39.42	−13 19.7	1.978	2.840	12.0	20.3
3 22	13 33.28	−12 59.3	1.911	2.846	8.5	20.1
4 1	13 25.46	−12 26.6	1.870	2.852	4.6	19.8
4 11	13 16.79	−11 45.1	1.856	2.857	1.2	19.6
4 21	13 8.20	−10 59.5	1.871	2.863	4.1	19.8
5 1	13 0.59	−10 15.3	1.914	2.868	7.9	20.1
5 11	12 54.69	− 9 37.9	1.982	2.873	11.4	20.3

8208 Volta 4 10.6 265°.23 7°.7/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.18	+10 17.3	1.995	2.806	13.8	18.4
3 12	13 40.33	+11 34.7	1.901	2.784	11.4	18.2
3 22	13 34.10	+12 52.9	1.829	2.761	9.0	18.0
4 1	13 25.97	+14 3.6	1.784	2.738	7.7	17.9
4 11	13 16.77	+14 58.4	1.765	2.714	8.4	17.9
4 21	13 7.46	+15 30.9	1.771	2.690	10.7	18.0
5 1	12 59.06	+15 37.4	1.802	2.665	13.6	18.1
5 11	12 52.42	+15 17.7	1.854	2.640	16.5	18.2

521064 2015 DO_{238} 4 10.6 155°.16 1°.1/ 9.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.19	− 8 5.2	2.259	3.046	13.2	21.7
3 12	13 36.68	− 7 23.5	2.171	3.049	10.4	21.5
3 22	13 31.25	− 6 30.7	2.106	3.053	7.1	21.3
4 1	13 24.41	− 5 30.4	2.068	3.056	3.4	21.0
4 11	13 16.85	− 4 27.7	2.058	3.059	1.3	20.9
4 21	13 9.36	− 3 28.1	2.077	3.061	4.6	21.1
5 1	13 2.72	− 2 36.9	2.124	3.064	8.2	21.3
5 11	12 57.55	− 1 57.9	2.196	3.066	11.3	21.5

7769 Okuni 4 10.6 210°.72 3°.8/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.64	− 0 15.5	1.967	2.770	14.3	17.8
3 12	13 40.54	+ 0 32.5	1.878	2.765	11.3	17.6
3 22	13 34.13	+ 1 27.4	1.811	2.759	7.8	17.3
4 1	13 25.93	+ 2 23.7	1.770	2.753	4.7	17.1
4 11	13 16.78	+ 3 14.9	1.757	2.746	4.2	17.1
4 21	13 7.65	+ 3 54.9	1.772	2.739	7.1	17.3
5 1	12 59.51	+ 4 19.0	1.813	2.731	10.7	17.5
5 11	12 53.14	+ 4 25.1	1.878	2.723	14.1	17.6

455283 2002 AF_{5} 4 10.6 53°.40 20°.0/23.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 47.81	+34 28.9	1.215	2.012	21.7	20.2
3 12	13 44.22	+37 20.7	1.220	2.039	20.5	20.2
3 22	13 36.95	+39 34.6	1.241	2.067	20.0	20.2
4 1	13 27.21	+40 57.5	1.280	2.096	20.3	20.4
4 11	13 16.74	+41 23.8	1.334	2.124	21.1	20.5
4 21	13 7.23	+40 55.8	1.403	2.153	22.2	20.7
5 1	12 59.97	+39 40.6	1.484	2.182	23.3	20.9
5 11	12 55.67	+37 49.0	1.576	2.211	24.3	21.0

285666 2000 SM_{92} 4 10.6 187°.33 0°.8/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.60	−15 14.1	3.063	3.809	11.0	21.5
3 12	13 34.94	−14 35.6	2.959	3.808	8.8	21.4
3 22	13 29.82	−13 44.8	2.878	3.807	6.3	21.2
4 1	13 23.63	−12 43.6	2.825	3.805	3.4	21.0
4 11	13 16.89	−11 35.2	2.802	3.803	0.9	20.8
4 21	13 10.18	−10 23.9	2.810	3.801	3.0	20.9
5 1	13 4.08	− 9 14.1	2.848	3.798	5.9	21.1
5 11	12 59.07	− 8 10.4	2.913	3.794	8.5	21.3

140313 2001 SD_{320} 4 10.6 351°.12 0°.4/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.14	− 9 29.6	2.069	2.850	14.4	19.7
3 12	13 39.29	− 9 38.3	1.976	2.849	11.5	19.5
3 22	13 33.24	− 9 37.3	1.906	2.847	8.0	19.2
4 1	13 25.48	− 9 28.1	1.861	2.846	4.1	19.0
4 11	13 16.80	− 9 13.4	1.843	2.845	0.4	18.7
4 21	13 8.13	− 8 57.1	1.854	2.844	4.2	19.0
5 1	13 0.39	− 8 43.2	1.892	2.844	8.2	19.2
5 11	12 54.31	− 8 35.6	1.955	2.844	11.7	19.4

389818 2011 WC_{47} 4 10.6 283°.64 2°.0/ 8.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.00	− 2 9.5	2.397	3.186	12.5	21.3
3 12	13 39.64	− 2 4.6	2.296	3.176	9.8	21.1
3 22	13 33.32	− 1 55.3	2.219	3.165	6.8	20.8
4 1	13 25.48	− 1 44.3	2.169	3.155	3.5	20.6
4 11	13 16.81	− 1 35.1	2.147	3.144	2.1	20.5
4 21	13 8.11	− 1 30.9	2.155	3.134	5.0	20.7
5 1	13 0.18	− 1 34.7	2.191	3.124	8.3	20.9
5 11	12 53.69	− 1 48.4	2.251	3.113	11.4	21.0

192657 1999 RD_{125} 4 10.6 292°.59 4°.9/14.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.59	−20 11.8	1.881	2.625	16.9	20.2
3 12	13 41.14	−20 57.5	1.772	2.609	14.3	19.9
3 22	13 34.99	−21 27.8	1.681	2.592	11.1	19.7
4 1	13 26.58	−21 40.0	1.614	2.575	7.7	19.4
4 11	13 16.75	−21 33.7	1.573	2.558	5.2	19.3
4 21	13 6.63	−21 11.0	1.558	2.542	5.9	19.3
5 1	12 57.44	−20 36.7	1.569	2.525	9.2	19.4
5 11	12 50.22	−19 58.2	1.605	2.509	12.9	19.6

233567 2007 PU_{15} 4 10.6 252°.68 1°.9/12.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 43.76	−14 31.0	2.268	3.024	14.0	21.0
3 12	13 39.75	−14 42.5	2.159	3.012	11.5	20.8
3 22	13 33.58	−14 41.7	2.071	3.000	8.3	20.5
4 1	13 25.69	−14 28.9	2.009	2.987	4.8	20.3
4 11	13 16.80	−14 6.1	1.975	2.974	2.0	20.1
4 21	13 7.79	−13 36.6	1.970	2.960	4.0	20.2
5 1	12 59.57	−13 4.9	1.992	2.947	7.6	20.4
5 11	12 52.91	−12 36.1	2.041	2.933	11.1	20.6

280380 2003 UZ_{79} 4 10.6 181°.72 1°.6/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.48	− 5 13.0	2.361	3.147	12.7	21.2
3 12	13 38.39	− 4 45.1	2.270	3.148	10.0	21.0
3 22	13 32.41	− 4 9.4	2.202	3.148	6.8	20.8
4 1	13 24.99	− 3 28.9	2.161	3.148	3.4	20.6
4 11	13 16.84	− 2 48.2	2.149	3.147	1.8	20.5
4 21	13 8.73	− 2 11.6	2.166	3.147	4.8	20.7
5 1	13 1.44	− 1 43.3	2.211	3.145	8.2	20.9
5 11	12 55.60	− 1 26.2	2.281	3.144	11.2	21.1

89694 2001 YS_{74} 4 10.6 234°.47 3°.3/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.24	− 0 34.5	2.218	3.014	13.1	20.3
3 12	13 40.03	+ 0 5.4	2.117	3.001	10.4	20.1
3 22	13 33.69	+ 0 51.6	2.040	2.987	7.2	19.9
4 1	13 25.71	+ 1 39.5	1.990	2.973	4.2	19.6
4 11	13 16.81	+ 2 23.6	1.968	2.958	3.6	19.6
4 21	13 7.85	+ 2 58.8	1.975	2.943	6.4	19.7
5 1	12 59.72	+ 3 20.8	2.009	2.927	9.8	19.9
5 11	12 53.14	+ 3 27.1	2.067	2.911	13.0	20.1

521025 2015 CR_{69} 4 10.6 286°.42 5°.0/ 6.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.09	+ 3 8.5	1.851	2.665	14.6	21.4
3 12	13 39.51	+ 3 52.4	1.763	2.655	11.6	21.2
3 22	13 33.53	+ 4 40.4	1.697	2.645	8.3	20.9
4 1	13 25.67	+ 5 26.2	1.657	2.635	5.5	20.7
4 11	13 16.81	+ 6 2.9	1.643	2.625	5.4	20.7
4 21	13 7.95	+ 6 25.0	1.655	2.615	8.2	20.9
5 1	13 0.10	+ 6 28.5	1.693	2.606	11.7	21.0
5 11	12 54.09	+ 6 12.1	1.753	2.596	15.0	21.2

498182 2007 TU_{235} 4 10.6 125°.84 0°.7/ 9.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.88	− 8 18.0	2.621	3.396	11.9	22.9
3 12	13 36.85	− 7 44.4	2.539	3.410	9.3	22.7
3 22	13 31.17	− 7 1.6	2.481	3.424	6.3	22.5
4 1	13 24.30	− 6 12.8	2.450	3.437	3.1	22.3
4 11	13 16.88	− 5 21.9	2.449	3.450	0.9	22.2
4 21	13 9.57	− 4 33.2	2.477	3.462	3.9	22.4
5 1	13 3.03	− 3 50.9	2.535	3.474	7.0	22.6
5 11	12 57.79	− 3 18.1	2.618	3.486	9.8	22.8

402979 2007 US_{140} 4 10.6 133°.68 3°.7/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.18	− 1 23.7	1.880	2.682	14.9	21.6
3 12	13 40.86	− 0 24.7	1.808	2.695	11.6	21.4
3 22	13 34.24	+ 0 42.0	1.759	2.708	8.0	21.3
4 1	13 25.92	+ 1 50.2	1.736	2.719	4.6	21.1
4 11	13 16.81	+ 2 52.8	1.741	2.731	4.1	21.1
4 21	13 7.91	+ 3 43.3	1.773	2.741	7.1	21.3
5 1	13 0.14	+ 4 17.1	1.833	2.751	10.6	21.5
5 11	12 54.22	+ 4 32.0	1.915	2.760	13.8	21.7

30954 1994 PM_{28} 4 10.6 304°.92 0°.0/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.18	− 9 21.8	1.355	2.165	19.2	19.5
3 12	13 41.44	− 9 23.7	1.267	2.156	15.5	19.2
3 22	13 35.51	− 9 10.7	1.198	2.147	10.9	18.9
4 1	13 26.91	− 8 44.6	1.151	2.139	5.5	18.6
4 11	13 16.77	− 8 10.5	1.128	2.130	0.2	18.2
4 21	13 6.50	− 7 35.0	1.131	2.122	6.0	18.6
5 1	12 57.61	− 7 5.5	1.157	2.115	11.5	18.9
5 11	12 51.24	− 6 48.4	1.205	2.107	16.4	19.1

169422 2001 XV_{258} 4 10.6 239°.06 5°.2/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.78	+ 7 0.7	2.553	3.357	11.4	20.2
3 12	13 36.96	+ 7 58.5	2.463	3.347	9.1	20.0
3 22	13 31.38	+ 8 57.3	2.398	3.336	6.8	19.8
4 1	13 24.48	+ 9 51.8	2.360	3.325	5.3	19.7
4 11	13 16.89	+10 36.4	2.350	3.314	5.6	19.7
4 21	13 9.31	+11 6.8	2.368	3.302	7.6	19.8
5 1	13 2.44	+11 20.1	2.412	3.291	10.0	19.9
5 11	12 56.89	+11 15.5	2.479	3.279	12.4	20.1

38 Leda 4 10.6 78°.92 4°.0/14.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.59	−20 54.0	1.933	2.674	16.7	12.8
3 12	13 39.81	−21 7.7	1.854	2.690	13.8	12.6
3 22	13 33.65	−21 2.6	1.795	2.706	10.5	12.4
4 1	13 25.68	−20 38.1	1.759	2.722	7.0	12.2
4 11	13 16.85	−19 56.6	1.749	2.738	4.2	12.1
4 21	13 8.16	−19 2.6	1.767	2.754	4.9	12.2
5 1	13 0.62	−18 3.0	1.812	2.770	8.0	12.4
5 11	12 54.97	−17 4.8	1.882	2.786	11.3	12.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
208180 2000 QW_{97}			4 10.6 187°.65	3°.0/ 7.7 18		
	h m	° ′			°	m
3 2	13 44.89	− 3 19.7	2.047	2.841	14.1	21.3
3 12	13 40.61	− 2 22.6	1.958	2.841	11.1	21.1
3 22	13 34.11	− 1 15.9	1.892	2.840	7.6	20.9
4 1	13 25.92	− 0 4.7	1.853	2.838	4.1	20.7
4 11	13 16.84	+ 1 4.2	1.842	2.835	3.3	20.6
4 21	13 7.81	+ 2 4.3	1.860	2.832	6.4	20.8
5 1	12 59.76	+ 2 50.3	1.906	2.827	10.0	21.0
5 11	12 53.42	+ 3 18.6	1.975	2.822	13.4	21.2
469169 2015 MO_{34}			4 10.6 198°.44	0°.7/ 9.7 17		
3 2	13 37.99	− 9 36.9	2.579	3.358	12.0	21.5
3 12	13 34.75	− 8 49.4	2.483	3.356	9.4	21.3
3 22	13 29.85	− 7 50.6	2.411	3.355	6.4	21.1
4 1	13 23.71	− 6 43.7	2.365	3.353	3.1	20.9
4 11	13 16.94	− 5 33.2	2.349	3.350	0.8	20.7
4 21	13 10.20	− 4 24.3	2.363	3.348	4.0	21.0
5 1	13 4.16	− 3 22.0	2.405	3.346	7.3	21.2
5 11	12 59.37	− 2 30.7	2.473	3.343	10.2	21.3
367322 2008 AT_{48}			4 10.6 351°.76	1°.5/11.6 17		
3 2	13 39.92	−12 53.3	1.330	2.138	19.6	20.5
3 12	13 38.05	−13 0.0	1.248	2.133	15.9	20.2
3 22	13 33.12	−12 48.1	1.184	2.129	11.3	19.9
4 1	13 25.68	−12 18.7	1.141	2.126	6.2	19.6
4 11	13 16.85	−11 36.2	1.123	2.124	1.6	19.3
4 21	13 8.00	−10 47.6	1.129	2.123	5.5	19.5
5 1	13 0.53	−10 1.3	1.159	2.122	10.8	19.8
5 11	12 55.50	− 9 25.3	1.210	2.122	15.5	20.1
508325 2015 LW_{41}			4 10.6 304°.16	0°.0/10.5 17		
3 2	13 39.13	−10 10.3	2.223	3.006	13.5	21.7
3 12	13 36.04	− 9 52.5	2.123	2.997	10.8	21.5
3 22	13 30.97	− 9 23.3	2.045	2.988	7.5	21.3
4 1	13 24.36	− 8 44.6	1.992	2.978	3.8	21.0
4 11	13 16.91	− 8 0.5	1.967	2.969	0.2	20.7
4 21	13 9.43	− 7 15.7	1.971	2.961	4.1	21.0
5 1	13 2.74	− 6 35.1	2.002	2.952	7.9	21.2
5 11	12 57.52	− 6 3.4	2.058	2.943	11.3	21.4
141762 2002 MR			4 10.6 293°.67	0°.9/11.2 17		
3 2	13 42.32	−12 1.5	1.548	2.343	17.9	20.3
3 12	13 39.80	−12 0.0	1.440	2.320	14.6	20.0
3 22	13 34.34	−11 42.0	1.352	2.296	10.4	19.7
4 1	13 26.38	−11 8.1	1.287	2.272	5.6	19.4
4 11	13 16.82	−10 22.2	1.247	2.249	0.9	19.0
4 21	13 6.93	− 9 30.4	1.233	2.225	5.5	19.2
5 1	12 58.08	− 8 40.7	1.244	2.202	10.8	19.5
5 11	12 51.44	− 8 1.0	1.277	2.179	15.7	19.7
488869 2005 SR_{121}			4 10.6 260°.37	1°.5/12.3 16		
3 2	13 40.77	−15 16.3	2.742	3.489	12.1	22.5
3 12	13 37.03	−15 10.3	2.621	3.469	9.8	22.3
3 22	13 31.53	−14 52.3	2.522	3.448	7.2	22.1
4 1	13 24.63	−14 23.1	2.450	3.427	4.2	21.9
4 11	13 16.92	−13 44.8	2.406	3.405	1.6	21.7
4 21	13 9.08	−13 0.7	2.392	3.383	3.4	21.8
5 1	13 1.85	−12 15.1	2.407	3.360	6.6	21.9
5 11	12 55.84	−11 32.6	2.448	3.337	9.6	22.1
399148 2014 EP_{45}			4 10.6 40°.84	1°.2/11.7 17		
3 2	13 43.35	−12 6.6	2.251	3.017	13.8	20.8
3 12	13 39.27	−12 21.0	2.159	3.020	11.1	20.6
3 22	13 33.14	−12 24.9	2.089	3.023	7.9	20.4
4 1	13 25.43	−12 19.1	2.045	3.026	4.3	20.1
4 11	13 16.89	−12 6.0	2.028	3.029	1.3	19.9
4 21	13 8.37	−11 48.7	2.041	3.032	3.8	20.1
5 1	13 0.72	−11 31.2	2.082	3.035	7.4	20.3
5 11	12 54.63	−11 17.5	2.148	3.039	10.7	20.5
115085 2003 SK_{11}			4 10.6 138°.93	0°.5/11.1 17		
3 2	13 41.28	−12 25.0	2.217	2.988	13.9	20.4
3 12	13 37.62	−12 0.7	2.128	2.994	11.1	20.2
3 22	13 31.96	−11 23.1	2.062	3.000	7.8	20.0
4 1	13 24.81	−10 34.5	2.021	3.005	4.0	19.8
4 11	13 16.92	− 9 39.1	2.009	3.011	0.5	19.5
4 21	13 9.10	− 8 41.9	2.025	3.016	3.9	19.8
5 1	13 2.17	− 7 48.6	2.070	3.021	7.6	20.0
5 11	12 56.78	− 7 4.0	2.140	3.025	11.0	20.2
389551 2010 PU_{19}			4 10.6 306°.87	2°.4/ 8.1 16		
3 2	13 38.57	− 4 10.5	2.145	2.947	13.3	20.9
3 12	13 35.84	− 3 29.2	2.027	2.915	10.5	20.6
3 22	13 31.01	− 2 37.7	1.932	2.882	7.3	20.4
4 1	13 24.49	− 1 39.8	1.862	2.850	3.8	20.1
4 11	13 16.93	− 0 41.0	1.821	2.817	2.7	19.9
4 21	13 9.16	+ 0 12.6	1.807	2.784	6.0	20.1
5 1	13 2.07	+ 0 55.2	1.820	2.752	9.8	20.2
5 11	12 56.47	+ 1 22.6	1.856	2.720	13.4	20.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
523539 2017 QJ_{22}			4 10.6 98°.89	0°.2/10.4 17		
	h m	° ′			°	m
3 2	13 41.97	−10 27.7	1.814	2.603	15.8	22.2
3 12	13 38.62	−10 2.0	1.730	2.608	12.6	22.0
3 22	13 32.90	− 9 22.0	1.668	2.613	8.7	21.8
4 1	13 25.36	− 8 30.6	1.631	2.618	4.3	21.5
4 11	13 16.90	− 7 33.2	1.621	2.623	0.3	21.2
4 21	13 8.53	− 6 36.2	1.638	2.627	4.9	21.6
5 1	13 1.25	− 5 46.0	1.682	2.632	9.1	21.8
5 11	12 55.84	− 5 8.0	1.749	2.636	12.9	22.1
458825 2011 UR_{8}			4 10.6 153°.70	1°.6/ 9.2 18		
3 2	13 48.11	− 5 51.6	1.969	2.754	15.0	22.9
3 12	13 43.17	− 5 24.9	1.887	2.763	11.8	22.7
3 22	13 35.87	− 4 48.6	1.827	2.772	8.0	22.5
4 1	13 26.79	− 4 6.4	1.793	2.780	4.0	22.3
4 11	13 16.85	− 3 23.3	1.788	2.788	1.8	22.1
4 21	13 7.04	− 2 44.8	1.812	2.794	5.4	22.4
5 1	12 58.35	− 2 15.7	1.863	2.800	9.3	22.6
5 11	12 51.51	− 1 59.5	1.939	2.805	12.8	22.8
276274 2002 SS_{41}			4 10.6 310°.77	10°.2/30.5 17		
3 2	13 56.56	−14 36.5	1.189	1.972	22.9	20.1
3 12	13 53.29	− 8 27.6	1.040	1.924	18.5	19.7
3 22	13 45.46	− 0 15.2	0.925	1.876	12.9	19.2
4 1	13 32.95	+ 9 45.9	0.853	1.827	10.3	18.8
4 11	13 16.55	+20 26.4	0.832	1.778	15.7	18.9
4 21	12 58.05	+30 8.3	0.860	1.729	23.9	19.2
5 1	12 40.08	+37 45.3	0.924	1.680	31.0	19.5
5 11	12 25.19	+43 10.0	1.008	1.632	36.1	19.8
366436 2001 WW_{90}			4 10.6 143°.48	0°.8/11.5 18		
3 2	13 45.22	−12 57.1	2.454	3.208	13.2	22.7
3 12	13 40.44	−12 43.9	2.366	3.221	10.5	22.6
3 22	13 33.76	−12 18.9	2.302	3.234	7.4	22.4
4 1	13 25.67	−11 43.7	2.264	3.246	4.0	22.2
4 11	13 16.91	−11 1.7	2.256	3.257	0.8	22.0
4 21	13 8.26	−10 16.8	2.277	3.268	3.6	22.2
5 1	13 0.48	− 9 33.9	2.328	3.277	7.0	22.4
5 11	12 54.19	− 8 57.2	2.405	3.286	10.1	22.6
162819 2001 BD_{34}			4 10.6 124°.96	9°.9/20.9 18		
3 2	13 55.60	−37 59.8	2.266	2.866	17.8	20.3
3 12	13 49.61	−39 18.2	2.184	2.888	16.1	20.2
3 22	13 40.66	−40 14.0	2.118	2.908	14.0	20.0
4 1	13 29.35	−40 41.8	2.073	2.928	12.0	19.9
4 11	13 16.75	−40 38.3	2.051	2.947	10.5	19.9
4 21	13 4.19	−40 4.4	2.054	2.965	9.9	19.9
5 1	12 52.96	−39 5.2	2.083	2.982	10.5	19.9
5 11	12 44.07	−37 49.5	2.136	2.998	12.0	20.1
216026 2005 VJ_{87}			4 10.6 256°.35	1°.6/ 8.8 18		
3 2	13 39.95	− 4 44.7	2.633	3.420	11.5	21.1
3 12	13 36.32	− 4 17.7	2.529	3.408	9.1	20.9
3 22	13 30.97	− 3 43.7	2.449	3.396	6.2	20.7
4 1	13 24.32	− 3 5.6	2.396	3.384	3.1	20.5
4 11	13 16.97	− 2 27.1	2.373	3.371	1.7	20.3
4 21	13 9.58	− 1 52.4	2.378	3.358	4.5	20.5
5 1	13 2.84	− 1 25.2	2.412	3.345	7.6	20.7
5 11	12 57.34	− 1 8.3	2.471	3.332	10.5	20.8
431055 2006 BW_{127}			4 10.6 105°.48	1°.5/12.0 17		
3 2	13 43.06	−14 41.0	2.067	2.831	15.0	21.7
3 12	13 39.16	−14 31.5	1.985	2.844	12.1	21.5
3 22	13 33.09	−14 7.2	1.924	2.856	8.6	21.3
4 1	13 25.40	−13 29.7	1.889	2.869	4.8	21.1
4 11	13 16.94	−12 42.5	1.881	2.881	1.5	20.9
4 21	13 8.60	−11 50.7	1.901	2.893	4.0	21.1
5 1	13 1.27	−11 0.1	1.949	2.905	7.7	21.3
5 11	12 55.64	−10 16.2	2.023	2.916	11.1	21.5
119640 2001 XM_{25}			4 10.6 71°.07	7°.6/ 4.0 18		
3 2	13 44.20	+ 9 25.9	1.740	2.559	15.2	19.4
3 12	13 40.25	+10 36.5	1.684	2.573	12.2	19.2
3 22	13 33.88	+11 45.0	1.650	2.587	9.4	19.1
4 1	13 25.78	+12 43.0	1.640	2.600	7.7	19.0
4 11	13 16.92	+13 22.7	1.657	2.614	8.1	19.1
4 21	13 8.36	+13 39.3	1.699	2.628	10.4	19.2
5 1	13 1.06	+13 31.0	1.764	2.642	13.1	19.4
5 11	12 55.70	+12 59.3	1.850	2.656	15.8	19.6
502603 2015 CK_{14}			4 10.6 222°.89	2°.9/13.2 17		
3 2	13 43.06	−17 32.9	2.003	2.757	15.7	21.8
3 12	13 39.48	−17 42.4	1.905	2.754	13.0	21.6
3 22	13 33.54	−17 35.6	1.828	2.751	9.6	21.3
4 1	13 25.74	−17 12.6	1.776	2.748	6.0	21.1
4 11	13 16.92	−16 35.4	1.750	2.745	3.0	20.9
4 21	13 8.06	−15 48.4	1.751	2.742	4.5	21.0
5 1	13 0.18	−14 57.5	1.780	2.738	8.1	21.2
5 11	12 54.07	−14 9.4	1.834	2.734	11.7	21.4

253728 2003 WM_{15} 4 10.6 231°.25 1°.4/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 42.69	−15 3.5	1.795	2.568	16.6	20.9
3 12	13 39.46	−14 44.3	1.697	2.561	13.5	20.7
3 22	13 33.68	−14 6.4	1.618	2.553	9.7	20.4
4 1	13 25.87	−13 11.3	1.564	2.546	5.4	20.1
4 11	13 16.92	−12 3.2	1.537	2.537	1.5	19.9
4 21	13 7.92	−10 48.7	1.537	2.529	4.7	20.0
5 1	12 59.96	− 9 35.9	1.564	2.520	9.2	20.3
5 11	12 53.95	− 8 32.5	1.615	2.511	13.3	20.5

46780 1998 HH_{52} 4 10.6 203°.11 1°.2/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 49.43	− 6 58.1	1.877	2.659	15.7	18.7
3 12	13 44.58	− 6 38.8	1.780	2.654	12.5	18.5
3 22	13 37.12	− 6 8.4	1.704	2.648	8.6	18.3
4 1	13 27.57	− 5 30.1	1.654	2.641	4.3	18.0
4 11	13 16.86	− 4 48.6	1.633	2.634	1.3	17.8
4 21	13 6.10	− 4 9.5	1.640	2.625	5.5	18.0
5 1	12 56.42	− 3 38.7	1.675	2.615	9.9	18.2
5 11	12 48.72	− 3 20.3	1.733	2.604	13.8	18.5

35627 1998 KW_{9} 4 10.6 266°.04 3°.9/15.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.65	−23 0.8	2.682	3.394	13.1	18.5
3 12	13 37.11	−23 12.2	2.561	3.375	11.1	18.3
3 22	13 31.69	−23 8.3	2.460	3.356	8.7	18.1
4 1	13 24.77	−22 48.3	2.384	3.336	6.2	17.9
4 11	13 16.98	−22 13.0	2.335	3.317	4.2	17.7
4 21	13 9.04	−21 25.0	2.315	3.297	4.4	17.7
5 1	13 1.75	−20 28.7	2.323	3.277	6.8	17.8
5 11	12 55.78	−19 29.8	2.357	3.256	9.5	18.0

248899 2006 UZ_{284} 4 10.6 289°.96 5°.3/17.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.43	−29 20.2	2.429	3.115	15.0	19.9
3 12	13 35.53	−29 12.3	2.323	3.111	12.9	19.8
3 22	13 30.64	−28 42.6	2.236	3.107	10.5	19.6
4 1	13 24.22	−27 49.8	2.171	3.104	7.9	19.4
4 11	13 17.00	−26 35.4	2.133	3.100	5.8	19.3
4 21	13 9.81	−25 3.5	2.122	3.097	5.5	19.2
5 1	13 3.46	−23 20.6	2.139	3.093	7.2	19.3
5 11	12 58.64	−21 35.0	2.184	3.090	9.9	19.5

224364 2005 UX_{135} 4 10.6 95°.54 0°.5/11.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.23	−11 32.8	1.810	2.594	16.1	21.3
3 12	13 39.65	−11 22.0	1.727	2.599	12.9	21.1
3 22	13 33.65	−10 57.0	1.664	2.605	9.0	20.9
4 1	13 25.77	−10 19.9	1.626	2.611	4.7	20.6
4 11	13 16.94	− 9 35.1	1.614	2.616	0.5	20.3
4 21	13 8.20	− 8 48.3	1.631	2.622	4.6	20.7
5 1	13 0.56	− 8 5.6	1.674	2.627	8.9	20.9
5 11	12 54.84	− 7 32.5	1.741	2.632	12.7	21.2

29806 Eviesobczak 4 10.6 112°.02 1°.8/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 47.54	− 6 19.1	1.628	2.426	17.0	19.1
3 12	13 43.12	− 5 47.8	1.559	2.442	13.4	18.9
3 22	13 36.01	− 5 4.8	1.510	2.458	9.1	18.7
4 1	13 26.92	− 4 14.7	1.486	2.474	4.5	18.4
4 11	13 16.90	− 3 23.9	1.489	2.488	2.0	18.3
4 21	13 7.14	− 2 39.1	1.519	2.503	6.0	18.6
5 1	12 58.75	− 2 6.1	1.576	2.517	10.4	18.9
5 11	12 52.53	− 1 48.6	1.656	2.530	14.2	19.1

347213 2011 HD_{50} 4 10.6 236°.15 0°.3/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.54	−12 30.9	2.444	3.210	12.9	21.7
3 12	13 37.00	−11 57.7	2.335	3.198	10.3	21.5
3 22	13 31.57	−11 11.0	2.247	3.185	7.3	21.3
4 1	13 24.68	−10 12.9	2.187	3.171	3.8	21.1
4 11	13 16.99	− 9 7.3	2.155	3.157	0.3	20.7
4 21	13 9.23	− 7 59.5	2.153	3.142	3.8	21.0
5 1	13 2.19	− 6 54.9	2.179	3.127	7.5	21.2
5 11	12 56.52	− 5 59.0	2.232	3.112	10.8	21.4

375652 2009 BZ_{31} 4 10.6 100°.06 3°.1/ 7.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.75	− 1 13.5	2.203	3.006	13.0	21.2
3 12	13 37.13	− 0 28.7	2.125	3.013	10.1	21.0
3 22	13 31.59	+ 0 22.2	2.070	3.019	6.9	20.8
4 1	13 24.64	+ 1 14.3	2.041	3.025	4.0	20.6
4 11	13 17.00	+ 2 2.3	2.040	3.032	3.4	20.6
4 21	13 9.46	+ 2 41.1	2.068	3.038	6.0	20.8
5 1	13 2.82	+ 3 6.9	2.123	3.044	9.2	21.0
5 11	12 57.66	+ 3 17.4	2.201	3.050	12.1	21.2

78581 2002 SZ_{5} 4 10.6 241°.36 0°.4/10.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.34	− 8 54.9	2.203	2.986	13.6	20.0
3 12	13 37.76	− 8 36.9	2.107	2.981	10.8	19.8
3 22	13 32.15	− 8 8.2	2.034	2.977	7.5	19.5
4 1	13 24.98	− 7 31.4	1.986	2.973	3.7	19.3
4 11	13 16.98	− 6 50.4	1.967	2.969	0.5	19.0
4 21	13 8.98	− 6 9.9	1.976	2.964	4.3	19.3
5 1	13 1.81	− 5 34.7	2.013	2.960	8.1	19.5
5 11	12 56.17	− 5 9.0	2.074	2.955	11.5	19.7

507598 2013 BU_{78} 4 10.6 168°.82 4°.7/17.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 43.06	−29 2.1	3.458	4.109	11.4	22.5
3 12	13 38.46	−29 25.5	3.352	4.114	9.8	22.3
3 22	13 32.30	−29 35.0	3.267	4.118	8.1	22.2
4 1	13 24.95	−29 29.4	3.206	4.122	6.3	22.1
4 11	13 16.99	−29 9.0	3.173	4.125	5.0	22.0
4 21	13 9.01	−28 35.4	3.169	4.128	4.8	22.0
5 1	13 1.64	−27 51.7	3.194	4.130	5.9	22.1
5 11	12 55.41	−27 2.3	3.246	4.131	7.6	22.2

148936 2001 XL_{113} 4 10.6 271°.89 3°.7/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.30	− 1 19.1	1.922	2.729	14.4	19.8
3 12	13 38.97	− 0 27.8	1.818	2.708	11.4	19.6
3 22	13 33.28	+ 0 32.7	1.737	2.687	8.0	19.3
4 1	13 25.68	+ 1 37.0	1.681	2.665	4.7	19.1
4 11	13 16.96	+ 2 38.2	1.652	2.643	4.1	19.0
4 21	13 8.08	+ 3 29.4	1.651	2.620	7.3	19.1
5 1	13 0.09	+ 4 4.6	1.676	2.598	11.2	19.3
5 11	12 53.82	+ 4 20.5	1.723	2.575	14.8	19.5

138758 2000 SS_{280} 4 10.6 148°.97 2°.6/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.68	−19 50.5	2.661	3.392	12.8	20.3
3 12	13 36.13	−19 42.9	2.564	3.396	10.6	20.2
3 22	13 30.84	−19 20.6	2.488	3.400	7.9	20.0
4 1	13 24.26	−18 44.2	2.438	3.404	5.1	19.8
4 11	13 17.02	−17 55.9	2.415	3.407	2.8	19.7
4 21	13 9.82	−16 59.5	2.422	3.411	3.6	19.7
5 1	13 3.35	−15 59.9	2.458	3.414	6.3	19.9
5 11	12 58.20	−15 2.2	2.520	3.417	9.1	20.1

281496 2008 ST_{285} 4 10.6 41°.54 1°.2/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.35	−14 4.8	1.837	2.616	16.0	20.9
3 12	13 37.37	−13 50.6	1.753	2.622	12.9	20.7
3 22	13 32.07	−13 20.1	1.690	2.628	9.2	20.5
4 1	13 24.98	−12 35.1	1.651	2.634	5.0	20.2
4 11	13 16.99	−11 39.9	1.639	2.640	1.3	20.0
4 21	13 9.09	−10 40.6	1.654	2.647	4.3	20.2
5 1	13 2.25	− 9 44.0	1.696	2.653	8.5	20.5
5 11	12 57.23	− 8 56.2	1.762	2.660	12.2	20.7

374142 2004 TB_{187} 4 10.6 257°.89 0°.8/11.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.90	−11 15.1	1.963	2.741	15.2	21.1
3 12	13 40.14	−11 17.5	1.865	2.734	12.2	20.9
3 22	13 34.02	−11 7.8	1.789	2.728	8.7	20.6
4 1	13 26.01	−10 47.2	1.737	2.721	4.6	20.4
4 11	13 16.95	−10 18.9	1.712	2.714	0.8	20.1
4 21	13 7.83	− 9 47.3	1.715	2.707	4.4	20.3
5 1	12 59.66	− 9 17.7	1.746	2.700	8.6	20.6
5 11	12 53.28	− 8 54.9	1.801	2.692	12.4	20.8

235010 2003 DV_{13} 4 10.6 95°.41 0°.7/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 47.94	−10 42.6	1.440	2.235	19.0	20.2
3 12	13 44.03	−10 51.1	1.364	2.243	15.3	20.0
3 22	13 37.02	−10 44.7	1.307	2.251	10.7	19.7
4 1	13 27.59	−10 25.2	1.273	2.259	5.6	19.4
4 11	13 16.89	− 9 56.5	1.265	2.266	0.8	19.1
4 21	13 6.34	− 9 24.8	1.282	2.274	5.4	19.5
5 1	12 57.27	− 8 56.6	1.326	2.282	10.5	19.8
5 11	12 50.69	− 8 38.0	1.391	2.289	14.9	20.0

250515 2004 NM_{5} 4 10.6 309°.00 7°.6/18.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.63	−32 16.5	2.399	3.060	15.7	20.2
3 12	13 38.36	−33 5.9	2.292	3.052	13.9	20.0
3 22	13 32.81	−33 36.3	2.203	3.044	11.8	19.9
4 1	13 25.43	−33 44.1	2.136	3.037	9.7	19.7
4 11	13 16.98	−33 28.0	2.092	3.030	8.1	19.6
4 21	13 8.39	−32 49.3	2.075	3.022	7.7	19.5
5 1	13 0.65	−31 52.2	2.083	3.015	8.7	19.6
5 11	12 54.57	−30 43.7	2.116	3.008	10.7	19.7

400299 2007 TN_{126} 4 10.6 207°.90 0°.2/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.10	−10 48.7	2.104	2.876	14.5	22.6
3 12	13 40.89	−10 17.1	2.002	2.869	11.6	22.4
3 22	13 34.42	− 9 31.6	1.922	2.862	8.1	22.2
4 1	13 26.18	− 8 34.7	1.868	2.854	4.1	21.9
4 11	13 16.96	− 7 31.0	1.842	2.845	0.3	21.6
4 21	13 7.69	− 6 26.5	1.846	2.834	4.6	21.9
5 1	12 59.34	− 5 27.6	1.878	2.824	8.7	22.1
5 11	12 52.68	− 4 39.8	1.936	2.812	12.4	22.3

60693 2000 GX_{40} 4 10.6 156°.10 0°.1/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.50	−10 34.0	2.369	3.141	13.1	19.8
3 12	13 37.68	−10 16.0	2.277	3.145	10.4	19.6
3 22	13 31.98	− 9 47.1	2.209	3.148	7.2	19.4
4 1	13 24.85	− 9 9.4	2.166	3.151	3.6	19.2
4 11	13 17.01	− 8 26.7	2.152	3.154	0.1	18.9
4 21	13 9.22	− 7 43.3	2.167	3.157	3.9	19.2
5 1	13 2.24	− 7 3.8	2.211	3.159	7.4	19.5
5 11	12 56.69	− 6 32.3	2.280	3.161	10.5	19.7

125830 2001 XG_{175} 4 10.6 124°.40 1°.9/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 41.88	− 6 5.7	1.897	2.696	14.9	20.0
3 12	13 38.42	− 5 25.7	1.815	2.700	11.7	19.8
3 22	13 32.70	− 4 34.8	1.755	2.704	8.0	19.5
4 1	13 25.28	− 3 37.1	1.720	2.708	4.0	19.3
4 11	13 17.00	− 2 38.8	1.713	2.712	2.1	19.2
4 21	13 8.81	− 1 46.2	1.734	2.716	5.6	19.4
5 1	13 1.65	− 1 4.8	1.781	2.719	9.6	19.7
5 11	12 56.25	− 0 38.6	1.851	2.723	13.1	19.9

506728 2006 UR_{272} 4 10.6 136°.35 2°.5/ 8.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.07	− 0 19.3	2.545	3.334	11.8	21.8
3 12	13 39.45	− 0 4.3	2.460	3.339	9.3	21.6
3 22	13 33.06	+ 0 14.1	2.398	3.344	6.4	21.4
4 1	13 25.35	+ 0 32.7	2.364	3.348	3.5	21.2
4 11	13 17.00	+ 0 47.8	2.360	3.353	2.7	21.2
4 21	13 8.74	+ 0 56.3	2.384	3.357	5.1	21.3
5 1	13 1.27	+ 0 55.5	2.437	3.361	8.1	21.5
5 11	12 55.17	+ 0 44.1	2.516	3.365	10.8	21.7

66712 1999 TS_{99} 4 10.6 186°.83 3°.5/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.25	− 0 14.3	2.207	3.008	13.0	19.4
3 12	13 38.37	+ 0 33.0	2.121	3.008	10.2	19.2
3 22	13 32.50	+ 1 26.0	2.059	3.007	7.1	19.0
4 1	13 25.13	+ 2 19.9	2.024	3.006	4.2	18.8
4 11	13 17.01	+ 3 9.0	2.016	3.005	3.8	18.8
4 21	13 8.95	+ 3 48.0	2.038	3.004	6.4	18.9
5 1	13 1.75	+ 4 13.1	2.086	3.002	9.6	19.1
5 11	12 56.09	+ 4 22.1	2.157	3.000	12.6	19.3

402905 2007 TU_{43} 4 10.6 168°.95 2°.9/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 47.03	−17 14.0	1.903	2.654	16.5	21.5
3 12	13 42.70	−17 25.2	1.811	2.658	13.6	21.3
3 22	13 35.82	−17 19.7	1.739	2.661	10.0	21.1
4 1	13 26.92	−16 57.3	1.691	2.664	6.1	20.8
4 11	13 16.94	−16 20.4	1.670	2.666	3.0	20.6
4 21	13 6.97	−15 33.3	1.677	2.667	4.6	20.8
5 1	12 58.12	−14 42.7	1.712	2.668	8.5	21.0
5 11	12 51.23	−13 55.3	1.771	2.668	12.2	21.2

430815 2005 EQ_{224} 4 10.6 21°.40 6°.4/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	14 9.15	− 8 40.5	0.925	1.725	26.8	20.3
3 12	14 3.62	−11 26.0	0.850	1.727	22.3	20.0
3 22	13 52.53	−14 16.2	0.791	1.729	16.6	19.7
4 1	13 36.25	−17 1.6	0.754	1.732	10.4	19.3
4 11	13 16.57	−19 29.2	0.741	1.735	6.4	19.1
4 21	12 56.38	−21 27.7	0.753	1.739	9.8	19.3
5 1	12 38.84	−22 55.2	0.789	1.743	15.8	19.7
5 11	12 26.15	−23 59.7	0.844	1.748	21.4	20.0

352523 2008 CO_{130} 4 10.6 167°.35 2°.6/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.70	− 1 49.4	2.785	3.579	10.8	21.1
3 12	13 35.13	− 0 55.3	2.698	3.582	8.4	20.9
3 22	13 30.04	+ 0 4.7	2.637	3.584	5.7	20.7
4 1	13 23.84	+ 1 6.5	2.603	3.587	3.3	20.6
4 11	13 17.08	+ 2 5.3	2.599	3.589	2.9	20.5
4 21	13 10.39	+ 2 56.8	2.624	3.591	5.1	20.7
5 1	13 4.35	+ 3 37.3	2.677	3.592	7.8	20.9
5 11	12 59.47	+ 4 4.5	2.755	3.593	10.3	21.0

410361 2007 VT_{54} 4 10.6 162°.68 1°.7/ 9.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.65	− 6 23.9	2.049	2.834	14.4	22.8
3 12	13 41.20	− 5 44.4	1.963	2.841	11.3	22.6
3 22	13 34.52	− 4 54.3	1.901	2.847	7.7	22.4
4 1	13 26.18	− 3 57.6	1.865	2.852	3.8	22.2
4 11	13 17.00	− 2 59.9	1.857	2.857	1.9	22.1
4 21	13 7.93	− 2 7.0	1.879	2.860	5.3	22.3
5 1	12 59.87	− 1 24.3	1.928	2.863	9.1	22.5
5 11	12 53.54	− 0 55.6	2.002	2.865	12.5	22.7

162646 2000 SJ_{208} 4 10.6 198°.60 3°.5/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.95	− 2 38.9	1.858	2.662	15.0	20.7
3 12	13 40.17	− 1 36.6	1.771	2.659	11.8	20.5
3 22	13 34.01	− 0 24.1	1.706	2.656	8.1	20.2
4 1	13 25.99	+ 0 52.9	1.667	2.652	4.6	20.0
4 11	13 17.01	+ 2 6.5	1.656	2.648	3.9	20.0
4 21	13 8.06	+ 3 9.4	1.673	2.643	7.2	20.2
5 1	13 0.15	+ 3 55.7	1.716	2.637	11.0	20.4
5 11	12 54.09	+ 4 21.9	1.782	2.631	14.5	20.6

328251 2008 FO_{107} 4 10.6 222°.78 1°.8/ 8.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.15	− 5 16.5	2.010	2.803	14.4	21.8
3 12	13 40.21	− 4 47.3	1.915	2.796	11.4	21.5
3 22	13 33.99	− 4 8.5	1.841	2.789	7.8	21.3
4 1	13 25.98	− 3 23.7	1.794	2.781	3.9	21.1
4 11	13 17.01	− 2 38.2	1.774	2.773	2.1	20.9
4 21	13 8.01	− 1 57.4	1.783	2.765	5.5	21.1
5 1	12 59.94	− 1 26.5	1.819	2.756	9.5	21.3
5 11	12 53.60	− 1 9.1	1.879	2.746	13.1	21.5

237174 2008 UB_{155} 4 10.6 71°.89 0°.1/10.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 40.40	−10 45.1	1.976	2.762	14.8	21.0
3 12	13 37.21	−10 16.3	1.891	2.767	11.8	20.8
3 22	13 31.86	− 9 33.7	1.827	2.771	8.2	20.6
4 1	13 24.87	− 8 40.4	1.789	2.776	4.1	20.4
4 11	13 17.06	− 7 41.4	1.778	2.780	0.3	20.0
4 21	13 9.32	− 6 42.6	1.795	2.785	4.5	20.4
5 1	13 2.56	− 5 50.1	1.839	2.789	8.5	20.6
5 11	12 57.47	− 5 8.9	1.908	2.794	12.1	20.9

410252 2007 TB_{106} 4 10.6 274°.55 0°.0/10.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.81	−11 9.9	1.589	2.384	17.5	21.6
3 12	13 40.04	−10 50.2	1.485	2.366	14.1	21.3
3 22	13 34.42	−10 13.0	1.402	2.347	10.0	21.0
4 1	13 26.43	− 9 20.3	1.342	2.328	5.1	20.7
4 11	13 16.99	− 8 17.3	1.307	2.309	0.2	20.3
4 21	13 7.32	− 7 11.4	1.299	2.290	5.6	20.6
5 1	12 58.73	− 6 11.0	1.317	2.271	10.8	20.9
5 11	12 52.29	− 5 24.0	1.357	2.251	15.4	21.1

203407 2001 XX_{178} 4 10.6 99°.59 3°.5/13.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.56	−18 54.4	1.572	2.335	19.0	20.5
3 12	13 41.96	−18 59.4	1.495	2.348	15.6	20.3
3 22	13 35.48	−18 42.8	1.437	2.361	11.6	20.1
4 1	13 26.79	−18 4.4	1.401	2.374	7.2	19.8
4 11	13 16.99	−17 7.7	1.391	2.386	3.7	19.7
4 21	13 7.36	−15 59.4	1.407	2.398	5.2	19.8
5 1	12 59.14	−14 48.1	1.450	2.410	9.3	20.0
5 11	12 53.22	−13 42.7	1.516	2.422	13.4	20.3

303890 2005 TL_{90} 4 10.6 261°.55 2°.9/ 7.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 37.75	− 2 14.2	2.438	3.239	11.9	21.4
3 12	13 34.71	− 1 13.6	2.345	3.233	9.3	21.2
3 22	13 29.94	− 0 5.2	2.276	3.226	6.4	21.0
4 1	13 23.86	+ 1 6.1	2.234	3.219	3.7	20.8
4 11	13 17.10	+ 2 14.7	2.222	3.212	3.3	20.8
4 21	13 10.36	+ 3 15.2	2.238	3.205	5.8	20.9
5 1	13 4.32	+ 4 2.9	2.281	3.198	8.8	21.1
5 11	12 59.58	+ 4 34.8	2.348	3.191	11.7	21.3

118205 1995 MK_{7} 4 10.6 127°.57 6°.3/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.71	+ 8 22.6	2.126	2.932	13.3	19.9
3 12	13 40.23	+ 9 32.3	2.063	2.945	10.6	19.8
3 22	13 33.70	+10 41.3	2.023	2.958	8.1	19.7
4 1	13 25.70	+11 42.6	2.010	2.971	6.5	19.6
4 11	13 17.04	+12 29.5	2.025	2.983	6.9	19.6
4 21	13 8.59	+12 57.5	2.066	2.994	8.9	19.8
5 1	13 1.17	+13 4.3	2.133	3.005	11.4	19.9
5 11	12 55.40	+12 50.4	2.222	3.016	13.9	20.1

404333 2013 FD_{20} 4 10.6 250°.82 2°.5/ 8.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.19	− 6 27.3	1.665	2.471	16.3	21.7
3 12	13 39.23	− 5 28.3	1.569	2.458	12.9	21.4
3 22	13 33.65	− 4 13.4	1.494	2.445	8.9	21.1
4 1	13 25.94	− 2 48.0	1.443	2.432	4.5	20.8
4 11	13 17.02	− 1 20.1	1.420	2.418	2.9	20.7
4 21	13 8.02	+ 0 1.3	1.424	2.404	6.9	20.9
5 1	13 0.08	+ 1 7.6	1.453	2.389	11.5	21.1
5 11	12 54.14	+ 1 53.2	1.505	2.374	15.6	21.3

14272 2000 AZ_{234} 4 10.6 251°.15 2°.0/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.26	− 3 39.4	2.638	3.432	11.3	18.8
3 12	13 34.95	− 3 0.8	2.546	3.428	8.9	18.6
3 22	13 30.01	− 2 15.5	2.477	3.425	6.0	18.4
4 1	13 23.87	− 1 27.0	2.435	3.422	3.2	18.2
4 11	13 17.11	− 0 39.5	2.423	3.419	2.2	18.1
4 21	13 10.38	+ 0 2.5	2.439	3.415	4.8	18.3
5 1	13 4.32	+ 0 35.4	2.484	3.412	7.7	18.5
5 11	12 59.46	+ 0 56.6	2.553	3.409	10.4	18.7

251637 2010 KN_{68} 4 10.6 265°.03 1°.3/12.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.58	−14 15.5	2.626	3.381	12.4	21.0
3 12	13 36.97	−14 11.8	2.511	3.364	10.0	20.8
3 22	13 31.56	−13 56.5	2.418	3.347	7.2	20.6
4 1	13 24.72	−13 30.4	2.352	3.330	4.1	20.3
4 11	13 17.08	−12 55.9	2.313	3.313	1.4	20.1
4 21	13 9.33	−12 16.4	2.305	3.296	3.4	20.2
5 1	13 2.22	−11 36.2	2.325	3.278	6.7	20.4
5 11	12 56.39	−10 59.7	2.371	3.261	9.9	20.6

262436 2006 UG_{88} 4 10.6 12°.98 6°.4/18.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 36.35	−32 28.6	1.993	2.679	17.8	19.8
3 12	13 34.38	−32 7.3	1.898	2.683	15.5	19.6
3 22	13 30.08	−31 16.7	1.820	2.686	12.8	19.4
4 1	13 24.02	−29 55.2	1.763	2.691	9.8	19.2
4 11	13 17.10	−28 5.0	1.732	2.696	7.2	19.1
4 21	13 10.32	−25 52.3	1.727	2.702	6.5	19.0
5 1	13 4.63	−23 27.2	1.750	2.708	8.2	19.2
5 11	13 0.74	−21 1.3	1.799	2.715	11.1	19.3

177529 2004 FK_{20} 4 10.6 239°.46 1°.9/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 46.18	−14 57.7	2.196	2.948	14.6	20.4
3 12	13 41.86	−15 4.1	2.081	2.932	12.0	20.2
3 22	13 35.21	−14 57.0	1.988	2.915	8.7	19.9
4 1	13 26.67	−14 36.6	1.921	2.898	5.1	19.7
4 11	13 17.01	−14 4.9	1.881	2.880	2.0	19.4
4 21	13 7.15	−13 25.7	1.870	2.861	4.2	19.5
5 1	12 58.10	−12 44.1	1.888	2.841	8.1	19.7
5 11	12 50.70	−12 5.8	1.931	2.821	11.7	19.9

299731 2006 RC_{52} 4 10.6 25°.86 0°.0/10.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.69	− 8 0.6	1.902	2.692	15.2	20.1
3 12	13 39.87	− 8 12.8	1.822	2.700	12.1	19.9
3 22	13 33.73	− 8 15.9	1.763	2.708	8.3	19.7
4 1	13 25.84	− 8 11.8	1.730	2.716	4.2	19.4
4 11	13 17.06	− 8 3.5	1.723	2.725	0.2	19.1
4 21	13 8.38	− 7 54.8	1.745	2.735	4.5	19.5
5 1	13 0.77	− 7 49.6	1.793	2.745	8.5	19.7
5 11	12 54.96	− 7 51.4	1.865	2.755	12.1	20.0

16911 1998 EL_{6} 4 10.6 203°.27 1°.9/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.63	− 5 4.4	2.669	3.458	11.3	19.2
3 12	13 35.22	− 4 8.8	2.574	3.454	8.9	19.0
3 22	13 30.20	− 3 4.8	2.503	3.451	6.0	18.9
4 1	13 23.98	− 1 55.9	2.460	3.447	3.1	18.7
4 11	13 17.14	− 0 47.4	2.447	3.443	2.2	18.6
4 21	13 10.32	+ 0 16.0	2.463	3.438	4.8	18.7
5 1	13 4.17	+ 1 9.6	2.507	3.433	7.8	18.9
5 11	12 59.22	+ 1 50.3	2.577	3.428	10.5	19.1

331186 2011 AC_{53} 4 10.6 249°.82 3°.6/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.02	− 0 55.6	1.974	2.779	14.2	20.7
3 12	13 39.38	− 0 10.3	1.879	2.768	11.2	20.5
3 22	13 33.47	+ 0 42.6	1.807	2.756	7.8	20.2
4 1	13 25.76	+ 1 37.8	1.760	2.744	4.5	20.0
4 11	13 17.07	+ 2 28.9	1.741	2.732	3.9	19.9
4 21	13 8.34	+ 3 10.0	1.750	2.720	6.9	20.1
5 1	13 0.52	+ 3 36.0	1.785	2.707	10.6	20.3
5 11	12 54.42	+ 3 44.2	1.843	2.694	14.0	20.5

520863 2014 WB_{70} 4 10.6 171°.51 14°.6/27.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 58.10	−51 47.2	2.358	2.838	19.3	21.9
3 12	13 53.13	−53 47.2	2.268	2.841	18.4	21.8
3 22	13 44.21	−55 24.0	2.191	2.843	17.4	21.7
4 1	13 31.72	−56 29.3	2.129	2.845	16.3	21.6
4 11	13 16.83	−56 56.3	2.083	2.847	15.3	21.5
4 21	13 1.37	−56 42.0	2.057	2.848	14.7	21.5
5 1	12 47.40	−55 48.7	2.050	2.848	14.6	21.5
5 11	12 36.57	−54 24.6	2.063	2.848	15.1	21.5

83328 2001 RR_{128} 4 10.6 90°.33 0°.8/11.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.71	−11 11.7	2.340	3.104	13.4	19.8
3 12	13 40.15	−11 17.4	2.259	3.121	10.7	19.6
3 22	13 33.64	−11 13.0	2.202	3.137	7.5	19.4
4 1	13 25.70	−11 0.0	2.170	3.153	4.0	19.2
4 11	13 17.09	−10 41.0	2.168	3.169	0.8	19.0
4 21	13 8.59	−10 19.5	2.194	3.185	3.7	19.3
5 1	13 1.01	− 9 59.3	2.249	3.201	7.1	19.5
5 11	12 54.96	− 9 44.0	2.330	3.216	10.2	19.7

314685 2006 QZ_{182} 4 10.6 96°.33 2°.7/12.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.20	−15 54.4	1.693	2.461	17.7	20.9
3 12	13 42.29	−16 11.7	1.612	2.470	14.4	20.7
3 22	13 35.66	−16 12.3	1.550	2.479	10.6	20.5
4 1	13 26.90	−15 56.0	1.512	2.488	6.3	20.3
4 11	13 17.05	−15 25.6	1.499	2.497	2.9	20.1
4 21	13 7.29	−14 45.8	1.514	2.505	4.8	20.2
5 1	12 58.79	−14 3.3	1.555	2.514	9.0	20.5
5 11	12 52.44	−13 25.1	1.620	2.522	12.9	20.7

276633 2003 UD_{163} 4 10.6 258°.35 1°.4/ 9.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.42	− 8 22.3	1.745	2.542	16.1	21.1
3 12	13 39.37	− 7 39.2	1.643	2.527	12.8	20.8
3 22	13 33.74	− 6 40.5	1.562	2.511	8.8	20.6
4 1	13 26.02	− 5 29.7	1.506	2.494	4.4	20.3
4 11	13 17.08	− 4 13.6	1.477	2.477	1.7	20.0
4 21	13 8.00	− 2 59.9	1.475	2.460	6.0	20.3
5 1	12 59.92	− 1 56.8	1.499	2.443	10.6	20.5
5 11	12 53.77	− 1 10.3	1.547	2.425	14.8	20.7

503017 2015 FB_{113} 4 10.6 226°.53 7°.4/16.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 48.93	−28 47.9	2.321	2.993	15.9	21.2
3 12	13 44.24	−29 59.1	2.215	2.988	13.9	21.0
3 22	13 37.00	−30 54.0	2.128	2.983	11.7	20.8
4 1	13 27.66	−31 28.8	2.063	2.977	9.4	20.7
4 11	13 17.02	−31 40.9	2.025	2.971	7.7	20.5
4 21	13 6.14	−31 30.8	2.013	2.965	7.5	20.5
5 1	12 56.12	−31 1.9	2.028	2.959	9.0	20.6
5 11	12 47.93	−30 20.8	2.068	2.953	11.3	20.7

507246 2011 BF_{88} 4 10.7 88°.00 1°.4/ 8.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 37.66	− 4 18.3	3.220	4.003	9.7	22.2
3 12	13 34.06	− 3 48.7	3.142	4.019	7.5	22.0
3 22	13 29.18	− 3 13.9	3.090	4.036	5.1	21.9
4 1	13 23.39	− 2 36.8	3.065	4.052	2.6	21.7
4 11	13 17.19	− 2 0.5	3.070	4.068	1.6	21.7
4 21	13 11.09	− 1 28.1	3.105	4.084	3.7	21.9
5 1	13 5.57	− 1 2.2	3.169	4.100	6.2	22.0
5 11	13 1.04	− 0 45.0	3.259	4.115	8.4	22.2

142005 2002 PS_{161} 4 10.7 145°.07 0°.7/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.74	−12 29.2	2.038	2.805	15.1	21.1
3 12	13 41.34	−12 15.3	1.953	2.815	12.1	20.9
3 22	13 34.68	−11 47.7	1.889	2.825	8.5	20.7
4 1	13 26.31	−11 8.3	1.850	2.833	4.5	20.5
4 11	13 17.08	−10 21.0	1.840	2.841	0.7	20.2
4 21	13 7.96	− 9 31.1	1.858	2.849	4.2	20.5
5 1	12 59.88	− 8 44.3	1.905	2.856	8.2	20.7
5 11	12 53.57	− 8 5.7	1.976	2.862	11.7	21.0

505038 2011 RO_{2} 4 10.7 180°.55 3°.7/ 5.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.01	+ 0 21.6	2.707	3.508	10.9	21.8
3 12	13 34.69	+ 1 50.3	2.622	3.508	8.5	21.6
3 22	13 29.81	+ 3 25.2	2.562	3.509	5.9	21.4
4 1	13 23.78	+ 5 0.8	2.531	3.509	4.0	21.3
4 11	13 17.18	+ 6 30.9	2.530	3.509	4.2	21.3
4 21	13 10.63	+ 7 49.8	2.559	3.508	6.3	21.5
5 1	13 4.74	+ 8 53.3	2.616	3.507	8.9	21.6
5 11	13 0.02	+ 9 39.0	2.696	3.506	11.3	21.8

498260 2007 UU_{122} 4 10.7 121°.68 0°.5/10.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.66	− 8 31.8	2.697	3.469	11.7	22.6
3 12	13 37.46	− 8 5.4	2.616	3.485	9.2	22.4
3 22	13 31.64	− 7 30.5	2.559	3.500	6.3	22.2
4 1	13 24.67	− 6 49.5	2.529	3.515	3.1	22.1
4 11	13 17.15	− 6 6.2	2.529	3.530	0.6	21.9
4 21	13 9.76	− 5 24.4	2.558	3.544	3.7	22.1
5 1	13 3.11	− 4 48.0	2.617	3.558	6.7	22.4
5 11	12 57.73	− 4 20.1	2.701	3.571	9.5	22.5

400567 2008 XR_{14} 4 10.7 277°.08 2°.2/12.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.22	−15 3.5	1.464	2.252	19.1	21.5
3 12	13 40.68	−15 5.2	1.366	2.238	15.6	21.2
3 22	13 35.07	−14 46.9	1.286	2.224	11.4	20.9
4 1	13 26.85	−14 8.5	1.228	2.209	6.6	20.6
4 11	13 17.06	−13 13.5	1.195	2.195	2.3	20.2
4 21	13 7.04	−12 8.4	1.187	2.180	5.5	20.4
5 1	12 58.24	−11 2.6	1.204	2.166	10.7	20.7
5 11	12 51.81	−10 5.4	1.243	2.151	15.6	20.9

167598 2004 BD_{117} 4 10.7 54°.68 2°.3/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.26	−14 52.3	2.096	2.855	15.0	19.9
3 12	13 40.24	−15 14.4	2.006	2.860	12.2	19.7
3 22	13 33.98	−15 23.9	1.938	2.865	8.9	19.5
4 1	13 26.00	−15 20.7	1.894	2.870	5.3	19.3
4 11	13 17.11	−15 6.8	1.878	2.876	2.4	19.1
4 21	13 8.23	−14 45.6	1.890	2.881	4.1	19.3
5 1	13 0.32	−14 21.4	1.930	2.887	7.7	19.5
5 11	12 54.11	−13 59.3	1.995	2.892	11.1	19.7

473018 2015 HZ_{55} 4 10.7 222°.15 3°.4/14.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.50	−21 37.6	2.552	3.274	13.5	21.5
3 12	13 37.00	−21 40.2	2.446	3.269	11.3	21.3
3 22	13 31.61	−21 27.1	2.360	3.265	8.7	21.1
4 1	13 24.77	−20 57.9	2.300	3.259	5.9	20.9
4 11	13 17.15	−20 14.4	2.267	3.254	3.7	20.8
4 21	13 9.50	−19 19.9	2.262	3.248	4.1	20.8
5 1	13 2.58	−18 19.5	2.286	3.243	6.7	21.0
5 11	12 57.05	−17 18.9	2.337	3.237	9.6	21.1

203054 2000 GA_{16} 4 10.7 311°.78 0°.5/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.29	− 9 43.8	1.243	2.062	20.1	19.7
3 12	13 40.52	− 9 56.9	1.147	2.040	16.4	19.4
3 22	13 35.35	− 9 54.8	1.068	2.019	11.7	19.1
4 1	13 27.17	− 9 38.5	1.010	1.998	6.1	18.7
4 11	13 17.05	− 9 12.1	0.975	1.977	0.5	18.2
4 21	13 6.51	− 8 41.7	0.964	1.957	6.4	18.6
5 1	12 57.25	− 8 15.5	0.976	1.938	12.5	18.8
5 11	12 50.69	− 8 1.2	1.008	1.920	17.9	19.1

244059 2001 TN_{88} 4 10.7 178°.95 0°.8/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.36	−14 20.0	2.544	3.303	12.6	20.9
3 12	13 35.94	−13 50.5	2.446	3.303	10.1	20.7
3 22	13 30.78	−13 7.6	2.371	3.304	7.2	20.5
4 1	13 24.31	−12 13.3	2.323	3.304	3.9	20.3
4 11	13 17.17	−11 11.2	2.303	3.304	0.9	20.0
4 21	13 10.07	−10 6.0	2.313	3.304	3.4	20.2
5 1	13 3.70	− 9 3.1	2.351	3.303	6.8	20.5
5 11	12 58.65	− 8 7.2	2.416	3.303	9.8	20.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
277519 2005 WA_{209}			4 10.7 292.°24		1.°1/11.6 17	
	h m	° ′			°	m
3 2	13 41.69	−13 9.8	1.824	2.605	16.1	21.8
3 12	13 38.60	−13 0.2	1.731	2.601	13.0	21.5
3 22	13 33.08	−12 35.1	1.658	2.597	9.2	21.3
4 1	13 25.63	−11 55.8	1.609	2.592	5.0	21.0
4 11	13 17.13	−11 6.5	1.587	2.588	1.1	20.7
4 21	13 8.61	−10 12.7	1.592	2.584	4.5	21.0
5 1	13 1.11	− 9 21.3	1.624	2.580	8.9	21.2
5 11	12 55.47	− 8 38.5	1.679	2.576	12.8	21.4
225283 1994 GB_5			4 10.7 69.°00		0.°3/10.9 18	
3 2	13 45.44	− 9 33.2	1.829	2.614	15.9	20.0
3 12	13 41.44	− 9 39.7	1.744	2.617	12.7	19.7
3 22	13 34.95	− 9 35.0	1.679	2.621	8.9	19.5
4 1	13 26.53	− 9 20.9	1.639	2.625	4.5	19.3
4 11	13 17.10	− 9 0.8	1.626	2.629	0.3	18.9
4 21	13 7.72	− 8 39.1	1.642	2.632	4.6	19.3
5 1	12 59.44	− 8 20.6	1.684	2.636	8.9	19.5
5 11	12 53.10	− 8 9.8	1.750	2.640	12.7	19.8
138672 2000 SL_4			4 10.7 168.°64		2.°1/13.4 18	
3 2	13 39.63	−18 50.7	2.755	3.488	12.3	20.5
3 12	13 36.04	−18 32.3	2.655	3.491	10.1	20.3
3 22	13 30.79	−17 59.6	2.577	3.493	7.5	20.1
4 1	13 24.30	−17 13.5	2.525	3.496	4.6	19.9
4 11	13 17.18	−16 16.7	2.502	3.497	2.3	19.8
4 21	13 10.10	−15 13.1	2.509	3.499	3.3	19.8
5 1	13 3.72	−14 7.7	2.544	3.500	6.1	20.0
5 11	12 58.59	−13 5.6	2.607	3.501	8.9	20.2
100351 1995 SU_{88}			4 10.7 1.°39		0.°2/10.8 17 R	
3 2	13 40.15	−10 36.7	1.297	2.114	19.5	20.6
3 12	13 38.27	−10 31.0	1.220	2.112	15.7	20.3
3 22	13 33.32	−10 7.7	1.161	2.111	11.0	20.0
4 1	13 25.89	− 9 29.4	1.124	2.111	5.6	19.7
4 11	13 17.12	− 8 41.9	1.110	2.112	0.3	19.3
4 21	13 8.40	− 7 53.0	1.121	2.114	5.8	19.7
5 1	13 1.09	− 7 10.9	1.156	2.117	11.2	20.0
5 11	12 56.24	− 6 42.7	1.212	2.120	15.8	20.3
6121 Plachinda			4 10.7 200.°81		0.°8/11.3 18	
3 2	13 45.39	−13 24.6	1.910	2.679	15.9	17.7
3 12	13 41.42	−13 0.8	1.812	2.676	12.8	17.5
3 22	13 34.97	−12 20.4	1.735	2.671	9.1	17.2
4 1	13 26.57	−11 25.3	1.683	2.666	4.8	17.0
4 11	13 17.10	−10 20.0	1.659	2.660	0.8	16.7
4 21	13 7.60	− 9 10.7	1.663	2.654	4.6	16.9
5 1	12 59.13	− 8 4.8	1.695	2.646	9.0	17.2
5 11	12 52.54	− 7 9.0	1.751	2.638	12.9	17.4
505064 2011 SQ_{163}			4 10.7 151.°44		2.°3/13.4 17	
3 2	13 39.45	−18 26.8	2.640	3.378	12.7	21.8
3 12	13 35.99	−18 17.0	2.542	3.381	10.4	21.6
3 22	13 30.80	−17 53.1	2.467	3.384	7.7	21.5
4 1	13 24.33	−17 15.8	2.416	3.387	4.8	21.3
4 11	13 17.19	−16 27.7	2.394	3.389	2.4	21.1
4 21	13 10.08	−15 32.5	2.402	3.392	3.4	21.2
5 1	13 3.70	−14 35.2	2.437	3.394	6.3	21.4
5 11	12 58.61	−13 40.6	2.500	3.396	9.2	21.6
171023 2005 EY_{48}			4 10.7 16.°33		0.°5/11.0 18	
3 2	13 40.41	−12 16.3	1.359	2.167	19.3	20.1
3 12	13 38.30	−11 58.7	1.282	2.169	15.5	19.9
3 22	13 33.23	−11 21.3	1.224	2.172	10.9	19.6
4 1	13 25.79	−10 26.9	1.188	2.175	5.6	19.3
4 11	13 17.13	− 9 21.9	1.177	2.179	0.5	18.9
4 21	13 8.57	− 8 14.7	1.190	2.183	5.6	19.3
5 1	13 1.39	− 7 14.6	1.228	2.188	10.8	19.6
5 11	12 56.58	− 6 29.1	1.288	2.193	15.3	19.9
287035 2002 QQ_{109}			4 10.7 161.°81		2.°4/13.1 17	
3 2	13 42.62	−17 14.0	2.315	3.061	14.1	21.2
3 12	13 38.76	−17 18.1	2.219	3.063	11.5	21.0
3 22	13 32.86	−17 7.8	2.145	3.066	8.5	20.8
4 1	13 25.42	−16 43.7	2.096	3.068	5.2	20.6
4 11	13 17.15	−16 7.9	2.074	3.070	2.6	20.4
4 21	13 8.90	−15 24.2	2.081	3.072	3.9	20.5
5 1	13 1.50	−14 37.8	2.117	3.073	7.1	20.7
5 11	12 55.63	−13 54.0	2.178	3.074	10.3	20.9
392471 2011 FW_3			4 10.7 180.°92		1.°9/ 9.0 17	
3 2	13 44.15	− 4 28.2	2.000	2.795	14.4	21.1
3 12	13 40.16	− 4 7.1	1.913	2.795	11.3	20.9
3 22	13 33.92	− 3 37.9	1.847	2.795	7.8	20.7
4 1	13 25.97	− 3 4.1	1.808	2.795	3.9	20.5
4 11	13 17.14	− 2 30.7	1.796	2.795	2.1	20.3
4 21	13 8.34	− 2 2.3	1.813	2.795	5.4	20.6
5 1	13 0.53	− 1 43.6	1.857	2.794	9.3	20.8
5 11	12 54.44	− 1 37.5	1.924	2.794	12.7	21.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3699 Milbourn			4 10.7 246.°54		3.°4/ 7.7 18	
	h m	° ′			°	m
3 2	13 44.48	− 2 5.8	1.881	2.684	14.9	17.2
3 12	13 40.75	− 1 19.9	1.782	2.669	11.8	17.0
3 22	13 34.56	− 0 24.8	1.705	2.654	8.2	16.7
4 1	13 26.40	+ 0 34.5	1.653	2.639	4.6	16.5
4 11	13 17.12	+ 1 31.1	1.629	2.622	3.7	16.4
4 21	13 7.74	+ 2 18.4	1.633	2.606	7.0	16.6
5 1	12 59.31	+ 2 50.7	1.663	2.589	11.0	16.8
5 11	12 52.71	+ 3 4.5	1.716	2.571	14.7	16.9
34066 2000 OS_{52}			4 10.7 211.°13		0.°9/ 9.6 18	
3 2	13 40.14	− 7 11.7	2.737	3.515	11.4	19.3
3 12	13 36.40	− 6 44.4	2.637	3.510	8.9	19.1
3 22	13 31.03	− 6 8.9	2.561	3.505	6.1	18.9
4 1	13 24.44	− 5 27.8	2.513	3.500	3.0	18.7
4 11	13 17.20	− 4 44.7	2.494	3.494	1.0	18.6
4 21	13 9.96	− 4 3.6	2.504	3.488	3.9	18.8
5 1	13 3.38	− 3 28.4	2.543	3.482	7.0	19.0
5 11	12 57.99	− 3 2.2	2.608	3.476	9.9	19.1
240316 2003 HV_{14}			4 10.7 281.°37		5.°1/ 6.7 18	
3 2	13 42.87	− 0 12.3	1.451	2.277	17.3	20.1
3 12	13 40.14	+ 0 48.2	1.366	2.266	13.8	19.8
3 22	13 34.49	+ 1 59.0	1.301	2.255	9.7	19.6
4 1	13 26.47	+ 3 12.6	1.261	2.244	6.0	19.3
4 11	13 17.14	+ 4 19.1	1.245	2.234	5.6	19.3
4 21	13 7.76	+ 5 9.6	1.255	2.223	9.2	19.4
5 1	12 59.63	+ 5 37.3	1.288	2.212	13.6	19.7
5 11	12 53.78	+ 5 39.7	1.341	2.202	17.7	19.9
7768 1991 SX_1			4 10.7 73.°78		1.°3/11.5 18	
3 2	13 44.78	−12 56.7	1.406	2.201	19.4	17.2
3 12	13 41.74	−12 54.9	1.326	2.204	15.6	17.0
3 22	13 35.61	−12 34.7	1.265	2.208	11.1	16.7
4 1	13 27.02	−11 57.5	1.227	2.211	6.0	16.4
4 11	13 17.12	−11 8.1	1.213	2.214	1.3	16.1
4 21	13 7.29	−10 13.6	1.225	2.218	5.4	16.4
5 1	12 58.89	− 9 22.6	1.262	2.221	10.5	16.7
5 11	12 52.94	− 8 42.6	1.321	2.225	15.1	17.0
55117 2001 QW_{165}			4 10.7 158.°52		2.°2/ 8.5 18	
3 2	13 45.05	− 3 49.6	2.152	2.942	13.7	20.3
3 12	13 40.63	− 3 15.2	2.068	2.948	10.7	20.1
3 22	13 34.11	− 2 32.9	2.007	2.954	7.3	19.9
4 1	13 26.03	− 1 46.9	1.973	2.959	3.8	19.7
4 11	13 17.17	− 1 2.2	1.967	2.964	2.5	19.6
4 21	13 8.41	− 0 24.0	1.991	2.968	5.5	19.8
5 1	13 0.59	+ 0 3.5	2.042	2.972	9.0	20.0
5 11	12 54.41	+ 0 17.4	2.117	2.975	12.2	20.2
519931 2013 RT_{105}			4 10.7 198.°83		3.°9/14.1 17	
3 2	13 46.46	−20 13.7	2.210	2.938	15.2	22.2
3 12	13 42.06	−20 40.2	2.108	2.935	12.7	22.0
3 22	13 35.34	−20 51.3	2.026	2.932	9.7	21.8
4 1	13 26.76	−20 45.9	1.968	2.929	6.5	21.6
4 11	13 17.14	−20 24.8	1.937	2.925	4.1	21.4
4 21	13 7.43	−19 50.7	1.935	2.920	4.8	21.5
5 1	12 58.63	−19 8.8	1.961	2.915	7.8	21.6
5 11	12 51.54	−18 25.1	2.013	2.910	11.0	21.8
344425 2002 CC_{234}			4 10.7 105.°49		7.°2/20.9 17	
3 2	13 49.41	−37 36.8	3.163	3.745	13.4	22.3
3 12	13 43.78	−38 30.6	3.079	3.772	12.0	22.3
3 22	13 36.15	−39 6.8	3.015	3.798	10.4	22.2
4 1	13 27.03	−39 22.5	2.972	3.823	8.9	22.1
4 11	13 17.14	−39 16.8	2.954	3.848	7.7	22.0
4 21	13 7.31	−38 50.7	2.963	3.872	7.2	22.0
5 1	12 58.35	−38 7.6	2.999	3.896	7.7	22.1
5 11	12 50.92	−37 12.9	3.061	3.919	8.8	22.2
405494 2004 XY_{150}			4 10.7 107.°24		1.°9/ 9.2 18	
3 2	13 48.72	− 5 24.1	1.712	2.506	16.5	22.1
3 12	13 43.90	− 4 56.4	1.644	2.526	12.9	22.0
3 22	13 36.52	− 4 18.8	1.598	2.545	8.8	21.7
4 1	13 27.25	− 3 35.5	1.577	2.565	4.4	21.5
4 11	13 17.14	− 2 52.6	1.584	2.583	2.1	21.4
4 21	13 7.31	− 2 16.0	1.618	2.601	5.9	21.7
5 1	12 58.82	− 1 50.6	1.680	2.619	10.0	22.0
5 11	12 52.43	− 1 39.7	1.765	2.635	13.6	22.2
326066 2011 AM_{48}			4 10.7 359.°39		2.°9/ 8.3 17	
3 2	13 41.90	− 3 43.0	1.645	2.458	16.2	20.5
3 12	13 38.88	− 3 5.1	1.564	2.457	12.7	20.3
3 22	13 33.31	− 2 17.0	1.504	2.457	8.7	20.0
4 1	13 25.76	− 1 23.9	1.469	2.457	4.6	19.8
4 11	13 17.19	− 0 32.8	1.460	2.457	3.2	19.7
4 21	13 8.68	+ 0 9.6	1.478	2.457	6.8	19.9
5 1	13 1.33	+ 0 37.5	1.520	2.458	11.0	20.1
5 11	12 55.96	+ 0 47.6	1.585	2.459	14.8	20.4

303707 2005 PX 4 10.7 247°.33 0°.0/10.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 41.48	− 9 52.8	2.640	3.408	12.0	21.8
3 12	13 37.62	− 9 41.4	2.530	3.396	9.6	21.6
3 22	13 31.99	− 9 20.6	2.443	3.382	6.7	21.4
4 1	13 24.99	− 8 52.2	2.384	3.369	3.4	21.2
4 11	13 17.22	− 8 19.2	2.353	3.355	0.1	20.8
4 21	13 9.38	− 7 45.1	2.352	3.341	3.6	21.1
5 1	13 2.18	− 7 13.9	2.380	3.327	7.0	21.3
5 11	12 56.26	− 6 49.2	2.433	3.312	10.1	21.5

102552 1999 UF_{20} 4 10.7 264°.81 0°.7/10.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.78	−10 16.6	1.705	2.499	16.5	20.8
3 12	13 38.95	− 9 38.7	1.604	2.485	13.2	20.6
3 22	13 33.52	− 8 43.5	1.523	2.470	9.2	20.3
4 1	13 25.97	− 7 34.2	1.467	2.455	4.6	20.0
4 11	13 17.19	− 6 17.0	1.438	2.439	0.8	19.7
4 21	13 8.27	− 4 59.7	1.435	2.424	5.6	20.0
5 1	13 0.38	− 3 50.8	1.459	2.408	10.4	20.2
5 11	12 54.45	− 2 57.4	1.506	2.392	14.7	20.4

190111 2004 TJ_{356} 4 10.7 290°.47 3°.3/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.44	− 2 20.2	1.816	2.625	15.1	20.5
3 12	13 39.37	− 1 40.6	1.707	2.598	12.0	20.3
3 22	13 33.79	− 0 51.3	1.620	2.571	8.4	20.0
4 1	13 26.12	+ 0 3.1	1.558	2.544	4.6	19.7
4 11	13 17.18	+ 0 55.9	1.523	2.517	3.7	19.6
4 21	13 7.99	+ 1 40.1	1.514	2.490	7.2	19.7
5 1	12 59.68	+ 2 9.7	1.531	2.462	11.4	19.9
5 11	12 53.19	+ 2 20.6	1.571	2.435	15.4	20.1

432509 2010 FF_{7} 4 10.7 48°.45 18°.6/10.1 15 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	16 36.71	+13 11.2	0.481	1.141	59.8	20.3
3 12	15 47.21	+18 10.4	0.486	1.279	44.7	20.2
3 22	14 52.08	+21 48.7	0.517	1.404	30.9	20.1
4 1	13 59.09	+23 17.9	0.583	1.520	21.3	20.3
4 11	13 16.30	+22 50.7	0.683	1.626	18.6	20.7
4 21	12 46.21	+21 16.3	0.813	1.724	20.7	21.3
5 1	12 27.17	+19 14.0	0.966	1.814	23.7	21.8
5 11	12 16.48	+17 5.0	1.135	1.898	26.0	22.4

329794 2004 PL_{100} 4 10.7 264°.29 2°.5/ 8.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.76	− 4 9.2	2.190	2.983	13.4	21.6
3 12	13 39.12	− 3 21.9	2.075	2.957	10.6	21.3
3 22	13 33.33	− 2 24.2	1.984	2.931	7.3	21.1
4 1	13 25.79	− 1 20.1	1.918	2.905	3.9	20.8
4 11	13 17.21	− 0 15.4	1.882	2.878	2.8	20.7
4 21	13 8.44	+ 0 43.6	1.874	2.850	6.0	20.8
5 1	13 0.40	+ 1 31.2	1.894	2.821	9.8	21.0
5 11	12 53.88	+ 2 3.1	1.937	2.792	13.3	21.1

418049 2007 VX_{115} 4 10.7 82°.61 0°.4/11.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.59	−13 21.1	1.575	2.364	17.9	21.7
3 12	13 39.47	−12 44.0	1.502	2.378	14.3	21.5
3 22	13 33.70	−11 47.5	1.449	2.392	10.0	21.2
4 1	13 25.93	−10 35.0	1.420	2.406	5.1	21.0
4 11	13 17.21	− 9 13.4	1.417	2.419	0.4	20.7
4 21	13 8.70	− 7 51.1	1.441	2.433	5.0	21.0
5 1	13 1.51	− 6 36.9	1.492	2.446	9.7	21.3
5 11	12 56.43	− 5 37.7	1.565	2.460	13.7	21.6

103762 2000 CP_{131} 4 10.7 239°.61 1°.4/ 9.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.57	− 6 49.4	2.140	2.932	13.7	21.0
3 12	13 37.24	− 6 14.3	2.048	2.929	10.8	20.8
3 22	13 31.89	− 5 28.6	1.978	2.926	7.3	20.5
4 1	13 24.98	− 4 36.0	1.935	2.922	3.6	20.3
4 11	13 17.25	− 3 41.5	1.919	2.919	1.6	20.1
4 21	13 9.54	− 2 50.7	1.932	2.915	5.0	20.4
5 1	13 2.69	− 2 8.8	1.972	2.912	8.7	20.6
5 11	12 57.37	− 1 39.7	2.036	2.908	12.0	20.8

372407 2009 RF_{33} 4 10.7 196°.23 0°.4/11.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 47.49	−10 2.8	2.281	3.045	13.8	21.1
3 12	13 42.62	−10 7.5	2.181	3.043	11.0	20.9
3 22	13 35.58	−10 2.6	2.104	3.040	7.7	20.7
4 1	13 26.85	− 9 49.3	2.052	3.036	4.0	20.4
4 11	13 17.20	− 9 30.4	2.030	3.032	0.4	20.1
4 21	13 7.52	− 9 9.3	2.038	3.027	4.0	20.4
5 1	12 58.69	− 8 50.1	2.074	3.022	7.8	20.6
5 11	12 51.48	− 8 36.7	2.136	3.016	11.2	20.8

241196 2007 SE_{19} 4 10.7 241°.65 5°.8/ 4.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.31	+ 7 21.5	2.234	3.044	12.6	20.3
3 12	13 37.67	+ 8 21.5	2.155	3.042	10.1	20.1
3 22	13 32.08	+ 9 22.0	2.100	3.039	7.6	20.0
4 1	13 25.03	+10 16.9	2.072	3.037	5.9	19.9
4 11	13 17.27	+11 0.0	2.071	3.035	6.3	19.9
4 21	13 9.57	+11 26.5	2.097	3.032	8.3	20.0
5 1	13 2.74	+11 33.7	2.148	3.030	11.0	20.2
5 11	12 57.40	+11 21.2	2.221	3.028	13.5	20.3

199629 2006 FB_{53} 4 10.7 117°.50 1°.5/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.24	− 6 54.6	2.105	2.897	13.9	20.6
3 12	13 37.71	− 6 14.0	2.023	2.904	10.9	20.4
3 22	13 32.15	− 5 22.7	1.964	2.911	7.4	20.2
4 1	13 25.08	− 4 24.8	1.930	2.918	3.6	20.0
4 11	13 17.27	− 3 25.6	1.925	2.925	1.7	19.9
4 21	13 9.56	− 2 31.0	1.949	2.932	5.0	20.1
5 1	13 2.77	− 1 46.1	1.999	2.938	8.7	20.3
5 11	12 57.56	− 1 14.7	2.074	2.944	11.9	20.6

423682 2005 YH_{229} 4 10.7 333°.60 8°.8/ 1.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 36.81	+ 8 27.3	1.589	2.427	15.5	20.3
3 12	13 35.03	+10 21.3	1.516	2.417	12.6	20.1
3 22	13 30.76	+12 18.6	1.466	2.407	10.0	19.9
4 1	13 24.54	+14 7.9	1.440	2.398	8.8	19.8
4 11	13 17.29	+15 37.8	1.439	2.390	9.8	19.8
4 21	13 10.08	+16 39.6	1.461	2.382	12.4	19.9
5 1	13 3.96	+17 8.7	1.506	2.374	15.5	20.1
5 11	12 59.77	+17 5.2	1.568	2.368	18.4	20.3

301555 2009 HY 4 10.7 294°.28 2°.0/ 9.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.01	− 2 21.1	2.256	3.046	13.1	20.4
3 12	13 40.72	− 2 19.6	2.153	3.032	10.4	20.1
3 22	13 34.31	− 2 13.4	2.072	3.018	7.2	19.9
4 1	13 26.25	− 2 5.4	2.018	3.004	3.7	19.7
4 11	13 17.24	− 1 59.2	1.992	2.990	2.1	19.5
4 21	13 8.14	− 1 57.9	1.995	2.976	5.1	19.7
5 1	12 59.84	− 2 4.8	2.026	2.962	8.7	19.9
5 11	12 53.07	− 2 21.7	2.082	2.949	12.0	20.1

278431 2007 RD_{271} 4 10.7 3°.33 2°.1/12.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.73	−16 1.3	2.034	2.798	15.2	20.2
3 12	13 37.60	−15 59.4	1.941	2.798	12.4	20.0
3 22	13 32.26	−15 41.9	1.869	2.798	9.0	19.8
4 1	13 25.22	−15 9.5	1.821	2.798	5.3	19.6
4 11	13 17.27	−14 25.3	1.800	2.798	2.2	19.4
4 21	13 9.33	−13 34.1	1.807	2.799	4.1	19.5
5 1	13 2.32	−12 41.8	1.841	2.799	7.8	19.7
5 11	12 56.99	−11 54.5	1.900	2.800	11.4	19.9

44604 1999 RN_{14} 4 10.7 218°.28 0°.6/10.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.33	−10 22.0	1.568	2.361	17.7	20.0
3 12	13 41.95	− 9 49.9	1.475	2.356	14.2	19.7
3 22	13 35.70	− 9 0.2	1.403	2.349	9.9	19.4
4 1	13 27.11	− 7 56.1	1.355	2.342	5.0	19.1
4 11	13 17.21	− 6 43.9	1.333	2.334	0.7	18.8
4 21	13 7.25	− 5 31.9	1.337	2.326	5.8	19.1
5 1	12 58.52	− 4 28.7	1.368	2.318	10.9	19.4
5 11	12 52.01	− 3 41.3	1.421	2.308	15.3	19.6

102911 1999 XZ_{19} 4 10.7 185°.32 1°.4/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.76	− 6 36.8	2.082	2.866	14.3	20.5
3 12	13 41.38	− 6 5.9	1.991	2.866	11.3	20.3
3 22	13 34.78	− 5 24.6	1.921	2.866	7.7	20.1
4 1	13 26.46	− 4 36.4	1.878	2.865	3.8	19.8
4 11	13 17.24	− 3 46.4	1.863	2.863	1.6	19.6
4 21	13 8.06	− 3 0.1	1.877	2.861	5.1	19.9
5 1	12 59.82	− 2 22.6	1.920	2.858	9.0	20.1
5 11	12 53.29	− 1 57.8	1.986	2.854	12.5	20.3

172344 2002 VL_{104} 4 10.7 143°.64 2°.9/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.74	−20 34.9	2.487	3.216	13.6	20.7
3 12	13 37.15	−20 25.6	2.391	3.222	11.3	20.5
3 22	13 31.70	−20 0.1	2.317	3.227	8.5	20.4
4 1	13 24.85	−19 18.8	2.268	3.233	5.5	20.2
4 11	13 17.30	−18 24.3	2.247	3.238	3.1	20.0
4 21	13 9.79	−17 20.7	2.254	3.243	3.8	20.1
5 1	13 3.09	−16 13.5	2.290	3.247	6.6	20.3
5 11	12 57.81	−15 8.6	2.353	3.252	9.6	20.4

521304 2015 KJ_{169} 4 10.7 279°.04 4°.9/ 4.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.83	+ 4 20.7	2.352	3.162	12.0	21.5
3 12	13 35.68	+ 5 25.9	2.265	3.154	9.5	21.3
3 22	13 30.71	+ 6 34.5	2.202	3.147	6.9	21.1
4 1	13 24.37	+ 7 40.6	2.166	3.139	5.1	21.0
4 11	13 17.31	+ 8 38.1	2.158	3.131	5.4	21.0
4 21	13 10.28	+ 9 21.7	2.178	3.123	7.5	21.1
5 1	13 3.99	+ 9 48.0	2.223	3.115	10.2	21.3
5 11	12 59.06	+ 9 55.4	2.292	3.107	12.8	21.4

517188 2013 RP_{102} 4 10.7 152°.76 0°.8/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.03	− 7 4.4	2.361	3.137	13.0	22.1
3 12	13 40.47	− 6 51.3	2.273	3.144	10.3	21.9
3 22	13 33.95	− 6 30.0	2.208	3.150	7.0	21.7
4 1	13 25.98	− 6 2.9	2.170	3.156	3.5	21.5
4 11	13 17.27	− 5 33.7	2.161	3.162	0.9	21.3
4 21	13 8.64	− 5 6.2	2.181	3.167	4.2	21.6
5 1	13 0.86	− 4 44.4	2.230	3.171	7.7	21.8
5 11	12 54.59	− 4 31.4	2.304	3.176	10.8	22.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
436360 2010 KS_{19}			4 10.7 276°.90		5°.9/ 2.9 17	
	h m	° ′			°	m
3 2	13 37.67	+ 7 4.9	2.394	3.208	11.7	21.3
3 12	13 34.75	+ 8 33.1	2.311	3.200	9.4	21.2
3 22	13 30.06	+10 3.6	2.253	3.191	7.2	21.0
4 1	13 24.04	+11 29.7	2.222	3.183	5.9	20.9
4 11	13 17.33	+12 44.4	2.219	3.174	6.5	20.9
4 21	13 10.64	+13 42.2	2.243	3.166	8.5	21.0
5 1	13 4.67	+14 19.4	2.292	3.157	11.0	21.2
5 11	13 0.02	+14 34.9	2.362	3.149	13.3	21.3
39141 2000 WN_{77}			4 10.7 302°.07		0°.7/10.2 17	
3 2	13 44.03	− 7 20.7	1.808	2.603	15.7	19.2
3 12	13 40.49	− 7 17.8	1.714	2.595	12.5	19.0
3 22	13 34.45	− 7 4.7	1.641	2.587	8.7	18.7
4 1	13 26.41	− 6 43.9	1.592	2.580	4.3	18.5
4 11	13 17.25	− 6 19.4	1.571	2.572	0.8	18.2
4 21	13 8.03	− 5 56.1	1.576	2.565	5.1	18.5
5 1	12 59.84	− 5 39.0	1.609	2.558	9.5	18.7
5 11	12 53.54	− 5 32.2	1.664	2.551	13.5	18.9
334 Chicago			4 10.7 280°.90		1°.5/ 8.6 18	A
3 2	13 36.74	− 4 27.0	3.093	3.880	10.0	13.7
3 12	13 33.54	− 3 54.1	2.998	3.878	7.8	13.6
3 22	13 28.99	− 3 15.2	2.929	3.875	5.3	13.4
4 1	13 23.43	− 2 33.2	2.887	3.873	2.7	13.2
4 11	13 17.37	− 1 51.6	2.874	3.871	1.7	13.1
4 21	13 11.33	− 1 13.7	2.891	3.869	3.9	13.3
5 1	13 5.84	− 0 42.9	2.936	3.867	6.6	13.5
5 11	13 1.35	− 0 21.3	3.007	3.865	9.0	13.6
173978 2001 XE_{135}			4 10.7 18°.33		7°.8/ 2.9 17	
3 2	13 42.84	+13 34.6	2.096	2.906	13.3	20.0
3 12	13 38.97	+14 33.6	2.030	2.908	11.0	19.8
3 22	13 33.01	+15 27.8	1.987	2.910	8.9	19.7
4 1	13 25.51	+16 10.1	1.968	2.913	7.8	19.6
4 11	13 17.31	+16 34.2	1.976	2.916	8.3	19.7
4 21	13 9.26	+16 36.5	2.010	2.919	10.1	19.8
5 1	13 2.22	+16 15.7	2.067	2.923	12.4	19.9
5 11	12 56.82	+15 33.3	2.145	2.926	14.7	20.1
6214 Mikhailgrinev			4 10.7 229°.69		0°.8/ 9.7 18	
3 2	13 40.14	− 7 24.0	2.845	3.620	11.0	18.1
3 12	13 36.40	− 6 57.8	2.739	3.610	8.7	17.9
3 22	13 31.07	− 6 23.4	2.657	3.600	6.0	17.7
4 1	13 24.53	− 5 43.4	2.603	3.590	2.9	17.5
4 11	13 17.34	− 5 1.1	2.578	3.579	0.9	17.3
4 21	13 10.12	− 4 20.3	2.583	3.568	3.8	17.5
5 1	13 3.50	− 3 44.9	2.617	3.556	6.8	17.7
5 11	12 58.03	− 3 17.9	2.676	3.544	9.6	17.8
134293 2006 DX_{37}			4 10.7 312°.07		3°.9/ 6.5 18	R
3 2	13 36.18	− 4 19.7	1.755	2.574	15.1	19.1
3 12	13 34.36	− 2 47.7	1.659	2.558	11.8	18.9
3 22	13 30.24	− 0 59.8	1.587	2.542	8.1	18.6
4 1	13 24.30	+ 0 57.0	1.540	2.526	4.7	18.4
4 11	13 17.34	+ 2 52.6	1.521	2.511	4.4	18.3
4 21	13 10.33	+ 4 37.1	1.528	2.497	7.9	18.5
5 1	13 4.23	+ 6 1.7	1.561	2.482	11.9	18.7
5 11	12 59.88	+ 7 1.1	1.616	2.468	15.6	18.9
6 Hebe			4 10.7 175°.01		6°.3/ 3.7 18	
3 2	13 43.85	+ 6 18.7	2.101	2.909	13.3	10.3
3 12	13 39.78	+ 7 50.3	2.026	2.912	10.7	10.2
3 22	13 33.60	+ 9 24.6	1.976	2.914	8.0	10.0
4 1	13 25.85	+10 53.9	1.952	2.916	6.4	9.9
4 11	13 17.31	+12 10.0	1.957	2.917	6.9	9.9
4 21	13 8.87	+13 6.8	1.989	2.917	9.2	10.1
5 1	13 1.40	+13 40.6	2.046	2.917	11.9	10.2
5 11	12 55.55	+13 50.7	2.125	2.916	14.5	10.4
496952 2002 AQ_{5}			4 10.7 55°.12		7°.4/ 4.0 18	
3 2	13 41.87	+ 6 55.4	1.616	2.443	15.8	20.8
3 12	13 38.69	+ 8 21.8	1.561	2.457	12.6	20.7
3 22	13 33.03	+ 9 48.8	1.528	2.471	9.5	20.5
4 1	13 25.57	+11 7.2	1.520	2.486	7.5	20.4
4 11	13 17.32	+12 7.8	1.537	2.501	8.0	20.5
4 21	13 9.35	+12 44.4	1.580	2.516	10.5	20.7
5 1	13 2.65	+12 54.3	1.645	2.531	13.5	20.9
5 11	12 57.92	+12 38.4	1.731	2.547	16.3	21.1
216064 2006 QP_{10}			4 10.7 180°.99		3°.8/ 7.0 18	
3 2	13 44.31	− 0 39.8	2.014	2.815	14.1	21.4
3 12	13 40.27	+ 0 16.3	1.930	2.816	11.0	21.2
3 22	13 34.02	+ 1 19.6	1.869	2.817	7.7	21.0
4 1	13 26.09	+ 2 24.5	1.834	2.817	4.6	20.8
4 11	13 17.31	+ 3 24.2	1.828	2.817	4.1	20.7
4 21	13 8.59	+ 4 12.7	1.850	2.816	7.0	20.9
5 1	13 0.86	+ 4 45.1	1.898	2.814	10.4	21.1
5 11	12 54.83	+ 4 59.1	1.969	2.812	13.6	21.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
267473 2002 FM_{24}			4 10.7 90°.21		0°.7/10.3 17	
	h m	° ′			°	m
3 2	13 52.79	− 4 55.8	1.887	2.666	15.7	20.2
3 12	13 47.13	− 5 23.5	1.802	2.674	12.5	20.0
3 22	13 38.85	− 5 45.6	1.739	2.681	8.6	19.7
4 1	13 28.56	− 6 3.7	1.703	2.689	4.3	19.5
4 11	13 17.23	− 6 20.1	1.695	2.696	0.7	19.2
4 21	13 6.00	− 6 37.4	1.716	2.704	4.9	19.5
5 1	12 55.96	− 6 58.1	1.766	2.711	9.1	19.8
5 11	12 47.98	− 7 24.7	1.840	2.719	12.8	20.1
127175 2002 GZ_{157}			4 10.7 182°.87		2°.9/ 7.8 17	
3 2	13 41.52	− 2 55.5	2.060	2.862	13.8	20.2
3 12	13 38.04	− 2 7.0	1.975	2.862	10.8	20.0
3 22	13 32.46	− 1 10.1	1.912	2.862	7.4	19.8
4 1	13 25.30	− 0 9.6	1.876	2.862	4.0	19.6
4 11	13 17.33	+ 0 48.3	1.868	2.861	3.2	19.6
4 21	13 9.42	+ 1 37.7	1.887	2.861	6.1	19.7
5 1	13 2.43	+ 2 13.8	1.934	2.860	9.7	19.9
5 11	12 57.03	+ 2 33.6	2.004	2.859	12.9	20.1
124587 2001 SR_{20}			4 10.7 125°.26		0°.7/10.1 18	
3 2	13 44.82	− 8 33.0	2.009	2.792	14.8	20.6
3 12	13 40.64	− 8 10.7	1.929	2.803	11.7	20.4
3 22	13 34.23	− 7 37.2	1.870	2.814	8.0	20.2
4 1	13 26.17	− 6 55.6	1.837	2.824	3.9	19.9
4 11	13 17.31	− 6 10.5	1.833	2.834	0.8	19.7
4 21	13 8.58	− 5 27.3	1.857	2.844	4.7	20.0
5 1	13 0.88	− 4 51.0	1.908	2.853	8.6	20.3
5 11	12 54.92	− 4 25.7	1.984	2.862	12.0	20.5
295589 2008 SZ_{132}			4 10.7 13°.08		0°.7/11.1 16	
3 2	13 43.54	−11 32.6	1.302	2.110	19.9	21.3
3 12	13 41.03	−11 29.6	1.224	2.111	16.1	21.0
3 22	13 35.31	−11 8.2	1.165	2.112	11.3	20.8
4 1	13 26.99	−10 30.6	1.127	2.113	5.9	20.5
4 11	13 17.28	− 9 42.1	1.113	2.115	0.7	20.1
4 21	13 7.61	− 8 50.5	1.124	2.117	5.8	20.4
5 1	12 59.43	− 8 4.5	1.159	2.119	11.2	20.7
5 11	12 53.81	− 7 31.3	1.215	2.122	15.9	21.0
159050 2004 TO_{126}			4 10.7 155°.99		2°.2/ 8.4 17	
3 2	13 44.03	− 3 16.2	2.333	3.122	12.8	21.0
3 12	13 39.68	− 2 42.0	2.249	3.128	10.0	20.8
3 22	13 33.41	− 2 1.0	2.188	3.134	6.8	20.6
4 1	13 25.72	− 1 17.1	2.154	3.140	3.6	20.4
4 11	13 17.33	− 0 34.9	2.149	3.145	2.5	20.3
4 21	13 9.03	+ 0 0.9	2.174	3.150	5.2	20.5
5 1	13 1.60	+ 0 26.5	2.226	3.154	8.5	20.7
5 11	12 55.64	+ 0 39.4	2.303	3.158	11.4	20.9
464003 2014 WA_{73}			4 10.7 255°.03		1°.0/ 9.9 17	
3 2	13 46.70	− 6 51.9	1.759	2.551	16.2	21.2
3 12	13 42.79	− 6 45.3	1.659	2.539	12.9	21.0
3 22	13 36.18	− 6 28.2	1.580	2.526	9.0	20.7
4 1	13 27.37	− 6 3.2	1.525	2.513	4.5	20.4
4 11	13 17.28	− 5 34.7	1.498	2.500	1.1	20.1
4 21	13 7.04	− 5 8.0	1.498	2.486	5.5	20.4
5 1	12 57.84	− 4 48.5	1.525	2.472	10.2	20.6
5 11	12 50.65	− 4 40.6	1.575	2.458	14.3	20.8
374145 2004 TQ_{207}			4 10.7 170°.34		2°.0/ 8.8 17	
3 2	13 44.41	− 3 49.6	2.229	3.018	13.3	21.3
3 12	13 40.13	− 3 25.1	2.141	3.020	10.4	21.1
3 22	13 33.81	− 2 53.4	2.076	3.023	7.1	20.9
4 1	13 25.96	− 2 18.2	2.038	3.024	3.7	20.7
4 11	13 17.33	− 1 43.9	2.028	3.026	2.2	20.6
4 21	13 8.76	− 1 15.0	2.047	3.027	5.2	20.8
5 1	13 1.07	− 0 55.5	2.094	3.027	8.6	21.0
5 11	12 54.94	− 0 48.0	2.166	3.028	11.8	21.2
47898 2000 GA_{47}			4 10.7 105°.15		0°.1/10.8 18	
3 2	13 39.34	−12 50.4	2.214	2.988	13.8	18.6
3 12	13 36.17	−12 3.3	2.128	2.996	11.0	18.4
3 22	13 31.08	−11 1.4	2.064	3.004	7.6	18.2
4 1	13 24.58	− 9 47.7	2.027	3.012	3.9	18.0
4 11	13 17.38	− 8 27.6	2.018	3.020	0.1	17.7
4 21	13 10.28	− 7 7.3	2.038	3.028	4.0	18.0
5 1	13 4.05	− 5 53.1	2.086	3.035	7.7	18.3
5 11	12 59.30	− 4 50.4	2.160	3.043	11.0	18.5
506978 2008 SG_{136}			4 10.7 255°.26		1°.7/12.3 17	
3 2	13 44.08	−15 7.6	2.320	3.072	13.9	22.3
3 12	13 40.15	−15 6.4	2.201	3.051	11.4	22.0
3 22	13 34.06	−14 51.6	2.103	3.030	8.3	21.8
4 1	13 26.22	−14 23.7	2.030	3.008	4.8	21.5
4 11	13 17.33	−13 44.8	1.986	2.985	1.8	21.3
4 21	13 8.24	−12 58.8	1.971	2.962	3.9	21.4
5 1	12 59.86	−12 10.9	1.984	2.939	7.7	21.6
5 11	12 52.99	−11 26.7	2.023	2.914	11.2	21.7

167534 2003 YF_{161} 4 10.7 234°.52 3°.9/ 6.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 41.70	+ 1 40.8	2.533	3.331	11.6	20.7
3 12	13 37.85	+ 2 37.9	2.433	3.317	9.2	20.5
3 22	13 32.19	+ 3 39.9	2.358	3.303	6.5	20.4
4 1	13 25.16	+ 4 42.1	2.310	3.288	4.3	20.2
4 11	13 17.37	+ 5 38.9	2.291	3.273	4.2	20.2
4 21	13 9.54	+ 6 25.3	2.301	3.257	6.5	20.3
5 1	13 2.39	+ 6 57.3	2.339	3.241	9.4	20.4
5 11	12 56.55	+ 7 12.9	2.400	3.224	12.1	20.6

169333 2001 TE_{172} 4 10.7 195°.68 0°.1/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.86	− 8 50.7	2.255	3.033	13.5	20.1
3 12	13 38.96	− 8 46.2	2.162	3.033	10.7	19.9
3 22	13 33.06	− 8 32.3	2.092	3.033	7.4	19.6
4 1	13 25.61	− 8 10.9	2.047	3.033	3.7	19.4
4 11	13 17.36	− 7 45.5	2.031	3.033	0.2	19.1
4 21	13 9.12	− 7 19.8	2.043	3.033	4.1	19.4
5 1	13 1.71	− 6 58.0	2.084	3.032	7.7	19.7
5 11	12 55.82	− 6 43.8	2.149	3.032	11.0	19.9

466491 2013 WB_{22} 4 10.7 245°.87 4°.3/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.18	+ 0 26.2	2.083	2.890	13.4	21.2
3 12	13 37.85	+ 1 33.2	1.989	2.879	10.6	21.0
3 22	13 32.41	+ 2 47.6	1.919	2.868	7.5	20.7
4 1	13 25.34	+ 4 3.6	1.876	2.856	4.8	20.6
4 11	13 17.37	+ 5 13.9	1.860	2.844	4.7	20.5
4 21	13 9.37	+ 6 11.9	1.873	2.832	7.4	20.7
5 1	13 2.23	+ 6 52.5	1.911	2.820	10.8	20.8
5 11	12 56.65	+ 7 13.1	1.972	2.807	13.9	21.0

270521 2002 GY_{43} 4 10.7 323°.66 0°.1/10.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 34.79	−13 53.4	1.567	2.369	17.4	19.8
3 12	13 33.71	−13 4.2	1.465	2.349	14.0	19.5
3 22	13 30.08	−11 51.1	1.383	2.329	9.9	19.2
4 1	13 24.35	−10 16.9	1.323	2.310	5.1	18.9
4 11	13 17.39	− 8 28.5	1.290	2.292	0.2	18.4
4 21	13 10.30	− 6 35.9	1.282	2.274	5.4	18.8
5 1	13 4.22	− 4 50.5	1.300	2.257	10.6	19.0
5 11	13 0.12	− 3 22.1	1.341	2.241	15.1	19.2

281275 2007 RC_{31} 4 10.7 273°.77 3°.5/14.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.13	−20 12.5	2.212	2.949	14.9	20.9
3 12	13 38.82	−20 19.5	2.092	2.927	12.5	20.7
3 22	13 33.27	−20 9.7	1.992	2.904	9.6	20.4
4 1	13 25.87	−19 42.2	1.916	2.881	6.3	20.2
4 11	13 17.35	−18 58.1	1.866	2.857	3.7	20.0
4 21	13 8.60	−18 1.1	1.845	2.834	4.6	20.0
5 1	13 0.60	−16 57.0	1.852	2.810	7.9	20.1
5 11	12 54.21	−15 52.9	1.884	2.785	11.4	20.3

36578 2000 QQ_{124} 4 10.7 89°.46 3°.4/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 49.71	−16 35.3	1.558	2.323	19.1	19.1
3 12	13 45.30	−17 5.1	1.486	2.341	15.6	18.9
3 22	13 37.88	−17 17.1	1.432	2.358	11.5	18.6
4 1	13 28.16	−17 10.5	1.401	2.374	7.0	18.4
4 11	13 17.29	−16 47.5	1.395	2.391	3.6	18.3
4 21	13 6.61	−16 12.9	1.417	2.407	5.3	18.4
5 1	12 57.41	−15 33.7	1.464	2.423	9.4	18.7
5 11	12 50.64	−14 57.5	1.536	2.439	13.4	18.9

69516 1997 FJ 4 10.7 348°.95 9°.8/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.86	+13 35.0	1.570	2.398	16.1	17.9
3 12	13 39.03	+14 51.7	1.504	2.393	13.4	17.7
3 22	13 33.52	+16 3.6	1.458	2.388	11.1	17.5
4 1	13 25.95	+17 0.5	1.436	2.383	9.9	17.4
4 11	13 17.36	+17 33.2	1.438	2.380	10.6	17.4
4 21	13 8.91	+17 36.2	1.462	2.377	12.8	17.6
5 1	13 1.73	+17 8.0	1.509	2.375	15.6	17.7
5 11	12 56.65	+16 11.2	1.573	2.374	18.3	17.9

246955 1999 RV_{219} 4 10.7 178°.99 2°.1/12.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.49	−17 4.3	1.976	2.731	15.9	20.8
3 12	13 40.66	−16 50.1	1.882	2.732	13.0	20.6
3 22	13 34.45	−16 17.9	1.807	2.734	9.5	20.4
4 1	13 26.39	−15 28.6	1.758	2.734	5.6	20.2
4 11	13 17.35	−14 25.8	1.735	2.734	2.2	19.9
4 21	13 8.33	−13 15.2	1.742	2.733	4.3	20.1
5 1	13 0.33	−12 4.0	1.775	2.732	8.2	20.3
5 11	12 54.16	−10 59.5	1.834	2.730	12.0	20.5

51741 Davidixon 4 10.7 237°.41 3°.3/ 7.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.10	− 0 34.7	2.409	3.207	12.1	19.6
3 12	13 37.46	+ 0 15.2	2.312	3.197	9.5	19.4
3 22	13 31.98	+ 1 11.4	2.238	3.186	6.6	19.2
4 1	13 25.07	+ 2 9.2	2.192	3.174	4.0	19.0
4 11	13 17.40	+ 3 3.4	2.174	3.163	3.6	18.9
4 21	13 9.70	+ 3 48.7	2.185	3.151	6.1	19.1
5 1	13 2.73	+ 4 21.1	2.223	3.138	9.2	19.2
5 11	12 57.12	+ 4 37.9	2.286	3.126	12.0	19.4

379138 2009 DE_{51} 4 10.7 120°.65 5°.6/12.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	14 2.55	−14 48.0	1.249	2.016	22.8	20.8
3 12	13 56.74	−16 28.9	1.171	2.026	19.0	20.5
3 22	13 46.68	−17 58.2	1.111	2.035	14.3	20.3
4 1	13 32.98	−19 10.0	1.073	2.043	9.2	20.0
4 11	13 17.15	−20 0.1	1.060	2.052	5.7	19.8
4 21	13 1.23	−20 28.1	1.074	2.060	7.6	20.0
5 1	12 47.31	−20 38.7	1.113	2.067	12.3	20.2
5 11	12 36.90	−20 40.8	1.175	2.074	16.9	20.5

25680 Walterhansen 4 10.7 30°.86 3°.2/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.37	− 5 1.0	1.490	2.310	17.3	18.6
3 12	13 37.93	− 3 59.8	1.416	2.313	13.5	18.4
3 22	13 32.80	− 2 44.7	1.362	2.317	9.2	18.1
4 1	13 25.61	− 1 22.3	1.333	2.321	4.8	17.9
4 11	13 17.38	− 0 1.8	1.329	2.326	3.6	17.8
4 21	13 9.28	+ 1 7.7	1.352	2.330	7.4	18.0
5 1	13 2.44	+ 1 59.0	1.398	2.335	11.8	18.3
5 11	12 57.71	+ 2 27.9	1.466	2.340	15.7	18.5

49745 1999 VM_{153} 4 10.7 295°.87 0°.2/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.58	−12 3.7	1.289	2.101	19.9	19.9
3 12	13 39.06	−11 43.4	1.190	2.080	16.2	19.5
3 22	13 34.30	−11 0.8	1.109	2.059	11.5	19.2
4 1	13 26.72	− 9 57.5	1.050	2.037	6.0	18.8
4 11	13 17.35	− 8 39.5	1.014	2.016	0.2	18.3
4 21	13 7.62	− 7 16.2	1.002	1.995	6.4	18.7
5 1	12 59.13	− 5 59.3	1.014	1.974	12.4	18.9
5 11	12 53.19	− 4 59.3	1.046	1.954	17.8	19.2

497181 2004 TX_{41} 4 10.7 238°.59 1°.1/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.75	−13 30.0	2.313	3.072	13.7	22.4
3 12	13 39.80	−13 22.1	2.202	3.059	11.1	22.2
3 22	13 33.76	−13 1.2	2.112	3.044	8.0	22.0
4 1	13 26.05	−12 28.4	2.049	3.029	4.4	21.8
4 11	13 17.38	−11 46.6	2.013	3.014	1.2	21.5
4 21	13 8.58	−11 0.0	2.007	2.998	3.9	21.7
5 1	13 0.54	−10 13.7	2.029	2.982	7.6	21.9
5 11	12 54.01	− 9 33.0	2.077	2.965	11.1	22.0

418009 2007 TD_{451} 4 10.7 235°.62 0°.9/11.5 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.46	−13 26.5	1.974	2.741	15.5	22.6
3 12	13 41.59	−13 9.5	1.864	2.726	12.6	22.4
3 22	13 35.25	−12 36.7	1.776	2.711	9.0	22.1
4 1	13 26.90	−11 49.1	1.712	2.695	4.9	21.8
4 11	13 17.36	−10 50.7	1.676	2.678	1.0	21.5
4 21	13 7.65	− 9 47.0	1.669	2.660	4.5	21.7
5 1	12 58.85	− 8 45.0	1.689	2.641	8.9	21.9
5 11	12 51.86	− 7 51.6	1.734	2.622	12.9	22.1

194145 2001 SC_{337} 4 10.7 215°.54 0°.2/10.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.92	−10 41.1	1.626	2.417	17.3	21.5
3 12	13 41.53	−10 15.6	1.534	2.412	13.9	21.2
3 22	13 35.37	− 9 33.6	1.463	2.407	9.7	21.0
4 1	13 26.98	− 8 37.8	1.416	2.402	4.9	20.7
4 11	13 17.36	− 7 33.9	1.395	2.397	0.3	20.3
4 21	13 7.71	− 6 29.3	1.401	2.391	5.4	20.7
5 1	12 59.23	− 5 32.0	1.433	2.384	10.3	20.9
5 11	12 52.89	− 4 48.6	1.488	2.377	14.6	21.2

120851 1998 OF_{12} 4 10.7 320°.02 5°.3/14.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.79	−19 49.0	1.644	2.407	18.3	19.3
3 12	13 39.47	−20 37.4	1.537	2.386	15.5	19.1
3 22	13 34.28	−21 8.9	1.448	2.365	12.1	18.8
4 1	13 26.61	−21 20.6	1.381	2.345	8.4	18.5
4 11	13 17.37	−21 12.0	1.338	2.326	5.5	18.3
4 21	13 7.76	−20 45.2	1.321	2.307	6.3	18.3
5 1	12 59.14	−20 6.1	1.328	2.289	9.9	18.5
5 11	12 52.68	−19 23.0	1.358	2.272	14.0	18.6

202062 2004 RG_{309} 4 10.7 45°.42 5°.6/14.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.46	−21 2.8	1.325	2.097	21.5	19.8
3 12	13 41.86	−21 40.7	1.252	2.106	18.0	19.5
3 22	13 35.94	−21 54.5	1.196	2.115	13.9	19.3
4 1	13 27.35	−21 41.5	1.160	2.125	9.4	19.1
4 11	13 17.36	−21 3.2	1.146	2.135	5.9	18.9
4 21	13 7.47	−20 5.4	1.158	2.146	6.6	19.0
5 1	12 59.18	−18 57.8	1.193	2.157	10.5	19.2
5 11	12 53.57	−17 51.4	1.250	2.168	14.7	19.5

142427 2002 SY_{39} 4 10.7 104°.58 3°.8/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.94	− 0 34.7	1.730	2.538	15.8	19.7
3 12	13 41.83	+ 0 5.2	1.659	2.548	12.4	19.5
3 22	13 35.22	+ 0 51.4	1.609	2.558	8.5	19.3
4 1	13 26.74	+ 1 38.4	1.584	2.568	4.9	19.1
4 11	13 17.38	+ 2 19.3	1.587	2.578	4.1	19.0
4 21	13 8.21	+ 2 48.4	1.616	2.588	7.2	19.2
5 1	13 0.26	+ 3 1.5	1.672	2.597	11.0	19.5
5 11	12 54.30	+ 2 57.0	1.750	2.607	14.4	19.7

429835 2012 PX_{36} 4 10.7 251°.34 6°.5/16.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 45.41	−26 47.6	2.178	2.875	16.2	21.4
3 12	13 41.58	−27 36.5	2.071	2.866	14.0	21.2
3 22	13 35.28	−28 7.7	1.982	2.857	11.5	21.0
4 1	13 26.94	−28 18.0	1.916	2.848	8.9	20.8
4 11	13 17.37	−28 6.2	1.875	2.838	6.9	20.6
4 21	13 7.60	−27 34.0	1.861	2.829	6.8	20.6
5 1	12 58.72	−26 45.9	1.873	2.819	8.7	20.7
5 11	12 51.65	−25 49.2	1.911	2.809	11.4	20.9

132074 2002 CQ_{160} 4 10.7 78°.89 4°.9/ 7.2 18

3 2	13 45.94	+ 0 34.8	1.452	2.273	17.6	19.7
3 12	13 42.37	+ 1 20.8	1.382	2.279	13.9	19.5
3 22	13 35.90	+ 2 13.7	1.332	2.284	9.7	19.3
4 1	13 27.19	+ 3 6.2	1.306	2.290	5.9	19.0
4 11	13 17.37	+ 3 50.0	1.306	2.295	5.3	19.0
4 21	13 7.74	+ 4 18.0	1.331	2.301	8.6	19.2
5 1	12 59.53	+ 4 25.7	1.380	2.306	12.8	19.5
5 11	12 53.63	+ 4 11.8	1.450	2.312	16.5	19.7

473266 2015 MC_{36} 4 10.7 219°.66 5°.9/ 3.7 18

3 2	13 41.18	+ 9 45.1	2.520	3.325	11.5	20.6
3 12	13 37.37	+10 44.6	2.441	3.321	9.3	20.5
3 22	13 31.81	+11 43.1	2.386	3.318	7.2	20.3
4 1	13 24.96	+12 34.7	2.358	3.314	6.0	20.2
4 11	13 17.45	+13 14.0	2.358	3.310	6.4	20.3
4 21	13 10.01	+13 37.0	2.385	3.307	8.2	20.4
5 1	13 3.33	+13 41.4	2.437	3.302	10.4	20.5
5 11	12 57.98	+13 27.2	2.511	3.298	12.6	20.6

289733 2005 JX_{28} 4 10.7 345°.50 1°.5/ 9.1 17

3 2	13 37.46	− 8 17.0	1.940	2.741	14.6	21.0
3 12	13 35.06	− 7 22.0	1.851	2.737	11.5	20.8
3 22	13 30.56	− 6 12.9	1.785	2.735	7.8	20.6
4 1	13 24.43	− 4 54.3	1.743	2.732	3.8	20.3
4 11	13 17.47	− 3 32.7	1.730	2.730	1.7	20.2
4 21	13 10.54	− 2 15.4	1.744	2.728	5.4	20.4
5 1	13 4.51	− 1 9.4	1.784	2.726	9.3	20.7
5 11	13 0.09	− 0 19.5	1.849	2.725	12.9	20.9

56745 2000 NU_{26} 4 10.7 192°.19 3°.4/14.6 18

3 2	13 41.94	−21 17.0	2.681	3.398	13.0	19.6
3 12	13 38.08	−21 27.0	2.576	3.397	10.9	19.4
3 22	13 32.39	−21 22.8	2.494	3.396	8.3	19.2
4 1	13 25.30	−21 3.9	2.436	3.394	5.7	19.0
4 11	13 17.46	−20 31.6	2.406	3.392	3.6	18.9
4 21	13 9.59	−19 48.9	2.405	3.390	4.0	18.9
5 1	13 2.43	−19 0.1	2.432	3.387	6.4	19.1
5 11	12 56.61	−18 10.4	2.486	3.384	9.1	19.2

176556 2002 AF_{134} 4 10.7 151°.57 0°.1/10.6 17

3 2	13 40.59	−10 7.6	2.870	3.635	11.2	22.1
3 12	13 36.68	− 9 43.8	2.779	3.643	8.9	21.9
3 22	13 31.22	− 9 10.8	2.711	3.649	6.1	21.8
4 1	13 24.63	− 8 31.0	2.671	3.656	3.1	21.6
4 11	13 17.49	− 7 47.4	2.660	3.662	0.2	21.3
4 21	13 10.40	− 7 3.9	2.679	3.667	3.3	21.6
5 1	13 3.97	− 6 24.1	2.727	3.673	6.3	21.8
5 11	12 58.70	− 5 51.4	2.802	3.677	9.0	22.0

433408 2013 TD_{39} 4 10.7 277°.28 0°.5/11.2 17

3 2	13 39.68	−13 50.8	1.888	2.668	15.7	21.3
3 12	13 36.94	−13 10.4	1.796	2.667	12.6	21.0
3 22	13 31.93	−12 11.9	1.725	2.665	8.9	20.8
4 1	13 25.16	−10 58.0	1.679	2.664	4.6	20.6
4 11	13 17.47	− 9 34.3	1.660	2.662	0.5	20.2
4 21	13 9.81	− 8 8.2	1.670	2.661	4.5	20.5
5 1	13 3.13	− 6 47.6	1.706	2.660	8.7	20.8
5 11	12 58.19	− 5 39.5	1.766	2.658	12.6	21.0

464536 2016 CO_{22} 4 10.7 33°.18 3°.6/ 7.8 18

3 2	13 40.88	− 4 28.7	1.401	2.226	17.9	20.7
3 12	13 38.52	− 3 25.4	1.329	2.229	14.1	20.5
3 22	13 33.32	− 2 8.1	1.278	2.233	9.6	20.2
4 1	13 25.94	− 0 43.8	1.250	2.238	5.1	20.0
4 11	13 17.45	+ 0 37.5	1.247	2.242	4.0	19.9
4 21	13 9.12	+ 1 46.3	1.270	2.248	7.9	20.1
5 1	13 2.12	+ 2 35.1	1.316	2.253	12.4	20.4
5 11	12 57.36	+ 3 0.0	1.384	2.258	16.4	20.7

433135 2012 TF_{204} 4 10.7 55°.82 1°.3/ 9.6 17

3 2	13 43.60	− 5 31.6	2.080	2.871	14.0	21.5
3 12	13 39.69	− 5 20.5	1.994	2.874	11.1	21.3
3 22	13 33.65	− 5 1.4	1.930	2.876	7.6	21.1
4 1	13 25.97	− 4 37.2	1.892	2.879	3.8	20.8
4 11	13 17.46	− 4 12.2	1.881	2.882	1.4	20.7
4 21	13 9.00	− 3 50.5	1.899	2.884	4.9	20.9
5 1	13 1.48	− 3 36.2	1.945	2.887	8.6	21.1
5 11	12 55.60	− 3 32.3	2.014	2.890	12.0	21.3

23741 Takaaki 4 10.7 226°.91 0°.9/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 44.02	− 8 51.1	1.963	2.748	15.0	19.4
3 12	13 40.33	− 8 16.3	1.863	2.739	11.9	19.2
3 22	13 34.30	− 7 27.9	1.784	2.728	8.2	18.9
4 1	13 26.40	− 6 29.2	1.730	2.718	4.1	18.6
4 11	13 17.45	− 5 25.4	1.705	2.706	1.1	18.4
4 21	13 8.42	− 4 23.2	1.708	2.694	5.1	18.6
5 1	13 0.33	− 3 28.9	1.738	2.682	9.4	18.9
5 11	12 53.99	− 2 47.9	1.793	2.669	13.2	19.1

49448 Macocha 4 10.7 11°.92 4°.2/ 8.6 18

3 2	13 44.36	+ 0 41.5	1.166	2.005	19.9	17.4
3 12	13 41.80	+ 0 41.4	1.103	2.009	15.7	17.2
3 22	13 35.87	+ 0 45.5	1.057	2.014	11.0	16.9
4 1	13 27.30	+ 0 47.9	1.034	2.021	6.1	16.7
4 11	13 17.42	+ 0 42.1	1.033	2.029	4.4	16.6
4 21	13 7.78	+ 0 23.4	1.057	2.039	8.3	16.8
5 1	12 59.83	− 0 11.2	1.103	2.050	13.1	17.1
5 11	12 54.58	− 1 2.0	1.169	2.062	17.5	17.4

309882 2009 DV_{127} 4 10.7 99°.98 0°.0/10.7 18

3 2	13 47.39	−10 23.5	1.660	2.445	17.3	21.8
3 12	13 43.10	−10 6.7	1.590	2.464	13.7	21.6
3 22	13 36.17	− 9 35.5	1.539	2.482	9.5	21.3
4 1	13 27.26	− 8 53.0	1.514	2.500	4.8	21.1
4 11	13 17.43	− 8 4.4	1.515	2.517	0.2	20.8
4 21	13 7.84	− 7 16.1	1.544	2.534	5.0	21.2
5 1	12 59.60	− 6 34.5	1.599	2.550	9.4	21.5
5 11	12 53.48	− 6 4.8	1.679	2.566	13.3	21.7

374187 2004 YY_{32} 4 10.7 135°.83 1°.8/ 8.7 17

3 2	13 42.71	− 5 30.3	2.458	3.241	12.4	21.9
3 12	13 38.53	− 4 45.1	2.378	3.255	9.7	21.8
3 22	13 32.57	− 3 51.5	2.322	3.268	6.5	21.6
4 1	13 25.33	− 2 53.4	2.294	3.280	3.3	21.4
4 11	13 17.49	− 1 55.8	2.294	3.292	1.9	21.3
4 21	13 9.76	− 1 3.5	2.325	3.303	4.7	21.5
5 1	13 2.87	− 0 20.7	2.384	3.314	7.9	21.7
5 11	12 57.35	+ 0 9.5	2.468	3.324	10.7	21.9

65063 2002 AK_{181} 4 10.7 269°.11 2°.8/13.3 17

3 2	13 44.56	−17 0.1	2.480	3.218	13.4	19.8
3 12	13 40.39	−17 27.7	2.366	3.204	11.1	19.6
3 22	13 34.18	−17 43.8	2.274	3.190	8.3	19.4
4 1	13 26.31	−17 47.8	2.207	3.176	5.3	19.2
4 11	13 17.46	−17 40.5	2.169	3.162	3.0	19.0
4 21	13 8.45	−17 24.1	2.160	3.148	4.0	19.0
5 1	13 0.13	−17 2.3	2.179	3.133	7.1	19.2
5 11	12 53.25	−16 39.7	2.224	3.119	10.2	19.4

145038 2005 EF_{295} 4 10.7 253°.11 4°.4/ 7.1 18

3 2	13 45.06	+ 0 33.6	1.754	2.564	15.5	19.9
3 12	13 41.41	+ 1 19.5	1.662	2.553	12.3	19.7
3 22	13 35.18	+ 2 12.4	1.592	2.541	8.6	19.4
4 1	13 26.89	+ 3 6.2	1.547	2.530	5.3	19.2
4 11	13 17.45	+ 3 53.7	1.529	2.517	4.8	19.1
4 21	13 7.95	+ 4 28.2	1.538	2.505	8.0	19.3
5 1	12 59.50	+ 4 44.6	1.572	2.493	11.9	19.5
5 11	12 53.01	+ 4 40.7	1.628	2.480	15.5	19.7

508515 2016 QK_{60} 4 10.7 204°.62 0°.1/10.6 17

3 2	13 38.81	−11 10.1	2.693	3.462	11.8	21.6
3 12	13 35.48	−10 34.0	2.593	3.459	9.3	21.4
3 22	13 30.53	− 9 46.8	2.517	3.456	6.5	21.2
4 1	13 24.35	− 8 50.7	2.468	3.453	3.3	21.0
4 11	13 17.55	− 7 49.7	2.447	3.450	0.2	20.7
4 21	13 10.75	− 6 48.3	2.457	3.446	3.5	21.0
5 1	13 4.62	− 5 51.4	2.495	3.442	6.8	21.2
5 11	12 59.68	− 5 2.9	2.560	3.438	9.7	21.4

297253 1995 QN_{14} 4 10.7 158°.97 0°.3/10.3 18

3 2	13 39.17	−10 38.6	2.567	3.340	12.2	21.1
3 12	13 35.81	− 9 57.7	2.474	3.343	9.6	20.9
3 22	13 30.76	− 9 5.4	2.405	3.346	6.6	20.7
4 1	13 24.47	− 8 4.4	2.363	3.349	3.3	20.5
4 11	13 17.55	− 6 59.2	2.349	3.351	0.4	20.3
4 21	13 10.68	− 5 54.6	2.366	3.353	3.8	20.5
5 1	13 4.52	− 4 55.6	2.411	3.356	7.0	20.8
5 11	12 59.64	− 4 6.4	2.482	3.357	10.0	21.0

409171 2003 UF_{229} 4 10.7 119°.38 2°.0/12.5 18

3 2	13 46.02	−16 22.5	1.885	2.642	16.5	21.9
3 12	13 41.84	−16 10.6	1.805	2.658	13.4	21.7
3 22	13 35.23	−15 41.1	1.746	2.674	9.7	21.5
4 1	13 26.80	−14 55.3	1.711	2.689	5.6	21.3
4 11	13 17.49	−13 57.3	1.704	2.703	2.1	21.1
4 21	13 8.34	−12 52.9	1.725	2.717	4.3	21.2
5 1	13 0.37	−11 49.3	1.773	2.730	8.2	21.5
5 11	12 54.32	−10 53.0	1.847	2.743	11.9	21.7

270312 2001 WP_{84} 4 10.7 106°.06 0°.7/11.4 14 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 43.34	−13 25.1	1.973	2.744	15.4	22.0
3 12	13 39.56	−12 58.0	1.895	2.759	12.3	21.8
3 22	13 33.57	−12 15.4	1.837	2.774	8.6	21.6
4 1	13 25.93	−11 19.8	1.805	2.789	4.6	21.4
4 11	13 17.51	−10 16.3	1.801	2.803	0.7	21.1
4 21	13 9.25	− 9 10.8	1.825	2.817	4.2	21.4
5 1	13 2.05	− 8 9.8	1.877	2.830	8.1	21.7
5 11	12 56.60	− 7 19.0	1.954	2.843	11.7	21.9

342899 2008 YW_{113} 4 10.7 174°.90 1°.4/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.71	− 6 2.0	2.329	3.116	12.8	21.1
3 12	13 37.98	− 5 31.0	2.239	3.117	10.1	20.9
3 22	13 32.36	− 4 51.3	2.172	3.118	6.9	20.7
4 1	13 25.31	− 4 6.1	2.131	3.118	3.4	20.4
4 11	13 17.53	− 3 20.0	2.119	3.119	1.6	20.3
4 21	13 9.79	− 2 37.8	2.136	3.119	4.7	20.5
5 1	13 2.86	− 2 3.7	2.181	3.119	8.1	20.7
5 11	12 57.35	− 1 41.1	2.251	3.119	11.2	20.9

214908 2007 TS_{163} 4 10.7 121°.42 0°.5/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.94	− 9 16.7	1.818	2.601	16.1	21.3
3 12	13 42.55	− 8 52.6	1.742	2.616	12.7	21.1
3 22	13 35.71	− 8 15.7	1.688	2.631	8.8	20.9
4 1	13 27.04	− 7 29.1	1.658	2.645	4.3	20.7
4 11	13 17.49	− 6 38.2	1.657	2.658	0.6	20.4
4 21	13 8.12	− 5 48.9	1.683	2.671	4.9	20.8
5 1	12 59.95	− 5 7.3	1.737	2.684	9.2	21.1
5 11	12 53.73	− 4 37.8	1.815	2.695	12.8	21.3

8119 1997 TP_{25} 4 10.7 143°.64 0°.2/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.76	− 9 54.1	2.601	3.370	12.1	18.8
3 12	13 37.77	− 9 28.9	2.512	3.378	9.6	18.7
3 22	13 32.07	− 8 53.8	2.447	3.387	6.6	18.5
4 1	13 25.11	− 8 11.3	2.409	3.395	3.3	18.3
4 11	13 17.54	− 7 25.0	2.400	3.402	0.3	18.0
4 21	13 10.04	− 6 39.0	2.421	3.410	3.6	18.3
5 1	13 3.29	− 5 57.7	2.471	3.416	6.9	18.5
5 11	12 57.84	− 5 24.5	2.547	3.423	9.8	18.7

265760 2005 VW_{111} 4 10.7 215°.71 0°.5/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.42	− 8 32.1	2.055	2.837	14.5	21.3
3 12	13 40.50	− 8 17.0	1.959	2.833	11.5	21.1
3 22	13 34.33	− 7 51.0	1.885	2.828	8.0	20.9
4 1	13 26.41	− 7 16.5	1.836	2.823	4.0	20.6
4 11	13 17.52	− 6 37.7	1.816	2.818	0.6	20.4
4 21	13 8.61	− 5 59.6	1.824	2.812	4.6	20.7
5 1	13 0.62	− 5 27.3	1.859	2.806	8.7	20.9
5 11	12 54.31	− 5 4.9	1.919	2.800	12.3	21.1

141061 2001 XN_{9} 4 10.7 101°.06 0°.6/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.34	−11 41.5	2.510	3.273	12.7	20.3
3 12	13 38.27	−11 32.1	2.427	3.288	10.1	20.2
3 22	13 32.44	−11 12.3	2.367	3.302	7.0	20.0
4 1	13 25.31	−10 43.9	2.333	3.316	3.7	19.8
4 11	13 17.56	−10 10.0	2.329	3.330	0.6	19.6
4 21	13 9.91	− 9 34.2	2.353	3.344	3.4	19.8
5 1	13 3.06	− 9 0.8	2.407	3.358	6.7	20.0
5 11	12 57.59	− 8 33.5	2.486	3.371	9.6	20.2

115612 2003 UK_{103} 4 10.7 89°.60 2°.3/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.73	− 5 10.4	1.606	2.411	16.9	20.0
3 12	13 41.86	− 4 33.6	1.538	2.426	13.3	19.8
3 22	13 35.35	− 3 45.8	1.491	2.441	9.0	19.6
4 1	13 26.89	− 2 52.2	1.469	2.456	4.6	19.4
4 11	13 17.51	− 1 59.7	1.473	2.471	2.6	19.3
4 21	13 8.38	− 1 15.0	1.504	2.486	6.3	19.6
5 1	13 0.57	− 0 43.8	1.561	2.500	10.6	19.8
5 11	12 54.86	− 0 29.4	1.640	2.515	14.3	20.1

468775 2011 UQ_{89} 4 10.7 226°.84 3°.3/15.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.10	−23 38.4	3.054	3.754	11.9	22.0
3 12	13 36.47	−23 29.2	2.936	3.743	10.0	21.9
3 22	13 31.22	−23 5.0	2.839	3.731	7.8	21.7
4 1	13 24.74	−22 25.5	2.768	3.720	5.4	21.5
4 11	13 17.58	−21 32.3	2.725	3.707	3.5	21.4
4 21	13 10.38	−20 28.5	2.711	3.695	3.7	21.4
5 1	13 3.78	−19 18.4	2.727	3.681	5.8	21.5
5 11	12 58.33	−18 7.5	2.771	3.668	8.3	21.6

191822 2004 TY_{361} 4 10.7 270°.27 5°.6/ 4.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.33	+ 2 4.1	1.916	2.735	14.0	20.1
3 12	13 36.63	+ 3 38.8	1.829	2.724	11.1	19.9
3 22	13 31.73	+ 5 21.8	1.765	2.713	8.0	19.7
4 1	13 25.11	+ 7 5.3	1.727	2.702	5.8	19.5
4 11	13 17.57	+ 8 39.9	1.716	2.691	6.2	19.5
4 21	13 10.00	+ 9 57.6	1.733	2.680	9.0	19.6
5 1	13 3.34	+10 52.5	1.775	2.668	12.3	19.8
5 11	12 58.34	+11 22.0	1.837	2.657	15.3	20.0

374381 2005 UQ_{432} 4 10.7 68°.76 0°.6/10.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 42.04	− 9 28.4	1.796	2.589	15.8	21.7
3 12	13 38.86	− 9 1.1	1.713	2.593	12.6	21.5
3 22	13 33.30	− 8 19.9	1.650	2.596	8.7	21.3
4 1	13 25.89	− 7 28.3	1.612	2.600	4.3	21.0
4 11	13 17.55	− 6 31.8	1.601	2.603	0.7	20.7
4 21	13 9.28	− 5 36.7	1.618	2.607	5.0	21.0
5 1	13 2.07	− 4 49.5	1.661	2.610	9.3	21.3
5 11	12 56.72	− 4 15.2	1.727	2.614	13.1	21.5

479207 2013 CM_{124} 4 10.7 271°.89 6°.2/17.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.64	−28 51.0	2.551	3.228	14.5	20.7
3 12	13 39.00	−29 31.6	2.444	3.222	12.6	20.5
3 22	13 33.28	−29 55.3	2.356	3.216	10.5	20.4
4 1	13 25.89	−29 59.6	2.291	3.211	8.3	20.2
4 11	13 17.55	−29 43.8	2.251	3.205	6.6	20.1
4 21	13 9.09	−29 9.8	2.238	3.199	6.3	20.1
5 1	13 1.39	−28 21.4	2.252	3.193	7.7	20.1
5 11	12 55.21	−27 24.8	2.292	3.188	9.9	20.3

234356 2001 HD_{65} 4 10.7 321°.61 0°.2/10.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.99	−10 13.5	1.757	2.555	15.9	20.6
3 12	13 36.72	− 9 53.7	1.658	2.541	12.8	20.4
3 22	13 32.01	− 9 19.0	1.580	2.527	8.9	20.1
4 1	13 25.35	− 8 32.1	1.526	2.513	4.5	19.8
4 11	13 17.57	− 7 38.0	1.498	2.500	0.3	19.4
4 21	13 9.67	− 6 42.9	1.496	2.487	5.0	19.8
5 1	13 2.74	− 5 53.9	1.521	2.475	9.6	20.0
5 11	12 57.63	− 5 16.9	1.568	2.464	13.7	20.2

158499 2002 EJ_{48} 4 10.7 183°.95 2°.4/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.94	− 6 16.7	2.024	2.822	14.1	20.2
3 12	13 36.90	− 5 8.3	1.937	2.823	11.1	20.0
3 22	13 31.79	− 3 47.3	1.873	2.823	7.5	19.8
4 1	13 25.09	− 2 18.8	1.835	2.822	3.9	19.5
4 11	13 17.58	− 0 50.1	1.825	2.822	2.6	19.4
4 21	13 10.12	+ 0 31.5	1.844	2.821	5.9	19.6
5 1	13 3.58	+ 1 39.4	1.890	2.821	9.6	19.9
5 11	12 58.62	+ 2 29.3	1.960	2.820	12.9	20.1

196245 2003 DB_{9} 4 10.7 142°.64 0°.6/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 48.70	− 8 42.1	1.651	2.439	17.2	21.2
3 12	13 44.32	− 8 27.8	1.571	2.447	13.7	21.0
3 22	13 37.17	− 8 0.5	1.511	2.456	9.5	20.8
4 1	13 27.88	− 7 23.1	1.476	2.463	4.7	20.5
4 11	13 17.51	− 6 40.9	1.468	2.470	0.7	20.2
4 21	13 7.26	− 5 59.9	1.488	2.477	5.4	20.6
5 1	12 58.31	− 5 26.4	1.534	2.483	10.0	20.9
5 11	12 51.54	− 5 5.2	1.604	2.488	14.0	21.1

463607 2013 SS_{67} 4 10.7 113°.62 0°.1/10.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.82	−13 26.8	1.893	2.674	15.6	20.6
3 12	13 36.99	−12 27.7	1.806	2.678	12.4	20.4
3 22	13 31.93	−11 9.7	1.741	2.682	8.6	20.1
4 1	13 25.18	− 9 36.8	1.701	2.686	4.4	19.9
4 11	13 17.58	− 7 55.5	1.688	2.690	0.2	19.5
4 21	13 10.07	− 6 14.4	1.705	2.694	4.7	19.9
5 1	13 3.57	− 4 41.7	1.748	2.698	8.9	20.2
5 11	12 58.79	− 3 24.4	1.817	2.702	12.6	20.4

131357 2001 JM_{8} 4 10.8 230°.37 1°.5/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.80	− 4 36.7	2.658	3.437	11.6	20.2
3 12	13 39.47	− 4 15.4	2.551	3.424	9.2	20.0
3 22	13 33.35	− 3 47.3	2.467	3.411	6.3	19.8
4 1	13 25.84	− 3 15.3	2.411	3.398	3.2	19.6
4 11	13 17.57	− 2 43.0	2.385	3.383	1.7	19.4
4 21	13 9.23	− 2 14.1	2.388	3.369	4.4	19.6
5 1	13 1.55	− 1 52.2	2.420	3.354	7.6	19.8
5 11	12 55.14	− 1 40.1	2.478	3.338	10.6	20.0

427909 2005 UF_{238} 4 10.8 206°.73 2°.7/ 8.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.98	− 3 32.1	1.953	2.754	14.5	21.9
3 12	13 39.41	− 2 50.2	1.865	2.752	11.4	21.7
3 22	13 33.58	− 1 59.2	1.800	2.749	7.8	21.4
4 1	13 26.03	− 1 3.9	1.760	2.747	4.2	21.2
4 11	13 17.57	− 0 10.2	1.749	2.744	3.0	21.1
4 21	13 9.13	+ 0 35.7	1.764	2.741	6.2	21.3
5 1	13 1.67	+ 1 8.7	1.807	2.738	9.9	21.5
5 11	12 55.91	+ 1 25.5	1.873	2.735	13.3	21.7

397798 2008 PD 4 10.8 245°.91 2°.0/ 9.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.90	− 6 32.3	1.697	2.493	16.5	22.4
3 12	13 43.18	− 5 55.4	1.593	2.475	13.2	22.1
3 22	13 36.66	− 5 4.6	1.508	2.456	9.2	21.9
4 1	13 27.80	− 4 3.6	1.449	2.437	4.6	21.5
4 11	13 17.52	− 2 58.9	1.417	2.416	2.2	21.3
4 21	13 7.00	− 1 58.3	1.412	2.395	6.5	21.5
5 1	12 57.51	− 1 9.3	1.433	2.373	11.3	21.8
5 11	12 50.09	− 0 37.6	1.477	2.350	15.7	22.0

1707 Chantal 4 10.8 139°.39 0°.7/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 49.17	−11 56.0	1.723	2.497	17.2	16.6
3 12	13 44.59	−11 48.5	1.642	2.509	13.8	16.4
3 22	13 37.30	−11 26.0	1.582	2.520	9.7	16.2
4 1	13 27.93	−10 50.4	1.546	2.530	5.1	15.9
4 11	13 17.52	−10 6.1	1.538	2.539	0.7	15.6
4 21	13 7.25	− 9 19.0	1.557	2.548	4.8	15.9
5 1	12 58.25	− 8 35.6	1.604	2.556	9.3	16.2
5 11	12 51.39	− 8 1.8	1.675	2.564	13.3	16.5

512443 2016 QV_{14} 4 10.8 244°.44 1°.0/ 9.6 17

3 2	13 40.50	− 7 40.8	2.588	3.367	11.9	22.0
3 12	13 36.95	− 7 8.1	2.480	3.354	9.4	21.8
3 22	13 31.65	− 6 25.9	2.396	3.340	6.5	21.6
4 1	13 25.00	− 5 36.8	2.339	3.326	3.2	21.4
4 11	13 17.60	− 4 44.9	2.311	3.312	1.1	21.2
4 21	13 10.14	− 3 54.7	2.313	3.298	4.2	21.4
5 1	13 3.33	− 3 10.7	2.343	3.283	7.5	21.6
5 11	12 57.78	− 2 36.7	2.399	3.268	10.5	21.7

462219 2007 VW_{321} 4 10.8 166°.54 3°.2/13.7 16

3 2	13 46.67	−19 9.9	1.978	2.719	16.3	22.0
3 12	13 42.46	−19 15.5	1.885	2.723	13.5	21.8
3 22	13 35.79	−19 3.2	1.811	2.727	10.1	21.6
4 1	13 27.18	−18 32.6	1.762	2.731	6.4	21.4
4 11	13 17.54	−17 46.0	1.740	2.734	3.5	21.2
4 21	13 7.92	−16 48.2	1.746	2.736	4.6	21.3
5 1	12 59.37	−15 45.8	1.780	2.737	8.2	21.5
5 11	12 52.71	−14 46.2	1.839	2.738	11.8	21.7

28294 1999 CS_{59} 4 10.8 138°.63 4°.1/15.4 18 R

3 2	13 40.88	−23 34.9	2.296	3.015	14.9	18.4
3 12	13 37.60	−23 35.9	2.199	3.018	12.5	18.3
3 22	13 32.26	−23 18.2	2.122	3.020	9.8	18.1
4 1	13 25.34	−22 41.4	2.068	3.023	6.8	17.9
4 11	13 17.60	−21 47.2	2.042	3.025	4.4	17.7
4 21	13 9.87	−20 40.0	2.043	3.027	4.6	17.8
5 1	13 3.02	−19 25.6	2.072	3.030	7.2	17.9
5 11	12 57.72	−18 11.2	2.127	3.032	10.1	18.1

503105 2015 FL_{316} 4 10.8 213°.18 2°.0/ 8.9 17

3 2	13 43.76	− 3 27.6	2.200	2.992	13.3	20.9
3 12	13 39.74	− 3 8.9	2.109	2.990	10.5	20.7
3 22	13 33.67	− 2 43.5	2.042	2.989	7.2	20.5
4 1	13 26.04	− 2 15.0	2.000	2.987	3.7	20.2
4 11	13 17.59	− 1 47.6	1.987	2.985	2.2	20.1
4 21	13 9.16	− 1 25.5	2.003	2.983	5.2	20.3
5 1	13 1.59	− 1 12.5	2.046	2.981	8.7	20.5
5 11	12 55.57	− 1 11.1	2.113	2.979	11.9	20.7

337608 2001 TB_{14} 4 10.8 155°.70 2°.1/ 8.3 18

3 2	13 43.05	− 1 59.7	2.852	3.635	10.8	21.6
3 12	13 38.58	− 1 33.6	2.766	3.642	8.5	21.4
3 22	13 32.55	− 1 2.9	2.704	3.648	5.8	21.2
4 1	13 25.36	− 0 30.8	2.670	3.655	3.1	21.1
4 11	13 17.62	− 0 0.8	2.666	3.660	2.3	21.0
4 21	13 9.94	+ 0 23.6	2.692	3.666	4.5	21.2
5 1	13 2.95	+ 0 39.7	2.746	3.671	7.2	21.3
5 11	12 57.16	+ 0 45.6	2.827	3.675	9.8	21.5

110447 2001 TB_{38} 4 10.8 80°.35 4°.0/14.4 18

3 2	13 44.61	−20 56.3	1.841	2.583	17.3	19.4
3 12	13 40.90	−21 7.6	1.764	2.601	14.4	19.2
3 22	13 34.69	−20 59.0	1.706	2.618	10.9	19.0
4 1	13 26.59	−20 30.1	1.671	2.635	7.2	18.8
4 11	13 17.58	−19 43.3	1.663	2.652	4.3	18.7
4 21	13 8.73	−18 44.0	1.681	2.669	5.0	18.8
5 1	13 1.08	−17 39.2	1.727	2.686	8.2	19.0
5 11	12 55.40	−16 36.7	1.797	2.703	11.6	19.2

523542 2017 SN_{30} 4 10.8 321°.62 2°.0/ 8.8 17

3 2	13 42.67	− 3 0.9	2.287	3.080	12.9	21.6
3 12	13 38.79	− 2 43.7	2.197	3.078	10.1	21.4
3 22	13 32.97	− 2 20.6	2.130	3.077	6.9	21.2
4 1	13 25.67	− 1 54.8	2.089	3.076	3.6	21.0
4 11	13 17.61	− 1 30.5	2.077	3.074	2.2	20.9
4 21	13 9.57	− 1 11.5	2.093	3.073	5.1	21.1
5 1	13 2.35	− 1 1.4	2.137	3.072	8.4	21.3
5 11	12 56.60	− 1 2.6	2.206	3.071	11.5	21.5

144812 2004 JX 4 10.8 260°.02 1°.7/12.7 17

3 2	13 39.10	−16 41.3	2.366	3.120	13.6	20.4
3 12	13 36.06	−16 20.9	2.266	3.118	11.1	20.2
3 22	13 31.12	−15 45.2	2.188	3.115	8.0	20.0
4 1	13 24.76	−14 55.4	2.135	3.112	4.7	19.8
4 11	13 17.63	−13 54.9	2.111	3.109	1.8	19.6
4 21	13 10.50	−12 48.5	2.114	3.107	3.6	19.7
5 1	13 4.15	−11 41.9	2.147	3.104	7.0	19.9
5 11	12 59.20	−10 40.9	2.205	3.101	10.2	20.1

246472 2007 WE_{15} 4 10.8 119°.22 2°.1/ 8.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 41.45	− 3 49.2	2.345	3.137	12.6	21.1
3 12	13 37.72	− 3 14.8	2.262	3.143	9.9	20.9
3 22	13 32.15	− 2 33.3	2.202	3.150	6.7	20.7
4 1	13 25.22	− 1 48.4	2.169	3.156	3.5	20.5
4 11	13 17.62	− 1 5.0	2.165	3.162	2.3	20.4
4 21	13 10.10	− 0 27.4	2.190	3.168	5.0	20.6
5 1	13 3.40	+ 0 0.3	2.242	3.173	8.3	20.8
5 11	12 58.11	+ 0 15.7	2.319	3.179	11.2	21.0

308372 2005 RW_{7} 4 10.8 214°.49 0°.1/10.6 18

3 2	13 39.72	−10 20.1	3.280	4.039	10.0	22.2
3 12	13 35.91	− 9 51.5	3.170	4.030	8.0	22.0
3 22	13 30.70	− 9 14.1	3.084	4.021	5.5	21.8
4 1	13 24.45	− 8 30.0	3.026	4.011	2.8	21.6
4 11	13 17.64	− 7 42.0	2.998	4.000	0.2	21.3
4 21	13 10.81	− 6 53.5	3.001	3.989	3.0	21.6
5 1	13 4.49	− 6 8.1	3.033	3.977	5.8	21.8
5 11	12 59.17	− 5 29.0	3.093	3.965	8.4	21.9

112835 2002 QL_{17} 4 10.8 162°.65 2°.1/12.8 18

3 2	13 46.60	−15 27.8	2.511	3.250	13.3	20.8
3 12	13 41.80	−15 46.9	2.413	3.254	10.8	20.7
3 22	13 35.01	−15 54.8	2.338	3.258	7.9	20.5
4 1	13 26.71	−15 51.5	2.289	3.262	4.8	20.3
4 11	13 17.59	−15 38.4	2.269	3.265	2.2	20.1
4 21	13 8.46	−15 18.4	2.278	3.268	3.7	20.2
5 1	13 0.13	−14 55.2	2.317	3.271	6.8	20.4
5 11	12 53.27	−14 33.0	2.382	3.273	9.8	20.6

396259 2014 CN_{11} 4 10.8 296°.59 1°.1/ 9.6 17

3 2	13 40.31	− 7 2.7	2.192	2.983	13.4	20.9
3 12	13 37.12	− 6 36.8	2.096	2.976	10.6	20.6
3 22	13 31.92	− 6 1.0	2.022	2.969	7.3	20.4
4 1	13 25.19	− 5 18.3	1.974	2.962	3.6	20.2
4 11	13 17.62	− 4 33.3	1.954	2.955	1.3	20.0
4 21	13 10.03	− 3 50.9	1.962	2.948	4.7	20.2
5 1	13 3.25	− 3 16.0	1.998	2.941	8.4	20.4
5 11	12 57.94	− 2 52.3	2.058	2.934	11.7	20.6

434907 2006 TS_{45} 4 10.8 199°.11 2°.0/ 8.6 17

3 2	13 42.55	− 2 42.2	2.719	3.503	11.3	21.9
3 12	13 38.36	− 2 19.1	2.624	3.501	8.8	21.7
3 22	13 32.51	− 1 50.9	2.552	3.498	6.1	21.5
4 1	13 25.39	− 1 20.4	2.509	3.494	3.2	21.3
4 11	13 17.63	− 0 51.4	2.495	3.491	2.1	21.2
4 21	13 9.88	− 0 27.5	2.510	3.487	4.6	21.4
5 1	13 2.81	− 0 11.6	2.554	3.483	7.5	21.6
5 11	12 56.98	− 0 6.0	2.624	3.478	10.2	21.8

498631 2008 RO_{134} 4 10.8 173°.46 1°.5/ 9.0 17

3 2	13 42.60	− 5 53.3	2.564	3.344	12.0	22.7
3 12	13 38.49	− 5 15.4	2.472	3.347	9.4	22.5
3 22	13 32.62	− 4 29.1	2.405	3.349	6.4	22.3
4 1	13 25.46	− 3 37.8	2.365	3.351	3.2	22.1
4 11	13 17.64	− 2 46.0	2.354	3.353	1.7	22.0
4 21	13 9.86	− 1 58.1	2.373	3.354	4.5	22.2
5 1	13 2.82	− 1 18.3	2.421	3.354	7.6	22.4
5 11	12 57.11	− 0 49.8	2.494	3.354	10.5	22.6

508322 2015 LT_{22} 4 10.8 297°.72 5°.7/ 4.7 17

3 2	13 40.82	+ 6 59.7	2.240	3.051	12.5	21.3
3 12	13 37.43	+ 7 55.7	2.154	3.041	10.0	21.1
3 22	13 32.08	+ 8 52.6	2.091	3.031	7.5	21.0
4 1	13 25.25	+ 9 44.6	2.055	3.021	5.8	20.8
4 11	13 17.64	+10 25.5	2.046	3.012	6.1	20.8
4 21	13 10.04	+10 50.4	2.063	3.002	8.2	20.9
5 1	13 3.25	+10 56.4	2.106	2.993	10.9	21.1
5 11	12 57.92	+10 42.9	2.172	2.984	13.5	21.2

522752 2016 MU_{4} 4 10.8 171°.04 3°.4/ 6.4 17

3 2	13 38.26	− 1 42.7	2.378	3.180	12.1	21.3
3 12	13 35.24	− 0 25.4	2.293	3.181	9.5	21.1
3 22	13 30.46	+ 0 59.8	2.233	3.182	6.5	21.0
4 1	13 24.39	+ 2 27.4	2.200	3.182	3.9	20.8
4 11	13 17.66	+ 3 50.9	2.196	3.183	3.8	20.8
4 21	13 10.99	+ 5 4.1	2.221	3.183	6.3	20.9
5 1	13 5.06	+ 6 2.3	2.274	3.183	9.2	21.1
5 11	13 0.46	+ 6 42.5	2.350	3.184	12.0	21.3

56999 2000 SD_{317} 4 10.8 62°.53 6°.8/18.1 18

3 2	13 43.00	−30 15.1	2.408	3.080	15.4	19.9
3 12	13 39.41	−30 57.5	2.310	3.081	13.5	19.7
3 22	13 33.63	−31 21.2	2.229	3.083	11.2	19.6
4 1	13 26.11	−31 23.4	2.171	3.085	9.0	19.4
4 11	13 17.62	−31 3.5	2.138	3.086	7.2	19.3
4 21	13 9.07	−30 23.5	2.130	3.088	6.8	19.3
5 1	13 1.39	−29 27.8	2.150	3.089	8.1	19.4
5 11	12 55.34	−28 23.2	2.195	3.091	10.3	19.5

141122 2001 XC_{82} 4 10.8 359°.71 5°.6/ 5.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 41.18	+ 6 34.5	2.143	2.956	13.0	19.5
3 12	13 37.73	+ 7 28.8	2.067	2.955	10.3	19.3
3 22	13 32.28	+ 8 23.9	2.014	2.955	7.7	19.1
4 1	13 25.34	+ 9 13.7	1.986	2.955	5.8	19.0
4 11	13 17.66	+ 9 51.9	1.986	2.955	6.1	19.0
4 21	13 10.07	+10 14.1	2.013	2.955	8.2	19.1
5 1	13 3.37	+10 17.4	2.065	2.955	10.9	19.3
5 11	12 58.20	+10 1.4	2.138	2.956	13.5	19.5

471474 2011 UT_{341} 4 10.8 174°.43 0°.2/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.55	−10 1.0	2.704	3.469	11.8	22.3
3 12	13 38.41	− 9 55.9	2.608	3.470	9.4	22.1
3 22	13 32.57	− 9 42.1	2.534	3.471	6.6	21.9
4 1	13 25.45	− 9 21.4	2.488	3.472	3.4	21.7
4 11	13 17.67	− 8 56.2	2.471	3.473	0.2	21.4
4 21	13 9.89	− 8 30.0	2.483	3.473	3.4	21.7
5 1	13 2.80	− 8 6.2	2.525	3.473	6.6	21.9
5 11	12 56.98	− 7 48.0	2.593	3.473	9.5	22.1

503870 2000 QW_{225} 4 10.8 246°.03 2°.6/13.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.35	−17 49.2	2.400	3.135	13.9	22.9
3 12	13 41.18	−17 54.2	2.278	3.115	11.5	22.7
3 22	13 34.86	−17 45.1	2.178	3.095	8.6	22.4
4 1	13 26.78	−17 21.2	2.104	3.074	5.4	22.2
4 11	13 17.63	−16 44.3	2.057	3.052	2.8	22.0
4 21	13 8.28	−15 57.6	2.039	3.029	4.0	22.0
5 1	12 59.62	−15 6.2	2.051	3.006	7.4	22.2
5 11	12 52.47	−14 16.0	2.088	2.982	10.8	22.4

294379 2007 VW_{135} 4 10.8 149°.39 6°.5/18.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.00	−31 54.8	2.642	3.294	14.5	20.7
3 12	13 39.19	−32 25.5	2.542	3.299	12.8	20.6
3 22	13 33.34	−32 37.5	2.461	3.303	10.7	20.4
4 1	13 25.92	−32 28.4	2.402	3.307	8.6	20.3
4 11	13 17.66	−31 58.0	2.368	3.310	7.0	20.2
4 21	13 9.37	−31 8.3	2.361	3.314	6.5	20.2
5 1	13 1.92	−30 3.9	2.381	3.317	7.6	20.2
5 11	12 55.99	−28 51.3	2.427	3.320	9.5	20.4

215384 2002 CT_{47} 4 10.8 96°.98 3°.2/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.57	− 1 28.8	2.428	3.230	11.9	20.6
3 12	13 35.39	− 0 23.5	2.350	3.237	9.3	20.4
3 22	13 30.52	+ 0 48.4	2.296	3.245	6.4	20.3
4 1	13 24.41	+ 2 1.9	2.269	3.252	3.8	20.1
4 11	13 17.71	+ 3 11.0	2.271	3.259	3.5	20.1
4 21	13 11.09	+ 4 10.6	2.302	3.266	5.9	20.2
5 1	13 5.23	+ 4 56.4	2.360	3.273	8.8	20.4
5 11	13 0.66	+ 5 26.0	2.442	3.280	11.4	20.6

519685 2013 AA_{121} 4 10.8 192°.14 3°.4/14.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.38	−22 5.1	2.704	3.418	13.0	22.1
3 12	13 37.67	−22 7.5	2.599	3.417	10.9	21.9
3 22	13 32.17	−21 54.7	2.515	3.415	8.4	21.7
4 1	13 25.30	−21 26.6	2.457	3.413	5.7	21.6
4 11	13 17.69	−20 44.6	2.426	3.411	3.6	21.4
4 21	13 10.07	−19 52.1	2.424	3.409	4.0	21.4
5 1	13 3.15	−18 53.6	2.450	3.406	6.3	21.6
5 11	12 57.55	−17 54.6	2.504	3.403	9.0	21.8

338775 2003 UJ_{267} 4 10.8 202°.05 1°.9/ 8.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.88	− 3 27.9	2.678	3.459	11.5	21.8
3 12	13 39.47	− 3 0.0	2.579	3.454	9.1	21.7
3 22	13 33.32	− 2 26.0	2.504	3.449	6.2	21.5
4 1	13 25.85	− 1 49.0	2.457	3.443	3.2	21.3
4 11	13 17.68	− 1 12.9	2.440	3.436	2.1	21.2
4 21	13 9.51	− 0 41.5	2.452	3.429	4.6	21.3
5 1	13 2.02	− 0 18.3	2.493	3.422	7.7	21.5
5 11	12 55.81	− 0 5.9	2.560	3.414	10.5	21.7

309854 2009 DF_{35} 4 10.8 84°.34 0°.8/10.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.72	− 9 36.7	1.531	2.330	17.9	20.8
3 12	13 41.27	− 9 1.3	1.462	2.345	14.1	20.6
3 22	13 35.09	− 8 9.9	1.413	2.361	9.7	20.4
4 1	13 26.85	− 7 7.1	1.388	2.376	4.8	20.1
4 11	13 17.66	− 5 59.8	1.390	2.391	1.0	19.9
4 21	13 8.69	− 4 55.9	1.418	2.406	5.6	20.2
5 1	13 1.10	− 4 2.9	1.472	2.421	10.2	20.5
5 11	12 55.69	− 3 26.0	1.548	2.436	14.2	20.8

306682 2000 UN_{14} 4 10.8 152°.62 3°.5/13.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.70	−19 6.5	1.799	2.548	17.4	20.8
3 12	13 42.77	−19 17.8	1.710	2.554	14.4	20.6
3 22	13 36.17	−19 10.1	1.641	2.559	10.8	20.4
4 1	13 27.47	−18 42.9	1.595	2.564	6.9	20.2
4 11	13 17.64	−17 58.3	1.575	2.568	3.8	20.0
4 21	13 7.84	−17 1.4	1.582	2.572	4.9	20.1
5 1	12 59.22	−15 59.5	1.617	2.576	8.7	20.3
5 11	12 52.67	−15 0.5	1.676	2.579	12.5	20.5

192838 1999 VQ_{130} 4 10.8 105°.35 0°.7/10.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 44.12	− 7 53.7	2.071	2.855	14.3	21.4
3 12	13 40.11	− 7 37.9	1.990	2.865	11.3	21.2
3 22	13 33.96	− 7 12.1	1.930	2.874	7.8	21.0
4 1	13 26.21	− 6 39.2	1.897	2.883	3.9	20.7
4 11	13 17.67	− 6 3.2	1.891	2.892	0.8	20.5
4 21	13 9.24	− 5 29.1	1.914	2.901	4.5	20.8
5 1	13 1.77	− 5 1.4	1.964	2.910	8.3	21.1
5 11	12 55.97	− 4 43.6	2.039	2.919	11.7	21.3

69065 2003 AY_{11} 4 10.8 13°.72 5°.0/ 5.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 37.68	+ 1 54.8	2.005	2.824	13.5	19.1
3 12	13 35.13	+ 3 18.1	1.930	2.825	10.6	19.0
3 22	13 30.57	+ 4 47.6	1.878	2.827	7.5	18.8
4 1	13 24.52	+ 6 15.9	1.853	2.829	5.3	18.6
4 11	13 17.72	+ 7 35.3	1.855	2.832	5.6	18.7
4 21	13 11.00	+ 8 39.0	1.884	2.835	8.1	18.8
5 1	13 5.17	+ 9 22.3	1.938	2.838	11.1	19.0
5 11	13 0.88	+ 9 43.5	2.014	2.841	13.9	19.2

432254 2009 RO_{42} 4 10.8 128°.89 0°.6/11.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.08	−14 42.3	2.135	2.898	14.6	21.7
3 12	13 38.47	−13 57.0	2.050	2.910	11.7	21.5
3 22	13 32.80	−12 55.2	1.986	2.921	8.2	21.3
4 1	13 25.61	−11 39.5	1.949	2.932	4.4	21.1
4 11	13 17.69	−10 15.3	1.940	2.942	0.7	20.8
4 21	13 9.90	− 8 49.2	1.961	2.952	4.0	21.1
5 1	13 3.06	− 7 28.2	2.010	2.962	7.8	21.3
5 11	12 57.81	− 6 18.3	2.085	2.971	11.2	21.6

133050 2003 DB_{17} 4 10.8 326°.00 2°.3/ 8.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.16	− 5 32.8	1.523	2.340	17.1	19.9
3 12	13 37.99	− 5 0.8	1.433	2.329	13.5	19.6
3 22	13 33.11	− 4 15.7	1.364	2.317	9.3	19.3
4 1	13 26.02	− 3 22.4	1.318	2.307	4.7	19.0
4 11	13 17.68	− 2 27.7	1.297	2.296	2.5	18.8
4 21	13 9.27	− 1 39.3	1.302	2.287	6.7	19.1
5 1	13 1.98	− 1 4.2	1.331	2.278	11.4	19.3
5 11	12 56.78	− 0 47.3	1.382	2.269	15.7	19.5

309890 2009 DA_{139} 4 10.8 274°.60 0°.7/11.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.73	−11 2.5	2.437	3.202	13.0	21.3
3 12	13 39.77	−11 7.9	2.322	3.183	10.5	21.1
3 22	13 33.80	−11 3.8	2.228	3.163	7.4	20.9
4 1	13 26.22	−10 51.0	2.161	3.143	4.0	20.6
4 11	13 17.68	−10 31.9	2.122	3.123	0.7	20.3
4 21	13 8.98	−10 9.7	2.112	3.103	3.7	20.5
5 1	13 0.94	− 9 48.2	2.131	3.083	7.4	20.7
5 11	12 54.29	− 9 31.5	2.176	3.063	10.8	20.9

479810 2014 FK_{35} 4 10.8 1°.27 4°.4/13.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 50.59	−17 11.4	2.025	2.765	16.0	19.9
3 12	13 45.70	−18 24.4	1.928	2.764	13.4	19.7
3 22	13 38.19	−19 26.6	1.852	2.763	10.2	19.5
4 1	13 28.54	−20 15.6	1.801	2.763	6.9	19.3
4 11	13 17.63	−20 50.0	1.777	2.764	4.5	19.2
4 21	13 6.54	−21 10.4	1.782	2.765	5.4	19.2
5 1	12 56.44	−21 19.7	1.815	2.766	8.5	19.4
5 11	12 48.26	−21 22.9	1.873	2.768	11.8	19.6

374496 2005 YG_{114} 4 10.8 176°.93 0°.4/11.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.05	−11 27.2	2.215	2.984	14.0	22.1
3 12	13 40.03	−11 13.4	2.121	2.985	11.2	21.9
3 22	13 33.93	−10 47.4	2.049	2.986	7.9	21.7
4 1	13 26.23	−10 11.3	2.003	2.987	4.1	21.5
4 11	13 17.69	− 9 28.6	1.985	2.987	0.4	21.2
4 21	13 9.17	− 8 44.0	1.997	2.987	4.0	21.4
5 1	13 1.52	− 8 2.5	2.036	2.987	7.8	21.7
5 11	12 55.44	− 7 28.8	2.101	2.986	11.1	21.9

409035 2003 NG_{2} 4 10.8 240°.94 7°.7/ 2.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.13	+ 9 26.6	1.983	2.790	14.0	21.5
3 12	13 42.06	+10 55.9	1.892	2.773	11.5	21.3
3 22	13 35.58	+12 27.2	1.823	2.754	9.1	21.1
4 1	13 27.17	+13 52.0	1.781	2.735	7.7	21.0
4 11	13 17.67	+15 1.2	1.765	2.715	8.4	21.0
4 21	13 8.06	+15 47.8	1.776	2.694	10.8	21.1
5 1	12 59.39	+16 7.6	1.812	2.672	13.7	21.2
5 11	12 52.50	+16 0.3	1.867	2.649	16.5	21.4

73665 1981 EX_{42} 4 10.8 107°.83 0°.8/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 47.44	−12 25.4	1.876	2.646	16.1	20.2
3 12	13 42.92	−12 16.6	1.801	2.665	12.9	20.0
3 22	13 35.99	−11 53.8	1.747	2.683	9.1	19.8
4 1	13 27.27	−11 18.8	1.718	2.701	4.8	19.5
4 11	13 17.70	−10 35.7	1.717	2.718	0.8	19.3
4 21	13 8.32	− 9 50.0	1.744	2.735	4.3	19.6
5 1	13 0.13	− 9 7.5	1.799	2.752	8.4	19.9
5 11	12 53.87	− 8 33.6	1.878	2.768	12.0	20.1

373062 2011 FM_{34} 4 10.8 55°.77 4°.3/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 39.55	− 3 9.3	1.630	2.449	16.0	21.0
3 12	13 36.93	− 1 32.5	1.569	2.467	12.4	20.8
3 22	13 31.94	+ 0 15.6	1.531	2.485	8.5	20.6
4 1	13 25.23	+ 2 6.5	1.518	2.503	5.0	20.4
4 11	13 17.74	+ 3 49.9	1.533	2.521	4.8	20.4
4 21	13 10.51	+ 5 16.7	1.574	2.540	8.0	20.7
5 1	13 4.46	+ 6 20.9	1.641	2.559	11.6	20.9
5 11	13 0.27	+ 6 59.6	1.729	2.578	14.9	21.2

85983 1999 HX_{7} 4 10.8 276°.00 1°.0/11.8 18

3 2	13 41.60	−14 58.6	2.079	2.844	14.9	19.9
3 12	13 38.59	−14 26.9	1.956	2.816	12.2	19.6
3 22	13 33.29	−13 36.9	1.853	2.787	8.8	19.4
4 1	13 26.09	−12 29.8	1.776	2.758	4.8	19.1
4 11	13 17.72	−11 9.4	1.727	2.729	1.1	18.7
4 21	13 9.10	− 9 42.0	1.707	2.698	4.3	18.9
5 1	13 1.23	− 8 15.3	1.714	2.668	8.7	19.1
5 11	12 54.98	− 6 57.3	1.746	2.637	12.7	19.3

248617 2006 DC_{193} 4 10.8 145°.16 0°.9/11.6 17

3 2	13 45.04	−11 54.9	2.208	2.973	14.1	21.0
3 12	13 40.81	−11 55.5	2.117	2.978	11.3	20.8
3 22	13 34.46	−11 44.6	2.049	2.983	8.0	20.6
4 1	13 26.51	−11 23.6	2.006	2.988	4.3	20.4
4 11	13 17.72	−10 55.5	1.991	2.993	0.9	20.1
4 21	13 8.97	−10 24.2	2.006	2.997	3.9	20.4
5 1	13 1.12	− 9 54.3	2.048	3.001	7.6	20.6
5 11	12 54.88	− 9 30.2	2.117	3.005	10.9	20.8

502586 2015 CP_{4} 4 10.8 325°.16 3°.0/ 8.3 17

3 2	13 42.27	− 2 44.0	1.773	2.582	15.3	21.0
3 12	13 39.16	− 2 11.9	1.686	2.577	12.1	20.8
3 22	13 33.62	− 1 31.2	1.621	2.572	8.3	20.6
4 1	13 26.19	− 0 46.9	1.580	2.567	4.5	20.3
4 11	13 17.73	− 0 5.1	1.566	2.562	3.2	20.2
4 21	13 9.28	+ 0 28.3	1.579	2.558	6.6	20.4
5 1	13 1.86	+ 0 48.1	1.618	2.553	10.6	20.6
5 11	12 56.29	+ 0 51.4	1.679	2.550	14.2	20.9

299260 2005 NE_{43} 4 10.8 275°.77 1°.0/11.9 17

3 2	13 39.84	−13 58.3	2.324	3.089	13.5	20.8
3 12	13 36.74	−13 41.4	2.219	3.079	10.9	20.6
3 22	13 31.71	−13 10.8	2.135	3.068	7.8	20.3
4 1	13 25.15	−12 28.0	2.077	3.058	4.3	20.1
4 11	13 17.76	−11 36.3	2.046	3.047	1.1	19.8
4 21	13 10.31	−10 40.2	2.045	3.037	3.7	20.0
5 1	13 3.59	− 9 45.4	2.071	3.026	7.3	20.2
5 11	12 58.30	− 8 57.0	2.123	3.016	10.7	20.4

297729 2001 WK_{44} 4 10.8 181°.25 0°.9/ 9.9 16

3 2	13 47.56	− 8 29.6	1.980	2.758	15.1	22.9
3 12	13 43.05	− 7 59.3	1.888	2.760	12.0	22.7
3 22	13 36.16	− 7 16.6	1.819	2.761	8.3	22.5
4 1	13 27.43	− 6 24.8	1.775	2.761	4.1	22.2
4 11	13 17.71	− 5 28.9	1.759	2.760	1.0	22.0
4 21	13 8.03	− 4 35.1	1.772	2.759	5.0	22.3
5 1	12 59.37	− 3 49.1	1.814	2.756	9.1	22.5
5 11	12 52.53	− 3 15.8	1.879	2.753	12.8	22.7

130059 1999 VT_{181} 4 10.8 146°.34 0°.6/11.4 17

3 2	13 41.39	−13 0.4	2.070	2.843	14.7	21.0
3 12	13 38.11	−12 37.3	1.979	2.845	11.8	20.8
3 22	13 32.69	−11 59.6	1.909	2.847	8.3	20.6
4 1	13 25.65	−11 9.5	1.865	2.849	4.4	20.3
4 11	13 17.75	−10 11.2	1.849	2.850	0.7	20.0
4 21	13 9.89	− 9 10.2	1.860	2.852	4.1	20.3
5 1	13 2.95	− 8 12.8	1.900	2.853	8.0	20.5
5 11	12 57.63	− 7 24.5	1.964	2.855	11.5	20.8

463166 2012 BN_{40} 4 10.8 194°.68 5°.2/ 5.5 17

3 2	13 46.35	+ 3 53.0	2.146	2.945	13.4	22.6
3 12	13 41.86	+ 5 2.7	2.060	2.942	10.6	22.4
3 22	13 35.21	+ 6 16.5	1.998	2.939	7.7	22.2
4 1	13 26.90	+ 7 28.0	1.962	2.935	5.5	22.0
4 11	13 17.74	+ 8 30.1	1.956	2.929	5.7	22.0
4 21	13 8.60	+ 9 16.8	1.977	2.923	8.1	22.2
5 1	13 0.39	+ 9 44.2	2.025	2.916	11.1	22.3
5 11	12 53.82	+ 9 50.8	2.096	2.908	14.0	22.5

105369 2000 QW_{125} 4 10.8 206°.40 1°.6/ 8.7 18

3 2	13 38.86	− 6 29.5	2.531	3.318	11.9	19.9
3 12	13 35.66	− 5 36.3	2.437	3.316	9.4	19.8
3 22	13 30.77	− 4 33.2	2.366	3.313	6.4	19.6
4 1	13 24.61	− 3 24.1	2.323	3.310	3.2	19.3
4 11	13 17.79	− 2 14.2	2.309	3.307	1.8	19.2
4 21	13 11.00	− 1 8.5	2.324	3.304	4.6	19.4
5 1	13 4.90	− 0 12.1	2.368	3.301	7.8	19.6
5 11	13 0.05	+ 0 31.4	2.437	3.297	10.7	19.8

299546 2006 DD_{96} 4 10.8 96°.16 0°.6/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 48.61	−11 54.7	1.574	2.356	18.2	21.7
3 12	13 44.29	−11 44.5	1.505	2.377	14.5	21.5
3 22	13 37.16	−11 18.3	1.457	2.397	10.2	21.3
4 1	13 27.93	−10 38.5	1.432	2.416	5.3	21.0
4 11	13 17.72	− 9 50.2	1.433	2.435	0.6	20.7
4 21	13 7.79	− 9 0.1	1.462	2.454	4.9	21.1
5 1	12 59.29	− 8 15.1	1.518	2.472	9.6	21.4
5 11	12 53.06	− 7 41.1	1.596	2.490	13.6	21.7

362958 2013 AP_{102} 4 10.8 329°.51 6°.1/17.1 17

3 2	13 39.46	−27 22.6	2.105	2.813	16.4	19.9
3 12	13 36.95	−27 47.3	2.001	2.805	14.2	19.8
3 22	13 32.13	−27 51.3	1.916	2.797	11.6	19.6
4 1	13 25.48	−27 32.1	1.853	2.789	8.8	19.4
4 11	13 17.77	−26 50.0	1.814	2.782	6.6	19.2
4 21	13 9.97	−25 48.2	1.801	2.775	6.3	19.2
5 1	13 3.07	−24 32.6	1.815	2.769	8.3	19.3
5 11	12 57.90	−23 11.5	1.853	2.763	11.1	19.4

495343 2014 NE_{37} 4 10.8 216°.86 1°.7/12.3 17

3 2	13 45.61	−15 53.1	1.903	2.663	16.3	22.2
3 12	13 41.85	−15 36.6	1.800	2.655	13.3	22.0
3 22	13 35.56	−15 2.0	1.717	2.646	9.7	21.7
4 1	13 27.23	−14 10.0	1.658	2.637	5.5	21.5
4 11	13 17.74	−13 4.4	1.627	2.627	1.8	21.2
4 21	13 8.14	−11 51.1	1.623	2.616	4.4	21.3
5 1	12 59.54	−10 37.8	1.648	2.604	8.8	21.6
5 11	12 52.83	− 9 32.3	1.697	2.592	12.9	21.8

65590 Archeptolemos 4 10.8 339°.45 1°.9/14.3 18

3 2	13 34.40	−19 34.5	4.346	5.062	8.4	19.2
3 12	13 31.48	−19 30.3	4.239	5.061	6.9	19.1
3 22	13 27.55	−19 17.3	4.155	5.060	5.2	18.9
4 1	13 22.88	−18 56.1	4.097	5.059	3.4	18.8
4 11	13 17.84	−18 27.9	4.069	5.058	2.0	18.7
4 21	13 12.79	−17 54.6	4.070	5.058	2.4	18.7
5 1	13 8.13	−17 18.7	4.101	5.057	4.0	18.9
5 11	13 4.18	−16 42.9	4.160	5.056	5.8	19.0

139167 2001 FQ_{122} 4 10.8 318°.75 2°.9/ 8.4 18

3 2	13 40.55	− 5 41.6	1.522	2.339	17.1	19.9
3 12	13 38.23	− 4 46.1	1.438	2.334	13.5	19.6
3 22	13 33.22	− 3 35.8	1.375	2.328	9.3	19.3
4 1	13 26.07	− 2 16.4	1.335	2.323	4.8	19.1
4 11	13 17.77	− 0 56.6	1.321	2.319	3.2	18.9
4 21	13 9.46	+ 0 14.5	1.334	2.314	7.2	19.2
5 1	13 2.34	+ 1 9.0	1.370	2.310	11.7	19.4
5 11	12 57.29	+ 1 41.9	1.429	2.306	15.8	19.7

95374 2002 CU_{163} 4 10.8 100°.84 1°.4/ 9.7 18

3 2	13 48.61	− 7 13.8	1.628	2.421	17.2	20.5
3 12	13 44.11	− 6 46.2	1.561	2.441	13.6	20.3
3 22	13 36.93	− 6 6.5	1.515	2.462	9.3	20.1
4 1	13 27.78	− 5 18.8	1.494	2.481	4.6	19.8
4 11	13 17.74	− 4 29.5	1.500	2.500	1.5	19.7
4 21	13 7.98	− 3 44.9	1.533	2.519	5.7	20.0
5 1	12 59.60	− 3 11.0	1.593	2.537	10.0	20.3
5 11	12 53.40	− 2 51.7	1.676	2.555	13.8	20.5

434857 2006 SC_{214} 4 10.8 284°.15 1°.3/ 9.3 17

3 2	13 38.93	− 9 0.1	2.223	3.010	13.4	21.8
3 12	13 36.19	− 8 2.6	2.107	2.985	10.6	21.6
3 22	13 31.44	− 6 50.3	2.013	2.960	7.3	21.3
4 1	13 25.09	− 5 26.7	1.947	2.934	3.6	21.0
4 11	13 17.79	− 3 57.5	1.909	2.909	1.5	20.8
4 21	13 10.35	− 2 29.7	1.900	2.883	5.1	21.0
5 1	13 3.60	− 1 10.4	1.918	2.857	9.0	21.2
5 11	12 58.27	− 0 5.3	1.962	2.831	12.5	21.4

56898 2000 QH_{158} 4 10.8 55°.02 2°.8/13.9 18

3 2	13 39.91	−19 40.4	2.289	3.030	14.4	19.4
3 12	13 36.82	−19 33.6	2.194	3.033	11.9	19.2
3 22	13 31.75	−19 10.2	2.119	3.035	8.9	19.0
4 1	13 25.16	−18 30.5	2.069	3.037	5.7	18.8
4 11	13 17.79	−17 37.2	2.046	3.040	3.1	18.7
4 21	13 10.45	−16 34.6	2.052	3.042	3.9	18.7
5 1	13 3.93	−15 28.8	2.085	3.045	7.0	18.9
5 11	12 58.90	−14 25.8	2.144	3.047	10.2	19.1

268096 2004 RY_{257} 4 10.8 323°.00 8°.5/17.5 17

3 2	13 42.69	−28 25.2	1.702	2.417	19.5	20.0
3 12	13 40.30	−29 27.8	1.603	2.407	17.1	19.7
3 22	13 34.97	−30 8.4	1.521	2.398	14.3	19.5
4 1	13 27.13	−30 21.9	1.459	2.388	11.3	19.3
4 11	13 17.76	−30 6.0	1.420	2.379	9.0	19.1
4 21	13 8.12	−29 22.1	1.404	2.371	8.6	19.1
5 1	12 59.61	−28 16.5	1.413	2.363	10.6	19.2
5 11	12 53.38	−26 59.3	1.445	2.355	13.6	19.3

466726 2014 XX_{33} 4 10.8 102°.81 4°.6/ 7.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 46.34	+ 1 58.6	1.760	2.570	15.5	21.9
3 12	13 42.21	+ 2 39.8	1.688	2.578	12.2	21.7
3 22	13 35.60	+ 3 25.1	1.638	2.586	8.6	21.5
4 1	13 27.13	+ 4 8.5	1.613	2.594	5.4	21.4
4 11	13 17.77	+ 4 43.1	1.615	2.601	5.0	21.3
4 21	13 8.57	+ 5 3.7	1.644	2.609	7.8	21.5
5 1	13 0.57	+ 5 6.7	1.699	2.616	11.3	21.7
5 11	12 54.53	+ 4 51.3	1.775	2.624	14.6	22.0

40060 1998 KC_{48} 4 10.8 319°.16 12°.3/ 2.0 18

3 2	13 46.80	+16 45.5	1.353	2.180	18.3	18.0
3 12	13 43.75	+18 2.1	1.279	2.163	15.7	17.8
3 22	13 37.37	+19 11.0	1.225	2.147	13.4	17.6
4 1	13 28.30	+19 59.6	1.192	2.131	12.3	17.5
4 11	13 17.74	+20 16.3	1.181	2.116	13.1	17.5
4 21	13 7.19	+19 54.5	1.191	2.101	15.5	17.5
5 1	12 58.14	+18 53.4	1.222	2.088	18.6	17.7
5 11	12 51.70	+17 17.7	1.270	2.075	21.7	17.9

468183 2015 AD_{38} 4 10.8 129°.25 3°.2/ 7.8 17

3 2	13 44.31	− 1 44.1	1.979	2.780	14.3	21.7
3 12	13 40.34	− 1 0.5	1.902	2.788	11.2	21.5
3 22	13 34.18	− 0 9.9	1.847	2.796	7.7	21.3
4 1	13 26.38	+ 0 42.7	1.818	2.803	4.3	21.1
4 11	13 17.78	+ 1 31.2	1.818	2.810	3.5	21.1
4 21	13 9.31	+ 2 10.0	1.845	2.817	6.4	21.3
5 1	13 1.85	+ 2 34.8	1.898	2.824	9.9	21.5
5 11	12 56.10	+ 2 43.3	1.975	2.830	13.1	21.7

105504 2000 RX_{2} 4 10.8 148°.87 3°.7/14.7 18

3 2	13 48.57	−21 8.8	2.926	3.624	12.4	19.6
3 12	13 43.17	−21 49.8	2.825	3.631	10.4	19.4
3 22	13 35.92	−22 19.2	2.747	3.638	8.1	19.3
4 1	13 27.23	−22 35.9	2.695	3.645	5.7	19.1
4 11	13 17.77	−22 39.9	2.672	3.652	3.9	19.0
4 21	13 8.26	−22 32.6	2.680	3.658	4.2	19.0
5 1	12 59.45	−22 17.0	2.717	3.663	6.3	19.2
5 11	12 51.98	−21 57.2	2.781	3.669	8.7	19.3

106703 2000 WF_{168} 4 10.8 165°.81 4°.8/ 4.1 18

3 2	13 39.90	+ 7 10.8	2.907	3.707	10.2	20.7
3 12	13 36.17	+ 8 16.7	2.830	3.711	8.1	20.6
3 22	13 30.94	+ 9 23.1	2.779	3.714	6.1	20.4
4 1	13 24.65	+10 25.1	2.756	3.718	4.8	20.4
4 11	13 17.82	+11 17.7	2.761	3.720	5.2	20.4
4 21	13 11.06	+11 57.2	2.795	3.723	6.9	20.5
5 1	13 4.95	+12 21.1	2.855	3.725	9.0	20.6
5 11	12 59.96	+12 28.4	2.939	3.727	11.0	20.8

129725 1998 VQ_{34} 4 10.8 184°.38 2°.0/13.3 18

3 2	13 41.99	−18 12.9	2.759	3.490	12.4	20.9
3 12	13 38.05	−17 56.6	2.655	3.490	10.1	20.7
3 22	13 32.39	−17 26.4	2.574	3.490	7.5	20.5
4 1	13 25.44	−16 43.1	2.518	3.489	4.6	20.3
4 11	13 17.81	−15 49.3	2.492	3.488	2.2	20.1
4 21	13 10.18	−14 48.7	2.495	3.486	3.3	20.2
5 1	13 3.25	−13 46.4	2.528	3.483	6.2	20.4
5 11	12 57.59	−12 47.2	2.588	3.480	9.0	20.6

424844 2008 UK_{276} 4 10.8 276°.67 0°.9/ 9.9 17

3 2	13 43.26	− 7 17.2	1.993	2.783	14.6	21.3
3 12	13 39.69	− 7 2.6	1.901	2.779	11.6	21.1
3 22	13 33.87	− 6 37.9	1.830	2.776	8.0	20.9
4 1	13 26.31	− 6 5.9	1.785	2.772	4.0	20.6
4 11	13 17.79	− 5 31.0	1.767	2.769	1.0	20.4
4 21	13 9.27	− 4 58.0	1.777	2.765	4.8	20.7
5 1	13 1.67	− 4 32.0	1.815	2.761	8.8	20.9
5 11	12 55.77	− 4 16.7	1.876	2.758	12.4	21.1

522999 2016 PE_{121} 4 10.8 260°.85 0°.2/10.5 17

3 2	13 40.99	− 9 33.6	2.454	3.229	12.6	22.3
3 12	13 37.52	− 9 14.2	2.347	3.217	10.0	22.1
3 22	13 32.19	− 8 44.5	2.263	3.204	7.0	21.9
4 1	13 25.41	− 8 6.5	2.205	3.190	3.5	21.7
4 11	13 17.82	− 7 23.8	2.175	3.177	0.3	21.4
4 21	13 10.15	− 6 40.8	2.175	3.164	3.9	21.6
5 1	13 3.17	− 6 1.9	2.202	3.150	7.5	21.8
5 11	12 57.52	− 5 31.3	2.256	3.136	10.7	22.0

21771 1999 RQ_{211} 4 10.8 193°.92 3°.5/14.5 18

3 2	13 45.42	−20 59.8	2.593	3.307	13.5	20.1
3 12	13 40.99	−21 16.0	2.487	3.305	11.3	20.0
3 22	13 34.57	−21 18.0	2.401	3.302	8.7	19.8
4 1	13 26.61	−21 5.0	2.341	3.299	5.9	19.6
4 11	13 17.79	−20 38.0	2.309	3.295	3.7	19.5
4 21	13 8.91	−19 59.8	2.306	3.291	4.2	19.5
5 1	13 0.78	−19 14.8	2.332	3.286	6.7	19.6
5 11	12 54.08	−18 28.3	2.385	3.280	9.6	19.8

522337 2016 CS_{291} 4 10.8 313°.84 1°.5/ 9.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 40.31	− 7 52.5	1.450	2.266	17.9	21.5
3 12	13 38.38	− 7 24.5	1.356	2.250	14.3	21.2
3 22	13 33.58	− 6 40.6	1.282	2.234	9.9	20.9
4 1	13 26.39	− 5 44.4	1.230	2.219	5.0	20.6
4 11	13 17.79	− 4 42.8	1.203	2.205	1.6	20.3
4 21	13 9.03	− 3 44.0	1.202	2.190	6.4	20.6
5 1	13 1.41	− 2 56.5	1.225	2.177	11.6	20.8
5 11	12 56.01	− 2 26.7	1.269	2.164	16.2	21.1

502861 2015 DA_{197} 4 10.8 98°.23 8°.9/19.2 18

3 2	13 51.67	−33 28.3	2.217	2.858	17.3	20.7
3 12	13 46.67	−34 50.8	2.132	2.873	15.4	20.6
3 22	13 38.92	−35 53.4	2.064	2.888	13.2	20.4
4 1	13 28.96	−36 31.2	2.018	2.903	11.0	20.3
4 11	13 17.75	−36 41.5	1.996	2.917	9.4	20.2
4 21	13 6.45	−36 24.8	2.000	2.931	8.9	20.2
5 1	12 56.28	−35 45.6	2.029	2.945	9.9	20.3
5 11	12 48.21	−34 51.6	2.083	2.959	11.6	20.5

59794 1999 OE_{1} 4 10.8 286°.73 4°.6/ 6.5 18

3 2	13 41.72	+ 0 49.4	1.845	2.659	14.7	19.6
3 12	13 38.75	+ 1 46.0	1.749	2.642	11.6	19.3
3 22	13 33.40	+ 2 50.2	1.675	2.625	8.2	19.1
4 1	13 26.14	+ 3 55.8	1.627	2.608	5.3	18.9
4 11	13 17.81	+ 4 55.1	1.605	2.591	5.1	18.8
4 21	13 9.37	+ 5 41.3	1.611	2.574	8.0	19.0
5 1	13 1.85	+ 6 8.7	1.641	2.557	11.7	19.1
5 11	12 56.10	+ 6 14.9	1.693	2.540	15.2	19.3

459329 2012 HE_{20} 4 10.8 337°.34 9°.8/ 1.4 17

3 2	13 30.43	+ 4 48.8	1.147	2.014	18.2	19.6
3 12	13 31.09	+ 6 58.9	1.070	1.990	14.7	19.3
3 22	13 28.80	+ 9 22.3	1.012	1.968	11.4	19.0
4 1	13 24.04	+11 44.4	0.976	1.948	9.8	18.8
4 11	13 17.85	+13 48.0	0.963	1.929	11.3	18.8
4 21	13 11.52	+15 18.1	0.971	1.912	14.9	19.0
5 1	13 6.47	+16 5.7	0.997	1.896	19.0	19.2
5 11	13 3.78	+16 9.1	1.039	1.883	22.9	19.3

432563 2010 JJ_{89} 4 10.8 324°.13 9°.2/28.7 16

3 2	13 36.95	+14 38.2	2.075	2.897	13.0	20.3
3 12	13 34.68	+16 55.2	2.008	2.888	11.0	20.1
3 22	13 30.37	+19 10.0	1.966	2.880	9.6	20.0
4 1	13 24.52	+21 12.4	1.950	2.872	9.3	20.0
4 11	13 17.85	+22 52.9	1.960	2.865	10.4	20.0
4 21	13 11.20	+24 5.2	1.994	2.858	12.4	20.1
5 1	13 5.39	+24 46.1	2.050	2.851	14.5	20.3
5 11	13 1.11	+24 56.5	2.124	2.844	16.6	20.4

232491 2003 OB_{22} 4 10.8 213°.81 1°.8/ 8.5 18

3 2	13 41.52	− 5 24.6	2.758	3.538	11.2	21.2
3 12	13 37.64	− 4 33.4	2.654	3.529	8.8	21.1
3 22	13 32.10	− 3 33.6	2.574	3.519	6.0	20.9
4 1	13 25.31	− 2 28.5	2.522	3.509	3.1	20.6
4 11	13 17.84	− 1 22.9	2.501	3.498	2.0	20.5
4 21	13 10.35	− 0 21.6	2.509	3.486	4.6	20.7
5 1	13 3.48	+ 0 31.0	2.547	3.474	7.6	20.9
5 11	12 57.81	+ 1 11.4	2.610	3.461	10.4	21.0

505619 2014 FZ_{19} 4 10.8 41°.50 4°.1/15.0 17

3 2	13 41.93	−22 3.2	2.282	3.008	14.8	21.1
3 12	13 38.51	−22 22.6	2.186	3.009	12.4	20.9
3 22	13 33.00	−22 25.5	2.110	3.011	9.7	20.7
4 1	13 25.85	−22 11.1	2.057	3.013	6.7	20.6
4 11	13 17.83	−21 40.6	2.031	3.015	4.4	20.4
4 21	13 9.79	−20 57.2	2.033	3.017	4.7	20.4
5 1	13 2.60	−20 6.0	2.063	3.019	7.3	20.6
5 11	12 56.98	−19 13.2	2.118	3.022	10.2	20.8

434938 2006 TV_{126} 4 10.8 281°.57 2°.8/13.8 16

3 2	13 39.70	−19 51.7	2.330	3.069	14.2	21.3
3 12	13 36.82	−19 38.4	2.210	3.048	11.8	21.1
3 22	13 31.90	−19 7.4	2.111	3.027	8.9	20.8
4 1	13 25.35	−18 18.7	2.037	3.005	5.7	20.6
4 11	13 17.84	−17 14.8	1.990	2.984	3.0	20.4
4 21	13 10.18	−15 59.9	1.971	2.962	4.0	20.4
5 1	13 3.24	−14 40.4	1.981	2.941	7.3	20.6
5 11	12 57.75	−13 23.4	2.017	2.919	10.8	20.7

211105 2002 ET_{147} 4 10.8 325°.22 1°.1/10.1 17

3 2	13 39.93	− 7 45.1	1.240	2.068	19.6	20.6
3 12	13 38.63	− 7 35.4	1.150	2.050	15.8	20.3
3 22	13 34.10	− 7 9.8	1.078	2.033	11.0	20.0
4 1	13 26.80	− 6 31.6	1.027	2.016	5.6	19.6
4 11	13 17.81	− 5 47.1	0.999	2.001	1.3	19.3
4 21	13 8.56	− 5 4.4	0.995	1.986	6.8	19.6
5 1	13 0.62	− 4 32.2	1.013	1.972	12.5	19.8
5 11	12 55.22	− 4 17.1	1.052	1.960	17.7	20.1

58153 1988 RH_{11} 4 10.8 256°.40 0°.1/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 33.74	− 9 13.8	4.625	5.387	7.3	20.2
3 12	13 30.87	− 8 54.5	4.517	5.380	5.7	20.1
3 22	13 27.10	− 8 29.8	4.434	5.372	3.9	19.9
4 1	13 22.67	− 8 1.1	4.380	5.365	2.0	19.8
4 11	13 17.91	− 7 30.4	4.355	5.357	0.2	19.6
4 21	13 13.13	− 6 59.7	4.361	5.350	2.2	19.8
5 1	13 8.69	− 6 31.1	4.397	5.342	4.1	19.9
5 11	13 4.88	− 6 6.5	4.461	5.335	6.0	20.1

353488 2011 SF_{65} 4 10.8 180°.59 3°.0/14.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.55	−20 19.6	2.715	3.437	12.7	21.8
3 12	13 37.81	−20 25.2	2.613	3.438	10.6	21.6
3 22	13 32.29	−20 17.0	2.532	3.438	8.1	21.5
4 1	13 25.43	−19 54.8	2.476	3.438	5.3	21.3
4 11	13 17.85	−19 20.3	2.449	3.438	3.2	21.1
4 21	13 10.26	−18 36.6	2.451	3.438	3.7	21.2
5 1	13 3.36	−17 47.9	2.481	3.437	6.2	21.3
5 11	12 57.76	−16 59.3	2.538	3.436	9.0	21.5

89310 2001 VU_{36} 4 10.8 169°.71 1°.2/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.98	−15 1.3	2.861	3.607	11.7	20.7
3 12	13 37.15	−14 45.7	2.763	3.610	9.4	20.5
3 22	13 31.72	−14 18.6	2.687	3.613	6.8	20.3
4 1	13 25.09	−13 41.2	2.638	3.615	3.8	20.2
4 11	13 17.86	−12 56.3	2.618	3.617	1.3	20.0
4 21	13 10.65	−12 7.4	2.628	3.619	3.0	20.1
5 1	13 4.09	−11 18.7	2.667	3.620	6.0	20.3
5 11	12 58.72	−10 34.3	2.733	3.621	8.8	20.5

208394 2001 SD_{174} 4 10.8 105°.38 1°.3/ 9.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.54	− 6 14.7	2.440	3.224	12.4	20.6
3 12	13 37.73	− 5 42.0	2.361	3.237	9.7	20.5
3 22	13 32.16	− 5 1.1	2.305	3.250	6.6	20.3
4 1	13 25.31	− 4 15.3	2.276	3.263	3.3	20.1
4 11	13 17.86	− 3 29.0	2.276	3.276	1.5	20.0
4 21	13 10.52	− 2 46.6	2.305	3.288	4.4	20.2
5 1	13 3.98	− 2 12.2	2.362	3.300	7.6	20.4
5 11	12 58.80	− 1 48.6	2.445	3.312	10.4	20.6

468127 2014 UA_{36} 4 10.8 83°.30 3°.0/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.72	− 2 35.1	1.625	2.432	16.6	21.1
3 12	13 42.73	− 2 7.5	1.554	2.443	13.1	20.9
3 22	13 36.08	− 1 31.9	1.504	2.454	9.0	20.6
4 1	13 27.43	− 0 53.4	1.479	2.465	4.8	20.4
4 11	13 17.82	− 0 18.3	1.480	2.476	3.2	20.3
4 21	13 8.41	+ 0 7.4	1.508	2.487	6.7	20.6
5 1	13 0.29	+ 0 19.4	1.562	2.498	10.8	20.8
5 11	12 54.28	+ 0 15.2	1.638	2.509	14.5	21.1

306326 2011 SQ_{103} 4 10.8 169°.99 0°.5/11.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.99	−11 2.6	2.655	3.416	12.1	21.1
3 12	13 38.85	−11 1.1	2.558	3.418	9.7	20.9
3 22	13 32.96	−10 50.4	2.485	3.419	6.8	20.8
4 1	13 25.75	−10 31.9	2.438	3.421	3.6	20.5
4 11	13 17.86	−10 8.1	2.420	3.422	0.5	20.3
4 21	13 9.97	− 9 42.2	2.432	3.423	3.3	20.5
5 1	13 2.78	− 9 17.8	2.473	3.424	6.6	20.7
5 11	12 56.89	− 8 58.4	2.540	3.424	9.5	20.9

403314 2009 CX_{32} 4 10.8 127°.04 0°.5/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 47.61	− 9 25.4	1.782	2.565	16.4	22.0
3 12	13 43.24	− 9 2.2	1.705	2.578	13.0	21.8
3 22	13 36.35	− 8 25.9	1.649	2.592	9.0	21.6
4 1	13 27.55	− 7 39.4	1.618	2.604	4.5	21.3
4 11	13 17.83	− 6 48.2	1.614	2.616	0.6	21.0
4 21	13 8.27	− 5 58.4	1.639	2.628	5.0	21.4
5 1	12 59.93	− 5 16.2	1.691	2.639	9.3	21.7
5 11	12 53.58	− 4 46.3	1.767	2.649	13.1	21.9

56631 2000 KV_{2} 4 10.8 258°.50 13°.9/20.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.32	+29 20.1	1.951	2.735	15.1	18.9
3 12	13 40.18	+31 56.0	1.901	2.722	14.1	18.8
3 22	13 34.46	+34 17.1	1.874	2.709	13.9	18.7
4 1	13 26.70	+36 11.7	1.868	2.695	14.4	18.7
4 11	13 17.85	+37 30.6	1.884	2.681	15.5	18.8
4 21	13 9.01	+38 9.3	1.919	2.667	17.1	18.8
5 1	13 1.29	+38 7.6	1.970	2.652	18.7	18.9
5 11	12 55.57	+37 29.7	2.034	2.638	20.1	19.1

253499 2003 SD_{112} 4 10.8 193°.36 0°.3/11.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.20	−11 32.6	2.057	2.826	14.9	21.7
3 12	13 41.99	−11 12.7	1.960	2.824	12.0	21.4
3 22	13 35.47	−10 39.2	1.884	2.822	8.4	21.2
4 1	13 27.15	− 9 54.0	1.834	2.818	4.4	21.0
4 11	13 17.85	− 9 1.4	1.812	2.815	0.3	20.6
4 21	13 8.52	− 8 6.8	1.820	2.810	4.3	20.9
5 1	13 0.14	− 7 16.3	1.855	2.805	8.5	21.2
5 11	12 53.50	− 6 35.1	1.915	2.798	12.1	21.4

257833 2000 HR_{105} 4 10.8 340°.73 0°.1/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 40.71	−11 47.7	1.601	2.398	17.3	20.5
3 12	13 38.30	−11 21.0	1.514	2.395	13.9	20.3
3 22	13 33.25	−10 36.7	1.447	2.392	9.7	20.0
4 1	13 26.12	− 9 37.4	1.403	2.390	5.0	19.7
4 11	13 17.87	− 8 29.2	1.386	2.388	0.1	19.3
4 21	13 9.61	− 7 19.5	1.394	2.386	5.1	19.7
5 1	13 2.49	− 6 16.7	1.428	2.384	9.9	20.0
5 11	12 57.40	− 5 27.6	1.485	2.383	14.1	20.2

380527 2004 GQ_{11} 4 10.8 25°.76 11°.0/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 49.89	+20 41.1	1.701	2.501	16.3	19.6
3 12	13 45.02	+21 29.6	1.651	2.512	14.0	19.5
3 22	13 37.48	+22 4.9	1.621	2.523	12.0	19.4
4 1	13 28.04	+22 18.1	1.614	2.534	11.1	19.3
4 11	13 17.84	+22 3.0	1.631	2.547	11.5	19.4
4 21	13 8.06	+21 17.6	1.672	2.560	13.1	19.5
5 1	12 59.77	+20 3.8	1.735	2.573	15.2	19.7
5 11	12 53.69	+18 26.5	1.818	2.588	17.3	19.9

256185 2006 VS_{75} 4 10.8 29°.05 1°.9/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.21	−14 34.6	1.384	2.181	19.5	19.8
3 12	13 39.00	−14 35.1	1.313	2.191	15.8	19.6
3 22	13 33.86	−14 15.6	1.261	2.201	11.3	19.3
4 1	13 26.43	−13 37.6	1.230	2.212	6.4	19.1
4 11	13 17.86	−12 46.0	1.224	2.224	2.0	18.8
4 21	13 9.45	−11 48.1	1.243	2.237	5.1	19.0
5 1	13 2.44	−10 52.5	1.286	2.250	9.9	19.4
5 11	12 57.75	−10 7.0	1.352	2.264	14.2	19.6

111585 2002 AO_{41} 4 10.8 175°.34 3°.3/14.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.71	−21 18.1	2.758	3.474	12.7	20.0
3 12	13 37.91	−21 26.1	2.656	3.476	10.6	19.8
3 22	13 32.36	−21 20.0	2.575	3.477	8.1	19.6
4 1	13 25.48	−20 59.6	2.520	3.478	5.5	19.5
4 11	13 17.89	−20 26.4	2.492	3.478	3.5	19.3
4 21	13 10.28	−19 43.3	2.493	3.478	3.9	19.3
5 1	13 3.36	−18 54.5	2.523	3.478	6.2	19.5
5 11	12 57.73	−18 5.0	2.580	3.478	8.8	19.7

329852 2004 TV_{247} 4 10.8 216°.46 5°.4/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.80	+ 7 54.6	2.591	3.386	11.5	21.4
3 12	13 40.32	+ 8 54.7	2.500	3.376	9.2	21.2
3 22	13 34.01	+ 9 55.5	2.433	3.366	7.0	21.1
4 1	13 26.31	+10 51.3	2.393	3.354	5.5	21.0
4 11	13 17.88	+11 36.6	2.383	3.342	5.9	21.0
4 21	13 9.43	+12 7.0	2.400	3.329	7.8	21.1
5 1	13 1.71	+12 19.7	2.444	3.316	10.2	21.2
5 11	12 55.34	+12 13.9	2.512	3.302	12.5	21.3

338558 2003 SA_{60} 4 10.8 246°.53 0°.7/11.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.61	−10 43.6	2.287	3.051	13.7	21.1
3 12	13 42.20	−10 52.1	2.177	3.037	11.1	20.9
3 22	13 35.60	−10 50.9	2.088	3.023	7.9	20.7
4 1	13 27.25	−10 40.8	2.026	3.008	4.2	20.4
4 11	13 17.86	−10 24.3	1.992	2.993	0.7	20.1
4 21	13 8.31	−10 4.5	1.987	2.978	3.9	20.3
5 1	12 59.53	− 9 45.6	2.011	2.962	7.8	20.5
5 11	12 52.30	− 9 31.8	2.061	2.946	11.3	20.7

141357 2002 AU_{29} 4 10.8 43°.64 2°.1/ 8.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.51	− 3 51.7	2.216	3.014	13.1	20.0
3 12	13 37.17	− 3 18.8	2.135	3.019	10.2	19.8
3 22	13 31.93	− 2 38.5	2.076	3.025	7.0	19.6
4 1	13 25.27	− 1 54.8	2.044	3.030	3.6	19.4
4 11	13 17.90	− 1 12.4	2.039	3.036	2.3	19.3
4 21	13 10.61	− 0 36.1	2.063	3.042	5.2	19.5
5 1	13 4.16	− 0 10.0	2.114	3.048	8.5	19.7
5 11	12 59.17	+ 0 3.3	2.189	3.054	11.6	19.9

231221 2005 WM_{157} 4 10.8 144°.19 1°.1/12.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.50	−14 22.8	2.409	3.160	13.5	22.2
3 12	13 40.17	−14 5.3	2.320	3.172	10.8	22.0
3 22	13 33.93	−13 34.7	2.254	3.183	7.7	21.8
4 1	13 26.26	−12 52.5	2.213	3.193	4.3	21.6
4 11	13 17.88	−12 2.2	2.202	3.203	1.2	21.4
4 21	13 9.59	−11 8.2	2.220	3.212	3.5	21.6
5 1	13 2.16	−10 15.6	2.267	3.220	7.0	21.8
5 11	12 56.20	− 9 29.4	2.341	3.228	10.1	22.0

503211 2015 HN_{34} 4 10.8 307°.30 3°.3/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.72	+ 0 6.9	2.101	2.903	13.6	21.1
3 12	13 39.89	+ 0 30.6	2.012	2.897	10.7	20.9
3 22	13 33.94	+ 0 58.7	1.945	2.892	7.5	20.7
4 1	13 26.34	+ 1 27.1	1.904	2.887	4.3	20.5
4 11	13 17.88	+ 1 50.8	1.890	2.882	3.5	20.4
4 21	13 9.43	+ 2 5.5	1.905	2.878	6.2	20.6
5 1	13 1.86	+ 2 7.6	1.947	2.873	9.6	20.8
5 11	12 55.90	+ 1 55.6	2.012	2.868	12.8	21.0

153482 2001 RK_{69} 4 10.8 171°.42 1°.5/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 44.60	−15 18.7	2.252	3.004	14.3	21.3
3 12	13 40.50	−15 6.2	2.157	3.007	11.6	21.1
3 22	13 34.31	−14 39.2	2.083	3.010	8.3	20.9
4 1	13 26.51	−13 58.9	2.035	3.012	4.8	20.6
4 11	13 17.88	−13 8.5	2.015	3.014	1.6	20.4
4 21	13 9.26	−12 12.7	2.024	3.015	3.8	20.6
5 1	13 1.53	−11 17.0	2.061	3.016	7.4	20.8
5 11	12 55.38	−10 27.2	2.125	3.016	10.8	21.0

335556 2006 BV_{157} 4 10.8 193°.11 1°.9/12.5 17

3 2	13 44.43	−14 43.6	2.061	2.821	15.1	21.2
3 12	13 40.64	−14 52.6	1.966	2.821	12.3	21.0
3 22	13 34.57	−14 47.8	1.891	2.820	9.0	20.7
4 1	13 26.71	−14 29.8	1.842	2.820	5.2	20.5
4 11	13 17.88	−14 1.1	1.820	2.819	2.0	20.3
4 21	13 9.01	−13 25.7	1.826	2.818	4.1	20.4
5 1	13 1.08	−12 48.7	1.860	2.817	7.9	20.7
5 11	12 54.86	−12 15.7	1.919	2.816	11.4	20.9

380541 2004 KB_{13} 4 10.8 4°.09 23°.4/26.9 17

3 2	13 59.84	+36 36.3	1.029	1.818	25.4	20.1
3 12	13 55.28	+38 33.5	0.999	1.817	24.2	20.0
3 22	13 45.74	+39 55.1	0.981	1.817	23.5	20.0
4 1	13 32.49	+40 22.6	0.977	1.817	23.5	20.0
4 11	13 17.77	+39 44.2	0.988	1.818	24.2	20.0
4 21	13 4.06	+37 59.3	1.013	1.819	25.5	20.1
5 1	12 53.35	+35 16.5	1.052	1.822	27.2	20.2
5 11	12 46.66	+31 50.7	1.104	1.824	28.9	20.4

194580 2001 XY_{102} 4 10.8 242°.38 5°.4/ 6.2 17

3 2	13 47.34	+ 2 27.7	1.826	2.632	15.1	21.1
3 12	13 43.30	+ 3 29.4	1.728	2.615	12.1	20.9
3 22	13 36.64	+ 4 38.0	1.652	2.597	8.7	20.7
4 1	13 27.87	+ 5 46.5	1.601	2.579	5.9	20.4
4 11	13 17.86	+ 6 46.9	1.578	2.559	5.8	20.4
4 21	13 7.69	+ 7 31.7	1.582	2.539	8.8	20.5
5 1	12 58.51	+ 7 55.5	1.612	2.518	12.6	20.7
5 11	12 51.25	+ 7 56.2	1.663	2.496	16.1	20.9

124201 2001 OJ_{85} 4 10.8 214°.99 1°.9/ 9.1 17

3 2	13 46.07	− 7 6.1	1.887	2.675	15.4	20.8
3 12	13 42.14	− 6 17.3	1.789	2.667	12.2	20.5
3 22	13 35.73	− 5 14.9	1.712	2.658	8.4	20.3
4 1	13 27.35	− 4 2.9	1.661	2.648	4.2	20.0
4 11	13 17.87	− 2 48.0	1.638	2.637	2.1	19.8
4 21	13 8.30	− 1 37.5	1.643	2.625	5.9	20.0
5 1	12 59.73	− 0 38.5	1.676	2.613	10.2	20.3
5 11	12 53.00	+ 0 3.9	1.733	2.599	14.0	20.5

59936 1999 RJ_{188} 4 10.8 193°.59 0°.4/10.4 18

3 2	13 42.46	− 7 56.7	2.863	3.631	11.1	20.3
3 12	13 38.30	− 7 46.8	2.763	3.629	8.8	20.1
3 22	13 32.52	− 7 29.6	2.688	3.627	6.1	19.9
4 1	13 25.53	− 7 6.9	2.639	3.625	3.0	19.7
4 11	13 17.91	− 6 41.7	2.621	3.623	0.4	19.5
4 21	13 10.27	− 6 17.0	2.632	3.620	3.5	19.7
5 1	13 3.28	− 5 56.1	2.673	3.617	6.5	19.9
5 11	12 57.46	− 5 41.6	2.740	3.613	9.2	20.1

493573 2015 KB_{137} 4 10.8 313°.21 2°.4/ 8.7 17

3 2	13 41.95	− 2 57.1	2.089	2.889	13.7	20.9
3 12	13 38.57	− 2 34.5	1.995	2.880	10.8	20.7
3 22	13 33.08	− 2 5.0	1.923	2.872	7.4	20.4
4 1	13 25.93	− 1 32.3	1.877	2.863	3.9	20.2
4 11	13 17.90	− 1 1.2	1.859	2.855	2.6	20.1
4 21	13 9.83	− 0 36.3	1.868	2.848	5.6	20.3
5 1	13 2.61	− 0 21.9	1.904	2.840	9.2	20.5
5 11	12 56.96	− 0 20.5	1.964	2.833	12.6	20.7

98834 2001 AR_{15} 4 10.8 98°.06 3°.9/14.8 17

3 2	13 43.46	−21 44.6	2.082	2.813	15.9	19.9
3 12	13 39.82	−21 50.9	1.996	2.825	13.3	19.7
3 22	13 33.93	−21 38.5	1.931	2.837	10.1	19.5
4 1	13 26.34	−21 7.2	1.889	2.849	6.8	19.4
4 11	13 17.89	−20 19.0	1.874	2.861	4.2	19.2
4 21	13 9.53	−19 18.5	1.886	2.873	4.6	19.3
5 1	13 2.19	−18 12.3	1.926	2.885	7.5	19.5
5 11	12 56.59	−17 7.3	1.991	2.896	10.7	19.7

169193 2001 RS_{37} 4 10.8 112°.91 1°.5/ 9.1 18

3 2	13 39.84	− 7 29.4	2.329	3.116	12.8	20.5
3 12	13 36.54	− 6 36.6	2.246	3.124	10.1	20.3
3 22	13 31.44	− 5 33.2	2.186	3.133	6.8	20.1
4 1	13 25.00	− 4 23.1	2.154	3.141	3.4	19.9
4 11	13 17.92	− 3 11.8	2.150	3.149	1.6	19.8
4 21	13 10.93	− 2 5.0	2.175	3.157	4.7	20.0
5 1	13 4.74	− 1 7.9	2.228	3.165	8.0	20.2
5 11	12 59.94	− 0 24.2	2.306	3.173	11.0	20.4

405763 2005 YS_{183} 4 10.8 298°.75 6°.3/15.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 41.64	−23 51.5	1.416	2.174	21.0	21.1
3 12	13 39.89	−24 19.3	1.320	2.163	18.0	20.8
3 22	13 34.93	−24 21.0	1.241	2.151	14.2	20.5
4 1	13 27.24	−23 52.6	1.181	2.140	10.2	20.3
4 11	13 17.87	−22 54.4	1.144	2.129	6.8	20.0
4 21	13 8.27	−21 31.2	1.131	2.118	7.0	20.0
5 1	12 59.97	−19 53.3	1.142	2.108	10.7	20.2
5 11	12 54.20	−18 14.0	1.176	2.098	15.1	20.4

348896 2006 SE_{339} 4 10.8 97°.97 2°.0/ 8.4 17

3 2	13 39.63	− 5 17.4	2.428	3.219	12.3	21.3
3 12	13 36.25	− 4 22.0	2.350	3.231	9.6	21.1
3 22	13 31.16	− 3 17.9	2.297	3.244	6.5	21.0
4 1	13 24.84	− 2 9.6	2.270	3.257	3.3	20.8
4 11	13 17.93	− 1 2.3	2.273	3.269	2.2	20.7
4 21	13 11.13	− 0 1.4	2.305	3.282	4.9	20.9
5 1	13 5.11	+ 0 48.8	2.364	3.294	8.0	21.1
5 11	13 0.42	+ 1 25.2	2.449	3.306	10.8	21.3

117301 2004 VX_{4} 4 10.8 97°.53 2°.0/12.4 18

3 2	13 48.76	−15 17.5	1.653	2.420	18.1	20.9
3 12	13 44.35	−15 16.0	1.582	2.441	14.6	20.8
3 22	13 37.21	−14 56.7	1.532	2.463	10.5	20.5
4 1	13 28.02	−14 20.7	1.505	2.484	6.0	20.3
4 11	13 17.87	−13 32.3	1.504	2.504	2.1	20.1
4 21	13 7.98	−12 37.5	1.532	2.524	4.6	20.3
5 1	12 59.48	−11 43.8	1.586	2.543	8.9	20.6
5 11	12 53.18	−10 58.0	1.664	2.562	12.8	20.9

111633 2002 AQ_{147} 4 10.8 158°.94 4°.1/ 5.7 17

3 2	13 39.53	+ 2 37.1	2.538	3.342	11.4	20.1
3 12	13 36.15	+ 3 40.9	2.458	3.344	9.0	20.0
3 22	13 31.10	+ 4 48.5	2.402	3.347	6.4	19.8
4 1	13 24.82	+ 5 54.6	2.373	3.349	4.4	19.7
4 11	13 17.93	+ 6 53.6	2.373	3.351	4.5	19.7
4 21	13 11.11	+ 7 41.0	2.401	3.352	6.6	19.8
5 1	13 5.00	+ 8 13.1	2.457	3.354	9.2	20.0
5 11	13 0.15	+ 8 28.5	2.535	3.355	11.6	20.2

200905 2002 AG_{53} 4 10.8 92°.19 1°.9/12.3 18

3 2	13 45.34	−15 19.3	1.522	2.302	18.8	20.5
3 12	13 42.05	−15 13.9	1.445	2.312	15.3	20.3
3 22	13 35.87	−14 48.7	1.387	2.322	11.0	20.0
4 1	13 27.45	−14 5.1	1.351	2.332	6.2	19.8
4 11	13 17.89	−13 7.5	1.341	2.342	2.1	19.5
4 21	13 8.46	−12 3.2	1.358	2.351	4.9	19.7
5 1	13 0.39	−11 0.5	1.400	2.361	9.6	20.0
5 11	12 54.60	−10 7.4	1.466	2.370	13.9	20.3

220585 2004 JG_{28} 4 10.8 306°.00 2°.7/12.9 17

3 2	13 40.30	−16 53.1	1.613	2.392	18.0	20.6
3 12	13 38.29	−16 55.7	1.507	2.372	14.9	20.3
3 22	13 33.52	−16 38.3	1.420	2.352	11.1	20.0
4 1	13 26.43	−16 0.4	1.356	2.333	6.7	19.7
4 11	13 17.90	−15 4.6	1.316	2.314	2.9	19.4
4 21	13 9.11	−13 56.8	1.302	2.295	5.0	19.5
5 1	13 1.34	−12 45.6	1.313	2.277	9.7	19.7
5 11	12 55.65	−11 40.0	1.347	2.259	14.3	19.9

11084 Giò 4 10.8 46°.02 1°.7/ 9.5 18

3 2	13 42.07	− 8 27.0	1.290	2.110	19.5	18.5
3 12	13 39.75	− 7 43.4	1.225	2.120	15.4	18.2
3 22	13 34.40	− 6 42.2	1.178	2.132	10.5	18.0
4 1	13 26.71	− 5 29.1	1.154	2.143	5.2	17.7
4 11	13 17.90	− 4 13.0	1.155	2.156	1.9	17.5
4 21	13 9.32	− 3 3.7	1.180	2.168	6.7	17.8
5 1	13 2.24	− 2 9.6	1.230	2.181	11.7	18.2
5 11	12 57.57	− 1 36.2	1.300	2.194	16.0	18.4

465084 2006 TW_{127} 4 10.8 177°.22 1°.1/ 9.7 16

3 2	13 44.88	− 7 48.6	2.078	2.860	14.3	22.6
3 12	13 40.83	− 7 15.4	1.988	2.862	11.3	22.4
3 22	13 34.60	− 6 30.8	1.920	2.864	7.8	22.2
4 1	13 26.69	− 5 38.3	1.878	2.865	3.9	21.9
4 11	13 17.91	− 4 42.9	1.864	2.865	1.3	21.7
4 21	13 9.16	− 3 50.3	1.880	2.865	4.9	22.0
5 1	13 1.36	− 3 6.0	1.923	2.864	8.8	22.2
5 11	12 55.21	− 2 34.3	1.990	2.863	12.2	22.4

383998 2008 UH_{10} 4 10.8 258°.55 1°.4/12.2 17

3 2	13 41.86	−14 52.8	2.054	2.820	15.0	21.7
3 12	13 38.70	−14 40.1	1.950	2.810	12.2	21.5
3 22	13 33.29	−14 11.6	1.868	2.800	8.8	21.3
4 1	13 26.11	−13 28.5	1.810	2.790	5.0	21.0
4 11	13 17.93	−12 34.2	1.779	2.780	1.5	20.8
4 21	13 9.66	−11 33.8	1.777	2.769	4.1	20.9
5 1	13 2.25	−10 33.9	1.802	2.759	8.1	21.1
5 11	12 56.49	− 9 40.6	1.851	2.748	11.8	21.4

131611 2001 XX_{22} 4 10.8 130°.73 0°.3/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 48.32	− 9 15.2	1.652	2.439	17.3	19.7
3 12	13 44.10	− 9 4.3	1.573	2.448	13.7	19.5
3 22	13 37.14	− 8 40.2	1.514	2.457	9.5	19.3
4 1	13 28.06	− 8 5.6	1.479	2.466	4.8	19.0
4 11	13 17.90	− 7 25.3	1.472	2.474	0.4	18.7
4 21	13 7.85	− 6 45.5	1.491	2.481	5.2	19.1
5 1	12 59.10	− 6 12.2	1.538	2.489	9.8	19.4
5 11	12 52.50	− 5 50.5	1.608	2.495	13.8	19.6

297758 2001 XJ_{95} 4 10.8 203°.54 3°.8/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 48.22	− 0 58.7	1.757	2.558	15.8	21.0
3 12	13 43.94	− 0 19.6	1.669	2.555	12.5	20.8
3 22	13 37.02	+ 0 27.0	1.603	2.551	8.7	20.6
4 1	13 28.02	+ 1 15.8	1.562	2.546	5.0	20.3
4 11	13 17.90	+ 1 59.9	1.548	2.541	4.0	20.2
4 21	13 7.78	+ 2 32.9	1.562	2.535	7.3	20.4
5 1	12 58.79	+ 2 50.0	1.602	2.529	11.3	20.6
5 11	12 51.82	+ 2 48.7	1.665	2.522	15.0	20.8

119773 2002 AB_{11} 4 10.8 354°.48 6°.8/17.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.78	−27 52.1	2.279	2.966	15.8	19.4
3 12	13 41.05	−28 52.4	2.179	2.965	13.7	19.2
3 22	13 34.98	−29 35.7	2.099	2.964	11.4	19.1
4 1	13 27.00	−29 58.8	2.041	2.963	9.0	18.9
4 11	13 17.92	−30 0.5	2.008	2.962	7.2	18.8
4 21	13 8.68	−29 41.9	2.001	2.962	7.0	18.8
5 1	13 0.31	−29 7.0	2.021	2.962	8.5	18.9
5 11	12 53.66	−28 22.2	2.066	2.962	10.8	19.0

54625 2000 SC_{49} 4 10.8 233°.46 0°.1/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 33.01	− 9 45.4	4.702	5.464	7.2	20.0
3 12	13 30.31	− 9 18.4	4.598	5.461	5.6	19.9
3 22	13 26.73	− 8 45.7	4.520	5.458	3.9	19.7
4 1	13 22.53	− 8 9.0	4.470	5.455	1.9	19.6
4 11	13 18.02	− 7 30.1	4.450	5.452	0.2	19.4
4 21	13 13.51	− 6 51.2	4.461	5.449	2.1	19.6
5 1	13 9.33	− 6 14.6	4.502	5.447	4.1	19.7
5 11	13 5.77	− 5 42.3	4.570	5.444	5.8	19.8

296997 2010 FC_{17} 4 10.8 126°.80 0°.5/10.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.80	−11 7.6	2.244	3.022	13.5	21.3
3 12	13 36.66	−10 18.0	2.155	3.027	10.7	21.1
3 22	13 31.61	− 9 14.6	2.090	3.032	7.4	20.9
4 1	13 25.15	− 8 0.9	2.050	3.037	3.7	20.7
4 11	13 17.98	− 6 42.3	2.039	3.041	0.5	20.5
4 21	13 10.88	− 5 24.8	2.058	3.046	4.2	20.8
5 1	13 4.61	− 4 14.6	2.104	3.050	7.8	21.0
5 11	12 59.78	− 3 16.7	2.176	3.055	11.1	21.2

496436 2014 LZ_{26} 4 10.8 301°.31 7°.4/14.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.10	−23 7.2	1.404	2.162	21.1	20.7
3 12	13 42.59	−23 55.4	1.274	2.117	18.4	20.4
3 22	13 37.56	−24 22.4	1.161	2.071	15.0	20.0
4 1	13 29.08	−24 21.6	1.066	2.025	11.0	19.7
4 11	13 17.90	−23 48.6	0.994	1.978	7.8	19.3
4 21	13 5.45	−22 42.9	0.945	1.930	8.3	19.2
5 1	12 53.66	−21 11.1	0.919	1.883	12.8	19.2
5 11	12 44.42	−19 27.0	0.913	1.835	18.4	19.4

275694 2000 SZ_{281} 4 10.8 199°.52 0°.0/10.9 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.85	−12 46.1	2.347	3.112	13.4	21.5
3 12	13 38.27	−11 58.1	2.246	3.108	10.7	21.3
3 22	13 32.75	−10 55.2	2.167	3.104	7.5	21.1
4 1	13 25.75	− 9 40.2	2.115	3.100	3.8	20.8
4 11	13 17.98	− 8 17.8	2.093	3.095	0.1	20.5
4 21	13 10.20	− 6 54.3	2.100	3.089	4.0	20.8
5 1	13 3.21	− 5 36.0	2.136	3.083	7.7	21.0
5 11	12 57.66	− 4 28.6	2.198	3.076	11.0	21.2

86273 1999 TX_{292} 4 10.8 232°.64 1°.8/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.24	−15 24.8	2.726	3.470	12.2	19.6
3 12	13 38.36	−15 31.7	2.619	3.464	10.0	19.4
3 22	13 32.72	−15 27.5	2.535	3.457	7.3	19.2
4 1	13 25.72	−15 12.8	2.476	3.451	4.3	19.0
4 11	13 17.98	−14 49.4	2.446	3.444	1.9	18.9
4 21	13 10.18	−14 20.1	2.446	3.437	3.3	18.9
5 1	13 3.02	−13 48.7	2.474	3.430	6.3	19.1
5 11	12 57.12	−13 19.3	2.529	3.422	9.2	19.3

498132 2007 TD_{39} 4 10.8 129°.57 1°.2/ 9.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.92	− 6 4.0	2.481	3.261	12.3	22.1
3 12	13 38.84	− 5 39.8	2.396	3.271	9.7	21.9
3 22	13 32.97	− 5 8.0	2.336	3.280	6.6	21.7
4 1	13 25.80	− 4 31.5	2.302	3.289	3.3	21.5
4 11	13 17.98	− 3 54.1	2.297	3.297	1.3	21.4
4 21	13 10.25	− 3 20.1	2.322	3.306	4.3	21.6
5 1	13 3.30	− 2 53.0	2.375	3.314	7.5	21.8
5 11	12 57.72	− 2 35.9	2.454	3.322	10.4	22.0

218361 2004 GZ_{37} 4 10.8 287°.50 3°.1/14.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 40.53	−22 23.3	2.556	3.274	13.6	20.2
3 12	13 37.42	−22 1.3	2.418	3.240	11.4	20.0
3 22	13 32.34	−21 20.4	2.300	3.204	8.8	19.7
4 1	13 25.65	−20 19.9	2.207	3.169	5.9	19.5
4 11	13 17.98	−19 1.7	2.143	3.133	3.4	19.3
4 21	13 10.08	−17 29.8	2.107	3.096	4.0	19.2
5 1	13 2.78	−15 50.7	2.101	3.059	7.0	19.4
5 11	12 56.82	−14 12.0	2.122	3.022	10.4	19.5

134668 1999 VX_{169} 4 10.8 105°.60 0°.3/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.84	−11 14.6	1.776	2.554	16.5	20.5
3 12	13 42.68	−11 1.5	1.700	2.570	13.2	20.3
3 22	13 36.00	−10 34.1	1.645	2.585	9.2	20.1
4 1	13 27.43	− 9 55.1	1.615	2.600	4.8	19.8
4 11	13 17.96	− 9 9.0	1.613	2.615	0.3	19.5
4 21	13 8.66	− 8 21.8	1.638	2.629	4.6	19.9
5 1	13 0.57	− 7 39.6	1.690	2.643	8.9	20.2
5 11	12 54.47	− 7 7.5	1.766	2.656	12.7	20.4

105022 2000 KQ_{29} 4 10.8 260°.56 5°.6/ 5.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.95	+ 7 21.5	2.218	3.023	12.8	19.4
3 12	13 39.93	+ 8 6.8	2.136	3.019	10.3	19.2
3 22	13 33.89	+ 8 52.0	2.077	3.015	7.7	19.0
4 1	13 26.33	+ 9 31.5	2.044	3.011	5.8	18.9
4 11	13 17.99	+ 9 59.4	2.039	3.007	6.0	18.9
4 21	13 9.69	+10 11.5	2.061	3.003	8.1	19.0
5 1	13 2.28	+10 5.6	2.109	2.999	10.8	19.2
5 11	12 56.41	+ 9 41.2	2.179	2.994	13.4	19.3

301501 2009 EQ_{22} 4 10.8 348°.99 1°.4/ 9.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.10	− 5 16.4	2.063	2.858	14.0	20.8
3 12	13 38.71	− 5 5.0	1.973	2.855	11.1	20.5
3 22	13 33.18	− 4 45.7	1.905	2.853	7.6	20.3
4 1	13 26.02	− 4 21.4	1.863	2.850	3.8	20.1
4 11	13 17.99	− 3 56.4	1.848	2.848	1.5	19.9
4 21	13 9.96	− 3 35.0	1.861	2.847	4.9	20.1
5 1	13 2.82	− 3 21.3	1.901	2.846	8.7	20.4
5 11	12 57.27	− 3 18.2	1.966	2.845	12.1	20.6

76675 2000 HL_{61} 4 10.8 136°.74 3°.1/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.62	+ 0 15.4	2.386	3.178	12.4	19.7
3 12	13 40.23	+ 0 43.4	2.305	3.185	9.7	19.6
3 22	13 33.96	+ 1 15.2	2.247	3.192	6.8	19.4
4 1	13 26.31	+ 1 46.9	2.216	3.199	3.9	19.2
4 11	13 17.99	+ 2 14.0	2.214	3.205	3.3	19.2
4 21	13 9.76	+ 2 32.6	2.241	3.211	5.7	19.3
5 1	13 2.37	+ 2 39.9	2.296	3.216	8.7	19.5
5 11	12 56.42	+ 2 34.4	2.375	3.222	11.4	19.7

155328 2006 BG_{13} 4 10.8 149°.49 2°.5/13.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.07	−17 59.7	2.187	2.931	14.9	21.0
3 12	13 40.19	−17 54.1	2.095	2.938	12.2	20.8
3 22	13 34.16	−17 32.3	2.024	2.944	9.0	20.6
4 1	13 26.50	−16 54.9	1.978	2.950	5.5	20.4
4 11	13 17.99	−16 4.6	1.959	2.955	2.6	20.2
4 21	13 9.52	−15 6.2	1.969	2.960	3.9	20.3
5 1	13 1.98	−14 5.6	2.007	2.965	7.4	20.5
5 11	12 56.07	−13 9.0	2.071	2.969	10.7	20.7

137009 1998 SS_{120} 4 10.8 229°.39 1°.7/ 9.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.10	− 5 45.4	2.382	3.168	12.6	21.3
3 12	13 38.44	− 5 7.8	2.281	3.159	10.0	21.1
3 22	13 32.88	− 4 21.1	2.203	3.149	6.8	20.9
4 1	13 25.84	− 3 28.5	2.152	3.139	3.5	20.7
4 11	13 18.01	− 2 34.9	2.130	3.128	1.8	20.5
4 21	13 10.13	− 1 45.2	2.136	3.117	4.8	20.7
5 1	13 2.98	− 1 4.2	2.171	3.106	8.3	20.9
5 11	12 57.22	− 0 35.4	2.231	3.095	11.4	21.1

272497 2005 UM_{155} 4 10.8 91°.82 4°.7/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.07	+ 1 19.0	1.849	2.659	14.8	20.8
3 12	13 40.25	+ 2 23.3	1.785	2.676	11.6	20.6
3 22	13 34.17	+ 3 32.8	1.744	2.692	8.1	20.4
4 1	13 26.46	+ 4 40.6	1.728	2.708	5.3	20.3
4 11	13 18.00	+ 5 39.3	1.740	2.723	5.1	20.3
4 21	13 9.76	+ 6 23.0	1.779	2.739	7.7	20.5
5 1	13 2.65	+ 6 47.7	1.844	2.754	11.0	20.7
5 11	12 57.33	+ 6 52.2	1.931	2.769	14.0	20.9

501305 2013 WS_{71} 4 10.8 155°.81 0°.7/11.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.65	−12 48.1	2.526	3.282	12.8	22.9
3 12	13 39.46	−12 30.2	2.434	3.290	10.2	22.8
3 22	13 33.44	−12 0.6	2.364	3.297	7.2	22.6
4 1	13 26.07	−11 21.0	2.321	3.303	3.9	22.4
4 11	13 18.01	−10 34.9	2.307	3.309	0.7	22.1
4 21	13 10.00	− 9 46.3	2.323	3.314	3.4	22.4
5 1	13 2.78	− 8 59.9	2.368	3.319	6.8	22.6
5 11	12 56.93	− 8 20.1	2.439	3.323	9.8	22.8

378862 2008 TZ_{85} 4 10.8 154°.53 0°.4/11.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 44.80	−10 50.1	2.181	2.951	14.1	21.7
3 12	13 40.71	−10 45.9	2.090	2.955	11.3	21.6
3 22	13 34.51	−10 30.5	2.021	2.958	7.9	21.3
4 1	13 26.68	−10 5.8	1.977	2.961	4.1	21.1
4 11	13 18.00	− 9 34.9	1.962	2.964	0.4	20.8
4 21	13 9.35	− 9 2.1	1.976	2.967	4.0	21.1
5 1	13 1.59	− 8 32.0	2.017	2.969	7.8	21.3
5 11	12 55.43	− 8 8.8	2.084	2.971	11.1	21.6

333675 2008 TK_{80} 4 10.8 237°.25 0°.5/10.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.23	− 8 18.1	2.168	2.948	13.9	21.5
3 12	13 40.37	− 8 4.2	2.067	2.939	11.1	21.3
3 22	13 34.36	− 7 40.2	1.988	2.931	7.7	21.1
4 1	13 26.65	− 7 8.3	1.935	2.922	3.9	20.8
4 11	13 18.01	− 6 32.4	1.910	2.912	0.6	20.5
4 21	13 9.29	− 5 57.1	1.914	2.902	4.4	20.8
5 1	13 1.39	− 5 27.1	1.946	2.892	8.3	21.0
5 11	12 55.08	− 5 6.5	2.002	2.882	11.8	21.2

301839 1488 $T\text{-}_{2}$ 4 10.8 180°.03 0°.1/10.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 47.12	−10 57.7	1.993	2.764	15.3	22.6
3 12	13 42.78	−10 31.6	1.900	2.766	12.2	22.4
3 22	13 36.07	− 9 51.4	1.828	2.767	8.5	22.2
4 1	13 27.52	− 8 59.8	1.782	2.767	4.3	22.0
4 11	13 18.00	− 8 1.5	1.765	2.767	0.1	21.6
4 21	13 8.49	− 7 2.4	1.776	2.766	4.5	22.0
5 1	12 59.99	− 6 8.9	1.816	2.764	8.7	22.2
5 11	12 53.29	− 5 26.2	1.880	2.761	12.5	22.4

238128 2003 QH_{13} 4 10.9 189°.18 1°.3/12.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.96	−14 32.1	2.893	3.631	11.7	21.7
3 12	13 40.33	−14 29.8	2.787	3.630	9.5	21.6
3 22	13 33.99	−14 16.9	2.704	3.628	6.9	21.4
4 1	13 26.35	−13 54.3	2.649	3.625	3.9	21.2
4 11	13 18.02	−13 24.0	2.622	3.622	1.4	21.0
4 21	13 9.66	−12 49.1	2.627	3.618	3.1	21.1
5 1	13 1.95	−12 13.3	2.661	3.613	6.1	21.3
5 11	12 55.47	−11 40.5	2.723	3.608	8.9	21.5

307596 2003 OC_{24} 4 10.9 189°.04 4°.2/ 6.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.89	− 0 11.2	2.115	2.913	13.6	20.7
3 12	13 40.80	+ 1 5.3	2.028	2.913	10.7	20.5
3 22	13 34.58	+ 2 29.9	1.965	2.911	7.5	20.3
4 1	13 26.72	+ 3 56.0	1.929	2.909	4.8	20.2
4 11	13 18.02	+ 5 16.4	1.922	2.906	4.6	20.1
4 21	13 9.35	+ 6 24.0	1.944	2.902	7.3	20.3
5 1	13 1.59	+ 7 13.8	1.992	2.897	10.6	20.5
5 11	12 55.44	+ 7 43.1	2.064	2.891	13.6	20.7

119237 2001 QE_{275} 4 10.9 89°.23 3°.0/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.68	− 3 7.4	1.824	2.625	15.4	19.5
3 12	13 41.50	− 2 18.1	1.762	2.647	12.0	19.4
3 22	13 35.02	− 1 20.6	1.721	2.670	8.2	19.2
4 1	13 26.88	− 0 20.4	1.706	2.692	4.4	19.0
4 11	13 18.02	+ 0 35.7	1.719	2.713	3.3	19.0
4 21	13 9.43	+ 1 21.7	1.759	2.734	6.4	19.2
5 1	13 2.02	+ 1 53.0	1.826	2.755	10.0	19.5
5 11	12 56.47	+ 2 7.2	1.917	2.776	13.2	19.7

279446 2010 RM_{59} 4 10.9 278°.24 1°.0/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.28	−14 37.9	1.620	2.405	17.6	21.1
3 12	13 38.94	−14 10.4	1.519	2.391	14.4	20.8
3 22	13 33.89	−13 21.8	1.439	2.378	10.3	20.5
4 1	13 26.60	−12 13.7	1.381	2.364	5.6	20.2
4 11	13 18.02	−10 51.2	1.349	2.351	1.1	19.9
4 21	13 9.28	− 9 22.4	1.344	2.337	5.0	20.1
5 1	13 1.61	− 7 57.0	1.365	2.324	10.0	20.4
5 11	12 56.01	− 6 44.0	1.409	2.310	14.5	20.6

18031 1999 LO_{14} 4 10.9 99°.28 6°.9/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.45	+ 7 58.8	1.927	2.741	14.1	17.8
3 12	13 39.70	+ 9 24.6	1.868	2.755	11.3	17.7
3 22	13 33.77	+10 50.3	1.832	2.769	8.7	17.5
4 1	13 26.26	+12 7.8	1.822	2.782	7.0	17.4
4 11	13 18.03	+13 9.2	1.839	2.796	7.5	17.5
4 21	13 10.01	+13 49.0	1.882	2.809	9.7	17.6
5 1	13 3.07	+14 4.6	1.949	2.822	12.3	17.8
5 11	12 57.86	+13 56.5	2.037	2.834	14.8	18.0

76019 2000 DU_{31} 4 10.9 86°.16 1°.1/ 9.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.30	− 7 54.3	2.070	2.860	14.1	20.7
3 12	13 38.04	− 7 22.3	1.983	2.861	11.2	20.5
3 22	13 32.71	− 6 39.0	1.917	2.863	7.7	20.2
4 1	13 25.78	− 5 47.9	1.877	2.865	3.8	20.0
4 11	13 18.04	− 4 54.0	1.865	2.866	1.2	19.8
4 21	13 10.34	− 4 2.9	1.882	2.868	4.8	20.1
5 1	13 3.53	− 3 20.0	1.925	2.870	8.6	20.3
5 11	12 58.30	− 2 49.4	1.993	2.871	12.0	20.5

195588 2002 JR_{124} 4 10.9 340°.42 3°.9/ 6.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 38.00	− 3 4.0	1.674	2.495	15.6	19.9
3 12	13 35.98	− 1 50.3	1.591	2.489	12.3	19.6
3 22	13 31.57	− 0 24.2	1.530	2.484	8.4	19.4
4 1	13 25.30	+ 1 7.3	1.493	2.479	4.9	19.2
4 11	13 18.05	+ 2 35.2	1.483	2.475	4.4	19.1
4 21	13 10.81	+ 3 50.8	1.500	2.471	7.7	19.3
5 1	13 4.60	+ 4 46.9	1.541	2.467	11.7	19.5
5 11	13 0.21	+ 5 19.9	1.604	2.465	15.3	19.7

237690 2001 TW_{195} 4 10.9 163°.35 2°.4/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.44	− 3 51.3	2.783	3.570	11.0	21.2
3 12	13 35.94	− 2 42.7	2.695	3.575	8.5	21.0
3 22	13 30.91	− 1 26.4	2.632	3.579	5.8	20.8
4 1	13 24.77	− 0 6.7	2.598	3.583	3.2	20.7
4 11	13 18.07	+ 1 11.2	2.594	3.586	2.6	20.6
4 21	13 11.42	+ 2 22.2	2.620	3.589	5.0	20.8
5 1	13 5.42	+ 3 22.0	2.674	3.592	7.7	21.0
5 11	13 0.56	+ 4 7.6	2.754	3.594	10.2	21.1

204139 2003 YD_{48} 4 10.9 6°.27 3°.5/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.48	− 0 25.8	1.979	2.786	14.1	19.9
3 12	13 39.04	+ 0 11.5	1.897	2.786	11.1	19.7
3 22	13 33.43	+ 0 54.6	1.837	2.786	7.7	19.5
4 1	13 26.16	+ 1 38.6	1.803	2.787	4.5	19.3
4 11	13 18.05	+ 2 17.7	1.796	2.787	3.8	19.3
4 21	13 9.99	+ 2 46.6	1.817	2.788	6.6	19.4
5 1	13 2.88	+ 3 1.3	1.863	2.789	10.0	19.6
5 11	12 57.44	+ 2 59.9	1.933	2.790	13.2	19.8

87542 2000 QA_{214} 4 10.9 241°.13 0°.1/10.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.03	− 9 46.6	2.638	3.406	12.0	20.4
3 12	13 38.24	− 9 32.6	2.530	3.395	9.6	20.2
3 22	13 32.68	− 9 9.1	2.445	3.383	6.7	20.0
4 1	13 25.75	− 8 38.1	2.386	3.371	3.4	19.8
4 11	13 18.05	− 8 2.5	2.357	3.359	0.1	19.4
4 21	13 10.29	− 7 26.1	2.357	3.347	3.6	19.7
5 1	13 3.17	− 6 52.9	2.386	3.334	7.0	19.9
5 11	12 57.30	− 6 26.6	2.441	3.321	10.0	20.1

501527 2014 FR_{3} 4 10.9 126°.65 4°.6/ 4.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.38	+ 5 9.4	2.622	3.424	11.1	22.0
3 12	13 36.74	+ 6 12.9	2.549	3.433	8.8	21.8
3 22	13 31.48	+ 7 18.0	2.501	3.442	6.4	21.7
4 1	13 25.05	+ 8 19.5	2.481	3.450	4.8	21.6
4 11	13 18.08	+ 9 12.1	2.489	3.458	5.0	21.6
4 21	13 11.19	+ 9 51.5	2.526	3.466	6.9	21.7
5 1	13 5.03	+10 15.1	2.589	3.474	9.2	21.9
5 11	13 0.12	+10 21.8	2.675	3.481	11.4	22.0

391338 2006 UB_{79} 4 10.9 157°.75 1°.7/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.17	−17 6.4	2.590	3.335	12.8	21.4
3 12	13 36.77	−16 46.5	2.493	3.338	10.4	21.3
3 22	13 31.63	−16 12.5	2.418	3.341	7.6	21.1
4 1	13 25.19	−15 25.5	2.369	3.343	4.5	20.9
4 11	13 18.07	−14 28.6	2.348	3.346	1.8	20.7
4 21	13 10.99	−13 26.1	2.356	3.348	3.3	20.8
5 1	13 4.62	−12 23.1	2.394	3.350	6.4	21.0
5 11	12 59.56	−11 24.8	2.457	3.352	9.4	21.2

409230 2003 YZ_{157} 4 10.9 148°.20 2°.5/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.15	−17 47.3	1.882	2.636	16.6	21.4
3 12	13 41.43	−17 38.8	1.793	2.642	13.6	21.2
3 22	13 35.24	−17 11.7	1.725	2.649	10.0	20.9
4 1	13 27.14	−16 26.5	1.680	2.654	6.0	20.7
4 11	13 18.05	−15 26.7	1.662	2.660	2.7	20.5
4 21	13 9.01	−14 18.2	1.673	2.665	4.4	20.6
5 1	13 1.06	−13 8.2	1.710	2.669	8.3	20.9
5 11	12 55.02	−12 4.4	1.773	2.673	12.1	21.1

300023 2006 UD_{91} 4 10.9 201°.24 0°.4/10.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.25	− 8 45.0	2.888	3.656	11.1	22.1
3 12	13 37.39	− 8 21.4	2.787	3.653	8.8	21.9
3 22	13 31.95	− 7 49.2	2.709	3.648	6.0	21.7
4 1	13 25.33	− 7 10.8	2.658	3.644	3.0	21.5
4 11	13 18.08	− 6 29.3	2.637	3.639	0.5	21.3
4 21	13 10.82	− 5 48.4	2.646	3.633	3.5	21.5
5 1	13 4.17	− 5 11.8	2.684	3.628	6.5	21.7
5 11	12 58.66	− 4 42.7	2.749	3.621	9.2	21.9

472895 2015 FU_{327} 4 10.9 272°.02 3°.9/ 6.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.81	+ 1 19.7	2.181	2.983	13.1	20.8
3 12	13 39.22	+ 2 0.9	2.083	2.969	10.4	20.6
3 22	13 33.55	+ 2 46.9	2.009	2.955	7.3	20.4
4 1	13 26.27	+ 3 33.0	1.961	2.941	4.6	20.2
4 11	13 18.08	+ 4 13.4	1.940	2.927	4.3	20.2
4 21	13 9.82	+ 4 42.9	1.948	2.912	6.8	20.3
5 1	13 2.37	+ 4 57.8	1.982	2.897	10.1	20.4
5 11	12 56.43	+ 4 55.9	2.039	2.883	13.2	20.6

262752 2006 XD_{57} 4 10.9 57°.81 3°.6/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 44.44	− 2 1.6	1.557	2.372	16.9	20.3
3 12	13 41.05	− 1 20.1	1.491	2.384	13.2	20.1
3 22	13 35.02	− 0 30.1	1.445	2.397	9.1	19.9
4 1	13 27.01	+ 0 22.0	1.425	2.410	5.0	19.7
4 11	13 18.07	+ 1 9.0	1.430	2.424	3.9	19.7
4 21	13 9.35	+ 1 44.2	1.461	2.437	7.2	19.9
5 1	13 1.94	+ 2 2.9	1.517	2.451	11.3	20.1
5 11	12 56.62	+ 2 2.8	1.595	2.465	14.9	20.4

106304 2000 UO_{88} 4 10.9 196°.50 4°.9/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.53	+ 8 0.1	2.601	3.392	11.5	20.1
3 12	13 41.61	+ 8 27.0	2.516	3.390	9.3	20.0
3 22	13 34.88	+ 8 52.5	2.455	3.389	6.9	19.8
4 1	13 26.81	+ 9 12.2	2.422	3.387	5.1	19.7
4 11	13 18.08	+ 9 21.8	2.417	3.385	5.2	19.7
4 21	13 9.42	+ 9 18.3	2.441	3.383	7.0	19.8
5 1	13 1.54	+ 9 0.2	2.493	3.381	9.4	20.0
5 11	12 55.05	+ 8 27.4	2.568	3.379	11.7	20.1

474751 2005 QE_{12} 4 10.9 200°.07 5°.6/17.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.58	−29 28.1	2.960	3.617	13.0	22.0
3 12	13 40.31	−30 4.2	2.850	3.613	11.4	21.9
3 22	13 34.17	−30 25.0	2.760	3.610	9.4	21.7
4 1	13 26.54	−30 28.5	2.693	3.606	7.5	21.6
4 11	13 18.08	−30 14.2	2.653	3.602	6.0	21.5
4 21	13 9.52	−29 43.5	2.640	3.597	5.7	21.4
5 1	13 1.62	−29 0.0	2.656	3.592	6.9	21.5
5 11	12 55.05	−28 8.6	2.698	3.587	8.8	21.6

498832 2008 WQ_{17} 4 10.9 243°.53 4°.0/ 7.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.22	+ 2 23.7	2.167	2.964	13.3	21.5
3 12	13 41.89	+ 2 53.7	2.072	2.954	10.6	21.3
3 22	13 35.38	+ 3 26.8	2.000	2.944	7.5	21.1
4 1	13 27.19	+ 3 58.4	1.955	2.934	4.8	20.9
4 11	13 18.08	+ 4 23.2	1.938	2.923	4.3	20.8
4 21	13 8.93	+ 4 36.9	1.949	2.913	6.8	21.0
5 1	13 0.64	+ 4 36.1	1.986	2.901	10.1	21.2
5 11	12 53.96	+ 4 19.6	2.048	2.890	13.2	21.3

221086 2005 SG_{54} 4 10.9 254°.92 0°.0/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.21	−10 13.4	1.884	2.667	15.6	21.1
3 12	13 40.77	−10 1.6	1.785	2.658	12.5	20.8
3 22	13 34.88	− 9 36.8	1.707	2.649	8.8	20.6
4 1	13 27.04	− 9 1.1	1.654	2.639	4.5	20.3
4 11	13 18.08	− 8 18.4	1.627	2.629	0.1	19.9
4 21	13 9.01	− 7 34.3	1.629	2.620	4.7	20.3
5 1	13 0.90	− 6 54.8	1.657	2.609	9.1	20.5
5 11	12 54.61	− 6 25.1	1.710	2.599	13.0	20.7

34440 2000 SV_{46} 4 10.9 69°.16 6°.5/18.6 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.36	−30 33.9	2.303	2.976	16.0	17.7
3 12	13 39.71	−31 2.5	2.221	2.995	13.9	17.6
3 22	13 33.88	−31 10.3	2.158	3.014	11.5	17.5
4 1	13 26.39	−30 55.1	2.117	3.033	9.0	17.3
4 11	13 18.09	−30 17.4	2.100	3.053	7.1	17.3
4 21	13 9.89	−29 20.4	2.110	3.072	6.6	17.3
5 1	13 2.71	−28 9.8	2.147	3.091	7.9	17.4
5 11	12 57.22	−26 53.0	2.210	3.110	10.0	17.5

66621 1999 RD_{204} 4 10.9 305°.82 7°.5/16.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.16	−25 33.0	1.818	2.538	18.2	18.7
3 12	13 42.19	−26 40.1	1.710	2.521	15.9	18.4
3 22	13 36.34	−27 29.6	1.619	2.505	13.0	18.2
4 1	13 28.01	−27 56.9	1.550	2.488	10.1	18.0
4 11	13 18.07	−27 59.5	1.505	2.472	7.9	17.8
4 21	13 7.72	−27 37.9	1.485	2.456	7.8	17.8
5 1	12 58.33	−26 57.0	1.490	2.440	10.1	17.9
5 11	12 51.05	−26 4.8	1.519	2.425	13.3	18.0

30314 Yelenam 4 10.9 103°.46 3°.4/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 48.75	− 2 32.4	1.495	2.304	17.8	18.6
3 12	13 44.60	− 1 57.1	1.427	2.317	14.0	18.4
3 22	13 37.56	− 1 12.9	1.380	2.330	9.6	18.2
4 1	13 28.34	− 0 25.5	1.356	2.343	5.2	17.9
4 11	13 18.07	+ 0 17.5	1.359	2.355	3.6	17.9
4 21	13 8.04	+ 0 49.6	1.389	2.367	7.3	18.1
5 1	12 59.46	+ 1 5.6	1.443	2.378	11.6	18.4
5 11	12 53.19	+ 1 3.3	1.519	2.390	15.5	18.6

424170 2007 HJ_{45} 4 10.9 311°.94 1°.5/12.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 37.36	−17 31.6	1.725	2.502	17.0	20.8
3 12	13 35.66	−16 47.5	1.622	2.487	14.0	20.5
3 22	13 31.51	−15 39.1	1.538	2.473	10.2	20.3
4 1	13 25.37	−14 7.9	1.478	2.459	5.8	20.0
4 11	13 18.11	−12 19.5	1.445	2.445	1.6	19.7
4 21	13 10.75	−10 22.7	1.438	2.432	4.6	19.8
5 1	13 4.38	− 8 28.3	1.458	2.419	9.3	20.1
5 11	12 59.86	− 6 46.3	1.503	2.407	13.6	20.3

391650 2007 VQ_{310} 4 10.9 116°.29 1°.0/ 9.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 41.63	− 6 54.9	2.640	3.417	11.7	21.9
3 12	13 37.71	− 6 24.9	2.558	3.431	9.2	21.7
3 22	13 32.17	− 5 46.9	2.501	3.444	6.3	21.6
4 1	13 25.43	− 5 4.0	2.470	3.457	3.1	21.4
4 11	13 18.13	− 4 19.9	2.469	3.470	1.1	21.2
4 21	13 10.92	− 3 38.8	2.498	3.482	3.9	21.5
5 1	13 4.45	− 3 4.4	2.555	3.494	7.0	21.7
5 11	12 59.24	− 2 39.6	2.638	3.506	9.7	21.9

295140 2008 FT_{39} 4 10.9 226°.56 1°.0/ 9.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 34.59	− 4 12.2	4.624	5.401	7.1	21.3
3 12	13 31.56	− 3 53.2	4.526	5.399	5.5	21.2
3 22	13 27.63	− 3 30.8	4.453	5.397	3.7	21.1
4 1	13 23.06	− 3 6.6	4.409	5.395	1.9	20.9
4 11	13 18.16	− 2 42.7	4.394	5.393	1.0	20.8
4 21	13 13.27	− 2 20.8	4.411	5.391	2.6	21.0
5 1	13 8.72	− 2 3.0	4.456	5.388	4.5	21.1
5 11	13 4.80	− 1 50.5	4.529	5.386	6.2	21.2

33691 Andrewchiang 4 10.9 312°.48 2°.4/13.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.60	−18 33.0	2.246	2.994	14.4	19.4
3 12	13 36.72	−18 20.4	2.146	2.991	11.8	19.2
3 22	13 31.83	−17 51.0	2.067	2.988	8.8	19.0
4 1	13 25.39	−17 5.4	2.013	2.985	5.4	18.7
4 11	13 18.13	−16 6.7	1.986	2.982	2.6	18.5
4 21	13 10.84	−14 59.7	1.987	2.979	3.8	18.6
5 1	13 4.37	−13 50.5	2.016	2.976	7.2	18.8
5 11	12 59.39	−12 45.4	2.071	2.974	10.5	19.0

140599 2001 TX_{238} 4 10.9 234°.17 4°.8/ 5.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.84	+ 4 3.2	2.285	3.093	12.4	20.0
3 12	13 37.47	+ 5 5.2	2.202	3.090	9.8	19.8
3 22	13 32.21	+ 6 10.3	2.143	3.087	7.1	19.6
4 1	13 25.53	+ 7 12.9	2.111	3.084	5.1	19.5
4 11	13 18.13	+ 8 6.8	2.106	3.081	5.3	19.5
4 21	13 10.76	+ 8 46.8	2.129	3.077	7.5	19.6
5 1	13 4.19	+ 9 9.4	2.178	3.074	10.2	19.8
5 11	12 59.04	+ 9 13.3	2.250	3.070	12.9	20.0

306805 2001 QO_{65} 4 10.9 102°.68 6°.1/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.65	+ 6 24.3	2.323	3.121	12.5	20.1
3 12	13 40.89	+ 8 25.2	2.275	3.154	9.9	20.0
3 22	13 34.32	+10 26.8	2.253	3.186	7.5	19.9
4 1	13 26.47	+12 20.7	2.260	3.217	6.1	19.9
4 11	13 18.12	+13 59.2	2.297	3.247	6.7	20.0
4 21	13 10.04	+15 16.8	2.363	3.276	8.7	20.1
5 1	13 2.92	+16 10.4	2.455	3.304	10.9	20.3
5 11	12 57.32	+16 40.3	2.569	3.331	13.0	20.5

158230 2001 SH_{247} 4 10.9 289°.16 2°.3/ 9.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.53	− 6 48.5	1.396	2.212	18.4	20.3
3 12	13 40.41	− 6 9.7	1.299	2.194	14.7	20.0
3 22	13 35.23	− 5 14.1	1.222	2.175	10.2	19.7
4 1	13 27.46	− 4 5.9	1.168	2.157	5.2	19.3
4 11	13 18.10	− 2 53.3	1.138	2.138	2.5	19.1
4 21	13 8.49	− 1 45.6	1.134	2.119	7.3	19.3
5 1	13 0.05	− 0 52.2	1.153	2.101	12.6	19.6
5 11	12 53.95	− 0 20.0	1.194	2.083	17.5	19.8

209595 2004 XU_{154} 4 10.9 162°.87 2°.5/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 48.49	− 3 40.6	1.768	2.564	16.0	21.1
3 12	13 44.09	− 3 13.5	1.686	2.568	12.6	20.9
3 22	13 37.10	− 2 37.6	1.625	2.572	8.7	20.7
4 1	13 28.12	− 1 57.3	1.589	2.576	4.5	20.5
4 11	13 18.10	− 1 18.6	1.581	2.578	2.7	20.3
4 21	13 8.16	− 0 47.2	1.600	2.581	6.2	20.6
5 1	12 59.39	− 0 27.9	1.647	2.583	10.4	20.8
5 11	12 52.62	− 0 23.9	1.716	2.584	14.1	21.0

378281 2007 EM_{89} 4 10.9 270°.66 4°.0/ 6.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.44	− 2 22.0	1.847	2.659	14.7	20.8
3 12	13 37.75	− 1 7.4	1.755	2.648	11.6	20.5
3 22	13 32.75	+ 0 18.8	1.685	2.637	8.1	20.3
4 1	13 25.94	+ 1 50.1	1.641	2.625	4.8	20.1
4 11	13 18.13	+ 3 18.1	1.625	2.614	4.4	20.0
4 21	13 10.27	+ 4 34.5	1.635	2.603	7.6	20.2
5 1	13 3.33	+ 5 32.5	1.671	2.591	11.3	20.4
5 11	12 58.12	+ 6 8.4	1.730	2.580	14.8	20.6

380446 2003 SN_{287} 4 10.9 178°.89 0°.7/11.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.14	−13 5.8	2.228	2.995	14.0	21.7
3 12	13 38.63	−12 42.8	2.134	2.995	11.2	21.5
3 22	13 33.10	−12 6.0	2.061	2.996	7.9	21.3
4 1	13 26.02	−11 17.4	2.014	2.996	4.2	21.1
4 11	13 18.13	−10 21.0	1.995	2.996	0.7	20.8
4 21	13 10.26	− 9 21.7	2.004	2.996	3.8	21.0
5 1	13 3.22	− 8 25.5	2.042	2.996	7.6	21.3
5 11	12 57.70	− 7 37.4	2.106	2.995	11.0	21.5

506247 2016 NK_{48} 4 10.9 242°.56 2°.6/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 39.74	− 3 39.0	2.311	3.108	12.6	21.7
3 12	13 36.62	− 2 44.4	2.218	3.103	9.9	21.5
3 22	13 31.65	− 1 41.0	2.150	3.098	6.8	21.3
4 1	13 25.27	− 0 33.4	2.108	3.093	3.7	21.1
4 11	13 18.15	+ 0 32.7	2.094	3.088	2.9	21.1
4 21	13 11.03	+ 1 31.6	2.109	3.083	5.6	21.2
5 1	13 4.67	+ 2 18.5	2.152	3.078	8.8	21.4
5 11	12 59.68	+ 2 50.1	2.219	3.073	11.8	21.6

457661 2009 CB_{56} 4 10.9 115°.35 0°.0/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 48.74	−10 40.4	1.757	2.535	16.7	22.7
3 12	13 44.20	−10 22.4	1.683	2.553	13.3	22.5
3 22	13 37.08	− 9 50.5	1.631	2.571	9.3	22.3
4 1	13 28.05	− 9 7.2	1.602	2.588	4.7	22.1
4 11	13 18.11	− 8 17.7	1.602	2.604	0.1	21.7
4 21	13 8.38	− 7 28.2	1.630	2.620	4.8	22.2
5 1	12 59.91	− 6 44.8	1.685	2.635	9.1	22.4
5 11	12 53.50	− 6 12.5	1.764	2.650	12.9	22.7

102058 1999 RT_{129} 4 10.9 268°.55 1°.3/ 9.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.58	− 7 17.3	2.019	2.810	14.4	19.8
3 12	13 39.33	− 6 46.9	1.914	2.794	11.5	19.5
3 22	13 33.82	− 6 4.8	1.831	2.777	7.9	19.3
4 1	13 26.50	− 5 14.3	1.773	2.760	4.0	19.0
4 11	13 18.13	− 4 20.2	1.743	2.744	1.4	18.8
4 21	13 9.63	− 3 28.6	1.741	2.726	5.2	19.0
5 1	13 1.95	− 2 45.3	1.766	2.709	9.3	19.2
5 11	12 55.92	− 2 15.0	1.815	2.692	13.0	19.4

429721 2011 KW 4 10.9 290°.30 5°.7/ 5.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.29	+ 5 10.7	1.940	2.752	14.1	21.0
3 12	13 39.87	+ 6 2.6	1.850	2.739	11.3	20.8
3 22	13 34.16	+ 6 57.2	1.783	2.727	8.3	20.6
4 1	13 26.64	+ 7 48.1	1.741	2.714	6.0	20.4
4 11	13 18.13	+ 8 28.2	1.726	2.701	6.1	20.4
4 21	13 9.58	+ 8 51.9	1.737	2.688	8.6	20.5
5 1	13 1.96	+ 8 55.4	1.774	2.675	11.8	20.7
5 11	12 56.05	+ 8 37.9	1.832	2.663	14.9	20.9

119547 2001 VG_{29} 4 10.9 193°.53 7°.1/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.96	+10 56.1	2.144	2.945	13.3	19.7
3 12	13 42.40	+11 58.2	2.068	2.944	10.9	19.5
3 22	13 35.68	+12 58.3	2.014	2.942	8.6	19.4
4 1	13 27.31	+13 49.3	1.987	2.939	7.2	19.3
4 11	13 18.13	+14 24.5	1.986	2.936	7.6	19.3
4 21	13 9.03	+14 39.3	2.013	2.933	9.5	19.4
5 1	13 0.91	+14 31.8	2.064	2.929	12.1	19.5
5 11	12 54.46	+14 2.7	2.137	2.925	14.5	19.7

81141 2000 EP_{137} 4 10.9 293°.05 8°.8/ 1.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.66	+ 9 10.4	1.664	2.492	15.4	18.7
3 12	13 38.15	+11 3.8	1.591	2.485	12.5	18.5
3 22	13 33.13	+12 59.4	1.541	2.477	10.0	18.4
4 1	13 26.15	+14 46.6	1.516	2.470	8.8	18.3
4 11	13 18.14	+16 14.1	1.516	2.463	9.7	18.3
4 21	13 10.15	+17 13.8	1.540	2.455	12.2	18.4
5 1	13 3.26	+17 41.4	1.586	2.448	15.2	18.6
5 11	12 58.29	+17 37.3	1.651	2.441	18.0	18.8

487172 2014 OQ_{279} 4 10.9 271°.02 2°.9/ 8.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.98	− 4 19.6	1.500	2.311	17.6	21.4
3 12	13 42.94	− 3 47.9	1.402	2.293	14.1	21.1
3 22	13 36.87	− 3 3.8	1.324	2.276	9.8	20.8
4 1	13 28.27	− 2 12.0	1.270	2.257	5.2	20.5
4 11	13 18.12	− 1 19.7	1.241	2.239	3.1	20.3
4 21	13 7.71	− 0 34.8	1.238	2.220	7.3	20.5
5 1	12 58.44	− 0 4.6	1.260	2.201	12.4	20.8
5 11	12 51.44	+ 0 6.1	1.303	2.182	16.9	21.0

9929 McConnell 4 10.9 75°.81 1°.9/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 49.17	− 5 20.2	1.386	2.194	18.9	17.8
3 12	13 45.16	− 5 5.6	1.321	2.210	14.9	17.6
3 22	13 38.06	− 4 40.0	1.276	2.225	10.2	17.3
4 1	13 28.64	− 4 7.8	1.253	2.241	5.1	17.1
4 11	13 18.12	− 3 35.3	1.257	2.257	2.1	16.9
4 21	13 7.88	− 3 9.1	1.287	2.273	6.4	17.2
5 1	12 59.21	− 2 54.6	1.341	2.289	11.2	17.5
5 11	12 53.02	− 2 55.2	1.418	2.304	15.4	17.8

499615 2010 UT_{28} 4 10.9 240°.76 1°.3/ 9.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.33	− 7 26.7	1.959	2.745	15.0	22.4
3 12	13 41.59	− 6 56.5	1.854	2.731	11.9	22.1
3 22	13 35.44	− 6 14.2	1.772	2.717	8.3	21.9
4 1	13 27.35	− 5 22.9	1.714	2.701	4.2	21.6
4 11	13 18.14	− 4 27.8	1.685	2.686	1.4	21.4
4 21	13 8.78	− 3 35.1	1.684	2.669	5.3	21.6
5 1	13 0.31	− 2 50.8	1.710	2.653	9.6	21.8
5 11	12 53.59	− 2 19.9	1.760	2.635	13.5	22.0

40775 Kalafina 4 10.9 245°.77 0°.1/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 42.22	−11 6.8	2.043	2.822	14.7	19.3
3 12	13 38.94	−10 45.8	1.947	2.817	11.7	19.1
3 22	13 33.47	−10 11.5	1.871	2.812	8.2	18.9
4 1	13 26.28	− 9 26.0	1.821	2.806	4.2	18.6
4 11	13 18.15	− 8 33.6	1.798	2.801	0.1	18.2
4 21	13 9.98	− 7 39.8	1.804	2.795	4.3	18.6
5 1	13 2.70	− 6 50.6	1.837	2.789	8.4	18.8
5 11	12 57.05	− 6 11.1	1.895	2.783	12.0	19.0

429939 2012 TG_{309} 4 10.9 119°.70 5°.1/ 3.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.99	+ 5 35.9	2.588	3.393	11.2	21.0
3 12	13 36.46	+ 7 7.3	2.522	3.406	8.9	20.9
3 22	13 31.32	+ 8 40.6	2.481	3.419	6.6	20.7
4 1	13 25.01	+10 9.6	2.468	3.432	5.2	20.7
4 11	13 18.17	+11 27.8	2.485	3.445	5.6	20.7
4 21	13 11.44	+12 30.5	2.529	3.457	7.5	20.9
5 1	13 5.45	+13 14.4	2.600	3.469	9.8	21.0
5 11	13 0.70	+13 38.6	2.694	3.480	11.9	21.2

196817 2003 SZ_{230} 4 10.9 315°.67 1°.3/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 47.89	−10 16.4	1.794	2.573	16.4	19.7
3 12	13 43.93	−10 50.4	1.694	2.563	13.3	19.5
3 22	13 37.26	−11 15.1	1.615	2.553	9.5	19.2
4 1	13 28.36	−11 30.6	1.561	2.543	5.2	18.9
4 11	13 18.13	−11 38.5	1.533	2.534	1.3	18.6
4 21	13 7.71	−11 41.4	1.533	2.525	4.7	18.8
5 1	12 58.31	−11 43.5	1.559	2.516	9.1	19.1
5 11	12 50.90	−11 49.0	1.610	2.508	13.2	19.3

463728 2014 QE_{320} 4 10.9 153°.06 1°.2/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.95	− 8 0.4	2.018	2.797	14.8	23.1
3 12	13 42.50	− 7 22.3	1.934	2.807	11.7	22.9
3 22	13 35.80	− 6 32.4	1.873	2.816	8.0	22.7
4 1	13 27.40	− 5 34.3	1.837	2.824	4.0	22.4
4 11	13 18.15	− 4 33.6	1.831	2.832	1.3	22.3
4 21	13 9.01	− 3 36.3	1.853	2.838	5.0	22.5
5 1	13 0.90	− 2 48.2	1.904	2.844	8.9	22.8
5 11	12 54.54	− 2 13.5	1.979	2.849	12.4	23.0

471549 2012 KP_{50} 4 10.9 298°.59 10°.6/31.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.42	+14 34.5	1.697	2.518	15.5	21.0
3 12	13 40.64	+16 16.4	1.605	2.486	13.2	20.8
3 22	13 35.13	+17 57.7	1.534	2.455	11.3	20.6
4 1	13 27.34	+19 27.1	1.487	2.423	10.6	20.5
4 11	13 18.16	+20 33.4	1.465	2.392	11.7	20.4
4 21	13 8.74	+21 8.2	1.465	2.360	14.1	20.5
5 1	13 0.31	+21 7.1	1.486	2.328	17.1	20.6
5 11	12 53.89	+20 30.9	1.525	2.297	20.0	20.7

386479 2008 YR_{146} 4 10.9 41°.60 6°.1/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 37.88	+ 2 59.4	1.833	2.658	14.3	19.8
3 12	13 35.47	+ 4 51.1	1.776	2.674	11.2	19.7
3 22	13 30.95	+ 6 47.6	1.743	2.691	8.2	19.5
4 1	13 24.92	+ 8 39.8	1.737	2.708	6.2	19.4
4 11	13 18.20	+10 18.3	1.757	2.726	6.7	19.5
4 21	13 11.67	+11 35.7	1.805	2.744	9.2	19.7
5 1	13 6.16	+12 27.6	1.876	2.763	12.1	19.9
5 11	13 2.27	+12 53.2	1.969	2.781	14.7	20.1

320445 2007 VA_{192} 4 10.9 76°.96 1°.2/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.67	−13 38.7	1.585	2.367	18.1	21.3
3 12	13 42.11	−13 27.5	1.515	2.385	14.5	21.1
3 22	13 35.82	−12 58.7	1.464	2.402	10.3	20.9
4 1	13 27.49	−12 14.4	1.437	2.419	5.6	20.7
4 11	13 18.18	−11 19.8	1.435	2.437	1.2	20.4
4 21	13 9.08	−10 21.5	1.461	2.454	4.7	20.7
5 1	13 1.33	− 9 27.2	1.513	2.471	9.2	21.0
5 11	12 55.74	− 8 43.3	1.588	2.488	13.2	21.3

428331 2007 HV_{73} 4 10.9 15°.91 1°.5/12.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.28	−16 38.4	1.749	2.524	16.9	20.9
3 12	13 37.00	−16 2.3	1.660	2.525	13.7	20.7
3 22	13 32.31	−15 4.9	1.592	2.527	9.9	20.5
4 1	13 25.74	−13 48.4	1.548	2.529	5.6	20.2
4 11	13 18.20	−12 18.2	1.530	2.531	1.6	19.9
4 21	13 10.71	−10 42.5	1.540	2.533	4.4	20.1
5 1	13 4.27	− 9 10.3	1.576	2.536	8.8	20.4
5 11	12 59.69	− 7 49.8	1.636	2.538	12.8	20.6

348268 2004 TZ_{322} 4 10.9 82°.21 1°.0/10.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 50.16	− 7 38.9	1.511	2.305	18.3	21.3
3 12	13 45.60	− 7 25.6	1.449	2.329	14.4	21.1
3 22	13 38.18	− 6 59.9	1.407	2.353	9.9	20.8
4 1	13 28.65	− 6 25.5	1.389	2.376	4.9	20.6
4 11	13 18.18	− 5 48.2	1.398	2.399	1.0	20.4
4 21	13 8.06	− 5 14.2	1.434	2.422	5.6	20.8
5 1	12 59.46	− 4 49.1	1.495	2.445	10.1	21.1
5 11	12 53.19	− 4 37.0	1.580	2.466	14.1	21.4

123304 2000 VO_1 4 10.9 108°.64 20°.5/24.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 55.67	+33 9.0	1.174	1.966	22.6	19.0
3 12	13 51.25	+35 45.1	1.154	1.977	21.2	18.9
3 22	13 42.65	+37 49.9	1.150	1.987	20.6	18.9
4 1	13 30.99	+39 6.7	1.162	1.998	20.7	19.0
4 11	13 18.15	+39 25.6	1.192	2.008	21.7	19.0
4 21	13 6.14	+38 45.7	1.236	2.017	23.1	19.2
5 1	12 56.59	+37 13.6	1.294	2.027	24.7	19.3
5 11	12 50.45	+35 0.6	1.363	2.035	26.2	19.5

162000 1990 OS 4 10.9 207°.27 0°.5/11.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 58.10	−12 49.8	1.690	2.444	18.2	23.4
3 12	13 52.38	−12 24.9	1.582	2.436	14.8	23.2
3 22	13 43.39	−11 41.0	1.494	2.426	10.6	22.9
4 1	13 31.63	−10 39.4	1.431	2.413	5.6	22.5
4 11	13 18.17	− 9 24.7	1.397	2.399	0.5	22.1
4 21	13 4.45	− 8 4.6	1.392	2.381	5.5	22.4
5 1	12 51.95	− 6 48.5	1.416	2.362	10.9	22.7
5 11	12 41.89	− 5 45.1	1.464	2.340	15.6	22.9

422442 2014 SV_{301} 4 10.9 170°.34 4°.9/15.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 49.16	−24 31.2	2.262	2.960	15.6	22.8
3 12	13 44.38	−24 54.0	2.163	2.966	13.3	22.6
3 22	13 37.24	−24 58.8	2.084	2.970	10.5	22.4
4 1	13 28.24	−24 43.7	2.028	2.974	7.6	22.2
4 11	13 18.22	−24 9.3	2.000	2.976	5.3	22.1
4 21	13 8.16	−23 18.6	1.999	2.978	5.4	22.1
5 1	12 59.08	−22 17.4	2.028	2.979	7.7	22.3
5 11	12 51.77	−21 12.7	2.082	2.979	10.7	22.4

32876 1993 FW_{60} 4 10.9 220°.84 0°.2/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.99	− 9 57.4	2.894	3.652	11.3	20.2
3 12	13 39.63	− 9 53.2	2.784	3.642	9.0	20.0
3 22	13 33.60	− 9 40.7	2.698	3.633	6.3	19.8
4 1	13 26.28	− 9 21.6	2.639	3.623	3.3	19.6
4 11	13 18.24	− 8 58.1	2.610	3.612	0.2	19.3
4 21	13 10.14	− 8 33.3	2.611	3.601	3.2	19.6
5 1	13 2.63	− 8 10.3	2.642	3.589	6.4	19.8
5 11	12 56.29	− 7 52.5	2.699	3.577	9.2	19.9

61937 2000 RK_9 4 10.9 183°.04 3°.0/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.75	− 0 13.7	2.662	3.447	11.5	20.0
3 12	13 40.23	+ 0 29.2	2.571	3.448	9.0	19.8
3 22	13 33.98	+ 1 16.8	2.505	3.448	6.3	19.7
4 1	13 26.44	+ 2 5.1	2.466	3.448	3.7	19.5
4 11	13 18.24	+ 2 49.5	2.458	3.446	3.2	19.5
4 21	13 10.07	+ 3 25.8	2.479	3.444	5.5	19.6
5 1	13 2.62	+ 3 50.7	2.528	3.441	8.3	19.8
5 11	12 56.46	+ 4 2.3	2.602	3.438	10.9	19.9

279035 2008 VX_4 4 10.9 168°.13 2°.2/ 8.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.77	− 4 43.4	2.237	3.029	13.1	21.2
3 12	13 38.26	− 3 55.5	2.150	3.031	10.3	21.0
3 22	13 32.81	− 2 58.5	2.086	3.033	7.0	20.8
4 1	13 25.90	− 1 56.7	2.048	3.035	3.7	20.6
4 11	13 18.25	− 0 55.6	2.039	3.036	2.4	20.5
4 21	13 10.64	− 0 0.9	2.059	3.037	5.3	20.7
5 1	13 3.86	+ 0 42.7	2.107	3.038	8.7	20.9
5 11	12 58.55	+ 1 11.9	2.178	3.039	11.8	21.1

211163 2002 GZ_{182} 4 10.9 19°.95 0°.6/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.73	−10 18.9	1.192	2.017	20.4	20.1
3 12	13 38.31	− 9 51.4	1.124	2.022	16.3	19.9
3 22	13 33.72	− 9 3.8	1.075	2.028	11.3	19.6
4 1	13 26.62	− 8 0.6	1.046	2.035	5.7	19.3
4 11	13 18.24	− 6 49.9	1.041	2.043	0.7	19.0
4 21	13 10.01	− 5 41.6	1.060	2.052	6.3	19.4
5 1	13 3.31	− 4 45.6	1.103	2.062	11.7	19.7
5 11	12 59.11	− 4 8.5	1.165	2.073	16.4	20.0

175470 2006 QY_{133} 4 10.9 84°.26 1°.5/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.17	− 6 42.0	1.620	2.420	17.0	20.3
3 12	13 42.43	− 6 18.8	1.548	2.432	13.4	20.1
3 22	13 36.03	− 5 43.9	1.496	2.444	9.2	19.8
4 1	13 27.63	− 5 1.4	1.468	2.455	4.6	19.6
4 11	13 18.24	− 4 17.3	1.467	2.467	1.6	19.4
4 21	13 9.02	− 3 37.8	1.493	2.479	5.7	19.7
5 1	13 1.07	− 3 8.7	1.544	2.491	10.1	20.0
5 11	12 55.23	− 2 54.0	1.619	2.502	14.0	20.2

82629 2001 OF_{105} 4 10.9 177°.19 1°.7/ 9.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.11	− 4 4.7	2.626	3.408	11.7	19.4
3 12	13 38.99	− 3 41.2	2.534	3.409	9.2	19.2
3 22	13 33.16	− 3 11.5	2.465	3.410	6.3	19.0
4 1	13 26.04	− 2 38.5	2.424	3.410	3.2	18.8
4 11	13 18.26	− 2 6.2	2.413	3.411	1.8	18.7
4 21	13 10.50	− 1 38.1	2.431	3.411	4.4	18.9
5 1	13 3.45	− 1 17.6	2.477	3.410	7.5	19.1
5 11	12 57.69	− 1 7.2	2.549	3.410	10.3	19.3

522708 2016 LK_{60} 4 10.9 15°.17 4°.4/16.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 39.38	−25 1.9	2.189	2.907	15.6	20.9
3 12	13 36.71	−24 55.3	2.092	2.908	13.2	20.7
3 22	13 31.93	−24 27.7	2.014	2.909	10.4	20.5
4 1	13 25.52	−23 38.6	1.959	2.910	7.3	20.3
4 11	13 18.26	−22 30.1	1.930	2.912	4.8	20.2
4 21	13 11.02	−21 7.0	1.929	2.914	4.8	20.2
5 1	13 4.67	−19 36.3	1.955	2.916	7.3	20.3
5 11	12 59.92	−18 5.9	2.008	2.918	10.4	20.5

169222 2001 RJ_{145} 4 10.9 191°.16 3°.7/15.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.78	−22 39.1	2.619	3.329	13.4	20.5
3 12	13 39.00	−22 48.0	2.514	3.328	11.3	20.3
3 22	13 33.32	−22 41.4	2.430	3.327	8.8	20.1
4 1	13 26.19	−22 18.7	2.371	3.325	6.1	20.0
4 11	13 18.26	−21 41.3	2.340	3.323	4.0	19.8
4 21	13 10.30	−20 52.1	2.337	3.320	4.2	19.8
5 1	13 3.07	−19 55.9	2.362	3.318	6.6	20.0
5 11	12 57.21	−18 58.3	2.415	3.315	9.3	20.1

386136 2007 TH_{91} 4 10.9 109°.50 0°.6/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 47.48	− 6 43.3	2.533	3.300	12.5	21.0
3 12	13 42.37	− 6 44.3	2.452	3.317	9.8	20.8
3 22	13 35.44	− 6 38.5	2.395	3.334	6.8	20.6
4 1	13 27.17	− 6 28.1	2.365	3.350	3.4	20.4
4 11	13 18.26	− 6 15.7	2.365	3.366	0.6	20.2
4 21	13 9.46	− 6 4.3	2.395	3.382	3.8	20.5
5 1	13 1.52	− 5 56.9	2.454	3.397	7.0	20.7
5 11	12 55.01	− 5 56.0	2.539	3.412	9.9	20.9

309909 2009 EN_{29} 4 10.9 76°.06 0°.4/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.24	−10 18.4	1.471	2.268	18.6	21.4
3 12	13 42.69	− 9 52.0	1.406	2.287	14.7	21.2
3 22	13 36.29	− 9 9.3	1.361	2.306	10.2	20.9
4 1	13 27.76	− 8 14.1	1.339	2.326	5.1	20.7
4 11	13 18.26	− 7 13.3	1.343	2.345	0.5	20.4
4 21	13 9.03	− 6 14.5	1.373	2.364	5.4	20.8
5 1	13 1.24	− 5 25.2	1.429	2.382	10.2	21.1
5 11	12 55.74	− 4 50.9	1.508	2.401	14.2	21.4

157349 2004 TA_{68} 4 10.9 177°.18 4°.3/ 7.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 47.32	+ 3 24.9	2.216	3.011	13.2	20.4
3 12	13 42.61	+ 3 57.0	2.132	3.012	10.4	20.2
3 22	13 35.81	+ 4 31.3	2.071	3.013	7.5	20.0
4 1	13 27.44	+ 5 2.9	2.037	3.014	4.9	19.9
4 11	13 18.26	+ 5 26.7	2.032	3.014	4.5	19.8
4 21	13 9.16	+ 5 38.5	2.054	3.014	6.9	20.0
5 1	13 0.97	+ 5 35.8	2.104	3.014	9.9	20.2
5 11	12 54.38	+ 5 17.5	2.178	3.013	12.7	20.3

422798 2001 XT_{125} 4 10.9 170°.09 5°.7/ 5.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.55	+ 7 31.0	2.278	3.076	12.8	21.7
3 12	13 41.92	+ 8 28.6	2.201	3.080	10.2	21.5
3 22	13 35.28	+ 9 26.5	2.148	3.083	7.7	21.4
4 1	13 27.14	+10 18.4	2.122	3.086	5.9	21.2
4 11	13 18.27	+10 58.3	2.124	3.088	6.1	21.3
4 21	13 9.50	+11 21.8	2.154	3.090	8.2	21.4
5 1	13 1.65	+11 26.3	2.210	3.091	10.8	21.5
5 11	12 55.34	+11 11.8	2.289	3.091	13.3	21.7

134419 Hippothous 4 10.9 317°.81 2°.2/ 7.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 34.45	+ 0 28.2	3.883	4.676	8.0	19.3
3 12	13 31.71	+ 1 3.4	3.782	4.664	6.2	19.1
3 22	13 27.90	+ 1 41.4	3.707	4.652	4.3	19.0
4 1	13 23.31	+ 2 19.6	3.660	4.641	2.6	18.8
4 11	13 18.32	+ 2 55.1	3.642	4.629	2.4	18.8
4 21	13 13.30	+ 3 25.2	3.654	4.618	4.0	18.9
5 1	13 8.68	+ 3 47.8	3.694	4.606	5.9	19.0
5 11	13 4.80	+ 4 1.3	3.760	4.595	7.8	19.1

299879 2006 SU_{313} 4 10.9 284°.90 0°.8/10.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.16	− 8 3.6	2.228	3.013	13.4	21.4
3 12	13 37.92	− 7 41.1	2.130	3.006	10.6	21.2
3 22	13 32.69	− 7 8.4	2.053	2.998	7.4	21.0
4 1	13 25.91	− 6 28.0	2.003	2.990	3.7	20.7
4 11	13 18.29	− 5 44.3	1.981	2.982	0.9	20.5
4 21	13 10.62	− 5 2.0	1.987	2.974	4.4	20.7
5 1	13 3.73	− 4 25.9	2.020	2.967	8.1	21.0
5 11	12 58.30	− 4 0.1	2.079	2.959	11.5	21.1

62789 2000 UZ_{25} 4 10.9 268°.37 2°.2/13.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.68	−20 22.3	2.482	3.216	13.5	18.8
3 12	13 35.85	−19 43.0	2.371	3.207	11.2	18.6
3 22	13 31.19	−18 45.2	2.281	3.196	8.3	18.4
4 1	13 25.12	−17 29.7	2.216	3.186	5.2	18.2
4 11	13 18.30	−16 0.0	2.180	3.176	2.4	18.0
4 21	13 11.44	−14 21.8	2.174	3.166	3.5	18.0
5 1	13 5.31	−12 41.8	2.197	3.156	6.7	18.2
5 11	13 0.51	−11 7.1	2.246	3.145	9.9	18.4

496167 2010 XA_{76} 4 10.9 201°.10 4°.3/15.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 44.03	−24 9.7	2.052	2.770	16.5	22.0
3 12	13 40.59	−23 59.8	1.948	2.767	13.9	21.8
3 22	13 34.76	−23 27.8	1.864	2.764	10.8	21.5
4 1	13 27.03	−22 32.6	1.804	2.760	7.5	21.3
4 11	13 18.28	−21 16.3	1.769	2.755	4.7	21.1
4 21	13 9.49	−19 44.3	1.763	2.750	4.9	21.1
5 1	13 1.68	−18 4.5	1.785	2.744	8.0	21.3
5 11	12 55.67	−16 26.3	1.832	2.738	11.5	21.5

140832 2001 UK_{175} 4 10.9 222°.75 0°.7/10.1 18

3 2	13 39.88	− 9 43.1	2.561	3.335	12.1	20.9
3 12	13 36.61	− 8 59.3	2.459	3.329	9.6	20.7
3 22	13 31.61	− 8 4.0	2.381	3.322	6.6	20.5
4 1	13 25.31	− 7 0.2	2.329	3.316	3.3	20.3
4 11	13 18.30	− 5 52.2	2.307	3.308	0.7	20.0
4 21	13 11.28	− 4 45.3	2.314	3.301	4.0	20.3
5 1	13 4.92	− 3 44.5	2.350	3.293	7.3	20.5
5 11	12 59.83	− 2 54.2	2.412	3.285	10.3	20.7

468816 2012 QX_{50} 4 10.9 274°.05 1°.7/12.3 17

3 2	13 46.88	−14 1.0	2.229	2.982	14.4	21.8
3 12	13 42.81	−14 11.7	2.101	2.952	11.8	21.6
3 22	13 36.39	−14 10.3	1.995	2.922	8.7	21.3
4 1	13 27.98	−13 56.7	1.914	2.891	5.0	21.0
4 11	13 18.28	−13 32.7	1.861	2.860	1.8	20.8
4 21	13 8.21	−13 1.2	1.836	2.828	4.1	20.9
5 1	12 58.80	−12 27.2	1.841	2.795	8.1	21.0
5 11	12 50.95	−11 56.1	1.870	2.762	12.0	21.2

280365 2003 SR_{430} 4 10.9 259°.85 1°.3/11.9 18

3 2	13 45.77	−12 25.7	2.154	2.918	14.5	20.7
3 12	13 41.78	−12 38.0	2.047	2.906	11.8	20.5
3 22	13 35.53	−12 39.1	1.962	2.894	8.5	20.3
4 1	13 27.44	−12 29.7	1.902	2.882	4.7	20.0
4 11	13 18.29	−12 11.7	1.869	2.870	1.4	19.7
4 21	13 8.97	−11 48.7	1.865	2.857	4.0	19.9
5 1	13 0.47	−11 25.1	1.890	2.845	7.9	20.1
5 11	12 53.60	−11 5.6	1.939	2.832	11.6	20.3

162514 2000 QR_{97} 4 10.9 190°.85 0°.4/10.5 16

3 2	13 47.58	− 9 27.4	1.972	2.747	15.2	21.0
3 12	13 43.26	− 9 6.4	1.877	2.746	12.2	20.8
3 22	13 36.54	− 8 32.8	1.804	2.744	8.5	20.6
4 1	13 27.93	− 7 49.3	1.756	2.742	4.3	20.3
4 11	13 18.28	− 7 0.3	1.737	2.739	0.5	20.0
4 21	13 8.62	− 6 11.5	1.746	2.735	4.7	20.3
5 1	12 59.94	− 5 28.8	1.783	2.730	8.9	20.5
5 11	12 53.08	− 4 57.0	1.844	2.724	12.7	20.8

133531 2003 TJ_5 4 10.9 282°.77 4°.6/ 8.5 18

3 2	13 56.77	+ 3 0.6	1.665	2.457	16.9	20.5
3 12	13 51.58	+ 3 1.3	1.548	2.426	13.8	20.2
3 22	13 43.07	+ 3 3.0	1.453	2.395	10.0	19.9
4 1	13 31.64	+ 3 0.5	1.382	2.363	6.1	19.5
4 11	13 18.25	+ 2 48.0	1.339	2.330	4.8	19.4
4 21	13 4.27	+ 2 21.0	1.324	2.297	8.2	19.5
5 1	12 51.27	+ 1 36.5	1.335	2.263	13.0	19.7
5 11	12 40.59	+ 0 34.4	1.371	2.229	17.5	19.8

501174 2013 TN_{94} 4 10.9 209°.32 0°.0/10.9 18

3 2	13 42.83	−12 43.5	2.479	3.239	12.9	22.7
3 12	13 39.02	−11 56.5	2.372	3.232	10.3	22.5
3 22	13 33.34	−10 55.2	2.288	3.224	7.2	22.3
4 1	13 26.21	− 9 42.1	2.231	3.215	3.7	22.0
4 11	13 18.30	− 8 21.7	2.204	3.206	0.0	21.7
4 21	13 10.36	− 6 59.8	2.206	3.196	3.8	22.0
5 1	13 3.14	− 5 42.4	2.238	3.185	7.4	22.2
5 11	12 57.29	− 4 35.1	2.297	3.173	10.7	22.4

472876 2015 FY_{304} 4 10.9 254°.04 6°.7/ 2.3 18

3 2	13 40.61	+11 44.2	2.505	3.311	11.5	20.8
3 12	13 37.20	+12 59.5	2.425	3.302	9.5	20.6
3 22	13 32.02	+14 13.2	2.369	3.294	7.6	20.5
4 1	13 25.51	+15 18.9	2.340	3.285	6.7	20.4
4 11	13 18.31	+16 10.6	2.338	3.277	7.3	20.5
4 21	13 11.13	+16 43.6	2.363	3.268	9.0	20.5
5 1	13 4.67	+16 55.7	2.412	3.259	11.2	20.7
5 11	12 59.52	+16 46.7	2.482	3.250	13.3	20.8

177886 2005 QN_{138} 4 10.9 298°.47 1°.3/12.1 17

3 2	13 43.65	−12 39.3	2.358	3.119	13.4	20.0
3 12	13 39.80	−12 50.5	2.259	3.116	10.9	19.8
3 22	13 33.96	−12 51.2	2.182	3.113	7.8	19.6
4 1	13 26.56	−12 42.1	2.130	3.110	4.4	19.4
4 11	13 18.31	−12 25.4	2.106	3.107	1.3	19.2
4 21	13 10.00	−12 4.3	2.112	3.104	3.6	19.3
5 1	13 2.46	−11 42.7	2.145	3.101	7.1	19.5
5 11	12 56.38	−11 24.7	2.205	3.098	10.3	19.7

191109 2002 EW_{62} 4 10.9 304°.25 0°.0/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 41.11	−10 59.3	1.814	2.603	15.8	20.3
3 12	13 38.44	−10 37.0	1.717	2.594	12.7	20.1
3 22	13 33.37	− 9 59.6	1.642	2.585	8.9	19.8
4 1	13 26.38	− 9 9.6	1.590	2.576	4.6	19.6
4 11	13 18.31	− 8 12.0	1.566	2.568	0.1	19.1
4 21	13 10.16	− 7 12.9	1.568	2.559	4.7	19.5
5 1	13 2.97	− 6 19.4	1.597	2.551	9.2	19.8
5 11	12 57.58	− 5 37.5	1.649	2.543	13.2	20.0

268998 2007 ES_{108} 4 10.9 307°.57 2°.3/ 9.1 17

3 2	13 41.49	− 5 17.8	1.682	2.491	16.1	20.3
3 12	13 38.98	− 4 46.9	1.584	2.475	12.8	20.0
3 22	13 33.90	− 4 4.1	1.507	2.459	8.8	19.7
4 1	13 26.71	− 3 13.6	1.454	2.442	4.6	19.4
4 11	13 18.30	− 2 21.7	1.428	2.427	2.5	19.3
4 21	13 9.74	− 1 35.4	1.427	2.411	6.3	19.5
5 1	13 2.16	− 1 1.2	1.452	2.396	10.8	19.7
5 11	12 56.50	− 0 43.7	1.499	2.381	15.0	19.9

328311 2008 HN_{32} 4 10.9 262°.53 2°.9/ 8.2 17

3 2	13 44.82	− 2 46.9	2.067	2.862	14.0	21.4
3 12	13 41.13	− 2 5.6	1.957	2.839	11.1	21.1
3 22	13 35.14	− 1 15.1	1.869	2.816	7.7	20.9
4 1	13 27.29	− 0 19.9	1.808	2.793	4.3	20.6
4 11	13 18.31	+ 0 34.2	1.774	2.769	3.2	20.5
4 21	13 9.13	+ 1 21.2	1.769	2.744	6.3	20.6
5 1	13 0.73	+ 1 55.4	1.791	2.719	10.2	20.8
5 11	12 53.96	+ 2 13.3	1.836	2.693	13.8	21.0

453283 2008 TA_{89} 4 10.9 67°.77 0°.1/10.8 15

3 2	13 49.74	− 9 5.0	1.317	2.120	20.0	21.6
3 12	13 45.79	− 9 6.0	1.256	2.139	15.9	21.4
3 22	13 38.63	− 8 52.6	1.213	2.159	11.1	21.2
4 1	13 29.03	− 8 27.4	1.192	2.179	5.6	20.9
4 11	13 18.29	− 7 56.0	1.197	2.199	0.2	20.6
4 21	13 7.89	− 7 24.9	1.227	2.219	5.7	21.0
5 1	12 59.17	− 7 0.8	1.283	2.239	10.8	21.4
5 11	12 53.05	− 6 48.7	1.360	2.259	15.1	21.7

88737 2001 SX_{43} 4 10.9 152°.64 1°.3/ 9.8 18

3 2	13 47.30	− 8 9.0	1.777	2.564	16.2	20.5
3 12	13 43.17	− 7 30.8	1.695	2.572	12.8	20.3
3 22	13 36.51	− 6 39.2	1.635	2.580	8.8	20.0
4 1	13 27.90	− 5 38.2	1.600	2.587	4.4	19.8
4 11	13 18.31	− 4 34.0	1.592	2.593	1.4	19.6
4 21	13 8.83	− 3 33.7	1.613	2.598	5.5	19.9
5 1	13 0.50	− 2 43.8	1.660	2.603	9.8	20.1
5 11	12 54.15	− 2 9.1	1.731	2.607	13.6	20.4

178272 1312 $T\text{-}_2$ 4 10.9 168°.47 2°.0/13.2 18

3 2	13 45.15	−16 15.8	2.900	3.630	11.9	21.0
3 12	13 40.54	−16 29.8	2.799	3.634	9.7	20.9
3 22	13 34.23	−16 33.3	2.721	3.637	7.1	20.7
4 1	13 26.63	−16 26.6	2.669	3.640	4.4	20.5
4 11	13 18.33	−16 11.0	2.647	3.642	2.2	20.4
4 21	13 10.01	−15 49.0	2.654	3.644	3.2	20.4
5 1	13 2.35	−15 23.9	2.692	3.646	5.9	20.6
5 11	12 55.93	−14 59.5	2.756	3.647	8.6	20.8

336332 2008 TB_{87} 4 10.9 293°.69 1°.0/11.8 17 R

3 2	13 40.51	−14 14.3	1.845	2.624	16.0	21.1
3 12	13 38.15	−13 50.7	1.731	2.599	13.1	20.8
3 22	13 33.33	−13 8.6	1.636	2.574	9.4	20.5
4 1	13 26.46	−12 9.0	1.566	2.548	5.2	20.2
4 11	13 18.33	−10 56.3	1.522	2.523	1.0	19.9
4 21	13 9.94	− 9 36.8	1.505	2.498	4.6	20.1
5 1	13 2.39	− 8 18.8	1.515	2.473	9.3	20.3
5 11	12 56.62	− 7 10.4	1.549	2.447	13.6	20.5

61979 2000 RO_{28} 4 10.9 216°.53 0°.6/10.4 18

3 2	13 44.93	−10 34.4	1.893	2.673	15.6	19.9
3 12	13 41.35	− 9 54.6	1.794	2.666	12.5	19.6
3 22	13 35.34	− 8 58.9	1.716	2.658	8.7	19.4
4 1	13 27.38	− 7 50.5	1.663	2.649	4.4	19.1
4 11	13 18.33	− 6 35.0	1.638	2.640	0.7	18.8
4 21	13 9.21	− 5 19.7	1.642	2.630	5.0	19.1
5 1	13 1.05	− 4 11.9	1.673	2.620	9.4	19.3
5 11	12 54.72	− 3 18.0	1.728	2.608	13.4	19.5

349455 2008 CL_{85} 4 10.9 245°.30 2°.3/ 8.1 18

3 2	13 39.03	− 4 12.6	2.506	3.299	11.9	21.0
3 12	13 35.95	− 3 20.2	2.412	3.294	9.3	20.8
3 22	13 31.17	− 2 19.3	2.342	3.289	6.4	20.6
4 1	13 25.10	− 1 14.2	2.298	3.284	3.4	20.4
4 11	13 18.35	− 0 10.0	2.284	3.279	2.5	20.3
4 21	13 11.60	+ 0 48.3	2.299	3.274	5.1	20.5
5 1	13 5.54	+ 1 35.9	2.341	3.269	8.2	20.7
5 11	13 0.73	+ 2 9.9	2.409	3.264	11.0	20.9

307225 2002 GX_{108} 4 10.9 85°.92 11°.0/ 7.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	14 7.34	+14 14.5	1.032	1.845	23.7	20.3
3 12	14 0.60	+14 32.2	0.979	1.859	19.6	20.1
3 22	13 49.29	+14 37.3	0.942	1.873	15.3	19.9
4 1	13 34.52	+14 17.6	0.926	1.887	11.9	19.7
4 11	13 18.28	+13 24.5	0.934	1.901	11.2	19.7
4 21	13 2.83	+11 57.0	0.965	1.915	13.9	19.9
5 1	12 50.13	+10 0.7	1.019	1.928	17.8	20.2
5 11	12 41.29	+ 7 44.7	1.092	1.941	21.7	20.5

120487 1993 FP_{12} 4 10.9 57°.22 2°.9/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.78	− 5 12.8	1.605	2.416	16.7	19.1
3 12	13 39.56	− 4 6.9	1.550	2.442	13.0	19.0
3 22	13 33.90	− 2 49.5	1.516	2.468	8.8	18.8
4 1	13 26.48	− 1 27.4	1.507	2.494	4.6	18.6
4 11	13 18.34	− 0 9.2	1.525	2.521	3.2	18.5
4 21	13 10.52	+ 0 57.4	1.570	2.548	6.6	18.8
5 1	13 3.98	+ 1 46.6	1.640	2.574	10.5	19.1
5 11	12 59.39	+ 2 15.4	1.733	2.601	14.0	19.4

34809 2001 SQ_{74} 4 10.9 336°.69 4°.3/14.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.32	−20 52.1	2.122	2.856	15.5	18.6
3 12	13 39.96	−21 23.6	2.023	2.853	13.1	18.4
3 22	13 34.32	−21 39.3	1.944	2.850	10.1	18.2
4 1	13 26.85	−21 37.8	1.888	2.847	7.0	18.0
4 11	13 18.34	−21 19.9	1.859	2.844	4.6	17.8
4 21	13 9.73	−20 48.2	1.857	2.842	5.0	17.8
5 1	13 2.00	−20 7.8	1.882	2.839	7.8	18.0
5 11	12 55.96	−19 25.1	1.932	2.837	11.0	18.2

85670 1998 QZ_{57} 4 10.9 285°.46 1°.7/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.31	−13 2.8	1.407	2.201	19.4	20.5
3 12	13 42.83	−13 13.6	1.307	2.184	15.9	20.2
3 22	13 37.13	−13 6.9	1.225	2.166	11.6	19.9
4 1	13 28.62	−12 42.8	1.165	2.148	6.5	19.6
4 11	13 18.33	−12 4.3	1.129	2.130	1.8	19.2
4 21	13 7.67	−11 17.3	1.118	2.112	5.6	19.4
5 1	12 58.18	−10 30.2	1.132	2.094	11.1	19.7
5 11	12 51.16	− 9 51.6	1.168	2.077	16.2	19.9

219695 2001 XO_{16} 4 10.9 109°.31 5°.4/16.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.85	−26 27.4	2.007	2.715	17.1	20.2
3 12	13 40.46	−26 37.0	1.918	2.725	14.6	20.0
3 22	13 34.65	−26 24.3	1.848	2.735	11.6	19.8
4 1	13 26.98	−25 47.7	1.801	2.745	8.5	19.7
4 11	13 18.35	−24 48.8	1.778	2.754	5.9	19.5
4 21	13 9.79	−23 32.0	1.783	2.763	5.8	19.5
5 1	13 2.31	−22 4.9	1.815	2.772	8.1	19.7
5 11	12 56.70	−20 36.4	1.873	2.781	11.1	19.9

384167 2009 BO_{25} 4 10.9 7°.93 4°.1/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.19	+ 0 4.9	1.862	2.677	14.5	20.0
3 12	13 37.44	+ 0 54.6	1.784	2.678	11.4	19.8
3 22	13 32.48	+ 1 50.6	1.729	2.679	7.9	19.6
4 1	13 25.84	+ 2 47.1	1.699	2.681	4.9	19.4
4 11	13 18.36	+ 3 37.3	1.695	2.684	4.4	19.4
4 21	13 10.95	+ 4 15.2	1.718	2.686	7.2	19.5
5 1	13 4.52	+ 4 36.5	1.767	2.690	10.6	19.8
5 11	12 59.76	+ 4 39.2	1.838	2.693	13.9	20.0

174738 2003 UZ_{217} 4 10.9 192°.92 1°.5/ 9.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.74	− 7 12.6	1.994	2.779	14.8	20.9
3 12	13 41.75	− 6 34.2	1.901	2.777	11.7	20.7
3 22	13 35.47	− 5 44.0	1.830	2.775	8.1	20.5
4 1	13 27.39	− 4 45.6	1.785	2.772	4.0	20.2
4 11	13 18.36	− 3 44.7	1.769	2.769	1.6	20.1
4 21	13 9.31	− 2 47.5	1.781	2.765	5.3	20.3
5 1	13 1.23	− 2 0.1	1.820	2.760	9.3	20.5
5 11	12 54.87	− 1 26.7	1.884	2.754	12.9	20.7

364668 2007 TX_{311} 4 10.9 349°.12 2°.2/ 9.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.13	− 5 31.8	1.510	2.320	17.6	21.4
3 12	13 42.01	− 5 3.4	1.429	2.319	13.9	21.2
3 22	13 36.03	− 4 22.7	1.368	2.319	9.6	20.9
4 1	13 27.80	− 3 34.5	1.331	2.319	4.9	20.7
4 11	13 18.36	− 2 45.5	1.319	2.318	2.4	20.5
4 21	13 8.94	− 2 3.0	1.333	2.318	6.5	20.7
5 1	13 0.79	− 1 33.5	1.373	2.318	11.2	21.0
5 11	12 54.85	− 1 21.1	1.434	2.318	15.4	21.3

110241 2001 SW_{232} 4 10.9 82°.70 0°.6/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 50.20	− 6 37.7	1.767	2.552	16.4	19.4
3 12	13 45.47	− 6 50.0	1.689	2.564	13.0	19.1
3 22	13 38.11	− 6 53.9	1.632	2.575	9.0	18.9
4 1	13 28.74	− 6 51.2	1.600	2.586	4.5	18.7
4 11	13 18.36	− 6 45.6	1.595	2.597	0.6	18.4
4 21	13 8.10	− 6 40.7	1.619	2.608	4.9	18.7
5 1	12 59.07	− 6 40.6	1.670	2.619	9.2	19.0
5 11	12 52.10	− 6 48.5	1.744	2.630	13.0	19.3

294594 2007 YM_{72} 4 10.9 28°.61 3°.7/14.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 39.60	−21 14.7	1.984	2.729	16.2	20.0
3 12	13 37.02	−21 18.2	1.900	2.738	13.4	19.9
3 22	13 32.22	−21 2.4	1.835	2.747	10.2	19.7
4 1	13 25.73	−20 27.3	1.793	2.757	6.8	19.5
4 11	13 18.38	−19 35.5	1.778	2.767	4.1	19.3
4 21	13 11.09	−18 31.9	1.789	2.778	4.6	19.4
5 1	13 4.78	−17 23.2	1.827	2.789	7.6	19.6
5 11	13 0.17	−16 16.9	1.890	2.801	10.9	19.8

96238 1994 AF_{4} 4 10.9 160°.85 1°.6/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 47.63	− 6 32.1	2.068	2.849	14.5	20.8
3 12	13 43.05	− 5 57.3	1.983	2.856	11.4	20.6
3 22	13 36.24	− 5 12.3	1.920	2.863	7.8	20.4
4 1	13 27.73	− 4 20.7	1.883	2.869	3.9	20.1
4 11	13 18.37	− 3 27.7	1.875	2.875	1.7	20.0
4 21	13 9.09	− 2 39.0	1.896	2.879	5.1	20.2
5 1	13 0.80	− 1 59.8	1.945	2.883	8.9	20.4
5 11	12 54.24	− 1 33.8	2.019	2.886	12.3	20.7

245667 2006 AR_{82} 4 10.9 127°.57 4°.0/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 48.13	+ 2 29.1	2.163	2.957	13.5	20.5
3 12	13 43.21	+ 3 1.8	2.089	2.969	10.6	20.3
3 22	13 36.20	+ 3 36.9	2.039	2.981	7.5	20.2
4 1	13 27.65	+ 4 9.8	2.015	2.993	4.7	20.0
4 11	13 18.38	+ 4 35.4	2.019	3.004	4.3	20.0
4 21	13 9.27	+ 4 49.5	2.052	3.015	6.6	20.2
5 1	13 1.16	+ 4 49.5	2.113	3.025	9.7	20.4
5 11	12 54.71	+ 4 34.5	2.197	3.035	12.5	20.6

507513 2012 VD_{31} 4 10.9 129°.63 5°.1/ 5.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.94	+ 8 34.0	2.635	3.429	11.3	22.0
3 12	13 40.32	+ 9 16.4	2.564	3.439	9.1	21.8
3 22	13 34.01	+ 9 57.4	2.517	3.449	6.9	21.7
4 1	13 26.48	+10 32.2	2.497	3.459	5.3	21.6
4 11	13 18.39	+10 56.2	2.506	3.468	5.5	21.6
4 21	13 10.43	+11 6.2	2.544	3.477	7.2	21.8
5 1	13 3.27	+11 0.7	2.608	3.486	9.4	21.9
5 11	12 57.43	+10 39.5	2.695	3.495	11.5	22.1

325955 2010 VE_{93} 4 10.9 155°.23 8°.4/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 47.45	+12 42.6	1.908	2.714	14.6	21.0
3 12	13 43.07	+14 0.0	1.843	2.719	12.0	20.8
3 22	13 36.30	+15 13.6	1.800	2.723	9.7	20.7
4 1	13 27.77	+16 15.0	1.783	2.728	8.4	20.6
4 11	13 18.39	+16 56.3	1.792	2.732	9.0	20.7
4 21	13 9.18	+17 12.7	1.826	2.735	11.0	20.8
5 1	13 1.11	+17 2.7	1.884	2.738	13.5	20.9
5 11	12 54.92	+16 27.7	1.962	2.741	15.9	21.1

151109 2001 WB_{23} 4 10.9 73°.05 2°.2/12.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	14 0.04	−10 11.8	1.773	2.528	17.5	19.2
3 12	13 53.40	−11 21.7	1.690	2.542	14.2	19.0
3 22	13 43.74	−12 24.0	1.629	2.557	10.2	18.8
4 1	13 31.69	−13 17.2	1.594	2.572	5.8	18.5
4 11	13 18.37	−14 0.6	1.588	2.587	2.2	18.3
4 21	13 5.12	−14 34.9	1.612	2.601	4.8	18.5
5 1	12 53.26	−15 2.7	1.664	2.616	9.1	18.8
5 11	12 43.79	−15 28.1	1.743	2.631	12.9	19.1

66320 1999 JT_{51} 4 10.9 306°.75 2°.4/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.56	−16 47.9	1.398	2.190	19.6	18.9
3 12	13 38.21	−16 37.9	1.299	2.172	16.2	18.6
3 22	13 33.85	−16 3.5	1.217	2.155	12.0	18.3
4 1	13 26.92	−15 4.6	1.157	2.137	7.1	18.0
4 11	13 18.40	−13 45.2	1.120	2.120	2.6	17.7
4 21	13 9.60	−12 13.4	1.109	2.103	5.4	17.8
5 1	13 1.98	−10 40.4	1.121	2.087	10.8	18.0
5 11	12 56.69	− 9 17.9	1.156	2.072	15.8	18.3

504198 2006 TZ_{104} 4 10.9 178°.30 2°.0/ 8.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.19	− 2 44.8	2.654	3.438	11.5	22.2
3 12	13 39.07	− 2 21.3	2.563	3.439	9.0	22.0
3 22	13 33.24	− 1 52.5	2.495	3.440	6.2	21.8
4 1	13 26.15	− 1 21.5	2.455	3.440	3.3	21.7
4 11	13 18.41	− 0 52.0	2.444	3.441	2.2	21.6
4 21	13 10.69	− 0 27.8	2.463	3.440	4.6	21.7
5 1	13 3.67	− 0 11.8	2.510	3.440	7.6	21.9
5 11	12 57.91	− 0 6.3	2.583	3.439	10.3	22.1

237234 2008 VG_{73} 4 10.9 103°.69 6°.5/ 4.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.71	+ 9 2.9	2.162	2.969	13.0	20.7
3 12	13 39.76	+10 12.3	2.099	2.981	10.5	20.5
3 22	13 33.82	+11 20.4	2.060	2.993	8.1	20.4
4 1	13 26.45	+12 20.5	2.047	3.004	6.6	20.3
4 11	13 18.41	+13 6.1	2.061	3.016	7.0	20.4
4 21	13 10.55	+13 32.8	2.101	3.027	8.9	20.5
5 1	13 3.63	+13 38.3	2.167	3.038	11.3	20.7
5 11	12 58.29	+13 23.2	2.254	3.049	13.7	20.9

96163 1981 DJ_1 4 10.9 4°.98 4°.7/14.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 42.38	−20 14.3	1.372	2.148	20.7	19.3
3 12	13 40.41	−20 36.0	1.290	2.147	17.3	19.0
3 22	13 35.29	−20 33.7	1.224	2.147	13.3	18.8
4 1	13 27.58	−20 5.6	1.179	2.148	8.8	18.5
4 11	13 18.41	−19 13.7	1.157	2.149	5.1	18.3
4 21	13 9.19	−18 4.4	1.159	2.151	6.0	18.4
5 1	13 1.36	−16 47.4	1.186	2.153	10.2	18.6
5 11	12 56.03	−15 34.0	1.235	2.155	14.6	18.8

49865 1999 XF_{108} 4 10.9 71°.69 2°.3/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.72	− 5 37.7	1.527	2.334	17.5	19.6
3 12	13 42.19	− 5 1.6	1.462	2.350	13.8	19.4
3 22	13 35.93	− 4 13.8	1.417	2.367	9.4	19.1
4 1	13 27.65	− 3 19.5	1.396	2.383	4.8	18.9
4 11	13 18.42	− 2 25.9	1.401	2.400	2.4	18.8
4 21	13 9.43	− 1 40.1	1.433	2.417	6.3	19.1
5 1	13 1.80	− 1 7.9	1.490	2.433	10.7	19.4
5 11	12 56.34	− 0 52.9	1.569	2.449	14.5	19.6

105362 2000 QT_{112} 4 10.9 181°.53 4°.6/ 5.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.96	+ 1 13.8	2.182	2.987	13.0	20.8
3 12	13 38.50	+ 2 39.0	2.100	2.987	10.2	20.6
3 22	13 33.05	+ 4 11.0	2.042	2.988	7.3	20.5
4 1	13 26.12	+ 5 43.1	2.011	2.988	5.0	20.3
4 11	13 18.43	+ 7 7.7	2.009	2.987	5.1	20.3
4 21	13 10.78	+ 8 18.1	2.036	2.986	7.6	20.5
5 1	13 3.98	+ 9 9.6	2.088	2.985	10.6	20.6
5 11	12 58.67	+ 9 39.9	2.163	2.983	13.3	20.8

396268 2014 CT_{16} 4 10.9 111°.99 4°.4/15.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.46	−23 8.8	2.438	3.148	14.3	21.0
3 12	13 40.48	−23 36.2	2.344	3.155	12.1	20.9
3 22	13 34.46	−23 47.9	2.271	3.163	9.5	20.7
4 1	13 26.86	−23 42.9	2.221	3.170	6.8	20.5
4 11	13 18.42	−23 21.7	2.199	3.177	4.7	20.4
4 21	13 9.98	−22 47.2	2.204	3.184	4.8	20.4
5 1	13 2.36	−22 3.7	2.237	3.191	7.0	20.6
5 11	12 56.26	−21 17.1	2.297	3.198	9.7	20.8

4483 Petöfi 4 10.9 187°.48 5°.8/ 5.0 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.24	− 8 5.3	1.263	2.083	19.8	16.4
3 12	13 41.03	− 5 2.8	1.184	2.083	15.5	16.1
3 22	13 35.64	− 1 27.3	1.127	2.083	10.5	15.8
4 1	13 27.70	+ 2 26.4	1.097	2.082	6.4	15.6
4 11	13 18.42	+ 6 16.6	1.096	2.081	7.0	15.6
4 21	13 9.21	+ 9 41.1	1.122	2.079	11.5	15.8
5 1	13 1.47	+12 23.7	1.173	2.076	16.4	16.1
5 11	12 56.24	+14 18.0	1.244	2.073	20.7	16.4

498080 2007 RH_{206} 4 10.9 203°.01 1°.1/ 9.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.07	− 7 26.5	2.423	3.203	12.6	22.2
3 12	13 38.43	− 6 53.7	2.327	3.200	10.0	22.0
3 22	13 32.95	− 6 11.3	2.253	3.197	6.8	21.8
4 1	13 26.07	− 5 22.2	2.207	3.193	3.4	21.6
4 11	13 18.43	− 4 30.8	2.189	3.189	1.2	21.4
4 21	13 10.79	− 3 41.9	2.200	3.185	4.3	21.6
5 1	13 3.89	− 3 0.0	2.240	3.181	7.7	21.8
5 11	12 58.35	− 2 28.9	2.305	3.176	10.8	22.0

297050 2010 HY_{50} 4 10.9 296°.76 3°.8/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.83	− 4 28.7	1.424	2.247	17.7	20.8
3 12	13 39.01	− 3 27.5	1.328	2.227	14.1	20.5
3 22	13 34.28	− 2 9.7	1.253	2.208	9.8	20.1
4 1	13 27.09	− 0 41.6	1.201	2.188	5.4	19.8
4 11	13 18.43	+ 0 47.1	1.173	2.169	4.2	19.7
4 21	13 9.54	+ 2 5.8	1.171	2.149	8.3	19.9
5 1	13 1.76	+ 3 4.8	1.193	2.130	13.3	20.1
5 11	12 56.21	+ 3 38.4	1.235	2.112	17.8	20.3

343993 2011 PW_8 4 10.9 289°.60 3°.6/17.1 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.14	−27 13.0	4.470	5.130	8.9	20.8
3 12	13 34.65	−27 36.8	4.345	5.114	7.7	20.7
3 22	13 30.01	−27 50.7	4.241	5.099	6.3	20.6
4 1	13 24.48	−27 54.0	4.163	5.083	4.8	20.4
4 11	13 18.45	−27 47.1	4.112	5.067	3.8	20.3
4 21	13 12.34	−27 30.8	4.090	5.052	3.7	20.3
5 1	13 6.57	−27 7.1	4.097	5.036	4.6	20.4
5 11	13 1.55	−26 38.7	4.131	5.021	6.0	20.5

443704 2015 KU_{111} 4 10.9 283°.09 3°.4/ 7.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.71	− 0 49.4	2.345	3.147	12.3	21.6
3 12	13 36.70	+ 0 3.7	2.247	3.134	9.7	21.4
3 22	13 31.83	+ 1 3.6	2.173	3.121	6.7	21.2
4 1	13 25.54	+ 2 5.7	2.125	3.108	4.1	21.0
4 11	13 18.46	+ 3 4.3	2.106	3.095	3.7	20.9
4 21	13 11.33	+ 3 53.9	2.115	3.082	6.2	21.0
5 1	13 4.90	+ 4 30.1	2.151	3.068	9.3	21.2
5 11	12 59.81	+ 4 50.1	2.210	3.055	12.2	21.4

315969 2009 AB_{33} 4 10.9 274°.29 3°.6/ 8.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 43.86	− 3 22.7	1.543	2.358	17.0	20.8
3 12	13 41.13	− 2 32.8	1.450	2.343	13.5	20.5
3 22	13 35.57	− 1 30.2	1.377	2.329	9.4	20.3
4 1	13 27.69	− 0 20.8	1.328	2.314	5.2	20.0
4 11	13 18.45	+ 0 47.2	1.305	2.300	3.9	19.8
4 21	13 9.05	+ 1 45.0	1.307	2.285	7.8	20.0
5 1	13 0.76	+ 2 25.3	1.335	2.270	12.4	20.2
5 11	12 54.61	+ 2 43.5	1.383	2.255	16.6	20.5

397030 2005 UU_{14} 4 10.9 235°.67 1°.1/10.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 48.48	− 7 50.3	1.688	2.477	16.9	21.7
3 12	13 44.63	− 7 29.3	1.587	2.464	13.5	21.4
3 22	13 37.94	− 6 54.9	1.506	2.451	9.5	21.2
4 1	13 28.89	− 6 10.1	1.450	2.437	4.8	20.9
4 11	13 18.44	− 5 20.2	1.421	2.422	1.2	20.6
4 21	13 7.79	− 4 31.9	1.419	2.406	5.8	20.8
5 1	12 58.19	− 3 52.2	1.443	2.390	10.7	21.1
5 11	12 50.71	− 3 26.5	1.491	2.373	15.0	21.3

48885 1998 HY_{153} 4 10.9 263°.44 2°.4/ 9.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.47	− 6 56.7	1.473	2.282	18.0	20.2
3 12	13 41.85	− 6 9.6	1.376	2.266	14.4	19.9
3 22	13 36.23	− 5 5.3	1.299	2.250	10.0	19.6
4 1	13 28.10	− 3 48.6	1.245	2.233	5.1	19.2
4 11	13 18.45	− 2 27.4	1.216	2.215	2.6	19.0
4 21	13 8.56	− 1 11.6	1.214	2.198	7.2	19.3
5 1	12 59.82	− 0 10.4	1.236	2.180	12.3	19.5
5 11	12 53.35	+ 0 29.4	1.280	2.162	17.0	19.7

138668 2000 RB_{103} 4 10.9 166°.03 2°.3/14.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.27	−19 55.1	3.108	3.825	11.4	20.9
3 12	13 37.41	−19 44.0	3.007	3.830	9.4	20.7
3 22	13 32.04	−19 20.1	2.927	3.834	7.1	20.6
4 1	13 25.54	−18 43.9	2.874	3.838	4.5	20.4
4 11	13 18.47	−17 57.3	2.850	3.841	2.5	20.3
4 21	13 11.41	−17 3.7	2.855	3.844	3.1	20.3
5 1	13 4.96	−16 7.1	2.890	3.846	5.5	20.5
5 11	12 59.64	−15 11.8	2.953	3.848	8.0	20.6

36187 Travisbarman 4 10.9 302°.75 3°.4/ 7.3 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.50	− 1 0.5	2.216	3.022	12.8	17.9
3 12	13 36.69	− 0 11.2	2.116	3.004	10.1	17.7
3 22	13 31.92	+ 0 45.3	2.038	2.988	7.1	17.4
4 1	13 25.62	+ 1 44.4	1.987	2.971	4.2	17.2
4 11	13 18.46	+ 2 40.1	1.964	2.954	3.7	17.2
4 21	13 11.22	+ 3 26.9	1.968	2.937	6.4	17.3
5 1	13 4.71	+ 4 0.0	1.999	2.921	9.7	17.5
5 11	12 59.60	+ 4 16.5	2.054	2.905	12.8	17.6

153955 2002 AA_{20} 4 10.9 115°.26 1°.0/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.02	− 8 44.1	2.326	3.098	13.3	21.2
3 12	13 40.61	− 7 56.1	2.252	3.121	10.4	21.0
3 22	13 34.32	− 6 57.3	2.202	3.144	7.1	20.8
4 1	13 26.69	− 5 51.4	2.179	3.165	3.5	20.6
4 11	13 18.46	− 4 43.8	2.186	3.186	1.1	20.5
4 21	13 10.42	− 3 39.8	2.222	3.207	4.3	20.7
5 1	13 3.29	− 2 44.5	2.287	3.226	7.7	21.0
5 11	12 57.66	− 2 1.6	2.378	3.245	10.7	21.2

190033 2004 RM_{54} 4 10.9 232°.40 4°.4/ 5.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.91	− 0 40.9	2.066	2.873	13.6	20.1
3 12	13 37.88	+ 0 45.7	1.976	2.866	10.7	19.9
3 22	13 32.77	+ 2 21.8	1.909	2.858	7.5	19.7
4 1	13 26.05	+ 4 0.7	1.870	2.850	4.8	19.5
4 11	13 18.47	+ 5 34.2	1.859	2.842	4.9	19.5
4 21	13 10.86	+ 6 54.9	1.876	2.833	7.6	19.7
5 1	13 4.10	+ 7 56.6	1.919	2.825	10.9	19.9
5 11	12 58.89	+ 8 36.3	1.985	2.815	14.0	20.0

76682 2000 HV_{66} 4 10.9 115°.63 3°.1/ 8.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.87	− 0 1.3	2.248	3.043	13.0	19.5
3 12	13 40.67	+ 0 25.4	2.167	3.049	10.2	19.4
3 22	13 34.49	+ 0 56.2	2.110	3.055	7.1	19.2
4 1	13 26.85	+ 1 27.1	2.078	3.061	4.1	19.0
4 11	13 18.47	+ 1 53.5	2.075	3.067	3.3	18.9
4 21	13 10.18	+ 2 11.2	2.101	3.073	5.8	19.1
5 1	13 2.77	+ 2 17.3	2.154	3.078	9.0	19.3
5 11	12 56.87	+ 2 10.1	2.231	3.083	11.9	19.5

32635 2001 SN 4 10.9 143°.22 0°.2/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.65	−11 21.9	2.247	3.011	13.9	19.6
3 12	13 41.34	−10 59.9	2.161	3.023	11.1	19.5
3 22	13 34.98	−10 25.6	2.097	3.033	7.8	19.3
4 1	13 27.11	− 9 41.5	2.059	3.043	4.0	19.1
4 11	13 18.47	− 8 51.6	2.050	3.052	0.2	18.7
4 21	13 9.92	− 8 0.7	2.071	3.061	3.9	19.1
5 1	13 2.28	− 7 14.0	2.120	3.069	7.6	19.3
5 11	12 56.20	− 6 36.1	2.195	3.077	10.9	19.5

416118 2002 QQ_{31} 4 10.9 215°.58 0°.7/10.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 46.63	− 8 36.9	2.183	2.956	14.0	22.4
3 12	13 42.37	− 8 14.1	2.079	2.947	11.2	22.2
3 22	13 35.90	− 7 40.2	1.997	2.938	7.8	22.0
4 1	13 27.68	− 6 57.6	1.942	2.928	3.9	21.7
4 11	13 18.47	− 6 10.7	1.915	2.917	0.7	21.5
4 21	13 9.17	− 5 24.4	1.918	2.906	4.5	21.7
5 1	13 0.71	− 4 44.0	1.949	2.893	8.5	21.9
5 11	12 53.85	− 4 14.0	2.005	2.880	12.0	22.1

189744 2001 XF_{199} 4 10.9 28°.39 0°.4/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.02	−10 32.1	1.629	2.428	17.0	20.0
3 12	13 38.52	−10 2.2	1.550	2.433	13.5	19.8
3 22	13 33.48	− 9 16.2	1.491	2.438	9.4	19.5
4 1	13 26.48	− 8 17.8	1.456	2.443	4.7	19.3
4 11	13 18.48	− 7 12.9	1.447	2.449	0.4	18.9
4 21	13 10.55	− 6 9.2	1.465	2.456	5.1	19.3
5 1	13 3.77	− 5 13.8	1.508	2.462	9.6	19.6
5 11	12 58.95	− 4 32.7	1.575	2.469	13.6	19.8

162684 2000 TC_{51} 4 10.9 152°.02 3°.3/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 47.39	− 1 56.9	2.046	2.838	14.2	21.3
3 12	13 42.84	− 1 1.4	1.968	2.849	11.2	21.1
3 22	13 36.08	+ 0 1.7	1.913	2.859	7.7	20.9
4 1	13 27.68	+ 1 7.2	1.884	2.868	4.4	20.8
4 11	13 18.48	+ 2 8.4	1.885	2.876	3.6	20.7
4 21	13 9.40	+ 2 59.3	1.914	2.883	6.4	20.9
5 1	13 1.35	+ 3 35.4	1.970	2.890	9.9	21.1
5 11	12 55.01	+ 3 54.0	2.050	2.895	13.0	21.3

505969 2015 FL_{304} 4 10.9 308°.41 3°.5/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.49	− 2 0.5	2.142	2.949	13.1	21.2
3 12	13 35.91	− 0 53.5	2.050	2.941	10.3	21.0
3 22	13 31.37	+ 0 22.5	1.982	2.932	7.1	20.7
4 1	13 25.33	+ 1 42.0	1.940	2.924	4.2	20.5
4 11	13 18.49	+ 2 58.1	1.927	2.916	3.9	20.5
4 21	13 11.63	+ 4 4.4	1.941	2.908	6.6	20.7
5 1	13 5.55	+ 4 55.4	1.981	2.900	9.9	20.8
5 11	13 0.91	+ 5 27.8	2.045	2.893	12.9	21.0

224261 2005 SR_{248} 4 10.9 116°.32 2°.2/12.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 50.39	−14 24.6	2.052	2.802	15.5	22.0
3 12	13 45.36	−14 50.3	1.968	2.816	12.6	21.8
3 22	13 37.94	−15 3.6	1.904	2.829	9.2	21.6
4 1	13 28.68	−15 4.3	1.866	2.842	5.4	21.4
4 11	13 18.48	−14 54.3	1.857	2.854	2.3	21.2
4 21	13 8.33	−14 36.7	1.876	2.866	4.1	21.3
5 1	12 59.26	−14 16.0	1.923	2.878	7.8	21.6
5 11	12 52.04	−13 57.3	1.996	2.890	11.2	21.8

141037 2001 WZ_{70} 4 10.9 331°.44 1°.6/12.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.23	−16 8.6	2.107	2.871	14.7	20.1
3 12	13 36.63	−15 49.6	2.009	2.866	12.0	19.9
3 22	13 31.95	−15 14.1	1.931	2.862	8.7	19.7
4 1	13 25.66	−14 23.3	1.879	2.857	5.0	19.5
4 11	13 18.49	−13 20.9	1.854	2.853	1.8	19.2
4 21	13 11.29	−12 12.5	1.856	2.849	3.8	19.4
5 1	13 4.93	−11 4.4	1.886	2.846	7.6	19.6
5 11	13 0.11	−10 3.1	1.941	2.842	11.1	19.8

297635 2001 TJ_{122} 4 10.9 212°.81 3°.5/13.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 49.40	−18 37.8	1.921	2.661	16.8	21.5
3 12	13 45.13	−18 55.0	1.816	2.654	14.0	21.3
3 22	13 38.16	−18 55.2	1.731	2.646	10.6	21.1
4 1	13 28.97	−18 37.3	1.669	2.637	6.8	20.8
4 11	13 18.47	−18 2.5	1.634	2.628	3.7	20.6
4 21	13 7.79	−17 14.7	1.628	2.617	4.9	20.7
5 1	12 58.10	−16 20.3	1.649	2.606	8.7	20.9
5 11	12 50.39	−15 26.8	1.695	2.594	12.6	21.1

497432 2005 XH_{52} 4 10.9 210°.71 5°.8/16.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.13	−27 47.9	2.407	3.088	15.2	21.8
3 12	13 42.08	−28 14.3	2.297	3.082	13.2	21.6
3 22	13 35.78	−28 22.3	2.206	3.075	10.7	21.4
4 1	13 27.65	−28 9.5	2.138	3.067	8.2	21.3
4 11	13 18.48	−27 35.6	2.095	3.059	6.2	21.1
4 21	13 9.18	−26 43.1	2.081	3.051	6.0	21.1
5 1	13 0.70	−25 36.8	2.094	3.041	7.8	21.2
5 11	12 53.86	−24 24.1	2.133	3.032	10.4	21.3

59330 1999 CW_{103} 4 10.9 340°.37 4°.7/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.79	−19 9.5	1.396	2.170	20.5	18.6
3 12	13 42.37	−19 43.4	1.309	2.167	17.2	18.4
3 22	13 36.73	−19 56.1	1.240	2.164	13.1	18.1
4 1	13 28.40	−19 45.2	1.192	2.162	8.6	17.8
4 11	13 18.49	−19 11.9	1.167	2.160	5.0	17.6
4 21	13 8.45	−18 21.1	1.167	2.158	6.1	17.7
5 1	12 59.77	−17 21.4	1.191	2.156	10.4	17.9
5 11	12 53.63	−16 23.1	1.237	2.155	14.8	18.2

296269 2009 DZ_{41} 4 10.9 69°.76 4°.9/15.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 44.34	−23 24.9	2.246	2.960	15.3	20.5
3 12	13 40.65	−23 58.4	2.151	2.964	13.0	20.3
3 22	13 34.74	−24 15.3	2.076	2.968	10.2	20.1
4 1	13 27.10	−24 14.1	2.024	2.972	7.4	19.9
4 11	13 18.50	−23 55.0	1.999	2.976	5.2	19.8
4 21	13 9.85	−23 20.9	2.001	2.980	5.3	19.8
5 1	13 2.09	−22 36.5	2.030	2.984	7.5	20.0
5 11	12 55.97	−21 48.2	2.085	2.988	10.4	20.1

153785 2001 VG_{64} 4 10.9 127°.58 1°.6/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.98	− 5 3.8	1.899	2.690	15.2	20.2
3 12	13 42.80	− 4 50.0	1.816	2.695	12.0	20.0
3 22	13 36.23	− 4 27.8	1.754	2.700	8.3	19.8
4 1	13 27.84	− 4 0.5	1.718	2.705	4.2	19.5
4 11	13 18.50	− 3 32.8	1.710	2.710	1.8	19.3
4 21	13 9.22	− 3 9.5	1.730	2.714	5.3	19.6
5 1	13 1.00	− 2 54.9	1.776	2.719	9.3	19.8
5 11	12 54.62	− 2 52.1	1.847	2.723	12.9	20.1

272937 2006 BR_{247} 4 10.9 341°.02 1°.7/ 9.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.23	− 6 25.7	1.872	2.670	15.1	21.1
3 12	13 39.15	− 5 52.4	1.785	2.669	11.9	20.9
3 22	13 33.77	− 5 7.8	1.720	2.668	8.2	20.7
4 1	13 26.61	− 4 16.0	1.679	2.667	4.1	20.4
4 11	13 18.51	− 3 22.6	1.666	2.666	1.8	20.3
4 21	13 10.42	− 2 33.9	1.681	2.665	5.4	20.5
5 1	13 3.31	− 1 55.5	1.722	2.665	9.5	20.7
5 11	12 57.94	− 1 31.5	1.786	2.664	13.1	21.0

220274 2003 AE_{76} 4 10.9 33°.73 6°.1/14.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 49.91	−20 1.4	1.540	2.292	19.8	19.6
3 12	13 46.12	−21 17.3	1.460	2.299	16.7	19.4
3 22	13 39.14	−22 16.3	1.398	2.307	13.0	19.2
4 1	13 29.56	−22 54.7	1.358	2.316	9.2	19.0
4 11	13 18.49	−23 10.7	1.342	2.325	6.4	18.9
4 21	13 7.36	−23 6.3	1.353	2.335	6.9	18.9
5 1	12 57.62	−22 46.9	1.388	2.345	10.0	19.1
5 11	12 50.37	−22 20.7	1.446	2.355	13.7	19.3

210211 2007 QZ_{12} 4 10.9 223°.30 0°.8/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.05	−12 53.1	2.380	3.143	13.3	21.3
3 12	13 38.55	−12 39.2	2.279	3.139	10.7	21.1
3 22	13 33.13	−12 13.1	2.201	3.134	7.6	20.9
4 1	13 26.23	−11 36.1	2.148	3.130	4.1	20.7
4 11	13 18.51	−10 51.7	2.123	3.125	0.8	20.4
4 21	13 10.76	−10 4.0	2.128	3.120	3.6	20.7
5 1	13 3.76	− 9 18.0	2.160	3.114	7.2	20.9
5 11	12 58.16	− 8 38.5	2.219	3.109	10.4	21.1

3642 Frieden 4 10.9 41°.85 7°.2/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 40.92	+ 7 8.3	1.786	2.610	14.7	15.4
3 12	13 38.09	+ 8 39.8	1.722	2.615	11.8	15.2
3 22	13 32.98	+10 13.0	1.681	2.621	9.0	15.0
4 1	13 26.16	+11 38.8	1.664	2.628	7.3	14.9
4 11	13 18.52	+12 48.5	1.674	2.634	7.9	15.0
4 21	13 11.01	+13 35.5	1.709	2.640	10.2	15.1
5 1	13 4.57	+13 56.4	1.768	2.647	13.1	15.3
5 11	12 59.89	+13 51.4	1.847	2.654	15.8	15.5

333609 2007 LR_{11} 4 10.9 279°.30 3°.6/ 7.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.29	− 1 3.0	1.903	2.709	14.6	21.2
3 12	13 39.93	− 0 20.8	1.817	2.706	11.5	21.0
3 22	13 34.29	+ 0 28.6	1.753	2.702	8.0	20.7
4 1	13 26.87	+ 1 19.9	1.715	2.699	4.6	20.5
4 11	13 18.51	+ 2 6.7	1.704	2.695	3.9	20.5
4 21	13 10.17	+ 2 43.3	1.720	2.692	6.8	20.6
5 1	13 2.78	+ 3 4.9	1.761	2.688	10.4	20.8
5 11	12 57.13	+ 3 9.1	1.826	2.685	13.8	21.0

501024 2013 RJ_{60} 4 10.9 293°.72 7°.2/ 4.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.40	+ 7 21.7	1.756	2.575	15.1	20.6
3 12	13 40.27	+ 8 32.9	1.676	2.567	12.2	20.4
3 22	13 34.66	+ 9 45.9	1.617	2.558	9.3	20.2
4 1	13 27.11	+10 52.6	1.584	2.549	7.3	20.1
4 11	13 18.52	+11 44.2	1.576	2.541	7.8	20.1
4 21	13 9.94	+12 14.2	1.594	2.533	10.2	20.2
5 1	13 2.41	+12 19.0	1.635	2.524	13.4	20.4
5 11	12 56.76	+11 58.4	1.697	2.516	16.4	20.5

435895 2009 AN_{30} 4 10.9 33°.64 3°.8/ 7.9 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.27	− 1 40.1	1.489	2.312	17.1	21.1
3 12	13 39.37	− 0 55.3	1.439	2.337	13.3	20.9
3 22	13 33.90	− 0 3.0	1.410	2.363	9.1	20.7
4 1	13 26.59	+ 0 49.9	1.404	2.390	5.1	20.6
4 11	13 18.53	+ 1 36.1	1.425	2.418	4.1	20.6
4 21	13 10.81	+ 2 9.1	1.470	2.446	7.3	20.8
5 1	13 4.45	+ 2 24.9	1.541	2.475	11.1	21.1
5 11	13 0.12	+ 2 22.0	1.633	2.505	14.5	21.4

465309 2007 UJ_{10} 4 10.9 172°.70 0°.6/11.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 46.71	−13 18.5	2.152	2.911	14.6	22.6
3 12	13 42.38	−12 51.3	2.058	2.915	11.8	22.4
3 22	13 35.85	−12 9.4	1.986	2.919	8.3	22.2
4 1	13 27.64	−11 14.8	1.939	2.921	4.5	22.0
4 11	13 18.54	−10 11.6	1.921	2.923	0.6	21.7
4 21	13 9.46	− 9 5.7	1.933	2.924	4.0	21.9
5 1	13 1.32	− 8 3.2	1.973	2.924	7.9	22.2
5 11	12 54.85	− 7 9.8	2.039	2.924	11.5	22.4

500822 2013 GX_{113} 4 10.9 303°.51 1°.6/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.17	−12 45.8	1.385	2.185	19.4	21.4
3 12	13 41.27	−12 57.0	1.281	2.162	15.9	21.1
3 22	13 36.18	−12 50.9	1.196	2.138	11.6	20.7
4 1	13 28.28	−12 27.3	1.132	2.115	6.5	20.4
4 11	13 18.54	−11 49.4	1.091	2.093	1.7	20.0
4 21	13 8.34	−11 3.0	1.076	2.070	5.6	20.2
5 1	12 59.25	−10 16.5	1.084	2.048	11.3	20.4
5 11	12 52.58	− 9 38.8	1.114	2.027	16.5	20.7

499904 2011 GG_{27} 4 10.9 355°.36 2°.3/12.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.97	−16 31.9	1.843	2.610	16.5	21.5
3 12	13 39.14	−16 28.9	1.752	2.609	13.5	21.3
3 22	13 33.89	−16 8.3	1.680	2.609	9.9	21.1
4 1	13 26.74	−15 30.7	1.632	2.608	5.9	20.8
4 11	13 18.55	−14 39.5	1.610	2.608	2.4	20.6
4 21	13 10.33	−13 40.1	1.615	2.608	4.3	20.7
5 1	13 3.12	−12 39.5	1.647	2.608	8.3	20.9
5 11	12 57.75	−11 44.9	1.703	2.608	12.2	21.2

317815 2003 SD_{253} 4 10.9 205°.97 1°.6/12.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 47.08	−14 44.5	1.959	2.718	15.9	22.3
3 12	13 43.08	−14 41.0	1.859	2.713	13.0	22.1
3 22	13 36.60	−14 22.0	1.779	2.708	9.4	21.8
4 1	13 28.14	−13 48.2	1.724	2.703	5.4	21.6
4 11	13 18.55	−13 2.7	1.696	2.696	1.8	21.3
4 21	13 8.87	−12 10.4	1.697	2.689	4.3	21.5
5 1	13 0.16	−11 17.7	1.725	2.682	8.5	21.7
5 11	12 53.28	−10 31.1	1.779	2.674	12.3	21.9

110572 2001 TH_{115} 4 10.9 100°.58 1°.8/12.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.61	−16 4.2	1.991	2.747	15.8	19.1
3 12	13 41.59	−15 52.8	1.914	2.766	12.8	19.0
3 22	13 35.31	−15 25.1	1.857	2.784	9.2	18.8
4 1	13 27.34	−14 42.5	1.825	2.802	5.3	18.6
4 11	13 18.57	−13 48.8	1.821	2.820	2.0	18.4
4 21	13 9.95	−12 49.6	1.845	2.837	4.0	18.6
5 1	13 2.41	−11 51.0	1.897	2.854	7.7	18.8
5 11	12 56.65	−10 59.3	1.974	2.871	11.2	19.1

169176 2001 QN_{253} 4 10.9 211°.78 0°.3/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.89	−10 58.0	2.444	3.210	12.9	20.9
3 12	13 39.15	−10 45.7	2.344	3.207	10.3	20.7
3 22	13 33.52	−10 22.8	2.267	3.203	7.2	20.5
4 1	13 26.44	− 9 51.1	2.215	3.199	3.8	20.3
4 11	13 18.58	− 9 13.7	2.193	3.195	0.3	20.0
4 21	13 10.68	− 8 34.6	2.199	3.190	3.6	20.3
5 1	13 3.52	− 7 58.2	2.234	3.186	7.1	20.5
5 11	12 57.73	− 7 28.8	2.295	3.181	10.3	20.7

240788 2005 UK_{112} 4 10.9 234°.36 0°.7/11.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 47.22	−11 51.1	1.563	2.349	18.1	20.9
3 12	13 43.86	−11 45.4	1.469	2.342	14.7	20.6
3 22	13 37.54	−11 23.2	1.394	2.334	10.5	20.3
4 1	13 28.77	−10 46.1	1.341	2.326	5.6	20.0
4 11	13 18.57	− 9 58.3	1.315	2.317	0.7	19.6
4 21	13 8.21	− 9 6.3	1.316	2.308	5.2	19.9
5 1	12 59.03	− 8 17.8	1.342	2.299	10.3	20.2
5 11	12 52.11	− 7 39.9	1.391	2.289	14.9	20.4

15719 1990 CF 4 10.9 76°.92 8°.6/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.21	+10 59.4	1.728	2.547	15.3	17.4
3 12	13 40.73	+12 31.2	1.672	2.558	12.5	17.2
3 22	13 34.81	+14 0.3	1.638	2.569	10.0	17.1
4 1	13 27.11	+15 17.2	1.629	2.580	8.6	17.0
4 11	13 18.58	+16 13.1	1.646	2.591	9.2	17.1
4 21	13 10.29	+16 42.6	1.687	2.602	11.4	17.2
5 1	13 3.19	+16 43.7	1.751	2.613	14.0	17.4
5 11	12 58.02	+16 18.0	1.834	2.624	16.5	17.6

497005 2002 XN_{99} 4 10.9 222°.04 4°.3/15.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.64	−24 4.3	2.187	2.899	15.7	21.0
3 12	13 41.05	−24 1.2	2.076	2.890	13.3	20.8
3 22	13 35.16	−23 37.7	1.984	2.880	10.5	20.5
4 1	13 27.40	−22 52.5	1.916	2.870	7.3	20.3
4 11	13 18.59	−21 47.1	1.875	2.859	4.7	20.1
4 21	13 9.66	−20 25.9	1.861	2.847	4.9	20.1
5 1	13 1.60	−18 55.9	1.876	2.835	7.8	20.3
5 11	12 55.25	−17 25.4	1.918	2.822	11.1	20.5

422941 2002 TL_{347} 4 10.9 240°.36 4°.4/ 6.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 43.83	− 0 20.1	1.847	2.656	14.9	21.9
3 12	13 40.52	+ 0 43.2	1.757	2.646	11.8	21.7
3 22	13 34.82	+ 1 55.2	1.688	2.637	8.3	21.4
4 1	13 27.23	+ 3 9.6	1.645	2.627	5.1	21.2
4 11	13 18.59	+ 4 18.5	1.630	2.617	4.8	21.2
4 21	13 9.89	+ 5 14.6	1.641	2.606	7.8	21.3
5 1	13 2.16	+ 5 52.2	1.678	2.595	11.5	21.5
5 11	12 56.23	+ 6 8.4	1.738	2.584	14.9	21.7

41386 2000 AD_{140} 4 10.9 198°.73 3°.0/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.76	− 1 45.6	2.405	3.197	12.3	19.5
3 12	13 39.00	− 0 52.8	2.313	3.194	9.7	19.3
3 22	13 33.38	+ 0 6.8	2.245	3.191	6.7	19.1
4 1	13 26.36	+ 1 8.9	2.204	3.187	3.9	18.9
4 11	13 18.59	+ 2 8.0	2.192	3.183	3.3	18.8
4 21	13 10.83	+ 2 58.8	2.209	3.178	5.8	19.0
5 1	13 3.83	+ 3 37.0	2.254	3.173	8.9	19.2
5 11	12 58.19	+ 3 59.9	2.323	3.167	11.7	19.3

241882 2001 VJ_{8} 4 10.9 132°.06 2°.3/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.87	−16 51.2	1.676	2.440	18.0	21.3
3 12	13 43.19	−16 42.1	1.594	2.449	14.7	21.1
3 22	13 36.77	−16 13.1	1.531	2.459	10.7	20.9
4 1	13 28.23	−15 25.2	1.491	2.468	6.3	20.6
4 11	13 18.59	−14 22.5	1.477	2.476	2.5	20.4
4 21	13 9.03	−13 11.6	1.491	2.484	4.6	20.5
5 1	13 0.73	−12 0.9	1.532	2.491	9.0	20.8
5 11	12 54.57	−10 58.3	1.596	2.498	13.1	21.1

366398 2001 RD_{30} 4 10.9 179°.04 0°.9/10.0 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.63	− 8 44.3	2.423	3.194	12.9	22.6
3 12	13 40.45	− 8 5.6	2.328	3.196	10.2	22.4
3 22	13 34.38	− 7 16.0	2.257	3.197	7.0	22.2
4 1	13 26.86	− 6 18.6	2.212	3.198	3.5	22.0
4 11	13 18.60	− 5 18.0	2.197	3.198	0.9	21.8
4 21	13 10.35	− 4 19.2	2.211	3.197	4.2	22.0
5 1	13 2.89	− 3 27.3	2.255	3.195	7.7	22.2
5 11	12 56.85	− 2 46.4	2.324	3.193	10.8	22.4

173972 2001 XR_{111} 4 10.9 118°.08 4°.2/ 5.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.41	+ 3 21.5	2.553	3.353	11.5	20.7
3 12	13 37.69	+ 4 19.8	2.480	3.363	9.0	20.5
3 22	13 32.32	+ 5 20.8	2.431	3.374	6.5	20.4
4 1	13 25.75	+ 6 19.2	2.410	3.384	4.5	20.3
4 11	13 18.60	+ 7 9.9	2.418	3.395	4.5	20.3
4 21	13 11.56	+ 7 48.7	2.454	3.404	6.5	20.4
5 1	13 5.26	+ 8 12.6	2.517	3.414	9.0	20.6
5 11	13 0.25	+ 8 20.4	2.604	3.424	11.3	20.8

463272 2012 GT_{34} 4 10.9 107°.58 1°.0/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 51.64	−10 12.5	1.821	2.591	16.5	20.3
3 12	13 46.70	−10 39.9	1.736	2.600	13.3	20.0
3 22	13 39.10	−10 57.0	1.673	2.608	9.4	19.8
4 1	13 29.40	−11 4.6	1.634	2.616	5.1	19.6
4 11	13 18.60	−11 4.6	1.623	2.625	1.1	19.3
4 21	13 7.84	−11 0.4	1.641	2.633	4.5	19.6
5 1	12 58.25	−10 56.0	1.686	2.640	8.8	19.8
5 11	12 50.73	−10 55.9	1.756	2.648	12.6	20.1

470655 2008 SQ_{139} 4 10.9 237°.99 3°.3/ 7.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.61	− 1 56.9	2.177	2.975	13.3	21.9
3 12	13 39.17	− 0 59.1	2.080	2.964	10.5	21.7
3 22	13 33.69	+ 0 7.4	2.005	2.953	7.3	21.5
4 1	13 26.59	+ 1 17.4	1.957	2.941	4.2	21.3
4 11	13 18.61	+ 2 24.5	1.938	2.929	3.6	21.2
4 21	13 10.56	+ 3 22.7	1.947	2.916	6.4	21.4
5 1	13 3.31	+ 4 6.6	1.983	2.903	9.8	21.5
5 11	12 57.55	+ 4 33.0	2.042	2.889	13.0	21.7

60424 2000 CY_{48} 4 10.9 92°.09 0°.9/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.35	−10 20.1	1.402	2.205	19.1	19.6
3 12	13 42.31	− 9 38.3	1.332	2.217	15.1	19.4
3 22	13 36.30	− 8 38.0	1.281	2.228	10.5	19.1
4 1	13 28.01	− 7 23.7	1.253	2.240	5.2	18.9
4 11	13 18.60	− 6 3.5	1.250	2.252	1.0	18.6
4 21	13 9.38	− 4 46.9	1.274	2.263	5.9	19.0
5 1	13 1.60	− 3 42.6	1.322	2.274	10.9	19.3
5 11	12 56.17	− 2 57.0	1.393	2.285	15.2	19.6

469743 2005 NM_{116} 4 10.9 185°.17 3°.6/15.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.41	−22 12.5	2.630	3.344	13.3	21.9
3 12	13 38.76	−22 21.4	2.527	3.344	11.2	21.7
3 22	13 33.25	−22 15.1	2.445	3.343	8.7	21.6
4 1	13 26.32	−21 53.3	2.388	3.343	6.0	21.4
4 11	13 18.61	−21 17.2	2.358	3.342	3.9	21.2
4 21	13 10.87	−20 30.0	2.356	3.341	4.1	21.3
5 1	13 3.84	−19 36.1	2.384	3.340	6.5	21.4
5 11	12 58.17	−18 41.1	2.437	3.338	9.2	21.6

471175 2010 JY_{131} 4 10.9 219°.93 5°.6/18.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 42.77	−30 16.5	2.929	3.584	13.2	22.0
3 12	13 39.04	−30 41.3	2.816	3.578	11.5	21.8
3 22	13 33.46	−30 49.7	2.723	3.572	9.6	21.7
4 1	13 26.44	−30 39.8	2.653	3.565	7.6	21.5
4 11	13 18.61	−30 11.5	2.608	3.558	6.0	21.4
4 21	13 10.69	−29 26.5	2.592	3.551	5.7	21.4
5 1	13 3.43	−28 28.6	2.603	3.543	6.8	21.4
5 11	12 57.47	−27 23.4	2.641	3.535	8.8	21.5

354766 2005 UP_{72} 4 10.9 197°.50 1°.5/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 50.24	− 6 10.4	1.685	2.475	16.9	21.7
3 12	13 45.89	− 5 54.9	1.595	2.473	13.5	21.5
3 22	13 38.73	− 5 28.4	1.525	2.470	9.3	21.2
4 1	13 29.30	− 4 54.4	1.480	2.467	4.7	20.9
4 11	13 18.61	− 4 18.1	1.462	2.463	1.6	20.7
4 21	13 7.87	− 3 45.5	1.472	2.458	5.8	21.0
5 1	12 58.30	− 3 22.2	1.508	2.453	10.5	21.2
5 11	12 50.89	− 3 12.5	1.568	2.447	14.6	21.4

258002 2001 FG_{13} 4 10.9 332°.15 0°.1/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.64	− 8 12.8	1.424	2.230	18.6	20.2
3 12	13 42.84	− 8 24.9	1.336	2.222	15.0	19.9
3 22	13 36.96	− 8 25.2	1.267	2.215	10.6	19.6
4 1	13 28.53	− 8 15.4	1.221	2.208	5.5	19.3
4 11	13 18.61	− 7 59.5	1.200	2.202	0.1	18.9
4 21	13 8.55	− 7 42.9	1.204	2.196	5.6	19.3
5 1	12 59.75	− 7 31.4	1.233	2.191	10.9	19.5
5 11	12 53.34	− 7 30.2	1.283	2.186	15.5	19.8

224533 2005 WS_{105} 4 10.9 223°.17 0°.9/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.20	− 9 57.7	2.417	3.187	12.9	21.6
3 12	13 39.46	− 9 4.8	2.308	3.175	10.3	21.4
3 22	13 33.80	− 7 58.5	2.222	3.163	7.1	21.2
4 1	13 26.63	− 6 41.8	2.163	3.149	3.6	20.9
4 11	13 18.62	− 5 20.1	2.134	3.135	0.9	20.7
4 21	13 10.53	− 3 59.1	2.135	3.121	4.4	20.9
5 1	13 3.16	− 2 45.2	2.165	3.105	8.0	21.1
5 11	12 57.17	− 1 43.5	2.221	3.089	11.3	21.3

495894 2004 XU_{93} 4 10.9 354°.97 17°.7/28.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 36.06	−44 7.4	1.264	1.925	27.4	19.9
3 12	13 37.01	−46 7.9	1.187	1.919	25.7	19.7
3 22	13 34.02	−47 32.5	1.120	1.914	23.8	19.5
4 1	13 27.45	−48 9.9	1.066	1.910	21.6	19.3
4 11	13 18.60	−47 51.4	1.026	1.908	19.5	19.1
4 21	13 9.45	−46 34.1	1.002	1.908	18.1	19.0
5 1	13 2.16	−44 24.1	0.995	1.909	17.7	19.0
5 11	12 58.34	−41 36.7	1.006	1.911	18.6	19.1

356945 2012 UN_{31} 4 10.9 242°.92 2°.7/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 44.08	− 1 14.2	2.306	3.099	12.8	20.9
3 12	13 40.15	− 0 49.0	2.212	3.093	10.1	20.7
3 22	13 34.25	− 0 18.6	2.142	3.088	7.0	20.5
4 1	13 26.84	+ 0 13.3	2.098	3.082	3.9	20.3
4 11	13 18.62	+ 0 42.0	2.083	3.076	2.9	20.2
4 21	13 10.38	+ 1 3.6	2.096	3.071	5.5	20.4
5 1	13 2.93	+ 1 14.4	2.136	3.065	8.8	20.6
5 11	12 56.94	+ 1 12.3	2.202	3.058	11.8	20.8

262020 2006 QL_{99} 4 10.9 288°.19 0°.9/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.17	−12 54.0	1.605	2.393	17.6	21.1
3 12	13 40.76	−12 43.6	1.496	2.370	14.4	20.9
3 22	13 35.52	−12 15.1	1.406	2.347	10.4	20.6
4 1	13 27.84	−11 29.5	1.340	2.324	5.7	20.2
4 11	13 18.62	−10 30.9	1.298	2.300	1.0	19.8
4 21	13 9.05	− 9 25.7	1.283	2.276	5.1	20.1
5 1	13 0.45	− 8 22.6	1.294	2.253	10.4	20.3
5 11	12 53.94	− 7 29.9	1.327	2.229	15.1	20.5

41773 2000 VH_{43} 4 10.9 336°.76 4°.6/14.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 38.69	−20 51.6	1.312	2.095	21.1	18.0
3 12	13 37.74	−21 2.4	1.223	2.086	17.8	17.8
3 22	13 33.65	−20 46.2	1.151	2.077	13.6	17.5
4 1	13 26.91	−20 0.9	1.099	2.070	9.0	17.2
4 11	13 18.62	−18 49.1	1.070	2.063	5.1	16.9
4 21	13 10.18	−17 18.1	1.064	2.057	6.0	17.0
5 1	13 3.07	−15 39.5	1.082	2.052	10.5	17.2
5 11	12 58.45	−14 6.4	1.122	2.048	15.3	17.4

348866 2006 SH_{144} 4 10.9 111°.78 0°.2/11.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 41.09	−11 48.1	2.526	3.292	12.5	22.3
3 12	13 37.55	−11 19.0	2.440	3.303	10.0	22.2
3 22	13 32.29	−10 38.5	2.377	3.314	7.0	22.0
4 1	13 25.77	− 9 49.0	2.341	3.325	3.6	21.8
4 11	13 18.63	− 8 54.3	2.333	3.335	0.2	21.5
4 21	13 11.56	− 7 59.0	2.355	3.346	3.4	21.8
5 1	13 5.25	− 7 7.7	2.405	3.356	6.8	22.0
5 11	13 0.23	− 6 24.6	2.482	3.366	9.7	22.2

114640 2003 EK_{35} 4 10.9 21°.23 5°.4/15.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
3 2	13 46.06	−22 25.7	2.086	2.808	16.1	19.5
3 12	13 42.26	−23 21.7	1.994	2.812	13.7	19.3
3 22	13 36.03	−24 2.3	1.922	2.817	10.8	19.1
4 1	13 27.88	−24 24.9	1.873	2.822	7.9	19.0
4 11	13 18.63	−24 29.1	1.851	2.827	5.7	18.8
4 21	13 9.29	−24 16.8	1.855	2.832	5.8	18.9
5 1	13 0.90	−23 52.1	1.886	2.838	8.1	19.0
5 11	12 54.31	−23 21.3	1.942	2.845	11.0	19.2

118731 2000 QX_{115} 4 10.9 117°.53 10°.7/28.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 43.01	+19 0.4	1.984	2.791	14.0	19.4
3 12	13 39.61	+21 23.9	1.940	2.802	12.2	19.3
3 22	13 33.98	+23 38.9	1.919	2.812	10.9	19.2
4 1	13 26.70	+25 34.6	1.925	2.822	10.8	19.3
4 11	13 18.64	+27 2.1	1.955	2.832	11.8	19.3
4 21	13 10.75	+27 56.6	2.008	2.842	13.5	19.5
5 1	13 3.92	+28 17.2	2.082	2.851	15.3	19.6
5 11	12 58.83	+28 6.6	2.172	2.860	17.1	19.8

24845 1995 VP_{17} 4 10.9 101°.46 0°.6/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.53	− 8 57.7	1.662	2.455	16.9	19.7
3 12	13 42.09	− 8 40.2	1.581	2.460	13.5	19.4
3 22	13 36.01	− 8 9.3	1.520	2.465	9.4	19.2
4 1	13 27.87	− 7 28.0	1.482	2.469	4.7	18.9
4 11	13 18.65	− 6 41.6	1.472	2.474	0.7	18.6
4 21	13 9.48	− 5 56.5	1.488	2.478	5.2	19.0
5 1	13 1.49	− 5 19.1	1.531	2.482	9.7	19.2
5 11	12 55.55	− 4 54.3	1.596	2.486	13.8	19.5

428870 2008 UA_{183} 4 10.9 196°.81 0°.9/10.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.66	− 8 17.9	2.226	3.008	13.5	21.5
3 12	13 39.13	− 7 45.0	2.132	3.006	10.7	21.3
3 22	13 33.60	− 7 0.9	2.061	3.004	7.4	21.1
4 1	13 26.53	− 6 8.9	2.016	3.002	3.7	20.9
4 11	13 18.65	− 5 13.7	1.999	3.000	1.0	20.6
4 21	13 10.77	− 4 20.5	2.011	2.997	4.5	20.9
5 1	13 3.70	− 3 34.6	2.050	2.994	8.2	21.1
5 11	12 58.12	− 3 0.2	2.115	2.991	11.5	21.3

382065 2011 EG_{42} 4 10.9 325°.72 3°.5/ 7.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 39.95	− 3 19.9	1.649	2.467	16.0	20.6
3 12	13 37.77	− 2 24.9	1.562	2.458	12.6	20.4
3 22	13 33.08	− 1 18.3	1.496	2.449	8.7	20.1
4 1	13 26.42	− 0 5.8	1.454	2.440	4.9	19.9
4 11	13 18.65	+ 1 4.4	1.438	2.432	3.8	19.8
4 21	13 10.84	+ 2 4.3	1.448	2.424	7.3	20.0
5 1	13 4.06	+ 2 47.1	1.483	2.417	11.5	20.2
5 11	12 59.17	+ 3 9.0	1.539	2.410	15.3	20.4

426995 2014 OO_{298} 4 10.9 133°.11 0°.9/10.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 46.29	− 9 4.9	1.966	2.746	15.1	22.4
3 12	13 42.14	− 8 28.6	1.887	2.759	12.0	22.2
3 22	13 35.72	− 7 39.7	1.829	2.771	8.2	22.0
4 1	13 27.60	− 6 41.7	1.797	2.783	4.1	21.8
4 11	13 18.66	− 5 40.1	1.793	2.795	0.9	21.5
4 21	13 9.84	− 4 41.2	1.818	2.805	4.8	21.8
5 1	13 2.07	− 3 50.7	1.871	2.815	8.8	22.1
5 11	12 56.07	− 3 13.3	1.948	2.825	12.3	22.3

378347 2007 HS_{80} 4 10.9 337°.97 1°.4/12.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 36.90	−17 7.5	1.580	2.366	18.0	20.3
3 12	13 35.59	−16 25.3	1.487	2.358	14.7	20.0
3 22	13 31.70	−15 18.1	1.412	2.350	10.6	19.8
4 1	13 25.75	−13 47.8	1.361	2.343	6.0	19.5
4 11	13 18.66	−12 0.6	1.335	2.336	1.6	19.2
4 21	13 11.51	−10 6.3	1.336	2.330	4.7	19.4
5 1	13 5.45	− 8 15.9	1.362	2.325	9.6	19.6
5 11	13 1.36	− 6 39.7	1.412	2.320	14.0	19.9

377860 2006 BC_{238} 4 10.9 182°.43 1°.4/12.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 45.01	−13 51.4	2.080	2.842	15.0	21.9
3 12	13 41.23	−13 52.8	1.985	2.842	12.1	21.7
3 22	13 35.20	−13 40.7	1.912	2.842	8.7	21.5
4 1	13 27.41	−13 16.1	1.863	2.842	4.9	21.2
4 11	13 18.66	−12 41.8	1.842	2.842	1.5	21.0
4 21	13 9.88	−12 2.1	1.849	2.841	3.9	21.2
5 1	13 2.01	−11 22.4	1.884	2.841	7.8	21.4
5 11	12 55.83	−10 48.0	1.944	2.840	11.4	21.6

238048 2003 BH_{37} 4 10.9 49°.92 4°.3/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
3 2	13 42.59	− 3 50.1	1.274	2.103	19.1	20.2
3 12	13 40.37	− 2 38.1	1.209	2.111	15.0	20.0
3 22	13 35.10	− 1 11.5	1.163	2.119	10.3	19.7
4 1	13 27.46	+ 0 21.0	1.141	2.128	5.8	19.5
4 11	13 18.66	+ 1 48.3	1.143	2.137	4.7	19.4
4 21	13 10.06	+ 2 59.7	1.170	2.146	8.6	19.7
5 1	13 2.94	+ 3 47.6	1.220	2.156	13.2	20.0
5 11	12 58.22	+ 4 8.7	1.290	2.166	17.3	20.2

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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