212801 2007 TR_{299} 2 26.9 347°.76 0°.5/26.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 1.99	+ 7 52.2	1.413	2.239	17.3	21.1
2 1	10 58.21	+ 8 11.8	1.336	2.236	13.3	20.8
2 11	10 51.57	+ 8 46.6	1.279	2.234	8.5	20.6
2 21	10 42.81	+ 9 31.2	1.247	2.232	3.2	20.2
3 2	10 33.09	+10 18.2	1.242	2.230	2.5	20.2
3 12	10 23.88	+10 59.7	1.262	2.229	7.9	20.5
3 22	10 16.44	+11 29.3	1.307	2.228	12.8	20.8
4 1	10 11.71	+11 43.3	1.373	2.228	17.0	21.0

81168 2000 ED_{165} 2 26.9 65°.70 1°.0/26.2 18

1 22	11 3.16	+ 8 47.9	1.563	2.384	16.2	19.8
2 1	10 58.62	+ 9 19.8	1.500	2.398	12.2	19.6
2 11	10 51.53	+10 4.4	1.460	2.414	7.7	19.4
2 21	10 42.69	+10 55.5	1.444	2.429	2.8	19.1
3 2	10 33.22	+11 45.9	1.457	2.444	2.6	19.1
3 12	10 24.41	+12 28.3	1.497	2.460	7.3	19.5
3 22	10 17.31	+12 57.9	1.562	2.475	11.7	19.7
4 1	10 12.65	+13 12.0	1.650	2.491	15.3	20.0

107093 2001 AG_{29} 2 26.9 74°.53 1°.9/25.6 18

1 22	11 5.85	+10 36.6	1.476	2.300	16.8	19.5
2 1	11 0.68	+11 17.4	1.422	2.323	12.6	19.3
2 11	10 52.82	+12 9.3	1.391	2.346	7.9	19.1
2 21	10 43.16	+13 5.1	1.385	2.369	3.1	18.9
3 2	10 32.94	+13 56.4	1.407	2.392	3.4	19.0
3 12	10 23.55	+14 36.0	1.456	2.414	8.0	19.3
3 22	10 16.07	+14 59.9	1.530	2.437	12.3	19.6
4 1	10 11.22	+15 6.6	1.625	2.459	15.8	19.9

506551 2005 NZ_{122} 2 26.9 220°.00 6°.1/17.3 17

1 22	11 2.34	+33 2.3	3.282	4.087	8.8	22.0
2 1	10 57.09	+34 14.4	3.207	4.076	7.4	21.9
2 11	10 50.20	+35 21.0	3.160	4.064	6.3	21.8
2 21	10 42.14	+36 16.6	3.141	4.052	6.2	21.8
3 2	10 33.56	+36 56.5	3.150	4.039	7.1	21.8
3 12	10 25.22	+37 17.7	3.187	4.025	8.5	21.9
3 22	10 17.80	+37 19.7	3.248	4.011	10.2	22.0
4 1	10 11.86	+37 3.7	3.331	3.996	11.7	22.1

141162 2001 XL_{127} 2 26.9 343°.22 1°.4/25.6 17 R

1 22	10 57.79	+10 15.7	2.021	2.841	13.1	19.8
2 1	10 54.22	+10 52.5	1.937	2.836	9.9	19.5
2 11	10 48.63	+11 39.1	1.876	2.831	6.2	19.3
2 21	10 41.60	+12 30.7	1.843	2.827	2.4	19.1
3 2	10 33.92	+13 21.3	1.837	2.823	2.7	19.1
3 12	10 26.57	+14 4.8	1.860	2.819	6.5	19.3
3 22	10 20.40	+14 36.9	1.910	2.816	10.2	19.5
4 1	10 16.10	+14 55.0	1.982	2.813	13.5	19.7

258635 2002 ET_{31} 2 26.9 270°.28 0°.2/26.9 18

1 22	11 4.79	+ 7 46.0	1.591	2.404	16.3	20.5
2 1	11 0.19	+ 7 53.8	1.500	2.394	12.6	20.2
2 11	10 52.81	+ 8 14.7	1.431	2.383	8.1	19.9
2 21	10 43.30	+ 8 44.4	1.388	2.371	3.1	19.6
3 2	10 32.75	+ 9 17.3	1.372	2.360	2.2	19.5
3 12	10 22.53	+ 9 46.7	1.383	2.349	7.4	19.8
3 22	10 13.93	+10 7.1	1.420	2.338	12.2	20.0
4 1	10 7.89	+10 15.0	1.479	2.326	16.4	20.3

109772 2001 RJ_{79} 2 26.9 214°.00 4°.1/22.8 17

1 22	11 5.86	+20 14.8	2.412	3.225	11.4	20.7
2 1	11 0.09	+21 4.5	2.323	3.216	8.7	20.5
2 11	10 52.27	+21 55.7	2.261	3.207	6.0	20.3
2 21	10 42.97	+22 42.5	2.227	3.196	4.2	20.1
3 2	10 33.01	+23 18.7	2.223	3.185	5.1	20.2
3 12	10 23.35	+23 40.0	2.249	3.173	7.8	20.3
3 22	10 14.87	+23 44.3	2.302	3.161	10.8	20.5
4 1	10 8.27	+23 31.8	2.378	3.148	13.4	20.6

178911 2001 PZ_{23} 2 26.9 179°.72 3°.1/24.1 18

1 22	11 4.73	+15 58.8	2.158	2.973	12.5	21.0
2 1	10 59.32	+16 43.1	2.078	2.974	9.4	20.8
2 11	10 51.80	+17 32.0	2.023	2.975	6.1	20.6
2 21	10 42.78	+18 19.6	1.997	2.975	3.3	20.4
3 2	10 33.15	+18 59.7	2.000	2.975	4.2	20.4
3 12	10 23.91	+19 27.4	2.033	2.975	7.4	20.6
3 22	10 15.97	+19 40.0	2.092	2.973	10.7	20.8
4 1	10 10.02	+19 36.7	2.175	2.971	13.6	21.0

215535 2002 VF_{128} 2 26.9 122°.74 5°.3/21.6 18

1 22	11 5.61	+21 55.4	2.135	2.956	12.4	21.2
2 1	10 59.92	+23 13.0	2.080	2.975	9.5	21.1
2 11	10 52.11	+24 30.3	2.050	2.994	6.7	20.9
2 21	10 42.86	+25 39.4	2.049	3.011	5.3	20.9
3 2	10 33.13	+26 33.2	2.078	3.028	6.4	21.0
3 12	10 23.97	+27 7.2	2.134	3.045	8.9	21.2
3 22	10 16.25	+27 20.0	2.216	3.061	11.7	21.4
4 1	10 10.62	+27 12.9	2.320	3.075	14.1	21.6

78372 2002 PJ_{125} 2 26.9 207°.22 0°.8/26.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	10 59.45	+ 8 35.0	2.228	3.034	12.4	20.1
2 1	10 55.27	+ 9 13.8	2.141	3.033	9.4	19.9
2 11	10 49.21	+10 2.8	2.079	3.031	6.0	19.7
2 21	10 41.81	+10 57.8	2.045	3.029	2.2	19.4
3 2	10 33.81	+11 53.2	2.040	3.027	2.1	19.4
3 12	10 26.11	+12 43.3	2.064	3.024	5.9	19.6
3 22	10 19.50	+13 23.7	2.116	3.022	9.4	19.9
4 1	10 14.64	+13 51.4	2.192	3.019	12.5	20.0

161599 2005 SB_{153} 2 26.9 239°.81 0°.4/26.7 18

1 22	11 3.65	+ 6 25.6	1.601	2.413	16.3	21.2
2 1	10 59.34	+ 7 3.7	1.509	2.402	12.6	20.9
2 11	10 52.29	+ 7 58.9	1.439	2.390	8.1	20.6
2 21	10 43.12	+ 9 6.4	1.394	2.378	3.0	20.3
3 2	10 32.88	+10 18.2	1.377	2.365	2.4	20.2
3 12	10 22.93	+11 25.5	1.388	2.352	7.6	20.5
3 22	10 14.52	+12 20.6	1.424	2.338	12.5	20.8
4 1	10 8.63	+12 58.9	1.483	2.324	16.7	21.0

332548 2008 QP_{24} 2 26.9 222°.30 1°.7/28.9 17

1 22	10 59.12	− 0 2.0	2.401	3.172	12.7	21.5
2 1	10 54.96	+ 0 28.3	2.299	3.164	10.0	21.3
2 11	10 49.01	+ 1 14.4	2.220	3.155	6.9	21.0
2 21	10 41.74	+ 2 13.7	2.169	3.145	3.5	20.8
3 2	10 33.85	+ 3 22.1	2.148	3.135	1.9	20.7
3 12	10 26.14	+ 4 33.6	2.156	3.124	5.0	20.9
3 22	10 19.39	+ 5 42.6	2.194	3.113	8.4	21.1
4 1	10 14.23	+ 6 43.9	2.258	3.102	11.6	21.2

342962 2009 BU_{6} 2 26.9 357°.94 4°.5/ 1.6 18

1 22	10 57.33	− 3 26.2	1.710	2.492	16.7	20.0
2 1	10 54.22	− 3 49.8	1.625	2.488	13.5	19.8
2 11	10 48.82	− 3 53.3	1.560	2.486	9.9	19.6
2 21	10 41.73	− 3 37.1	1.519	2.484	6.3	19.4
3 2	10 33.86	− 3 3.7	1.504	2.484	4.5	19.3
3 12	10 26.34	− 2 18.7	1.516	2.484	6.6	19.4
3 22	10 20.17	− 1 29.0	1.553	2.485	10.3	19.6
4 1	10 16.13	− 0 41.4	1.613	2.488	13.9	19.8

411281 2010 SY_{29} 2 26.9 275°.30 1°.5/25.9 18

1 22	11 4.93	+10 58.0	1.648	2.467	15.5	20.8
2 1	11 0.20	+11 14.5	1.559	2.457	11.9	20.5
2 11	10 52.77	+11 41.0	1.492	2.446	7.6	20.3
2 21	10 43.28	+12 12.3	1.452	2.436	2.9	19.9
3 2	10 32.81	+12 42.1	1.439	2.425	3.0	19.9
3 12	10 22.72	+13 4.1	1.453	2.414	7.7	20.2
3 22	10 14.22	+13 13.8	1.494	2.404	12.3	20.4
4 1	10 8.22	+13 9.2	1.556	2.393	16.3	20.6

208396 2001 SZ_{182} 2 26.9 145°.92 0°.4/26.5 17

1 22	10 59.58	+ 8 3.6	2.853	3.645	10.4	22.0
2 1	10 54.89	+ 8 35.5	2.772	3.655	7.8	21.9
2 11	10 48.73	+ 9 15.2	2.716	3.665	4.9	21.7
2 21	10 41.57	+ 9 59.3	2.690	3.674	1.8	21.5
3 2	10 34.02	+10 43.9	2.695	3.682	1.5	21.5
3 12	10 26.75	+11 24.8	2.730	3.690	4.6	21.7
3 22	10 20.36	+11 59.0	2.795	3.698	7.5	21.9
4 1	10 15.35	+12 24.0	2.885	3.705	10.0	22.1

9136 Lalande 2 27.0 198°.87 3°.0/24.4 18

1 22	11 5.23	+14 57.8	1.973	2.790	13.4	18.3
2 1	10 59.95	+15 43.2	1.890	2.788	10.2	18.1
2 11	10 52.35	+16 34.8	1.832	2.784	6.5	17.8
2 21	10 43.06	+17 26.5	1.801	2.781	3.4	17.6
3 2	10 33.03	+18 11.3	1.799	2.776	4.2	17.7
3 12	10 23.40	+18 43.2	1.826	2.772	7.8	17.9
3 22	10 15.16	+18 59.2	1.880	2.766	11.5	18.1
4 1	10 9.09	+18 58.2	1.956	2.760	14.7	18.3

365143 2009 DD_{56} 2 27.0 24°.03 2°.5/25.4 18

1 22	11 1.90	+11 36.3	1.218	2.062	18.3	20.8
2 1	10 58.39	+12 10.4	1.157	2.069	13.9	20.6
2 11	10 51.76	+12 57.0	1.117	2.076	8.7	20.3
2 21	10 42.90	+13 48.4	1.100	2.084	3.6	20.0
3 2	10 33.17	+14 34.8	1.108	2.093	4.1	20.1
3 12	10 24.22	+15 7.9	1.141	2.103	9.2	20.4
3 22	10 17.37	+15 22.6	1.197	2.113	14.1	20.7
4 1	10 13.49	+15 17.6	1.272	2.124	18.3	21.0

419749 2010 VA_{86} 2 27.0 45°.50 4°.1/23.9 18

1 22	11 2.76	+15 46.8	1.474	2.313	16.0	20.7
2 1	10 58.49	+16 41.5	1.419	2.328	12.0	20.5
2 11	10 51.53	+17 42.5	1.387	2.343	7.7	20.3
2 21	10 42.73	+18 41.2	1.380	2.359	4.3	20.1
3 2	10 33.31	+19 28.6	1.399	2.375	5.4	20.2
3 12	10 24.65	+19 58.1	1.445	2.392	9.3	20.5
3 22	10 17.83	+20 7.1	1.514	2.409	13.2	20.8
4 1	10 13.61	+19 55.8	1.605	2.426	16.6	21.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
48785 Pitter			2 27.0 127°.33		0°.9/26.1 18	
	h m	° ′			°	m
1 22	11 0.58	+ 9 29.7	2.384	3.188	11.8	19.2
2 1	10 55.92	+10 0.8	2.306	3.196	8.9	19.0
2 11	10 49.52	+10 40.1	2.253	3.204	5.6	18.8
2 21	10 41.91	+11 23.5	2.228	3.212	2.1	18.6
3 2	10 33.83	+12 6.2	2.234	3.220	2.0	18.6
3 12	10 26.09	+12 43.6	2.269	3.228	5.5	18.9
3 22	10 19.44	+13 12.0	2.332	3.235	8.8	19.1
4 1	10 14.43	+13 29.5	2.419	3.242	11.6	19.3
133268 2003 SY_3			2 27.0 94°.41		0°.5/26.6 18	
1 22	11 0.87	+ 7 57.7	2.066	2.872	13.3	19.9
2 1	10 56.42	+ 8 24.4	1.988	2.878	10.1	19.7
2 11	10 49.96	+ 9 1.6	1.934	2.885	6.4	19.5
2 21	10 42.11	+ 9 45.1	1.908	2.892	2.4	19.3
3 2	10 33.69	+10 29.7	1.910	2.898	1.9	19.2
3 12	10 25.67	+11 9.7	1.942	2.905	5.9	19.5
3 22	10 18.89	+11 41.0	2.001	2.911	9.6	19.8
4 1	10 13.99	+12 0.6	2.083	2.917	12.8	20.0
108961 2001 PE_{33}			2 27.0 58°.88		5°.4/21.8 18	
1 22	11 2.65	+22 58.2	2.080	2.908	12.4	19.1
2 1	10 57.81	+23 53.9	2.018	2.916	9.5	19.0
2 11	10 50.84	+24 48.4	1.980	2.925	6.8	18.8
2 21	10 42.43	+25 34.6	1.970	2.933	5.4	18.7
3 2	10 33.50	+26 6.2	1.989	2.942	6.4	18.8
3 12	10 25.10	+26 19.1	2.034	2.950	9.0	19.0
3 22	10 18.11	+26 12.3	2.104	2.959	11.8	19.2
4 1	10 13.17	+25 47.0	2.197	2.968	14.3	19.4
489523 2007 RD_{42}			2 27.0 232°.23		3°.6/29.9 18	
1 22	11 1.90	− 3 2.3	1.761	2.534	16.6	22.0
2 1	10 57.75	− 2 58.2	1.665	2.526	13.4	21.8
2 11	10 51.15	− 2 32.5	1.590	2.518	9.6	21.5
2 21	10 42.68	− 1 46.2	1.540	2.509	5.7	21.3
3 2	10 33.27	− 0 43.4	1.517	2.500	3.6	21.1
3 12	10 24.12	+ 0 29.1	1.522	2.491	6.5	21.3
3 22	10 16.33	+ 1 42.8	1.554	2.481	10.7	21.5
4 1	10 10.76	+ 2 50.4	1.609	2.470	14.6	21.7
468272 2015 CS_{14}			2 27.0 113°.58		1°.8/25.3 17	
1 22	11 0.34	+11 22.3	2.088	2.904	12.8	21.2
2 1	10 56.05	+12 5.4	2.010	2.908	9.7	21.0
2 11	10 49.75	+12 57.2	1.957	2.911	6.1	20.8
2 21	10 42.05	+13 52.1	1.931	2.914	2.5	20.5
3 2	10 33.76	+14 44.3	1.934	2.918	3.0	20.6
3 12	10 25.85	+15 27.8	1.966	2.921	6.6	20.8
3 22	10 19.16	+15 58.8	2.025	2.924	10.1	21.0
4 1	10 14.34	+16 15.2	2.108	2.927	13.2	21.2
275668 2000 QV_{36}			2 27.0 128°.50		1°.9/28.9 18	
1 22	11 4.38	+ 1 9.0	2.479	3.243	12.6	22.1
2 1	10 58.65	+ 1 10.6	2.401	3.261	9.8	21.9
2 11	10 51.19	+ 1 24.5	2.347	3.279	6.7	21.7
2 21	10 42.54	+ 1 48.5	2.321	3.296	3.4	21.6
3 2	10 33.46	+ 2 19.5	2.326	3.312	2.0	21.5
3 12	10 24.76	+ 2 53.4	2.361	3.327	4.7	21.7
3 22	10 17.17	+ 3 26.1	2.426	3.342	7.9	21.9
4 1	10 11.24	+ 3 54.1	2.517	3.356	10.7	22.1
83661 2001 TL_{17}			2 27.0 117°.37		7°.1/18.5 18	
1 22	11 3.80	+31 51.0	2.513	3.329	10.9	19.4
2 1	10 58.46	+33 3.7	2.461	3.339	9.0	19.3
2 11	10 51.16	+34 9.2	2.435	3.349	7.5	19.2
2 21	10 42.55	+35 0.6	2.436	3.359	7.1	19.2
3 2	10 33.48	+35 32.4	2.465	3.368	8.1	19.3
3 12	10 24.91	+35 41.9	2.520	3.378	9.9	19.4
3 22	10 17.65	+35 29.3	2.599	3.387	11.8	19.5
4 1	10 12.30	+34 56.9	2.698	3.396	13.6	19.7
459065 2012 BS_{24}			2 27.0 96°.77		1°.1/26.0 18	
1 22	11 1.68	+ 7 30.4	1.678	2.493	15.5	21.2
2 1	10 57.43	+ 8 28.4	1.610	2.506	11.7	20.9
2 11	10 50.79	+ 9 41.1	1.565	2.519	7.3	20.7
2 21	10 42.47	+11 1.8	1.547	2.531	2.7	20.5
3 2	10 33.51	+12 22.1	1.557	2.544	2.7	20.5
3 12	10 25.09	+13 33.4	1.595	2.556	7.2	20.8
3 22	10 18.21	+14 29.8	1.660	2.568	11.4	21.0
4 1	10 13.60	+15 7.8	1.746	2.580	14.9	21.3
27551 Pelayo			2 27.0 141°.82		0°.8/27.7 18	
1 22	11 2.25	+ 4 31.2	1.860	2.659	14.9	18.9
2 1	10 57.72	+ 4 46.7	1.778	2.662	11.5	18.7
2 11	10 50.95	+ 5 16.5	1.718	2.664	7.5	18.4
2 21	10 42.55	+ 5 57.1	1.685	2.667	3.2	18.2
3 2	10 33.45	+ 6 43.3	1.681	2.670	1.7	18.1
3 12	10 24.75	+ 7 28.9	1.705	2.672	6.1	18.4
3 22	10 17.41	+ 8 8.2	1.755	2.674	10.2	18.6
4 1	10 12.19	+ 8 37.3	1.830	2.676	13.8	18.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
131917 2002 BM_{19}			2 27.0 289°.82		3°.9/23.9 18	
	h m	° ′			°	m
1 22	11 1.57	+14 2.5	1.495	2.333	15.9	19.3
2 1	10 58.06	+15 7.9	1.406	2.314	12.1	19.0
2 11	10 51.65	+16 25.9	1.338	2.295	7.9	18.7
2 21	10 42.97	+17 47.9	1.296	2.277	4.2	18.4
3 2	10 33.10	+19 3.2	1.280	2.258	5.5	18.5
3 12	10 23.50	+20 1.9	1.291	2.239	10.0	18.7
3 22	10 15.54	+20 37.7	1.325	2.221	14.7	18.9
4 1	10 10.28	+20 48.5	1.379	2.202	18.7	19.1
500644 2012 VR_7			2 27.0 93°.12		0°.3/27.4 17	
1 22	10 58.73	+ 5 11.8	2.383	3.176	12.1	21.7
2 1	10 54.53	+ 5 38.6	2.304	3.186	9.3	21.5
2 11	10 48.65	+ 6 16.6	2.250	3.196	6.0	21.4
2 21	10 41.60	+ 7 2.2	2.223	3.205	2.4	21.1
3 2	10 34.09	+ 7 51.2	2.226	3.215	1.4	21.1
3 12	10 26.92	+ 8 38.3	2.259	3.224	5.0	21.3
3 22	10 20.77	+ 9 19.4	2.320	3.234	8.3	21.6
4 1	10 16.21	+ 9 51.3	2.405	3.243	11.2	21.8
59624 1999 JS_{73}			2 27.0 319°.80		6°.4/ 3.9 18	
1 22	10 56.69	−10 30.8	1.725	2.471	17.9	18.9
2 1	10 53.85	−10 36.5	1.629	2.462	15.1	18.7
2 11	10 48.69	−10 14.6	1.552	2.453	11.8	18.4
2 21	10 41.76	− 9 23.8	1.498	2.445	8.5	18.2
3 2	10 33.94	− 8 6.6	1.469	2.437	6.4	18.1
3 12	10 26.36	− 6 29.9	1.466	2.429	7.5	18.1
3 22	10 20.10	− 4 43.5	1.489	2.421	10.6	18.3
4 1	10 15.98	− 2 57.9	1.537	2.414	14.2	18.5
212167 2005 GR_{41}			2 27.0 35°.34		0°.7/27.6 18	
1 22	11 0.58	+ 3 41.7	1.547	2.357	16.8	20.9
2 1	10 56.90	+ 4 15.4	1.468	2.359	13.0	20.7
2 11	10 50.64	+ 5 8.4	1.411	2.360	8.5	20.4
2 21	10 42.49	+ 6 16.1	1.378	2.361	3.5	20.1
3 2	10 33.48	+ 7 30.9	1.373	2.362	1.9	20.0
3 12	10 24.93	+ 8 43.8	1.395	2.364	7.0	20.3
3 22	10 17.95	+ 9 46.8	1.443	2.365	11.7	20.6
4 1	10 13.41	+10 34.5	1.512	2.367	15.7	20.8
274982 2009 TO_3			2 27.0 207°.86		0°.6/27.6 17	
1 22	11 2.60	+ 4 48.4	2.554	3.334	11.8	22.0
2 1	10 57.48	+ 5 8.3	2.453	3.327	9.1	21.8
2 11	10 50.57	+ 5 39.0	2.377	3.319	6.0	21.6
2 21	10 42.37	+ 6 17.9	2.329	3.310	2.5	21.3
3 2	10 33.56	+ 7 0.9	2.312	3.301	1.4	21.2
3 12	10 24.96	+ 7 43.4	2.326	3.291	4.9	21.4
3 22	10 17.31	+ 8 21.4	2.370	3.280	8.3	21.6
4 1	10 11.24	+ 8 51.5	2.439	3.269	11.3	21.8
309323 2007 SZ_4			2 27.0 105°.41		0°.7/26.4 18	
1 22	11 4.08	+ 7 6.5	1.728	2.536	15.4	21.0
2 1	10 59.11	+ 7 52.5	1.663	2.554	11.7	20.8
2 11	10 51.78	+ 8 52.3	1.621	2.572	7.4	20.5
2 21	10 42.84	+ 9 59.9	1.606	2.590	2.7	20.3
3 2	10 33.30	+11 7.7	1.620	2.607	2.3	20.3
3 12	10 24.36	+12 8.1	1.662	2.624	6.8	20.6
3 22	10 17.00	+12 55.7	1.731	2.640	10.9	20.9
4 1	10 11.91	+13 27.5	1.823	2.656	14.4	21.1
253166 2002 WV_{15}			2 27.0 72°.06		1°.4/28.3 18	
1 22	11 0.63	+ 1 0.7	1.645	2.442	16.6	20.6
2 1	10 56.59	+ 1 41.1	1.580	2.461	12.8	20.4
2 11	10 50.22	+ 2 41.6	1.537	2.481	8.5	20.2
2 21	10 42.25	+ 3 57.6	1.520	2.500	3.9	20.0
3 2	10 33.70	+ 5 21.4	1.530	2.519	1.9	19.9
3 12	10 25.71	+ 6 44.1	1.569	2.538	6.3	20.2
3 22	10 19.27	+ 7 58.0	1.634	2.557	10.5	20.5
4 1	10 15.06	+ 8 57.6	1.722	2.576	14.1	20.7
154966 2004 TF_{239}			2 27.0 66°.95		3°.4/23.1 17	
1 22	10 59.82	+19 29.7	2.649	3.469	10.3	20.2
2 1	10 55.25	+20 9.4	2.576	3.473	7.8	20.0
2 11	10 49.06	+20 50.2	2.529	3.478	5.2	19.9
2 21	10 41.75	+21 27.1	2.511	3.483	3.5	19.7
3 2	10 34.02	+21 55.7	2.522	3.488	4.3	19.8
3 12	10 26.64	+22 12.4	2.563	3.493	6.7	20.0
3 22	10 20.28	+22 15.6	2.630	3.498	9.3	20.1
4 1	10 15.47	+22 5.0	2.721	3.502	11.6	20.3
217076 2001 SW_{322}			2 27.0 183°.92		3°.0/29.9 16	
1 22	11 2.01	− 2 33.3	2.307	3.063	13.6	21.1
2 1	10 57.17	− 2 29.6	2.212	3.064	10.9	20.9
2 11	10 50.44	− 2 9.7	2.140	3.063	7.8	20.7
2 21	10 42.34	− 1 35.0	2.095	3.063	4.6	20.5
3 2	10 33.61	− 0 48.6	2.079	3.062	3.0	20.4
3 12	10 25.14	+ 0 4.4	2.093	3.060	5.2	20.6
3 22	10 17.74	+ 0 58.8	2.136	3.057	8.5	20.8
4 1	10 12.06	+ 1 49.2	2.204	3.054	11.6	21.0

205214 2000 JG_{67} 2 27.0 179°.22 0°.7/26.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	10 59.82	+ 8 53.4	2.683	3.481	10.8	21.8
2 1	10 55.24	+ 9 24.8	2.595	3.482	8.2	21.7
2 11	10 49.07	+10 4.1	2.533	3.482	5.2	21.5
2 21	10 41.78	+10 47.9	2.499	3.483	1.9	21.2
3 2	10 34.02	+11 31.8	2.496	3.483	1.8	21.2
3 12	10 26.51	+12 11.5	2.523	3.482	5.0	21.4
3 22	10 19.93	+12 43.6	2.579	3.482	8.1	21.6
4 1	10 14.81	+13 5.8	2.660	3.480	10.8	21.8

323902 2005 TZ_{24} 2 27.0 219°.65 5°.4/ 3.6 17

1 22	10 59.21	−10 6.3	2.128	2.856	15.5	21.6
2 1	10 55.30	−10 4.2	2.028	2.850	13.0	21.4
2 11	10 49.39	− 9 39.2	1.948	2.845	10.1	21.2
2 21	10 41.99	− 8 50.9	1.893	2.839	7.2	21.0
3 2	10 33.85	− 7 41.7	1.865	2.832	5.4	20.9
3 12	10 25.94	− 6 17.4	1.866	2.826	6.4	20.9
3 22	10 19.12	− 4 45.6	1.894	2.819	9.2	21.1
4 1	10 14.13	− 3 14.2	1.948	2.811	12.3	21.2

249449 2009 GA_{4} 2 27.0 247°.83 2°.0/29.2 17

1 22	10 58.12	+ 0 2.2	2.611	3.380	11.9	20.8
2 1	10 54.06	+ 0 10.3	2.510	3.372	9.4	20.7
2 11	10 48.39	+ 0 31.4	2.432	3.364	6.5	20.5
2 21	10 41.55	+ 1 3.7	2.382	3.356	3.5	20.3
3 2	10 34.16	+ 1 44.4	2.362	3.348	2.1	20.1
3 12	10 26.96	+ 2 29.2	2.371	3.339	4.6	20.3
3 22	10 20.63	+ 3 13.6	2.409	3.331	7.7	20.5
4 1	10 15.74	+ 3 53.7	2.473	3.322	10.6	20.6

436678 2011 SU_{122} 2 27.0 231°.26 6°.0/ 6.6 17

1 22	10 56.95	−17 47.8	3.116	3.767	12.4	22.3
2 1	10 53.03	−17 48.8	2.999	3.755	10.8	22.1
2 11	10 47.68	−17 30.4	2.903	3.743	9.0	22.0
2 21	10 41.27	−16 51.7	2.831	3.730	7.3	21.8
3 2	10 34.36	−15 53.6	2.787	3.716	6.1	21.8
3 12	10 27.57	−14 39.0	2.771	3.703	6.2	21.7
3 22	10 21.50	−13 12.9	2.784	3.689	7.5	21.8
4 1	10 16.68	−11 41.0	2.824	3.674	9.3	21.9

46454 4029 $P–L$ 2 27.0 177°.79 1°.1/26.0 18

1 22	11 5.41	+10 6.8	2.159	2.960	13.0	20.3
2 1	10 59.85	+10 34.5	2.074	2.962	9.9	20.1
2 11	10 52.18	+11 10.9	2.013	2.964	6.2	19.9
2 21	10 43.02	+11 51.4	1.981	2.965	2.4	19.6
3 2	10 33.22	+12 30.7	1.979	2.965	2.3	19.6
3 12	10 23.79	+13 3.6	2.007	2.964	6.2	19.9
3 22	10 15.62	+13 26.5	2.062	2.963	9.9	20.1
4 1	10 9.41	+13 37.3	2.142	2.961	13.1	20.3

187694 2008 DN_{59} 2 27.0 163°.22 1°.7/28.9 18

1 22	11 0.50	− 0 41.1	2.199	2.970	13.7	20.9
2 1	10 56.09	+ 0 1.4	2.111	2.976	10.8	20.7
2 11	10 49.77	+ 1 1.9	2.046	2.981	7.3	20.5
2 21	10 42.10	+ 2 16.8	2.009	2.985	3.6	20.2
3 2	10 33.83	+ 3 40.9	2.001	2.989	1.9	20.1
3 12	10 25.87	+ 5 7.1	2.024	2.992	5.2	20.3
3 22	10 19.02	+ 6 28.5	2.076	2.995	8.9	20.6
4 1	10 13.94	+ 7 39.8	2.153	2.997	12.1	20.8

467114 2016 EQ_{67} 2 27.0 138°.80 0°.1/26.9 18

1 22	11 6.48	+ 7 40.8	2.373	3.159	12.4	21.2
2 1	11 0.33	+ 7 53.8	2.295	3.175	9.5	21.0
2 11	10 52.31	+ 8 15.4	2.243	3.189	6.0	20.8
2 21	10 43.02	+ 8 42.2	2.220	3.203	2.3	20.6
3 2	10 33.26	+ 9 10.1	2.228	3.216	1.6	20.6
3 12	10 23.93	+ 9 35.0	2.266	3.228	5.3	20.9
3 22	10 15.81	+ 9 53.7	2.334	3.240	8.7	21.1
4 1	10 9.49	+10 3.9	2.427	3.251	11.6	21.3

218765 2005 WO_{4} 2 27.0 179°.97 1°.5/28.2 17

1 22	11 6.05	+ 3 57.9	2.165	2.945	13.7	20.1
2 1	11 0.32	+ 3 45.5	2.075	2.946	10.7	19.9
2 11	10 52.50	+ 3 44.2	2.008	2.947	7.1	19.7
2 21	10 43.16	+ 3 52.0	1.968	2.947	3.4	19.4
3 2	10 33.15	+ 4 6.0	1.959	2.947	1.9	19.3
3 12	10 23.47	+ 4 22.1	1.980	2.946	5.5	19.6
3 22	10 15.04	+ 4 36.6	2.029	2.945	9.2	19.8
4 1	10 8.55	+ 4 46.1	2.103	2.944	12.5	20.0

81968 2000 QQ_{49} 2 27.0 234°.21 0°.6/26.4 18

1 22	11 0.26	+ 9 2.2	2.630	3.428	11.0	20.2
2 1	10 55.67	+ 9 23.7	2.533	3.419	8.4	20.0
2 11	10 49.41	+ 9 52.9	2.461	3.410	5.3	19.8
2 21	10 41.95	+10 26.7	2.417	3.401	2.0	19.5
3 2	10 33.94	+11 0.9	2.403	3.391	1.7	19.5
3 12	10 26.14	+11 31.6	2.420	3.381	5.1	19.7
3 22	10 19.26	+11 55.4	2.466	3.370	8.3	19.9
4 1	10 13.88	+12 9.9	2.536	3.360	11.1	20.0

135501 2001 XC_{95} 2 27.0 111°.71 3°.4/24.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 5.25	+13 56.1	1.527	2.356	16.0	20.4
2 1	11 0.45	+14 51.8	1.461	2.365	12.1	20.2
2 11	10 52.88	+15 56.5	1.418	2.373	7.7	20.0
2 21	10 43.35	+17 1.9	1.400	2.381	3.9	19.8
3 2	10 33.06	+17 58.7	1.410	2.389	4.8	19.8
3 12	10 23.41	+18 39.4	1.448	2.397	9.0	20.1
3 22	10 15.59	+19 0.2	1.509	2.405	13.2	20.4
4 1	10 10.41	+19 0.4	1.592	2.412	16.8	20.6

425462 2010 EQ_{92} 2 27.0 293°.66 0°.4/26.6 17

1 22	10 58.35	+ 7 5.4	2.098	2.905	13.1	21.3
2 1	10 54.72	+ 7 40.6	1.997	2.888	10.0	21.1
2 11	10 49.07	+ 8 28.5	1.920	2.871	6.4	20.8
2 21	10 41.90	+ 9 25.2	1.869	2.853	2.4	20.5
3 2	10 33.96	+10 25.0	1.848	2.836	1.9	20.4
3 12	10 26.21	+11 21.5	1.855	2.818	6.1	20.7
3 22	10 19.54	+12 9.3	1.889	2.801	10.0	20.9
4 1	10 14.68	+12 44.4	1.947	2.784	13.5	21.0

196951 2003 UO_{46} 2 27.0 230°.87 1°.1/26.0 17

1 22	11 0.69	+ 9 40.6	2.124	2.934	12.9	20.9
2 1	10 56.34	+10 12.5	2.038	2.932	9.8	20.7
2 11	10 50.00	+10 53.9	1.976	2.929	6.2	20.5
2 21	10 42.22	+11 40.3	1.942	2.926	2.3	20.2
3 2	10 33.80	+12 26.3	1.937	2.923	2.3	20.2
3 12	10 25.70	+13 6.2	1.961	2.920	6.2	20.5
3 22	10 18.78	+13 36.1	2.012	2.917	9.9	20.7
4 1	10 13.71	+13 53.2	2.086	2.914	13.0	20.9

161101 2002 PL_{154} 2 27.0 208°.44 0°.4/27.5 18 R

1 22	10 59.80	+ 4 59.1	2.655	3.439	11.3	21.4
2 1	10 55.30	+ 5 26.3	2.556	3.434	8.7	21.2
2 11	10 49.17	+ 6 4.2	2.483	3.427	5.6	21.0
2 21	10 41.87	+ 6 49.9	2.439	3.421	2.3	20.8
3 2	10 34.03	+ 7 39.3	2.425	3.414	1.3	20.7
3 12	10 26.39	+ 8 27.7	2.441	3.406	4.7	20.9
3 22	10 19.64	+ 9 11.2	2.487	3.398	8.0	21.1
4 1	10 14.35	+ 9 46.3	2.558	3.389	10.8	21.3

229166 2004 TP_{96} 2 27.0 94°.27 0°.2/26.8 18

1 22	11 0.83	+ 6 47.8	1.967	2.772	13.9	20.9
2 1	10 56.52	+ 7 17.7	1.889	2.779	10.6	20.7
2 11	10 50.12	+ 7 59.8	1.836	2.786	6.8	20.5
2 21	10 42.26	+ 8 49.8	1.809	2.792	2.6	20.2
3 2	10 33.79	+ 9 42.0	1.810	2.799	1.8	20.1
3 12	10 25.74	+10 30.1	1.841	2.805	6.0	20.4
3 22	10 18.97	+11 9.4	1.899	2.812	9.9	20.7
4 1	10 14.16	+11 36.4	1.980	2.818	13.2	20.9

496518 2014 UX_{205} 2 27.0 140°.40 6°.4/ 4.9 18

1 22	11 1.04	−13 23.8	2.158	2.860	15.9	21.6
2 1	10 56.59	−13 33.8	2.070	2.870	13.6	21.5
2 11	10 50.14	−13 19.9	2.003	2.879	10.9	21.3
2 21	10 42.27	−12 41.4	1.960	2.888	8.2	21.1
3 2	10 33.78	−11 40.3	1.943	2.896	6.5	21.0
3 12	10 25.62	−10 21.7	1.954	2.904	7.0	21.1
3 22	10 18.65	− 8 53.1	1.994	2.912	9.2	21.2
4 1	10 13.51	− 7 22.4	2.058	2.919	11.9	21.4

68898 2002 JV_{89} 2 27.0 9°.94 0°.2/26.9 18

1 22	11 2.05	+ 7 30.0	1.283	2.115	18.4	19.1
2 1	10 58.49	+ 7 40.3	1.213	2.116	14.1	18.8
2 11	10 51.89	+ 8 6.4	1.162	2.117	9.1	18.6
2 21	10 43.06	+ 8 43.4	1.135	2.120	3.5	18.2
3 2	10 33.27	+ 9 23.7	1.134	2.123	2.4	18.2
3 12	10 24.09	+ 9 59.3	1.158	2.126	8.1	18.5
3 22	10 16.87	+10 23.8	1.205	2.131	13.2	18.8
4 1	10 12.52	+10 33.3	1.273	2.136	17.6	19.1

5290 Langevin 2 27.0 165°.55 2°.8/ 1.0 18

1 22	10 58.69	− 3 17.1	2.133	2.898	14.3	17.3
2 1	10 54.81	− 2 50.9	2.043	2.900	11.5	17.1
2 11	10 49.02	− 2 5.2	1.975	2.901	8.1	16.9
2 21	10 41.85	− 1 2.4	1.933	2.903	4.7	16.6
3 2	10 34.07	+ 0 13.2	1.920	2.904	2.8	16.5
3 12	10 26.57	+ 1 34.8	1.937	2.905	5.3	16.7
3 22	10 20.17	+ 2 55.4	1.981	2.906	8.8	16.9
4 1	10 15.55	+ 4 8.8	2.051	2.907	12.1	17.1

188260 2002 YV_{12} 2 27.0 129°.48 1°.8/25.6 18

1 22	11 5.72	+ 9 36.1	1.630	2.446	15.9	20.5
2 1	11 0.59	+10 31.1	1.563	2.459	12.0	20.2
2 11	10 52.88	+11 38.9	1.518	2.472	7.5	20.0
2 21	10 43.35	+12 52.4	1.500	2.484	2.9	19.8
3 2	10 33.11	+14 2.8	1.511	2.496	3.3	19.8
3 12	10 23.48	+15 2.1	1.550	2.507	7.8	20.1
3 22	10 15.55	+15 44.8	1.614	2.517	12.0	20.4
4 1	10 10.09	+16 8.9	1.701	2.526	15.6	20.6

518985 2010 JO_{10} 2 27.0 274°.20 1°.5/25.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	10 57.21	+ 9 38.0	2.558	3.365	11.0	21.6
2 1	10 53.55	+10 43.4	2.451	3.344	8.3	21.3
2 11	10 48.19	+11 59.8	2.369	3.321	5.2	21.1
2 21	10 41.55	+13 22.3	2.316	3.299	2.1	20.9
3 2	10 34.25	+14 45.1	2.293	3.276	2.6	20.9
3 12	10 27.05	+16 1.8	2.301	3.253	6.0	21.0
3 22	10 20.70	+17 7.4	2.337	3.230	9.2	21.2
4 1	10 15.82	+17 58.4	2.398	3.207	12.2	21.4

459664 2013 KU_{15} 2 27.0 293°.44 1°.0/26.3 17

1 22	11 0.82	+ 7 59.3	1.547	2.370	16.2	21.7
2 1	10 57.33	+ 8 36.3	1.454	2.354	12.5	21.4
2 11	10 51.13	+ 9 29.5	1.383	2.338	8.0	21.1
2 21	10 42.81	+10 33.5	1.337	2.322	3.0	20.8
3 2	10 33.40	+11 40.4	1.318	2.305	2.8	20.7
3 12	10 24.24	+12 41.1	1.326	2.290	7.9	21.0
3 22	10 16.61	+13 28.4	1.358	2.274	12.8	21.2
4 1	10 11.49	+13 57.8	1.412	2.258	17.1	21.4

424713 2008 SJ_{124} 2 27.0 204°.53 2°.5/29.7 17

1 22	10 59.45	− 1 53.1	2.342	3.106	13.2	22.4
2 1	10 55.26	− 1 40.0	2.246	3.103	10.6	22.2
2 11	10 49.26	− 1 10.7	2.172	3.100	7.4	22.0
2 21	10 41.94	− 0 27.1	2.125	3.096	4.2	21.8
3 2	10 34.02	+ 0 27.3	2.107	3.092	2.6	21.6
3 12	10 26.34	+ 1 27.4	2.119	3.087	5.0	21.8
3 22	10 19.65	+ 2 27.4	2.160	3.083	8.3	22.0
4 1	10 14.59	+ 3 22.4	2.226	3.078	11.4	22.2

249575 1995 BM_{10} 2 27.0 32°.59 0°.8/27.5 18

1 22	11 3.99	+ 6 28.5	1.188	2.019	19.6	19.4
2 1	10 59.79	+ 6 17.7	1.138	2.040	15.0	19.2
2 11	10 52.54	+ 6 23.1	1.108	2.062	9.7	18.9
2 21	10 43.22	+ 6 40.4	1.101	2.085	3.9	18.7
3 2	10 33.28	+ 7 3.1	1.120	2.109	2.2	18.6
3 12	10 24.30	+ 7 24.1	1.163	2.134	7.7	19.0
3 22	10 17.52	+ 7 37.8	1.230	2.160	12.6	19.4
4 1	10 13.66	+ 7 40.7	1.318	2.187	16.7	19.7

402469 2006 BK_{186} 2 27.0 327°.23 1°.7/28.1 18

1 22	11 3.06	+ 4 27.1	1.317	2.137	18.7	21.0
2 1	10 59.37	+ 4 13.1	1.234	2.128	14.7	20.7
2 11	10 52.59	+ 4 16.3	1.171	2.120	9.8	20.4
2 21	10 43.40	+ 4 34.2	1.130	2.112	4.5	20.1
3 2	10 33.04	+ 5 1.9	1.115	2.104	2.5	19.9
3 12	10 23.09	+ 5 32.3	1.126	2.098	7.8	20.2
3 22	10 15.01	+ 5 58.2	1.160	2.091	13.1	20.5
4 1	10 9.84	+ 6 14.3	1.216	2.086	17.7	20.7

325099 2008 DG_{82} 2 27.0 47°.48 1°.8/28.8 18

1 22	10 57.39	− 1 41.0	1.619	2.412	17.0	20.4
2 1	10 54.36	− 0 40.1	1.541	2.418	13.3	20.1
2 11	10 48.98	+ 0 46.6	1.484	2.424	9.0	19.9
2 21	10 41.90	+ 2 34.2	1.452	2.430	4.4	19.6
3 2	10 34.08	+ 4 34.2	1.448	2.437	2.1	19.5
3 12	10 26.68	+ 6 35.2	1.472	2.443	6.4	19.8
3 22	10 20.72	+ 8 26.5	1.524	2.450	10.9	20.0
4 1	10 16.97	+10 0.4	1.598	2.457	14.8	20.3

39591 1993 LR_{1} 2 27.0 349°.71 6°.5/ 2.1 18

1 22	11 2.16	− 4 54.6	1.557	2.331	18.4	17.5
2 1	10 58.26	− 6 2.3	1.470	2.324	15.3	17.3
2 11	10 51.67	− 6 51.0	1.403	2.319	11.7	17.1
2 21	10 43.00	− 7 18.0	1.359	2.314	8.2	16.9
3 2	10 33.31	− 7 23.3	1.339	2.310	6.5	16.7
3 12	10 23.94	− 7 10.1	1.346	2.307	8.2	16.8
3 22	10 16.11	− 6 44.5	1.377	2.305	11.7	17.0
4 1	10 10.79	− 6 13.9	1.431	2.304	15.4	17.2

345539 2006 QU_{85} 2 27.0 196°.40 0°.1/26.9 17

1 22	10 59.20	+ 6 43.9	2.738	3.529	10.8	22.4
2 1	10 54.79	+ 7 12.8	2.644	3.526	8.3	22.2
2 11	10 48.82	+ 7 51.0	2.576	3.523	5.3	22.0
2 21	10 41.76	+ 8 35.1	2.537	3.520	2.0	21.8
3 2	10 34.20	+ 9 21.4	2.528	3.517	1.4	21.7
3 12	10 26.87	+10 5.3	2.550	3.513	4.7	22.0
3 22	10 20.41	+10 43.2	2.601	3.509	7.8	22.2
4 1	10 15.35	+11 12.3	2.677	3.504	10.5	22.3

122346 2000 QY_{38} 2 27.0 131°.26 0°.3/27.4 18

1 22	11 2.24	+ 4 50.8	2.457	3.240	12.1	21.4
2 1	10 57.11	+ 5 23.2	2.381	3.257	9.3	21.3
2 11	10 50.29	+ 6 6.7	2.330	3.274	6.0	21.1
2 21	10 42.30	+ 6 57.7	2.307	3.289	2.4	20.9
3 2	10 33.88	+ 7 51.6	2.315	3.304	1.4	20.8
3 12	10 25.82	+ 8 43.4	2.354	3.319	4.9	21.1
3 22	10 18.84	+ 9 28.7	2.422	3.332	8.2	21.3
4 1	10 13.48	+10 4.5	2.516	3.345	11.0	21.5

61113 2000 LP_{33} 2 27.0 212°.78 2°.6/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 1.04	− 5 5.8	1.942	2.700	15.8	19.6
2 1	10 56.93	− 3 59.1	1.839	2.693	12.7	19.3
2 11	10 50.58	− 2 25.3	1.759	2.685	9.0	19.1
2 21	10 42.54	− 0 27.3	1.705	2.677	4.9	18.8
3 2	10 33.65	+ 1 47.7	1.681	2.668	2.6	18.6
3 12	10 24.97	+ 4 9.4	1.689	2.658	5.9	18.8
3 22	10 17.50	+ 6 26.5	1.725	2.647	10.1	19.1
4 1	10 12.04	+ 8 29.8	1.788	2.636	14.0	19.3

27592 2001 AL_{44} 2 27.0 98°.19 1°.9/25.0 18

1 22	11 0.24	+10 17.0	2.015	2.830	13.3	18.6
2 1	10 56.00	+11 24.7	1.947	2.844	9.9	18.4
2 11	10 49.76	+12 42.7	1.904	2.859	6.2	18.2
2 21	10 42.14	+14 4.5	1.889	2.873	2.6	18.0
3 2	10 33.98	+15 22.6	1.904	2.887	3.2	18.0
3 12	10 26.26	+16 30.1	1.948	2.900	6.8	18.3
3 22	10 19.82	+17 22.4	2.018	2.914	10.3	18.5
4 1	10 15.29	+17 57.1	2.112	2.927	13.4	18.7

471173 2010 JR_{84} 2 27.0 267°.93 6°.3/19.9 17

1 22	11 2.66	+27 6.3	2.337	3.161	11.4	21.1
2 1	10 57.90	+28 13.6	2.258	3.148	9.1	21.0
2 11	10 51.04	+29 18.2	2.204	3.136	7.1	20.8
2 21	10 42.66	+30 12.8	2.177	3.123	6.3	20.7
3 2	10 33.61	+30 50.8	2.179	3.110	7.5	20.8
3 12	10 24.89	+31 7.9	2.207	3.097	9.7	20.9
3 22	10 17.40	+31 3.0	2.260	3.084	12.2	21.0
4 1	10 11.85	+30 37.2	2.334	3.071	14.5	21.2

165372 2000 WT_{111} 2 27.0 65°.43 2°.4/28.7 18

1 22	11 5.29	+ 2 3.0	1.440	2.241	18.3	20.0
2 1	11 0.47	+ 1 54.5	1.376	2.258	14.3	19.8
2 11	10 52.89	+ 2 4.6	1.333	2.275	9.7	19.5
2 21	10 43.39	+ 2 30.6	1.314	2.292	4.8	19.3
3 2	10 33.18	+ 3 7.3	1.321	2.309	2.7	19.2
3 12	10 23.68	+ 3 47.4	1.356	2.326	6.9	19.5
3 22	10 16.04	+ 4 24.2	1.416	2.343	11.5	19.8
4 1	10 11.06	+ 4 52.4	1.498	2.361	15.4	20.1

42429 5132 T_{-2} 2 27.0 28°.94 8°.7/ 6.2 18

1 22	10 55.86	−14 12.0	1.251	2.008	22.9	18.6
2 1	10 53.61	−14 31.1	1.199	2.032	19.4	18.4
2 11	10 48.63	−14 11.8	1.164	2.058	15.5	18.2
2 21	10 41.77	−13 13.6	1.147	2.085	11.6	18.1
3 2	10 34.25	−11 41.2	1.153	2.114	9.0	18.0
3 12	10 27.47	− 9 45.6	1.183	2.143	9.2	18.1
3 22	10 22.55	− 7 41.1	1.237	2.174	11.9	18.4
4 1	10 20.21	− 5 40.9	1.313	2.205	15.2	18.6

92321 2000 GN_{31} 2 27.0 263°.23 1°.4/26.0 18

1 22	11 4.19	+ 9 14.5	1.596	2.414	16.0	20.7
2 1	10 59.91	+ 9 50.2	1.500	2.397	12.3	20.4
2 11	10 52.81	+10 40.3	1.426	2.379	7.9	20.1
2 21	10 43.49	+11 39.3	1.377	2.361	3.0	19.8
3 2	10 33.01	+12 39.2	1.356	2.343	3.0	19.7
3 12	10 22.76	+13 31.6	1.363	2.324	8.1	20.0
3 22	10 14.04	+14 9.9	1.395	2.305	13.0	20.2
4 1	10 7.89	+14 30.4	1.448	2.285	17.2	20.4

385928 2006 UK_{4} 2 27.0 50°.98 3°.9/23.2 17

1 22	11 2.64	+20 4.6	2.295	3.116	11.6	20.8
2 1	10 57.66	+20 41.1	2.222	3.120	8.8	20.6
2 11	10 50.75	+21 18.3	2.174	3.123	6.0	20.4
2 21	10 42.50	+21 50.6	2.154	3.126	4.0	20.3
3 2	10 33.76	+22 12.8	2.164	3.130	4.9	20.4
3 12	10 25.44	+22 21.1	2.202	3.133	7.6	20.5
3 22	10 18.36	+22 14.1	2.266	3.137	10.4	20.7
4 1	10 13.11	+21 52.1	2.353	3.140	13.0	20.9

229695 2007 DH_{105} 2 27.0 266°.51 3°.0/24.4 17

1 22	11 2.01	+14 37.5	1.947	2.770	13.3	20.4
2 1	10 57.61	+15 22.0	1.863	2.764	10.1	20.2
2 11	10 50.95	+16 13.5	1.803	2.757	6.5	20.0
2 21	10 42.66	+17 5.6	1.770	2.751	3.3	19.8
3 2	10 33.63	+17 51.5	1.766	2.745	4.1	19.8
3 12	10 24.95	+18 25.4	1.790	2.738	7.7	20.0
3 22	10 17.61	+18 43.4	1.840	2.731	11.4	20.2
4 1	10 12.34	+18 44.5	1.913	2.725	14.6	20.4

116949 2004 GA_{74} 2 27.0 283°.09 1°.2/28.0 17

1 22	11 0.07	+ 2 57.3	1.775	2.575	15.4	20.8
2 1	10 56.42	+ 3 19.4	1.676	2.560	12.1	20.6
2 11	10 50.38	+ 3 59.2	1.599	2.544	8.1	20.3
2 21	10 42.51	+ 4 53.8	1.548	2.528	3.6	20.0
3 2	10 33.70	+ 5 57.5	1.524	2.513	1.9	19.8
3 12	10 25.09	+ 7 2.8	1.528	2.497	6.4	20.1
3 22	10 17.76	+ 8 2.5	1.559	2.482	11.0	20.3
4 1	10 12.61	+ 8 50.7	1.612	2.466	15.0	20.5

371176 2005 YR_{80} 2 27.0 66°.65 2°.3/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 1.61	+ 0 57.8	1.836	2.623	15.5	21.0
2 1	10 57.24	+ 0 58.4	1.760	2.633	12.2	20.8
2 11	10 50.66	+ 1 15.5	1.706	2.643	8.3	20.5
2 21	10 42.52	+ 1 46.7	1.677	2.653	4.3	20.3
3 2	10 33.75	+ 2 27.7	1.677	2.664	2.4	20.2
3 12	10 25.43	+ 3 12.6	1.705	2.674	5.8	20.5
3 22	10 18.50	+ 3 55.5	1.759	2.685	9.8	20.7
4 1	10 13.65	+ 4 31.3	1.838	2.695	13.2	20.9

16372 1981 EP_{1} 2 27.0 356°.86 2°.7/25.0 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.16	+15 40.4	1.804	2.631	14.1	17.3
2 1	10 58.55	+15 50.8	1.725	2.627	10.7	17.1
2 11	10 51.57	+16 5.3	1.671	2.625	6.8	16.8
2 21	10 42.89	+16 18.4	1.642	2.623	3.3	16.6
3 2	10 33.52	+16 24.9	1.641	2.623	3.9	16.6
3 12	10 24.64	+16 20.4	1.668	2.622	7.6	16.9
3 22	10 17.26	+16 3.0	1.721	2.623	11.5	17.1
4 1	10 12.13	+15 32.3	1.797	2.624	14.8	17.3

41704 2000 UX_{51} 2 27.1 133°.52 3°.2/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.80	− 2 24.9	1.832	2.601	16.2	19.6
2 1	10 58.94	− 2 19.9	1.753	2.612	12.9	19.4
2 11	10 51.78	− 1 55.0	1.695	2.623	9.1	19.2
2 21	10 42.97	− 1 12.1	1.663	2.633	5.2	18.9
3 2	10 33.49	− 0 15.7	1.659	2.642	3.3	18.8
3 12	10 24.44	+ 0 47.6	1.683	2.651	6.1	19.0
3 22	10 16.82	+ 1 50.6	1.735	2.660	9.9	19.3
4 1	10 11.36	+ 2 47.0	1.811	2.668	13.4	19.5

430399 2014 YC_{22} 2 27.1 91°.73 1°.0/27.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.42	+ 4 8.4	2.006	2.800	14.1	21.1
2 1	10 56.95	+ 4 20.2	1.926	2.807	10.9	20.9
2 11	10 50.42	+ 4 45.3	1.869	2.813	7.2	20.7
2 21	10 42.43	+ 5 20.6	1.838	2.819	3.1	20.5
3 2	10 33.84	+ 6 1.4	1.837	2.826	1.6	20.4
3 12	10 25.64	+ 6 42.2	1.864	2.832	5.6	20.7
3 22	10 18.70	+ 7 18.2	1.918	2.838	9.4	20.9
4 1	10 13.69	+ 7 45.3	1.997	2.844	12.8	21.1

502628 2015 CB_{30} 2 27.1 117°.37 0°.6/26.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 0.09	+ 7 41.1	2.158	2.962	12.9	21.8
2 1	10 55.81	+ 8 19.0	2.079	2.969	9.8	21.6
2 11	10 49.63	+ 9 7.9	2.025	2.975	6.2	21.4
2 21	10 42.12	+10 3.2	1.998	2.982	2.3	21.1
3 2	10 34.06	+10 59.4	2.000	2.988	1.9	21.1
3 12	10 26.36	+11 50.7	2.032	2.994	5.8	21.4
3 22	10 19.81	+12 32.4	2.092	3.000	9.4	21.6
4 1	10 15.05	+13 1.7	2.175	3.006	12.5	21.8

224458 2005 VT_{34} 2 27.1 216°.40 1°.5/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 0.28	+ 1 19.5	2.038	2.822	14.2	20.6
2 1	10 56.18	+ 1 44.4	1.945	2.818	11.2	20.4
2 11	10 50.01	+ 2 26.0	1.875	2.814	7.5	20.2
2 21	10 42.31	+ 3 21.3	1.831	2.809	3.6	19.9
3 2	10 33.91	+ 4 25.5	1.816	2.804	1.9	19.8
3 12	10 25.77	+ 5 32.0	1.831	2.799	5.6	20.0
3 22	10 18.80	+ 6 34.3	1.873	2.794	9.5	20.2
4 1	10 13.72	+ 7 27.1	1.939	2.788	13.0	20.4

365438 2010 LA_{124} 2 27.1 115°.35 4°.5/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.72	− 4 26.3	1.765	2.530	16.9	20.9
2 1	10 58.26	− 4 40.9	1.683	2.536	13.7	20.7
2 11	10 51.43	− 4 34.4	1.622	2.543	10.1	20.5
2 21	10 42.87	− 4 7.4	1.586	2.549	6.4	20.3
3 2	10 33.57	− 3 23.1	1.576	2.555	4.5	20.2
3 12	10 24.66	− 2 27.6	1.594	2.561	6.6	20.4
3 22	10 17.19	− 1 28.2	1.639	2.566	10.2	20.6
4 1	10 11.94	− 0 31.8	1.707	2.572	13.8	20.8

505700 2014 YD_{41} 2 27.1 15°.68 4°.2/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.38	− 0 19.6	1.630	2.415	17.2	20.2
2 1	10 59.69	− 1 10.4	1.550	2.419	13.8	20.0
2 11	10 52.42	− 1 45.3	1.492	2.423	9.9	19.7
2 21	10 43.28	− 2 3.9	1.459	2.428	6.0	19.5
3 2	10 33.31	− 2 7.8	1.452	2.433	4.2	19.4
3 12	10 23.80	− 2 0.9	1.472	2.439	6.9	19.6
3 22	10 15.88	− 1 48.2	1.518	2.446	10.8	19.8
4 1	10 10.38	− 1 35.3	1.587	2.453	14.5	20.1

54586 2000 QV_{188} 2 27.1 75°.46 2°.1/24.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 57.11	+10 47.0	2.290	3.106	11.8	19.3
2 1	10 53.49	+12 5.5	2.216	3.114	8.8	19.1
2 11	10 48.13	+13 33.5	2.168	3.123	5.5	18.9
2 21	10 41.54	+15 5.0	2.149	3.132	2.5	18.7
3 2	10 34.45	+16 32.8	2.160	3.140	3.2	18.8
3 12	10 27.68	+17 50.3	2.201	3.149	6.5	19.0
3 22	10 21.96	+18 52.9	2.268	3.157	9.6	19.2
4 1	10 17.86	+19 38.1	2.360	3.166	12.4	19.4

153839 2001 XS_{20} 2 27.1 348°.50 5°.3/29.8 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 3.28	− 0 37.1	1.402	2.199	18.9	18.5
2 1	10 59.41	− 1 48.2	1.316	2.190	15.4	18.2
2 11	10 52.57	− 2 43.2	1.251	2.182	11.3	18.0
2 21	10 43.44	− 3 20.2	1.208	2.176	7.2	17.7
3 2	10 33.16	− 3 39.2	1.190	2.170	5.4	17.6
3 12	10 23.23	− 3 43.2	1.198	2.165	8.1	17.7
3 22	10 15.04	− 3 37.8	1.230	2.162	12.4	18.0
4 1	10 9.63	− 3 29.2	1.284	2.160	16.6	18.2

374044 2004 MU_{7} 2 27.1 185°.62 1°.8/24.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 0.29	+ 7 8.6	2.202	3.004	12.8	20.5
2 1	10 56.08	+ 9 4.2	2.113	3.004	9.6	20.2
2 11	10 49.90	+11 16.1	2.051	3.003	6.0	20.0
2 21	10 42.28	+13 36.8	2.019	3.002	2.4	19.8
3 2	10 33.96	+15 56.6	2.020	3.001	3.2	19.8
3 12	10 25.86	+18 5.5	2.052	2.999	6.9	20.1
3 22	10 18.85	+19 56.3	2.113	2.997	10.5	20.3
4 1	10 13.61	+21 24.8	2.200	2.994	13.6	20.5

148209 2000 CR_{105} 2 27.1 6°.26 0°.2/22.9 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 39.07	+19 34.9	61.741	62.558	0.5	24.3
2 1	10 38.62	+19 38.8	61.675	62.572	0.4	24.3
2 11	10 38.13	+19 42.8	61.637	62.587	0.2	24.3
2 21	10 37.60	+19 46.6	61.629	62.601	0.2	24.3
3 2	10 37.06	+19 50.2	61.650	62.616	0.2	24.3
3 12	10 36.53	+19 53.3	61.701	62.630	0.3	24.3
3 22	10 36.02	+19 56.0	61.781	62.645	0.5	24.3
4 1	10 35.56	+19 58.2	61.886	62.659	0.6	24.4

498236 2007 UM_{54} 2 27.1 195°.15 2°.7/29.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 58.63	− 2 10.8	2.407	3.170	12.9	21.7
2 1	10 54.60	− 2 3.3	2.313	3.169	10.4	21.5
2 11	10 48.83	− 1 40.3	2.242	3.168	7.4	21.3
2 21	10 41.83	− 1 3.4	2.198	3.167	4.3	21.1
3 2	10 34.27	− 0 15.9	2.183	3.166	2.7	21.0
3 12	10 26.96	+ 0 37.6	2.197	3.165	4.9	21.1
3 22	10 20.60	+ 1 31.9	2.239	3.163	8.0	21.3
4 1	10 15.82	+ 2 22.0	2.307	3.162	11.0	21.5

37622 1993 QO_{8} 2 27.1 62°.74 2°.1/25.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.32	+10 53.0	1.314	2.145	18.1	19.0
2 1	11 1.38	+11 33.1	1.265	2.169	13.6	18.8
2 11	10 53.49	+12 25.0	1.236	2.193	8.5	18.5
2 21	10 43.63	+13 20.7	1.233	2.217	3.4	18.3
3 2	10 33.19	+14 11.1	1.256	2.241	3.7	18.4
3 12	10 23.68	+14 48.4	1.305	2.265	8.5	18.7
3 22	10 16.30	+15 8.4	1.378	2.289	13.1	19.1
4 1	10 11.77	+15 10.2	1.473	2.313	16.8	19.4

437587 2014 AC_{47} 2 27.1 245°.52 3°.4/23.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 58.71	+16 39.7	2.340	3.164	11.4	21.0
2 1	10 54.76	+17 45.5	2.260	3.161	8.6	20.9
2 11	10 48.98	+18 56.2	2.206	3.159	5.6	20.7
2 21	10 41.90	+20 5.7	2.180	3.156	3.5	20.5
3 2	10 34.24	+21 7.6	2.184	3.153	4.5	20.6
3 12	10 26.88	+21 56.4	2.217	3.151	7.4	20.8
3 22	10 20.59	+22 28.9	2.276	3.148	10.3	20.9
4 1	10 15.98	+22 43.9	2.357	3.145	13.0	21.1

128129 2003 QR_{40} 2 27.1 283°.13 0°.7/27.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.02	+ 6 6.6	1.957	2.756	14.2	19.7
2 1	10 58.40	+ 6 5.5	1.860	2.745	11.0	19.4
2 11	10 51.52	+ 6 15.8	1.787	2.733	7.2	19.2
2 21	10 42.94	+ 6 34.6	1.740	2.722	3.0	18.9
3 2	10 33.54	+ 6 58.1	1.721	2.710	1.7	18.8
3 12	10 24.40	+ 7 21.2	1.731	2.699	6.0	19.0
3 22	10 16.51	+ 7 39.5	1.769	2.687	10.2	19.2
4 1	10 10.67	+ 7 49.6	1.830	2.676	13.8	19.4

162596 2000 SG_{64} 2 27.1 197°.29 0°.6/26.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.12	+ 7 48.3	1.991	2.791	14.0	21.6
2 1	10 59.91	+ 8 20.1	1.901	2.788	10.7	21.4
2 11	10 52.43	+ 9 3.8	1.835	2.784	6.8	21.2
2 21	10 43.27	+ 9 55.0	1.796	2.780	2.6	20.9
3 2	10 33.34	+10 47.6	1.787	2.775	2.1	20.8
3 12	10 23.73	+11 35.3	1.807	2.769	6.4	21.1
3 22	10 15.43	+12 13.1	1.855	2.762	10.5	21.3
4 1	10 9.22	+12 37.9	1.927	2.755	14.0	21.5

124223 2001 PD_{13} 2 27.1 224°.62 5°.0/22.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 7.11	+18 40.9	1.837	2.661	14.0	20.0
2 1	11 1.81	+19 51.6	1.751	2.649	10.7	19.8
2 11	10 53.86	+21 7.7	1.688	2.638	7.3	19.6
2 21	10 43.88	+22 20.7	1.653	2.625	5.0	19.4
3 2	10 32.94	+23 21.4	1.647	2.611	6.3	19.5
3 12	10 22.32	+24 2.5	1.668	2.597	9.7	19.6
3 22	10 13.22	+24 20.7	1.715	2.581	13.4	19.8
4 1	10 6.55	+24 16.0	1.783	2.565	16.7	20.0

343120 2009 EN_{13} 2 27.1 63°.12 0°.5/27.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 0.76	+ 5 20.3	2.071	2.869	13.6	21.4
2 1	10 56.29	+ 5 37.8	2.003	2.886	10.4	21.2
2 11	10 49.91	+ 6 7.1	1.958	2.904	6.7	21.0
2 21	10 42.23	+ 6 44.6	1.940	2.922	2.7	20.8
3 2	10 34.08	+ 7 25.7	1.951	2.940	1.5	20.7
3 12	10 26.39	+ 8 4.9	1.991	2.958	5.4	21.0
3 22	10 19.95	+ 8 38.0	2.059	2.976	9.0	21.2
4 1	10 15.35	+ 9 1.7	2.151	2.994	12.1	21.5

253262 2003 AA_{60} 2 27.1 22°.60 5°.5/23.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 59.15	+16 48.9	1.100	1.963	18.5	19.0
2 1	10 56.50	+17 55.7	1.057	1.978	13.9	18.8
2 11	10 50.65	+19 9.0	1.034	1.994	9.1	18.6
2 21	10 42.61	+20 17.2	1.033	2.012	5.7	18.4
3 2	10 33.87	+21 8.6	1.057	2.031	7.1	18.6
3 12	10 26.11	+21 35.3	1.104	2.052	11.3	18.9
3 22	10 20.58	+21 35.3	1.172	2.074	15.6	19.2
4 1	10 18.02	+21 10.4	1.258	2.098	19.2	19.5

435954 2009 DX_{24} 2 27.1 305°.24 1°.1/25.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 57.83	+ 8 58.7	2.121	2.935	12.7	21.1
2 1	10 54.32	+ 9 39.5	2.025	2.920	9.7	20.9
2 11	10 48.85	+10 31.7	1.952	2.906	6.1	20.6
2 21	10 41.90	+11 30.6	1.907	2.891	2.3	20.4
3 2	10 34.24	+12 30.3	1.891	2.877	2.4	20.3
3 12	10 26.80	+13 24.5	1.903	2.863	6.3	20.6
3 22	10 20.43	+14 8.1	1.942	2.850	10.1	20.8
4 1	10 15.84	+14 38.0	2.005	2.836	13.4	20.9

291456 2006 DE_{51} 2 27.1 313°.99 0°.3/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 59.44	+ 3 40.6	1.430	2.248	17.6	20.1
2 1	10 56.36	+ 4 27.5	1.348	2.243	13.6	19.8
2 11	10 50.55	+ 5 36.8	1.287	2.238	8.9	19.5
2 21	10 42.65	+ 7 3.3	1.250	2.234	3.5	19.2
3 2	10 33.75	+ 8 37.7	1.240	2.229	2.1	19.1
3 12	10 25.25	+10 9.0	1.256	2.225	7.6	19.4
3 22	10 18.38	+11 27.6	1.298	2.221	12.7	19.6
4 1	10 14.10	+12 27.0	1.360	2.217	17.0	19.9

163583 2002 TS_{185} 2 27.1 182°.59 4°.0/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 58.59	− 6 51.4	2.428	3.165	13.5	20.0
2 1	10 54.57	− 6 49.0	2.332	3.166	11.1	19.8
2 11	10 48.83	− 6 28.6	2.258	3.166	8.3	19.6
2 21	10 41.85	− 5 50.7	2.211	3.165	5.6	19.5
3 2	10 34.30	− 4 58.1	2.191	3.165	4.0	19.4
3 12	10 26.99	− 3 55.4	2.201	3.164	5.3	19.5
3 22	10 20.64	− 2 48.3	2.240	3.164	8.0	19.6
4 1	10 15.85	− 1 42.7	2.304	3.162	10.9	19.8

203482 2002 AP_{51} 2 27.1 73°.81 1°.1/26.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.37	+ 7 36.1	1.413	2.236	17.4	20.3
2 1	10 59.11	+ 8 24.3	1.353	2.252	13.2	20.1
2 11	10 52.10	+ 9 28.6	1.314	2.268	8.3	19.8
2 21	10 43.15	+10 41.8	1.300	2.284	3.1	19.6
3 2	10 33.50	+11 54.4	1.313	2.300	2.8	19.6
3 12	10 24.56	+12 57.3	1.353	2.316	7.9	19.9
3 22	10 17.47	+13 44.1	1.417	2.332	12.5	20.2
4 1	10 13.03	+14 11.9	1.504	2.348	16.4	20.5

162429 2000 EM_{165} 2 27.1 117°.62 2°.5/24.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.81	+15 26.5	2.156	2.970	12.5	20.3
2 1	10 59.42	+15 45.0	2.077	2.972	9.5	20.1
2 11	10 51.96	+16 7.2	2.022	2.974	6.1	19.9
2 21	10 43.04	+16 28.3	1.995	2.976	3.0	19.7
3 2	10 33.56	+16 43.5	1.998	2.978	3.5	19.7
3 12	10 24.50	+16 48.8	2.030	2.980	6.8	19.9
3 22	10 16.75	+16 42.1	2.089	2.981	10.2	20.1
4 1	10 10.96	+16 23.1	2.172	2.983	13.2	20.3

503031 2015 FV_{141} 2 27.1 308°.44 0°.7/26.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 59.09	+ 8 37.4	2.100	2.911	13.0	21.5
2 1	10 55.26	+ 9 5.3	2.008	2.901	9.9	21.3
2 11	10 49.42	+ 9 43.7	1.939	2.891	6.3	21.0
2 21	10 42.12	+10 28.6	1.898	2.882	2.4	20.8
3 2	10 34.13	+11 14.6	1.885	2.872	2.1	20.7
3 12	10 26.40	+11 56.1	1.901	2.863	6.1	21.0
3 22	10 19.80	+12 28.5	1.944	2.854	9.9	21.2
4 1	10 15.01	+12 48.8	2.010	2.846	13.2	21.4

146569 2001 TM_{59} 2 27.1 333°.33 1°.7/25.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.47	+10 36.4	1.626	2.451	15.4	20.0
2 1	10 57.58	+11 9.3	1.545	2.447	11.7	19.7
2 11	10 51.15	+11 53.6	1.487	2.442	7.4	19.4
2 21	10 42.83	+12 43.7	1.454	2.438	2.9	19.1
3 2	10 33.67	+13 32.0	1.449	2.435	3.2	19.2
3 12	10 24.92	+14 11.3	1.471	2.431	7.7	19.4
3 22	10 17.72	+14 36.7	1.518	2.428	12.1	19.7
4 1	10 12.91	+14 45.5	1.586	2.425	15.9	19.9

507522 2012 VS_{78} 2 27.1 206°.83 5°.8/19.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 1.38	+26 30.4	2.581	3.402	10.5	21.4
2 1	10 56.71	+27 44.8	2.509	3.399	8.3	21.2
2 11	10 50.20	+28 56.9	2.463	3.395	6.4	21.1
2 21	10 42.37	+30 0.0	2.446	3.391	5.8	21.1
3 2	10 33.99	+30 48.1	2.457	3.387	6.8	21.1
3 12	10 25.92	+31 17.2	2.496	3.382	8.9	21.2
3 22	10 18.95	+31 25.9	2.560	3.378	11.1	21.4
4 1	10 13.69	+31 15.2	2.645	3.372	13.2	21.5

480129 2015 FR_{143} 2 27.1 263°.72 3°.5/ 2.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 57.44	− 7 33.2	2.865	3.590	11.9	22.9
2 1	10 53.59	− 7 8.9	2.739	3.566	9.8	22.7
2 11	10 48.19	− 6 26.7	2.636	3.540	7.4	22.5
2 21	10 41.63	− 5 27.5	2.560	3.515	4.9	22.3
3 2	10 34.45	− 4 13.7	2.514	3.488	3.5	22.1
3 12	10 27.33	− 2 49.8	2.498	3.462	4.7	22.2
3 22	10 20.92	− 1 21.5	2.512	3.435	7.4	22.3
4 1	10 15.81	+ 0 5.4	2.554	3.407	10.1	22.5

177370 2004 BT_{31} 2 27.1 140°.65 3°.2/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.37	− 1 17.8	2.082	2.842	14.8	21.1
2 1	11 0.62	− 1 33.5	1.999	2.854	11.8	20.9
2 11	10 52.75	− 1 33.7	1.940	2.865	8.3	20.7
2 21	10 43.37	− 1 19.6	1.906	2.875	4.9	20.5
3 2	10 33.36	− 0 53.8	1.902	2.885	3.2	20.4
3 12	10 23.76	− 0 21.1	1.928	2.894	5.7	20.6
3 22	10 15.47	+ 0 13.6	1.982	2.902	9.1	20.8
4 1	10 9.18	+ 0 45.4	2.062	2.910	12.4	21.0

64537 2001 VZ_{117} 2 27.1 297°.39 4°.6/23.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.07	+15 43.1	1.407	2.249	16.5	19.1
2 1	10 59.34	+16 44.5	1.328	2.238	12.6	18.8
2 11	10 52.57	+17 55.8	1.270	2.227	8.3	18.5
2 21	10 43.47	+19 7.5	1.237	2.216	4.8	18.3
3 2	10 33.25	+20 9.0	1.230	2.206	6.1	18.3
3 12	10 23.47	+20 50.9	1.249	2.195	10.5	18.6
3 22	10 15.53	+21 8.5	1.291	2.185	15.0	18.8
4 1	10 10.44	+21 1.3	1.352	2.176	19.0	19.0

69771 1998 QT_{32} 2 27.1 137°.63 0°.5/27.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 0.57	+ 4 47.8	2.219	3.011	13.0	19.3
2 1	10 56.15	+ 5 11.9	2.136	3.017	10.0	19.1
2 11	10 49.86	+ 5 48.4	2.077	3.022	6.5	18.9
2 21	10 42.25	+ 6 33.7	2.045	3.027	2.7	18.6
3 2	10 34.09	+ 7 23.1	2.043	3.032	1.5	18.6
3 12	10 26.26	+ 8 11.2	2.070	3.036	5.3	18.8
3 22	10 19.55	+ 8 53.3	2.125	3.041	8.9	19.1
4 1	10 14.58	+ 9 25.8	2.206	3.045	12.0	19.3

140531 2001 TC_{180} 2 27.1 206°.02 4°.0/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 58.31	− 7 29.7	2.656	3.385	12.7	20.8
2 1	10 54.24	− 7 31.4	2.555	3.381	10.5	20.6
2 11	10 48.58	− 7 16.4	2.476	3.378	8.0	20.5
2 21	10 41.76	− 6 45.1	2.424	3.374	5.5	20.3
3 2	10 34.40	− 5 59.6	2.400	3.370	4.1	20.2
3 12	10 27.23	− 5 3.8	2.405	3.366	5.1	20.3
3 22	10 20.92	− 4 2.9	2.439	3.361	7.6	20.4
4 1	10 16.04	− 3 1.9	2.500	3.356	10.2	20.6

450414 2005 TU_{121} 2 27.1 303°.53 3°.2/25.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.84	+13 22.8	1.288	2.127	17.8	20.9
2 1	11 0.93	+13 56.7	1.208	2.116	13.7	20.6
2 11	10 53.73	+14 41.9	1.148	2.106	8.8	20.3
2 21	10 43.96	+15 30.4	1.113	2.096	4.0	20.0
3 2	10 32.95	+16 12.5	1.103	2.085	4.8	20.0
3 12	10 22.42	+16 39.6	1.118	2.076	9.9	20.3
3 22	10 13.91	+16 46.6	1.156	2.066	15.1	20.5
4 1	10 8.51	+16 32.3	1.213	2.057	19.5	20.8

370477 2003 GO_{45} 2 27.1 19°.19 2°.4/25.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 59.70	+11 12.0	1.423	2.261	16.5	20.3
2 1	10 56.43	+11 57.8	1.358	2.266	12.5	20.1
2 11	10 50.46	+12 55.9	1.314	2.272	7.8	19.8
2 21	10 42.57	+13 58.8	1.295	2.279	3.3	19.6
3 2	10 33.91	+14 57.5	1.302	2.286	3.9	19.6
3 12	10 25.85	+15 43.8	1.335	2.294	8.5	19.9
3 22	10 19.53	+16 12.3	1.392	2.303	12.9	20.2
4 1	10 15.76	+16 21.2	1.470	2.313	16.7	20.4

495938 2006 QW_{82} 2 27.1 238°.39 1°.4/25.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.70	+ 8 1.9	2.035	2.840	13.5	22.3
2 1	10 57.43	+ 9 8.6	1.934	2.825	10.3	22.0
2 11	10 50.95	+10 30.2	1.857	2.809	6.5	21.8
2 21	10 42.78	+12 1.0	1.809	2.793	2.5	21.5
3 2	10 33.72	+13 33.3	1.790	2.775	2.8	21.5
3 12	10 24.83	+14 58.7	1.801	2.757	7.0	21.7
3 22	10 17.08	+16 10.6	1.840	2.738	11.0	21.9
4 1	10 11.30	+17 4.6	1.902	2.719	14.5	22.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
286407 2001 YS_{95}			2 27.1 139°.84		2°.6/29.1 18	
	h m	° ′			°	m
1 22	11 5.49	+ 0 25.6	1.719	2.501	16.5	20.9
2 1	11 0.41	+ 0 23.5	1.639	2.510	13.1	20.6
2 11	10 52.84	+ 0 39.3	1.582	2.517	9.0	20.4
2 21	10 43.47	+ 1 10.9	1.549	2.524	4.7	20.2
3 2	10 33.33	+ 1 54.0	1.545	2.531	2.8	20.1
3 12	10 23.66	+ 2 42.0	1.569	2.538	6.3	20.3
3 22	10 15.53	+ 3 28.3	1.619	2.543	10.5	20.5
4 1	10 9.74	+ 4 7.4	1.694	2.549	14.3	20.8
126456 2002 CK_{28}			2 27.1 64°.62		0°.4/26.8 18	
1 22	11 6.88	+ 8 44.0	1.680	2.489	15.7	19.2
2 1	11 1.20	+ 8 52.5	1.624	2.516	11.9	19.0
2 11	10 53.13	+ 9 11.4	1.591	2.542	7.5	18.8
2 21	10 43.48	+ 9 36.1	1.585	2.569	2.8	18.5
3 2	10 33.38	+10 1.1	1.607	2.595	2.1	18.5
3 12	10 24.04	+10 21.0	1.657	2.622	6.6	18.9
3 22	10 16.41	+10 32.2	1.734	2.648	10.6	19.2
4 1	10 11.17	+10 32.8	1.834	2.674	14.0	19.5
49427 1998 XE_{86}			2 27.1 138°.09		6°.0/ 4.4 18	
1 22	11 2.09	−11 57.0	2.183	2.891	15.6	19.2
2 1	10 57.38	−12 10.3	2.097	2.903	13.2	19.0
2 11	10 50.70	−12 1.1	2.032	2.914	10.4	18.8
2 21	10 42.60	−11 28.9	1.991	2.924	7.7	18.7
3 2	10 33.89	−10 35.7	1.977	2.934	6.1	18.6
3 12	10 25.53	− 9 26.4	1.991	2.943	6.7	18.6
3 22	10 18.34	− 8 8.0	2.034	2.952	9.1	18.8
4 1	10 12.98	− 6 47.9	2.102	2.960	11.8	19.0
415935 2001 VF_{112}			2 27.1 124°.97		0°.1/26.9 18	
1 22	11 3.90	+ 6 35.5	2.389	3.177	12.3	22.4
2 1	10 58.41	+ 7 6.1	2.317	3.197	9.3	22.3
2 11	10 51.16	+ 7 46.8	2.270	3.216	5.9	22.1
2 21	10 42.72	+ 8 33.5	2.252	3.235	2.3	21.9
3 2	10 33.85	+ 9 21.5	2.264	3.253	1.5	21.8
3 12	10 25.39	+10 6.0	2.308	3.270	5.2	22.1
3 22	10 18.08	+10 43.0	2.380	3.287	8.5	22.3
4 1	10 12.48	+11 9.9	2.477	3.302	11.3	22.6
326027 2010 XV_{13}			2 27.1 117°.74		3°.3/ 1.6 18	
1 22	11 3.75	− 4 33.4	2.360	3.102	13.7	21.3
2 1	10 58.32	− 4 24.5	2.286	3.126	11.0	21.2
2 11	10 51.11	− 3 58.6	2.234	3.149	8.0	21.0
2 21	10 42.70	− 3 17.3	2.209	3.172	4.9	20.8
3 2	10 33.86	− 2 24.2	2.214	3.194	3.3	20.8
3 12	10 25.43	− 1 24.5	2.250	3.215	5.1	20.9
3 22	10 18.15	− 0 23.7	2.314	3.235	8.0	21.1
4 1	10 12.58	+ 0 33.1	2.405	3.254	10.8	21.3
284321 2006 QF_{161}			2 27.1 137°.25		0°.3/27.4 17	
1 22	11 1.09	+ 6 25.0	2.461	3.252	11.9	21.1
2 1	10 56.36	+ 6 35.1	2.376	3.257	9.1	21.0
2 11	10 49.91	+ 6 54.4	2.315	3.261	5.9	20.8
2 21	10 42.27	+ 7 20.2	2.282	3.265	2.4	20.5
3 2	10 34.12	+ 7 48.7	2.280	3.268	1.4	20.4
3 12	10 26.28	+ 8 15.8	2.307	3.272	4.9	20.7
3 22	10 19.47	+ 8 38.1	2.363	3.276	8.2	20.9
4 1	10 14.25	+ 8 53.0	2.443	3.279	11.1	21.1
280022 2001 WP_{61}			2 27.1 229°.80		3°.5/ 1.9 17	
1 22	10 58.44	− 4 58.5	2.537	3.282	12.8	20.8
2 1	10 54.41	− 5 0.5	2.437	3.278	10.4	20.6
2 11	10 48.73	− 4 46.6	2.360	3.273	7.7	20.4
2 21	10 41.84	− 4 17.6	2.309	3.268	5.0	20.2
3 2	10 34.38	− 3 35.7	2.286	3.263	3.5	20.1
3 12	10 27.12	− 2 45.2	2.294	3.258	5.0	20.2
3 22	10 20.76	− 1 51.0	2.329	3.253	7.8	20.4
4 1	10 15.88	− 0 58.1	2.391	3.247	10.6	20.5
367796 2011 AK_{22}			2 27.1 129°.28		5°.0/21.7 17	
1 22	11 3.27	+20 32.5	2.135	2.959	12.3	21.2
2 1	10 58.32	+21 55.9	2.074	2.972	9.3	21.1
2 11	10 51.29	+23 21.0	2.039	2.985	6.5	20.9
2 21	10 42.81	+24 39.6	2.032	2.997	5.0	20.8
3 2	10 33.79	+25 44.4	2.054	3.009	6.2	20.9
3 12	10 25.23	+26 30.0	2.105	3.020	8.8	21.1
3 22	10 18.02	+26 54.4	2.181	3.030	11.6	21.3
4 1	10 12.79	+26 57.9	2.278	3.040	14.1	21.5
120021 2003 AW_{40}			2 27.1 65°.99		0°.8/27.7 18	
1 22	11 2.27	+ 2 58.9	1.301	2.119	19.0	19.7
2 1	10 58.50	+ 3 37.8	1.240	2.133	14.7	19.4
2 11	10 51.84	+ 4 39.3	1.198	2.148	9.6	19.2
2 21	10 43.12	+ 5 57.3	1.180	2.163	4.0	18.9
3 2	10 33.61	+ 7 22.4	1.188	2.178	2.1	18.8
3 12	10 24.81	+ 8 43.6	1.223	2.193	7.6	19.2
3 22	10 17.95	+ 9 51.9	1.282	2.208	12.6	19.5
4 1	10 13.84	+10 41.8	1.362	2.223	16.8	19.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
294346 2007 VB_{91}			2 27.1 103°.31		4°.2/22.2 17	
	h m	° ′			°	m
1 22	11 0.27	+19 38.0	2.378	3.202	11.2	20.7
2 1	10 55.85	+20 47.6	2.314	3.214	8.5	20.5
2 11	10 49.62	+21 58.9	2.277	3.225	5.8	20.4
2 21	10 42.17	+23 5.6	2.268	3.236	4.2	20.3
3 2	10 34.24	+24 1.4	2.288	3.247	5.2	20.4
3 12	10 26.71	+24 41.7	2.337	3.258	7.7	20.6
3 22	10 20.31	+25 4.4	2.411	3.269	10.4	20.7
4 1	10 15.62	+25 9.3	2.509	3.280	12.7	20.9
466333 2013 RR_{25}			2 27.1 127°.77		1°.2/25.9 18	
1 22	11 4.25	+11 0.2	2.233	3.036	12.5	21.4
2 1	10 58.88	+11 20.9	2.157	3.047	9.5	21.2
2 11	10 51.57	+11 48.7	2.106	3.057	6.0	21.0
2 21	10 42.93	+12 19.3	2.083	3.066	2.3	20.8
3 2	10 33.78	+12 48.0	2.090	3.076	2.3	20.8
3 12	10 25.05	+13 10.4	2.127	3.085	5.9	21.1
3 22	10 17.56	+13 23.6	2.192	3.093	9.3	21.3
4 1	10 11.91	+13 25.8	2.281	3.102	12.3	21.5
154296 2002 TG_{287}			2 27.1 152°.88		0°.7/27.6 18	
1 22	11 8.00	+ 4 55.0	1.780	2.572	15.7	21.3
2 1	11 2.23	+ 5 10.3	1.702	2.582	12.1	21.0
2 11	10 53.97	+ 5 40.0	1.646	2.590	7.9	20.8
2 21	10 43.92	+ 6 20.1	1.617	2.598	3.3	20.5
3 2	10 33.14	+ 7 5.2	1.617	2.606	1.8	20.4
3 12	10 22.85	+ 7 48.7	1.646	2.612	6.4	20.8
3 22	10 14.13	+ 8 25.2	1.702	2.617	10.7	21.0
4 1	10 7.77	+ 8 50.7	1.782	2.622	14.4	21.3
42368 2002 CC_{135}			2 27.1 307°.99		5°.2/20.6 18	
1 22	10 58.31	+21 50.1	2.294	3.125	11.3	18.5
2 1	10 54.60	+23 20.2	2.221	3.122	8.7	18.3
2 11	10 48.99	+24 52.1	2.174	3.118	6.3	18.1
2 21	10 41.99	+26 18.4	2.155	3.115	5.2	18.1
3 2	10 34.37	+27 31.4	2.165	3.112	6.5	18.1
3 12	10 27.06	+28 25.6	2.203	3.109	8.9	18.3
3 22	10 20.85	+28 58.4	2.265	3.105	11.6	18.4
4 1	10 16.41	+29 9.7	2.349	3.102	14.0	18.6
403309 2009 CE_{27}			2 27.1 207°.48		1°.1/26.2 18	
1 22	11 6.28	+10 0.5	1.848	2.656	14.6	21.4
2 1	11 0.99	+10 22.4	1.761	2.652	11.1	21.1
2 11	10 53.24	+10 54.2	1.696	2.648	7.1	20.9
2 21	10 43.67	+11 31.3	1.659	2.643	2.7	20.6
3 2	10 33.28	+12 7.7	1.651	2.637	2.5	20.6
3 12	10 23.25	+12 37.4	1.671	2.631	7.0	20.8
3 22	10 14.67	+12 56.1	1.718	2.625	11.2	21.1
4 1	10 8.37	+13 1.6	1.789	2.618	14.8	21.3
116984 2004 HW_{33}			2 27.1 197°.13		3°.7/22.6 17	
1 22	10 59.24	+18 35.0	2.566	3.387	10.5	20.0
2 1	10 55.03	+19 37.9	2.487	3.386	8.0	19.8
2 11	10 49.12	+20 43.6	2.435	3.384	5.4	19.6
2 21	10 42.00	+21 46.6	2.411	3.383	3.7	19.5
3 2	10 34.37	+22 41.0	2.417	3.381	4.6	19.6
3 12	10 27.02	+23 22.3	2.453	3.379	7.1	19.7
3 22	10 20.66	+23 47.9	2.514	3.377	9.8	19.9
4 1	10 15.87	+23 57.1	2.599	3.375	12.2	20.0
154525 2003 FZ_{106}			2 27.1 333°.60		7°.5/ 5.1 18	
1 22	10 56.41	−12 54.6	1.677	2.413	18.7	19.7
2 1	10 53.80	−13 9.0	1.583	2.405	16.0	19.5
2 11	10 48.82	−12 53.9	1.508	2.398	12.9	19.2
2 21	10 42.02	−12 7.1	1.454	2.391	9.7	19.0
3 2	10 34.32	−10 50.4	1.424	2.385	7.6	18.9
3 12	10 26.89	− 9 10.3	1.421	2.379	8.2	18.9
3 22	10 20.79	− 7 17.2	1.443	2.374	11.0	19.1
4 1	10 16.90	− 5 22.2	1.488	2.369	14.4	19.2
32694 4408 $T\text{-}_{1}$			2 27.1 128°.84		2°.7/24.8 18	
1 22	11 6.70	+12 58.4	1.788	2.604	14.6	18.8
2 1	11 1.18	+13 51.8	1.722	2.619	11.0	18.6
2 11	10 53.24	+14 53.6	1.680	2.633	7.0	18.3
2 21	10 43.61	+15 56.5	1.666	2.647	3.2	18.1
3 2	10 33.37	+16 52.7	1.680	2.660	4.0	18.2
3 12	10 23.71	+17 35.7	1.723	2.673	7.8	18.5
3 22	10 15.67	+18 2.0	1.792	2.684	11.6	18.7
4 1	10 9.95	+18 10.4	1.884	2.695	14.9	19.0
415824 2001 QD_{186}			2 27.1 139°.63		4°.8/ 3.3 17	
1 22	11 3.26	− 9 10.3	2.504	3.217	13.7	21.9
2 1	10 57.98	− 9 21.4	2.419	3.232	11.4	21.8
2 11	10 50.95	− 9 14.3	2.355	3.246	8.8	21.6
2 21	10 42.70	− 8 49.2	2.318	3.260	6.2	21.5
3 2	10 33.94	− 8 8.1	2.309	3.273	4.8	21.4
3 12	10 25.50	− 7 15.2	2.330	3.285	5.7	21.5
3 22	10 18.11	− 6 15.9	2.380	3.296	8.0	21.6
4 1	10 12.35	− 5 15.7	2.456	3.307	10.6	21.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
294228 2007 US_{24}			2 27.1	87°.47	1°.4/25.6	18
	h m	° ′			°	m
1 22	10 59.53	+10 25.8	2.264	3.075	12.1	20.8
2 1	10 55.33	+11 8.7	2.190	3.084	9.1	20.7
2 11	10 49.33	+12 0.1	2.141	3.094	5.7	20.5
2 21	10 42.08	+12 55.0	2.120	3.104	2.3	20.2
3 2	10 34.35	+13 47.9	2.128	3.113	2.5	20.3
3 12	10 26.98	+14 33.5	2.166	3.123	5.9	20.5
3 22	10 20.72	+15 8.1	2.231	3.132	9.3	20.7
4 1	10 16.16	+15 29.5	2.321	3.141	12.1	20.9
81210 2000 FT_{16}			2 27.1	193°.72	2°.2/24.6	18
1 22	11 2.47	+12 27.6	2.328	3.137	11.9	19.6
2 1	10 57.63	+13 26.6	2.241	3.135	9.0	19.4
2 11	10 50.87	+14 33.8	2.180	3.132	5.7	19.2
2 21	10 42.71	+15 43.4	2.147	3.128	2.7	19.0
3 2	10 33.92	+16 49.2	2.144	3.124	3.3	19.1
3 12	10 25.40	+17 45.2	2.172	3.119	6.6	19.3
3 22	10 17.98	+18 27.3	2.227	3.113	9.9	19.4
4 1	10 12.31	+18 53.6	2.307	3.107	12.8	19.6
28440 2000 AN_{40}			2 27.1	267°.09	5°.7/22.2	18
1 22	11 4.38	+17 53.2	1.560	2.396	15.4	18.8
2 1	11 0.34	+19 22.0	1.468	2.375	11.9	18.5
2 11	10 53.30	+21 0.9	1.400	2.353	8.1	18.3
2 21	10 43.85	+22 39.5	1.358	2.331	5.8	18.1
3 2	10 33.11	+24 5.7	1.343	2.308	7.4	18.1
3 12	10 22.57	+25 8.9	1.354	2.284	11.4	18.3
3 22	10 13.66	+25 43.8	1.389	2.261	15.7	18.4
4 1	10 7.51	+25 49.6	1.443	2.237	19.5	18.6
451696 2013 CH_{34}			2 27.1	90°.99	1°.7/25.8	18
1 22	11 3.95	+ 8 27.3	1.423	2.248	17.3	21.4
2 1	10 59.60	+ 9 27.9	1.362	2.262	13.1	21.2
2 11	10 52.47	+10 44.2	1.322	2.277	8.2	21.0
2 21	10 43.38	+12 8.3	1.307	2.292	3.1	20.7
3 2	10 33.54	+13 30.0	1.320	2.306	3.3	20.7
3 12	10 24.39	+14 39.5	1.360	2.320	8.2	21.1
3 22	10 17.10	+15 30.6	1.424	2.334	12.8	21.4
4 1	10 12.47	+16 0.5	1.510	2.347	16.7	21.6
39777 1997 HE			2 27.1	163°.82	2°.3/29.6	18
1 22	10 59.66	− 1 28.2	2.347	3.112	13.2	19.7
2 1	10 55.42	− 1 7.8	2.256	3.115	10.4	19.5
2 11	10 49.42	− 0 31.3	2.189	3.119	7.3	19.3
2 21	10 42.15	+ 0 19.0	2.149	3.122	4.0	19.1
3 2	10 34.32	+ 1 19.2	2.139	3.124	2.3	19.0
3 12	10 26.76	+ 2 23.8	2.158	3.126	4.9	19.2
3 22	10 20.23	+ 3 27.2	2.206	3.128	8.2	19.4
4 1	10 15.31	+ 4 24.2	2.279	3.130	11.3	19.6
466749 2015 AY_{94}			2 27.1	179°.33	3°.7/ 1.7	17
1 22	10 58.97	− 5 1.2	1.918	2.681	15.8	21.2
2 1	10 55.33	− 4 42.9	1.828	2.681	12.8	21.0
2 11	10 49.58	− 4 2.2	1.759	2.681	9.3	20.8
2 21	10 42.26	− 3 0.7	1.716	2.681	5.7	20.6
3 2	10 34.23	− 1 42.8	1.700	2.681	3.7	20.4
3 12	10 26.51	− 0 15.7	1.712	2.681	5.9	20.6
3 22	10 20.00	+ 1 12.2	1.752	2.681	9.5	20.8
4 1	10 15.45	+ 2 33.5	1.817	2.681	13.1	21.0
106053 2000 SJ_{313}			2 27.1	286°.56	5°.5/ 2.6	18
1 22	11 3.50	− 7 25.4	2.379	3.105	14.0	18.9
2 1	10 58.53	− 8 18.6	2.268	3.090	11.8	18.7
2 11	10 51.56	− 8 57.2	2.180	3.074	9.2	18.5
2 21	10 43.04	− 9 19.6	2.117	3.059	6.8	18.4
3 2	10 33.71	− 9 25.4	2.083	3.043	5.5	18.3
3 12	10 24.47	− 9 16.7	2.077	3.028	6.6	18.3
3 22	10 16.19	− 8 57.3	2.099	3.013	9.1	18.4
4 1	10 9.62	− 8 32.1	2.147	2.997	11.9	18.6
417194 2005 WJ_{193}			2 27.1	71°.73	11°.9/ 9.2	18
1 22	11 3.06	−23 35.4	1.969	2.604	19.1	20.3
2 1	10 58.70	−25 4.0	1.883	2.608	17.3	20.2
2 11	10 51.90	−26 5.6	1.814	2.611	15.4	20.0
2 21	10 43.23	−26 35.0	1.765	2.614	13.5	19.9
3 2	10 33.60	−26 29.1	1.737	2.618	12.2	19.8
3 12	10 24.20	−25 49.5	1.732	2.621	12.0	19.8
3 22	10 16.15	−24 42.2	1.751	2.625	12.8	19.9
4 1	10 10.32	−23 16.4	1.792	2.628	14.5	20.0
197545 2004 FG_{12}			2 27.1	338°.51	3°.1/29.1	17
1 22	10 59.51	+ 2 10.5	1.572	2.378	16.8	18.9
2 1	10 56.36	+ 1 32.6	1.473	2.357	13.4	18.6
2 11	10 50.60	+ 1 9.1	1.396	2.337	9.4	18.3
2 21	10 42.78	+ 0 59.6	1.343	2.319	5.2	18.0
3 2	10 33.87	+ 1 2.1	1.315	2.301	3.3	17.8
3 12	10 25.16	+ 1 12.3	1.314	2.285	6.9	18.0
3 22	10 17.88	+ 1 25.0	1.337	2.270	11.5	18.2
4 1	10 12.99	+ 1 34.8	1.382	2.257	15.7	18.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
385120 2012 XX_{67}			2 27.1	243°.58	3°.4/23.0	17
	h m	° ′			°	m
1 22	10 58.66	+16 58.1	2.411	3.234	11.1	20.5
2 1	10 54.71	+18 2.8	2.331	3.231	8.4	20.4
2 11	10 48.98	+19 12.1	2.277	3.229	5.5	20.2
2 21	10 41.99	+20 20.0	2.251	3.226	3.5	20.0
3 2	10 34.45	+21 20.2	2.255	3.223	4.5	20.1
3 12	10 27.18	+22 7.6	2.288	3.221	7.2	20.3
3 22	10 20.95	+22 39.0	2.347	3.218	10.1	20.4
4 1	10 16.34	+22 53.4	2.429	3.215	12.7	20.6
409933 2006 UT_{53}			2 27.1	90°.09	1°.1/26.2	18
1 22	11 3.19	+ 8 43.0	1.753	2.566	15.0	21.8
2 1	10 58.54	+ 9 23.5	1.687	2.581	11.3	21.6
2 11	10 51.57	+10 15.9	1.644	2.596	7.1	21.4
2 21	10 43.00	+11 14.4	1.627	2.611	2.7	21.1
3 2	10 33.83	+12 12.0	1.639	2.626	2.5	21.1
3 12	10 25.22	+13 1.6	1.679	2.640	6.9	21.4
3 22	10 18.12	+13 38.4	1.745	2.654	10.9	21.7
4 1	10 13.24	+14 0.0	1.835	2.668	14.3	22.0
66491 1999 RG_{54}			2 27.1	105°.79	1°.7/25.5	18
1 22	11 6.28	+10 16.5	1.956	2.761	14.0	20.2
2 1	11 0.54	+11 10.4	1.898	2.789	10.5	20.0
2 11	10 52.66	+12 13.6	1.864	2.816	6.5	19.8
2 21	10 43.37	+13 19.7	1.858	2.842	2.6	19.6
3 2	10 33.62	+14 21.8	1.883	2.867	2.9	19.7
3 12	10 24.49	+15 13.6	1.937	2.891	6.7	19.9
3 22	10 16.84	+15 51.3	2.018	2.914	10.3	20.2
4 1	10 11.29	+16 13.2	2.123	2.937	13.3	20.4
278108 2007 BJ_{75}			2 27.1	84°.56	1°.9/25.6	18
1 22	11 6.50	+12 48.0	1.855	2.669	14.3	20.5
2 1	11 0.89	+13 6.7	1.789	2.685	10.8	20.3
2 11	10 52.98	+13 31.9	1.748	2.700	6.8	20.1
2 21	10 43.52	+13 58.3	1.733	2.716	2.8	19.9
3 2	10 33.52	+14 20.5	1.747	2.732	3.1	19.9
3 12	10 24.14	+14 33.6	1.790	2.747	7.0	20.2
3 22	10 16.32	+14 35.2	1.860	2.762	10.7	20.4
4 1	10 10.73	+14 24.2	1.953	2.777	13.9	20.7
474053 2016 GW_{250}			2 27.1	298°.74	0°.6/27.6	17
1 22	11 1.39	+ 5 20.8	1.836	2.640	14.8	21.4
2 1	10 57.30	+ 5 33.8	1.747	2.634	11.5	21.1
2 11	10 50.90	+ 6 0.6	1.680	2.628	7.5	20.9
2 21	10 42.81	+ 6 37.8	1.639	2.622	3.1	20.6
3 2	10 33.92	+ 7 20.4	1.627	2.616	1.7	20.5
3 12	10 25.35	+ 8 2.0	1.642	2.610	6.2	20.7
3 22	10 18.10	+ 8 37.3	1.684	2.605	10.5	21.0
4 1	10 12.96	+ 9 2.2	1.750	2.599	14.2	21.2
297441 2000 SJ_{188}			2 27.1	99°.88	0°.1/27.1	18
1 22	11 5.52	+ 5 59.9	1.650	2.455	16.2	21.2
2 1	11 0.40	+ 6 29.0	1.585	2.473	12.4	21.0
2 11	10 52.80	+ 7 12.7	1.542	2.491	7.9	20.8
2 21	10 43.48	+ 8 5.9	1.526	2.509	3.0	20.5
3 2	10 33.55	+ 9 1.7	1.538	2.526	1.9	20.5
3 12	10 24.25	+ 9 52.8	1.578	2.543	6.7	20.8
3 22	10 16.61	+10 33.5	1.644	2.560	11.0	21.1
4 1	10 11.36	+11 0.5	1.734	2.576	14.6	21.4
290854 2005 WS_{37}			2 27.1	69°.45	1°.8/25.5	18
1 22	11 1.63	+10 46.4	1.792	2.612	14.4	21.0
2 1	10 57.37	+11 31.1	1.723	2.622	10.9	20.8
2 11	10 50.85	+12 26.0	1.677	2.632	6.8	20.5
2 21	10 42.74	+13 24.9	1.658	2.641	2.8	20.3
3 2	10 34.02	+14 20.8	1.667	2.651	3.1	20.3
3 12	10 25.79	+15 6.8	1.704	2.661	7.2	20.6
3 22	10 19.01	+15 38.7	1.767	2.672	11.1	20.9
4 1	10 14.37	+15 54.4	1.853	2.682	14.4	21.1
405360 2003 WZ_{80}			2 27.1	56°.73	0°.4/26.8	18
1 22	11 4.12	+ 7 30.8	1.430	2.252	17.4	21.3
2 1	10 59.66	+ 7 52.9	1.370	2.268	13.2	21.0
2 11	10 52.47	+ 8 29.5	1.331	2.284	8.4	20.8
2 21	10 43.39	+ 9 15.0	1.317	2.301	3.2	20.5
3 2	10 33.64	+10 1.9	1.330	2.318	2.3	20.5
3 12	10 24.61	+10 42.6	1.369	2.336	7.4	20.9
3 22	10 17.43	+11 11.6	1.433	2.353	12.0	21.2
4 1	10 12.87	+11 25.9	1.520	2.371	15.9	21.4
208218 2000 SP_{109}			2 27.1	177°.33	2°.5/25.1	18
1 22	11 7.03	+13 16.9	1.843	2.657	14.4	20.8
2 1	11 1.53	+13 53.7	1.763	2.659	10.9	20.5
2 11	10 53.57	+14 38.1	1.708	2.660	6.9	20.3
2 21	10 43.82	+15 24.0	1.679	2.661	3.1	20.1
3 2	10 33.32	+16 4.6	1.680	2.661	3.7	20.1
3 12	10 23.29	+16 33.7	1.709	2.661	7.7	20.3
3 22	10 14.77	+16 48.1	1.765	2.660	11.6	20.6
4 1	10 8.57	+16 46.4	1.844	2.659	15.0	20.8

433231 2012 VT_{14} 2 27.1 148°.56 1°.5/29.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	10 57.27	− 0 42.9	2.592	3.359	12.0	21.8
2 1	10 53.46	− 0 0.7	2.501	3.364	9.4	21.6
2 11	10 48.10	+ 0 56.7	2.436	3.369	6.4	21.5
2 21	10 41.65	+ 2 6.4	2.398	3.373	3.2	21.3
3 2	10 34.72	+ 3 23.9	2.390	3.377	1.7	21.1
3 12	10 28.03	+ 4 43.4	2.413	3.381	4.4	21.3
3 22	10 22.24	+ 5 59.5	2.465	3.385	7.6	21.6
4 1	10 17.86	+ 7 7.5	2.543	3.389	10.4	21.7

210076 2006 QU_{24} 2 27.1 131°.88 0°.7/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 57.86	+ 3 10.3	2.595	3.378	11.6	20.5
2 1	10 53.88	+ 3 47.4	2.510	3.385	8.9	20.3
2 11	10 48.35	+ 4 36.8	2.450	3.392	5.8	20.2
2 21	10 41.74	+ 5 35.0	2.418	3.399	2.5	19.9
3 2	10 34.67	+ 6 37.8	2.417	3.406	1.3	19.9
3 12	10 27.87	+ 7 39.9	2.445	3.412	4.6	20.1
3 22	10 21.98	+ 8 36.8	2.503	3.418	7.7	20.3
4 1	10 17.52	+ 9 24.7	2.586	3.424	10.5	20.5

181236 2005 TV_{136} 2 27.1 260°.92 1°.5/25.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 58.78	+11 35.0	2.533	3.342	11.0	20.8
2 1	10 54.71	+12 12.6	2.441	3.335	8.3	20.6
2 11	10 48.95	+12 57.3	2.375	3.328	5.2	20.4
2 21	10 42.00	+13 45.0	2.337	3.320	2.2	20.2
3 2	10 34.49	+14 30.7	2.330	3.313	2.5	20.2
3 12	10 27.22	+15 9.9	2.351	3.306	5.7	20.4
3 22	10 20.88	+15 39.0	2.401	3.298	8.8	20.6
4 1	10 16.07	+15 56.1	2.475	3.290	11.6	20.8

101787 1999 GD_{26} 2 27.1 42°.97 7°.2/21.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 8.79	+26 14.6	1.688	2.518	14.7	18.9
2 1	11 3.11	+27 5.5	1.626	2.522	11.6	18.7
2 11	10 54.64	+27 51.7	1.588	2.526	8.7	18.5
2 21	10 44.22	+28 24.3	1.575	2.531	7.2	18.4
3 2	10 33.12	+28 35.4	1.588	2.535	8.4	18.5
3 12	10 22.78	+28 21.4	1.628	2.540	11.1	18.7
3 22	10 14.37	+27 42.9	1.691	2.545	14.2	18.9
4 1	10 8.65	+26 43.5	1.775	2.550	17.1	19.1

43273 2000 EL_{41} 2 27.1 257°.48 0°.4/27.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.52	+ 4 0.4	1.493	2.305	17.2	19.3
2 1	10 57.93	+ 4 40.1	1.407	2.299	13.4	19.0
2 11	10 51.60	+ 5 40.5	1.342	2.292	8.7	18.7
2 21	10 43.17	+ 6 56.9	1.302	2.286	3.5	18.4
3 2	10 33.71	+ 8 21.1	1.290	2.279	2.0	18.3
3 12	10 24.60	+ 9 42.8	1.304	2.272	7.4	18.6
3 22	10 17.10	+10 53.3	1.343	2.265	12.4	18.9
4 1	10 12.15	+11 46.5	1.404	2.258	16.8	19.1

354177 2002 CV_{299} 2 27.1 342°.80 0°.3/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 59.04	+ 6 48.1	1.215	2.053	18.8	20.8
2 1	10 56.54	+ 7 10.2	1.138	2.045	14.5	20.6
2 11	10 50.95	+ 7 51.6	1.080	2.037	9.4	20.2
2 21	10 42.97	+ 8 46.8	1.045	2.030	3.6	19.9
3 2	10 33.84	+ 9 47.2	1.035	2.024	2.5	19.8
3 12	10 25.18	+10 42.5	1.049	2.019	8.5	20.1
3 22	10 18.41	+11 24.6	1.086	2.015	14.0	20.4
4 1	10 14.60	+11 48.1	1.142	2.012	18.7	20.7

267450 2002 DN_{10} 2 27.1 317°.95 0°.8/27.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 55.58	+ 1 56.5	1.616	2.426	16.2	20.4
2 1	10 53.30	+ 2 47.9	1.516	2.406	12.7	20.2
2 11	10 48.60	+ 4 3.2	1.438	2.386	8.4	19.9
2 21	10 42.02	+ 5 38.1	1.385	2.367	3.6	19.5
3 2	10 34.43	+ 7 24.8	1.359	2.348	1.8	19.3
3 12	10 27.02	+ 9 12.8	1.360	2.330	7.0	19.6
3 22	10 20.92	+10 51.5	1.387	2.313	11.8	19.9
4 1	10 17.05	+12 12.9	1.437	2.296	16.2	20.1

173722 2001 QK_{193} 2 27.1 141°.66 3°.4/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.55	− 5 9.7	2.953	3.681	11.5	21.1
2 1	10 56.46	− 5 24.0	2.863	3.693	9.4	20.9
2 11	10 49.90	− 5 25.1	2.798	3.704	7.0	20.8
2 21	10 42.32	− 5 13.7	2.759	3.714	4.6	20.7
3 2	10 34.32	− 4 51.3	2.751	3.724	3.4	20.6
3 12	10 26.56	− 4 21.2	2.773	3.733	4.6	20.7
3 22	10 19.65	− 3 46.9	2.825	3.742	6.9	20.8
4 1	10 14.10	− 3 12.2	2.904	3.751	9.2	21.0

313791 2003 YO_{117} 2 27.1 145°.04 10°.4/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.25	− 7 14.5	1.229	1.984	23.3	20.1
2 1	11 11.50	− 9 27.5	1.152	1.988	19.8	19.9
2 11	11 0.78	−11 20.4	1.093	1.993	15.8	19.7
2 21	10 46.86	−12 45.2	1.056	1.997	12.1	19.4
3 2	10 31.32	−13 35.8	1.045	2.000	10.4	19.4
3 12	10 16.29	−13 52.4	1.058	2.003	12.1	19.5
3 22	10 3.69	−13 42.1	1.095	2.006	15.7	19.7
4 1	9 54.86	−13 15.8	1.153	2.009	19.5	19.9

86671 2000 FA_{19} 2 27.1 256°.78 1°.5/25.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	10 59.21	+ 6 57.3	1.910	2.720	14.1	20.0
2 1	10 55.69	+ 8 20.5	1.813	2.707	10.7	19.7
2 11	10 49.94	+10 1.7	1.740	2.693	6.8	19.5
2 21	10 42.49	+11 54.3	1.695	2.679	2.6	19.2
3 2	10 34.16	+13 49.2	1.680	2.665	2.9	19.2
3 12	10 26.02	+15 36.6	1.694	2.650	7.3	19.4
3 22	10 19.06	+17 8.2	1.735	2.635	11.5	19.6
4 1	10 14.11	+18 19.1	1.800	2.620	15.1	19.8

82386 2001 MM_{22} 2 27.1 179°.57 1°.3/25.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.73	+10 16.3	2.240	3.043	12.5	20.4
2 1	10 58.61	+10 54.2	2.155	3.044	9.5	20.2
2 11	10 51.52	+11 41.0	2.094	3.045	6.0	20.0
2 21	10 43.00	+12 31.8	2.062	3.046	2.3	19.8
3 2	10 33.88	+13 21.1	2.060	3.046	2.5	19.8
3 12	10 25.07	+14 3.6	2.088	3.045	6.1	20.0
3 22	10 17.44	+14 35.2	2.144	3.043	9.6	20.2
4 1	10 11.63	+14 53.8	2.225	3.041	12.7	20.4

306421 1998 QB_{1} 2 27.1 196°.41 0°.8/26.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.84	+ 8 16.1	2.302	3.091	12.7	23.3
2 1	11 1.00	+ 8 56.5	2.206	3.087	9.7	23.1
2 11	10 53.08	+ 9 47.5	2.135	3.082	6.2	22.9
2 21	10 43.64	+10 44.7	2.093	3.076	2.3	22.6
3 2	10 33.47	+11 42.4	2.082	3.069	2.1	22.6
3 12	10 23.55	+12 34.9	2.102	3.060	6.0	22.8
3 22	10 14.77	+13 17.4	2.151	3.050	9.6	23.0
4 1	10 7.86	+13 47.3	2.226	3.039	12.8	23.2

495898 2005 NQ_{21} 2 27.1 162°.78 2°.2/24.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.89	+11 55.0	2.382	3.189	11.7	22.5
2 1	10 57.11	+13 6.4	2.303	3.196	8.8	22.3
2 11	10 50.50	+14 26.3	2.250	3.202	5.5	22.1
2 21	10 42.60	+15 48.5	2.226	3.208	2.6	21.9
3 2	10 34.15	+17 6.5	2.234	3.213	3.3	22.0
3 12	10 26.00	+18 14.1	2.271	3.217	6.5	22.2
3 22	10 18.94	+19 7.2	2.337	3.220	9.6	22.4
4 1	10 13.56	+19 43.8	2.427	3.223	12.4	22.6

456852 2007 UB_{106} 2 27.1 74°.78 0°.3/27.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.97	+ 4 54.8	1.528	2.338	17.0	21.9
2 1	10 59.37	+ 5 25.7	1.468	2.358	13.0	21.7
2 11	10 52.21	+ 6 13.4	1.429	2.378	8.4	21.4
2 21	10 43.29	+ 7 12.4	1.415	2.398	3.3	21.2
3 2	10 33.76	+ 8 15.2	1.429	2.418	1.9	21.1
3 12	10 24.90	+ 9 13.7	1.471	2.438	6.8	21.5
3 22	10 17.78	+10 1.5	1.538	2.458	11.3	21.8
4 1	10 13.13	+10 34.5	1.628	2.478	15.0	22.1

201172 2002 OC_{3} 2 27.1 146°.89 10°.9/ 3.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.16	−10 58.5	1.382	2.109	22.4	19.6
2 1	11 10.30	−13 1.8	1.303	2.117	19.3	19.4
2 11	10 59.82	−14 42.1	1.244	2.124	15.8	19.2
2 21	10 46.45	−15 51.8	1.206	2.130	12.6	19.0
3 2	10 31.64	−16 25.6	1.193	2.136	11.0	18.9
3 12	10 17.28	−16 25.0	1.206	2.142	12.0	19.0
3 22	10 5.11	−15 57.2	1.244	2.146	14.8	19.2
4 1	9 56.36	−15 13.4	1.302	2.150	18.2	19.4

519996 2013 TO_{169} 2 27.1 103°.60 0°.5/26.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.53	+ 8 28.7	2.099	2.902	13.2	22.0
2 1	10 57.75	+ 8 48.1	2.021	2.910	10.1	21.8
2 11	10 50.97	+ 9 17.1	1.968	2.918	6.4	21.6
2 21	10 42.80	+ 9 51.6	1.942	2.925	2.4	21.3
3 2	10 34.06	+10 26.9	1.945	2.933	1.9	21.3
3 12	10 25.73	+10 57.7	1.977	2.940	5.8	21.6
3 22	10 18.64	+11 20.5	2.037	2.948	9.5	21.8
4 1	10 13.44	+11 32.6	2.121	2.955	12.6	22.0

284110 2005 SC_{282} 2 27.1 276°.10 7°.4/20.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.41	+25 56.5	1.799	2.633	13.8	20.9
2 1	10 59.81	+27 18.4	1.732	2.630	10.9	20.7
2 11	10 52.59	+28 38.1	1.690	2.627	8.4	20.5
2 21	10 43.49	+29 45.8	1.673	2.624	7.4	20.5
3 2	10 33.61	+30 32.6	1.684	2.621	8.7	20.5
3 12	10 24.25	+30 53.0	1.720	2.619	11.4	20.7
3 22	10 16.53	+30 46.2	1.779	2.616	14.4	20.9
4 1	10 11.28	+30 14.6	1.857	2.613	17.1	21.0

465773 2009 WT_{229} 2 27.1 35°.88 3°.8/23.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.24	+15 26.5	1.654	2.488	14.8	20.7
2 1	10 57.31	+16 23.6	1.590	2.496	11.1	20.5
2 11	10 50.93	+17 27.4	1.549	2.504	7.2	20.3
2 21	10 42.82	+18 30.2	1.534	2.513	4.0	20.1
3 2	10 34.06	+19 23.5	1.546	2.522	5.0	20.2
3 12	10 25.86	+20 0.7	1.586	2.531	8.7	20.4
3 22	10 19.24	+20 18.5	1.649	2.541	12.5	20.7
4 1	10 14.95	+20 16.3	1.735	2.551	15.7	20.9

363284 2002 GM_{181} 2 27.1 285°.76 1°.9/25.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 1.00	+ 9 12.5	1.581	2.406	15.8	21.4
2 1	10 57.60	+10 7.5	1.483	2.384	12.1	21.1
2 11	10 51.49	+11 19.4	1.407	2.362	7.7	20.8
2 21	10 43.20	+12 41.7	1.356	2.340	3.1	20.4
3 2	10 33.72	+14 5.5	1.333	2.318	3.5	20.4
3 12	10 24.41	+15 20.5	1.337	2.296	8.5	20.6
3 22	10 16.55	+16 18.9	1.366	2.274	13.4	20.8
4 1	10 11.18	+16 56.1	1.416	2.252	17.6	21.0

349075 2007 BJ_{46} 2 27.1 27°.61 3°.2/24.7 18

1 22	11 1.30	+10 47.5	1.222	2.066	18.3	20.4
2 1	10 58.18	+12 1.6	1.157	2.069	13.9	20.1
2 11	10 51.92	+13 32.8	1.112	2.071	8.7	19.8
2 21	10 43.32	+15 10.9	1.091	2.075	3.9	19.5
3 2	10 33.72	+16 43.0	1.096	2.078	5.0	19.6
3 12	10 24.75	+17 57.3	1.126	2.082	10.1	19.9
3 22	10 17.81	+18 46.6	1.178	2.086	15.0	20.2
4 1	10 13.84	+19 8.8	1.250	2.091	19.2	20.5

350183 2011 UD_{198} 2 27.1 188°.53 3°.7/22.5 18

1 22	11 0.06	+20 45.7	2.773	3.592	9.9	20.8
2 1	10 55.53	+21 31.8	2.696	3.592	7.6	20.7
2 11	10 49.40	+22 18.5	2.645	3.592	5.2	20.5
2 21	10 42.17	+23 0.8	2.623	3.591	3.8	20.4
3 2	10 34.48	+23 34.1	2.631	3.591	4.6	20.5
3 12	10 27.09	+23 54.8	2.667	3.590	6.8	20.6
3 22	10 20.65	+24 1.3	2.731	3.589	9.3	20.8
4 1	10 15.70	+23 53.3	2.817	3.588	11.5	20.9

427864 2005 QH_{10} 2 27.1 113°.23 0°.8/26.4 18

1 22	11 1.48	− 1 3.3	1.159	1.972	21.1	21.2
2 1	10 58.43	+ 1 25.3	1.090	1.983	16.2	20.9
2 11	10 52.15	+ 4 35.2	1.042	1.993	10.4	20.6
2 21	10 43.44	+ 8 13.5	1.019	2.003	3.8	20.3
3 2	10 33.64	+11 58.9	1.025	2.013	3.2	20.3
3 12	10 24.47	+15 27.3	1.060	2.022	9.7	20.7
3 22	10 17.37	+18 20.9	1.120	2.031	15.4	21.0
4 1	10 13.36	+20 31.6	1.201	2.039	20.0	21.3

289233 2004 XL_{69} 2 27.1 66°.22 9°.0/ 7.9 18

1 22	10 59.91	−19 40.8	1.489	2.188	22.1	20.3
2 1	10 56.51	−19 25.9	1.422	2.212	19.1	20.2
2 11	10 50.51	−18 30.5	1.372	2.235	15.7	20.0
2 21	10 42.68	−16 53.6	1.341	2.259	12.1	19.8
3 2	10 34.19	−14 39.5	1.335	2.283	9.5	19.7
3 12	10 26.36	−11 59.8	1.355	2.307	9.2	19.8
3 22	10 20.26	− 9 9.6	1.401	2.331	11.4	20.0
4 1	10 16.64	− 6 24.2	1.473	2.354	14.5	20.2

159167 2005 RP_{25} 2 27.1 108°.54 0°.5/26.8 18

1 22	11 7.88	+ 9 38.8	1.949	2.750	14.2	20.6
2 1	11 1.89	+ 9 39.2	1.875	2.762	10.8	20.4
2 11	10 53.65	+ 9 47.7	1.825	2.774	6.9	20.1
2 21	10 43.84	+10 0.5	1.802	2.786	2.6	19.9
3 2	10 33.46	+10 13.3	1.809	2.798	1.9	19.9
3 12	10 23.62	+10 21.8	1.846	2.809	6.2	20.2
3 22	10 15.26	+10 23.0	1.910	2.820	10.0	20.4
4 1	10 9.08	+10 15.3	1.999	2.831	13.4	20.6

222533 2001 UY_{46} 2 27.1 91°.76 1°.5/25.7 18

1 22	11 3.11	+ 9 27.2	1.914	2.724	14.0	21.0
2 1	10 58.26	+10 20.9	1.853	2.747	10.5	20.8
2 11	10 51.31	+11 24.9	1.816	2.769	6.6	20.6
2 21	10 42.92	+12 33.3	1.807	2.791	2.6	20.4
3 2	10 34.06	+13 38.8	1.827	2.812	2.7	20.4
3 12	10 25.74	+14 34.8	1.876	2.834	6.6	20.7
3 22	10 18.83	+15 17.1	1.952	2.854	10.3	21.0
4 1	10 13.97	+15 43.5	2.052	2.875	13.4	21.2

203256 2001 QW_{149} 2 27.1 84°.57 2°.8/29.9 18

1 22	11 3.07	− 1 23.7	2.370	3.128	13.2	20.1
2 1	10 57.84	− 1 34.0	2.299	3.152	10.5	20.0
2 11	10 50.87	− 1 30.2	2.252	3.176	7.4	19.8
2 21	10 42.74	− 1 14.0	2.231	3.199	4.3	19.7
3 2	10 34.20	− 0 48.1	2.240	3.223	2.8	19.6
3 12	10 26.08	− 0 16.6	2.279	3.245	4.9	19.8
3 22	10 19.09	+ 0 16.2	2.347	3.268	7.9	20.0
4 1	10 13.78	+ 0 46.3	2.440	3.290	10.6	20.2

1079 Mimosa 2 27.1 76°.12 0°.1/27.2 18

1 22	11 0.87	+ 6 17.0	2.030	2.832	13.7	15.7
2 1	10 56.61	+ 6 39.3	1.950	2.836	10.5	15.5
2 11	10 50.32	+ 7 13.6	1.893	2.841	6.7	15.3
2 21	10 42.60	+ 7 56.0	1.863	2.846	2.6	15.0
3 2	10 34.27	+ 8 41.5	1.862	2.851	1.6	14.9
3 12	10 26.32	+ 9 24.3	1.890	2.856	5.8	15.2
3 22	10 19.59	+ 9 59.7	1.945	2.861	9.6	15.5
4 1	10 14.75	+10 24.3	2.024	2.866	12.8	15.7

158488 2002 ES_{13} 2 27.1 311°.14 0°.9/26.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 0.68	+ 8 45.6	1.734	2.553	14.9	20.5
2 1	10 56.99	+ 9 9.9	1.642	2.539	11.4	20.2
2 11	10 50.88	+ 9 46.7	1.572	2.525	7.3	19.9
2 21	10 42.91	+10 31.3	1.527	2.512	2.8	19.6
3 2	10 34.03	+11 17.5	1.511	2.498	2.4	19.5
3 12	10 25.43	+11 58.4	1.522	2.486	7.1	19.8
3 22	10 18.19	+12 28.4	1.558	2.473	11.5	20.0
4 1	10 13.19	+12 44.2	1.617	2.461	15.4	20.2

29531 1998 BA_{1} 2 27.1 213°.77 2°.1/24.4 18

1 22	10 58.30	+12 31.2	2.662	3.473	10.5	18.9
2 1	10 54.31	+13 35.8	2.573	3.468	7.9	18.7
2 11	10 48.71	+14 47.8	2.509	3.462	5.0	18.5
2 21	10 41.96	+16 2.3	2.475	3.456	2.4	18.3
3 2	10 34.67	+17 13.5	2.472	3.450	3.1	18.4
3 12	10 27.58	+18 16.0	2.499	3.444	6.0	18.5
3 22	10 21.38	+19 6.1	2.553	3.437	8.9	18.7
4 1	10 16.62	+19 41.5	2.633	3.430	11.5	18.9

241691 2000 SP_{70} 2 27.1 102°.77 2°.4/24.9 18

1 22	11 4.93	+13 37.6	2.089	2.901	13.0	21.0
2 1	10 59.50	+14 17.5	2.026	2.921	9.7	20.8
2 11	10 52.03	+15 3.1	1.988	2.940	6.1	20.6
2 21	10 43.21	+15 48.8	1.978	2.959	2.9	20.4
3 2	10 33.93	+16 28.8	1.997	2.978	3.4	20.5
3 12	10 25.18	+16 58.3	2.046	2.996	6.8	20.7
3 22	10 17.80	+17 14.3	2.122	3.014	10.1	21.0
4 1	10 12.40	+17 16.3	2.222	3.031	13.0	21.2

247495 2002 NJ_{72} 2 27.1 88°.25 2°.2/29.0 18

1 22	11 1.71	− 0 17.7	1.667	2.456	16.7	20.1
2 1	10 57.59	+ 0 8.2	1.596	2.470	13.1	19.8
2 11	10 51.09	+ 0 55.0	1.545	2.483	9.0	19.6
2 21	10 42.92	+ 1 59.0	1.520	2.497	4.5	19.4
3 2	10 34.08	+ 3 13.8	1.522	2.510	2.4	19.3
3 12	10 25.74	+ 4 31.1	1.553	2.523	6.2	19.5
3 22	10 18.92	+ 5 42.9	1.610	2.536	10.4	19.8
4 1	10 14.33	+ 6 43.0	1.690	2.549	14.1	20.1

109332 2001 QD_{143} 2 27.1 89°.64 0°.7/27.8 18

1 22	11 2.85	+ 3 32.6	1.862	2.656	15.0	20.6
2 1	10 58.13	+ 4 4.6	1.797	2.677	11.5	20.4
2 11	10 51.26	+ 4 52.0	1.754	2.698	7.5	20.2
2 21	10 42.94	+ 5 50.3	1.738	2.719	3.2	20.0
3 2	10 34.09	+ 6 53.3	1.750	2.739	1.6	19.9
3 12	10 25.77	+ 7 54.2	1.792	2.760	5.8	20.2
3 22	10 18.88	+ 8 47.0	1.861	2.779	9.8	20.5
4 1	10 14.04	+ 9 27.8	1.954	2.798	13.1	20.8

430089 2013 SC_{61} 2 27.1 130°.39 2°.9/23.9 15

1 22	11 0.86	+14 6.4	2.243	3.060	12.0	21.7
2 1	10 56.43	+15 16.7	2.173	3.071	9.0	21.5
2 11	10 50.12	+16 33.6	2.128	3.080	5.7	21.3
2 21	10 42.50	+17 50.8	2.111	3.090	3.1	21.2
3 2	10 34.35	+19 1.3	2.124	3.099	4.0	21.3
3 12	10 26.57	+19 59.4	2.167	3.108	7.1	21.5
3 22	10 19.95	+20 41.3	2.237	3.116	10.2	21.7
4 1	10 15.09	+21 5.7	2.330	3.124	12.9	21.9

368621 2004 TD_{70} 2 27.1 118°.71 0°.8/27.9 18

1 22	11 1.38	+ 3 13.3	2.315	3.097	12.8	21.6
2 1	10 56.68	+ 3 44.4	2.239	3.114	9.9	21.5
2 11	10 50.20	+ 4 28.4	2.188	3.130	6.5	21.3
2 21	10 42.51	+ 5 21.8	2.165	3.145	2.8	21.1
3 2	10 34.35	+ 6 19.8	2.171	3.160	1.4	21.0
3 12	10 26.57	+ 7 17.0	2.208	3.175	5.0	21.2
3 22	10 19.89	+ 8 8.3	2.273	3.189	8.4	21.5
4 1	10 14.89	+ 8 50.2	2.364	3.202	11.3	21.7

406204 2006 XB_{38} 2 27.1 60°.92 3°.7/24.1 18

1 22	11 6.54	+14 33.3	1.522	2.351	16.1	20.5
2 1	11 1.14	+15 43.0	1.485	2.388	12.0	20.4
2 11	10 53.20	+16 58.7	1.470	2.425	7.6	20.2
2 21	10 43.64	+18 11.2	1.482	2.461	4.1	20.1
3 2	10 33.71	+19 11.6	1.522	2.498	5.0	20.2
3 12	10 24.72	+19 53.5	1.589	2.534	8.7	20.5
3 22	10 17.63	+20 14.6	1.681	2.570	12.4	20.8
4 1	10 13.08	+20 15.5	1.794	2.605	15.5	21.1

340818 2006 UQ_{82} 2 27.1 130°.86 3°.2/23.8 18

1 22	11 2.01	+17 54.6	2.484	3.300	11.0	20.5
2 1	10 57.14	+18 30.3	2.407	3.304	8.3	20.3
2 11	10 50.50	+19 8.2	2.357	3.307	5.5	20.1
2 21	10 42.63	+19 43.4	2.334	3.310	3.3	20.0
3 2	10 34.28	+20 11.0	2.342	3.313	4.1	20.0
3 12	10 26.29	+20 27.1	2.378	3.316	6.7	20.2
3 22	10 19.39	+20 30.0	2.442	3.319	9.5	20.4
4 1	10 14.16	+20 19.2	2.529	3.321	12.1	20.5

119604 2001 WT_{18} 2 27.1 354.°44 0.°6/26.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 2.35	+ 8 11.2	1.769	2.581	14.9	20.1
2 1	10 58.08	+ 8 35.5	1.687	2.581	11.4	19.9
2 11	10 51.45	+ 9 12.1	1.629	2.581	7.3	19.6
2 21	10 43.09	+ 9 56.1	1.597	2.581	2.7	19.4
3 2	10 33.98	+10 41.5	1.592	2.581	2.2	19.3
3 12	10 25.27	+11 21.8	1.616	2.580	6.7	19.6
3 22	10 17.99	+11 51.8	1.666	2.581	11.0	19.9
4 1	10 12.91	+12 8.5	1.739	2.581	14.6	20.1

376495 2012 KJ_{27} 2 27.1 109.°16 3.°6/23.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.84	+15 38.1	1.881	2.708	13.6	21.3
2 1	10 57.58	+16 39.9	1.808	2.711	10.2	21.1
2 11	10 51.06	+17 48.4	1.760	2.714	6.6	20.9
2 21	10 42.92	+18 56.0	1.738	2.716	3.8	20.7
3 2	10 34.10	+19 55.0	1.745	2.719	4.9	20.8
3 12	10 25.72	+20 39.0	1.780	2.721	8.3	21.0
3 22	10 18.73	+21 4.5	1.840	2.724	11.8	21.2
4 1	10 13.87	+21 10.5	1.922	2.726	14.9	21.4

169216 2001 RH_{120} 2 27.1 83.°07 3.°8/23.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.02	+20 25.9	2.423	3.236	11.4	20.0
2 1	10 59.98	+21 4.6	2.372	3.265	8.6	19.8
2 11	10 52.16	+21 42.7	2.347	3.293	5.8	19.7
2 21	10 43.22	+22 15.0	2.351	3.321	3.9	19.6
3 2	10 33.98	+22 36.7	2.385	3.349	4.7	19.7
3 12	10 25.31	+22 44.9	2.448	3.376	7.1	19.9
3 22	10 17.94	+22 38.6	2.539	3.403	9.7	20.1
4 1	10 12.39	+22 18.5	2.653	3.429	12.0	20.3

218611 2005 PL 2 27.1 208.°45 2.°0/25.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.93	+15 11.7	2.187	2.982	13.0	19.9
2 1	11 6.46	+15 6.7	2.093	2.977	10.0	19.7
2 11	10 56.61	+15 3.9	2.024	2.972	6.4	19.5
2 21	10 45.06	+14 59.3	1.984	2.966	2.8	19.2
3 2	10 32.77	+14 48.7	1.976	2.959	3.0	19.2
3 12	10 20.90	+14 29.3	2.000	2.952	6.7	19.5
3 22	10 10.47	+13 59.9	2.052	2.945	10.3	19.7
4 1	10 2.26	+13 20.8	2.130	2.937	13.6	19.9

196228 2003 BM_{64} 2 27.1 19.°75 2.°2/25.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 59.95	+ 8 56.7	1.168	2.013	19.0	20.0
2 1	10 57.24	+ 9 56.2	1.104	2.016	14.4	19.7
2 11	10 51.37	+11 14.6	1.061	2.020	9.1	19.5
2 21	10 43.16	+12 43.1	1.040	2.025	3.6	19.2
3 2	10 33.97	+14 9.3	1.044	2.030	4.0	19.2
3 12	10 25.43	+15 21.3	1.073	2.036	9.5	19.5
3 22	10 18.95	+16 11.4	1.124	2.043	14.7	19.8
4 1	10 15.46	+16 36.3	1.195	2.050	19.0	20.1

327409 2005 VA_{52} 2 27.1 181.°60 3.°3/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 0.21	− 5 39.8	2.361	3.104	13.7	21.5
2 1	10 55.92	− 5 16.3	2.264	3.105	11.1	21.3
2 11	10 49.83	− 4 33.6	2.191	3.105	8.1	21.1
2 21	10 42.43	− 3 33.2	2.143	3.105	5.1	20.9
3 2	10 34.43	− 2 18.8	2.125	3.104	3.3	20.8
3 12	10 26.66	− 0 56.3	2.137	3.103	5.1	20.9
3 22	10 19.91	+ 0 27.6	2.177	3.101	8.2	21.1
4 1	10 14.78	+ 1 46.7	2.245	3.099	11.3	21.3

362164 2009 EA_{8} 2 27.1 298.°96 3.°0/24.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 0.42	+11 24.6	1.469	2.304	16.3	21.1
2 1	10 57.37	+12 26.0	1.375	2.282	12.4	20.8
2 11	10 51.47	+13 43.3	1.303	2.261	8.0	20.5
2 21	10 43.27	+15 9.0	1.256	2.239	3.6	20.2
3 2	10 33.82	+16 32.5	1.236	2.218	4.6	20.2
3 12	10 24.58	+17 43.1	1.242	2.197	9.5	20.4
3 22	10 16.90	+18 33.2	1.271	2.176	14.4	20.6
4 1	10 11.89	+18 59.0	1.321	2.156	18.7	20.8

236152 2005 UF_{222} 2 27.1 358.°20 1.°4/28.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.16	+ 4 5.1	1.214	2.040	19.6	21.0
2 1	10 58.90	+ 4 6.6	1.140	2.038	15.3	20.7
2 11	10 52.47	+ 4 28.6	1.086	2.036	10.2	20.4
2 21	10 43.62	+ 5 7.4	1.054	2.036	4.5	20.1
3 2	10 33.66	+ 5 56.2	1.046	2.036	2.3	19.9
3 12	10 24.24	+ 6 45.7	1.064	2.036	8.0	20.2
3 22	10 16.82	+ 7 27.7	1.105	2.037	13.4	20.5
4 1	10 12.41	+ 7 55.9	1.165	2.039	18.1	20.8

432101 Ngari 2 27.1 330.°38 7.°4/17.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 56.51	+22 36.1	1.841	2.686	13.0	20.3
2 1	10 53.92	+25 12.4	1.768	2.674	10.2	20.1
2 11	10 48.98	+27 54.4	1.721	2.663	7.9	20.0
2 21	10 42.21	+30 29.3	1.704	2.652	7.5	19.9
3 2	10 34.52	+32 44.4	1.714	2.642	9.4	20.0
3 12	10 27.06	+34 30.0	1.751	2.632	12.3	20.2
3 22	10 20.90	+35 42.0	1.811	2.623	15.2	20.3
4 1	10 16.94	+36 20.6	1.889	2.614	17.8	20.5

523754 2014 WX_{508} 2 27.1 359.°84 0.°9/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	10 44.31	− 5 9.7	12.461	13.178	3.0	22.5
2 1	10 42.72	− 5 6.9	12.357	13.178	2.4	22.4
2 11	10 40.87	− 5 0.9	12.279	13.178	1.8	22.4
2 21	10 38.84	− 4 52.0	12.229	13.178	1.3	22.3
3 2	10 36.73	− 4 40.7	12.208	13.178	0.9	22.3
3 12	10 34.67	− 4 27.7	12.218	13.178	1.2	22.3
3 22	10 32.75	− 4 13.5	12.258	13.178	1.7	22.4
4 1	10 31.06	− 3 59.0	12.326	13.178	2.3	22.4

432136 2009 BH_{69} 2 27.1 43.°95 0.°6/27.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.50	+ 5 38.0	1.941	2.742	14.2	20.6
2 1	10 57.11	+ 5 43.6	1.868	2.753	10.9	20.4
2 11	10 50.64	+ 6 1.1	1.817	2.764	7.1	20.2
2 21	10 42.73	+ 6 27.3	1.794	2.776	3.0	20.0
3 2	10 34.27	+ 6 57.7	1.798	2.787	1.6	19.9
3 12	10 26.25	+ 7 27.1	1.832	2.800	5.7	20.2
3 22	10 19.55	+ 7 51.2	1.892	2.812	9.5	20.5
4 1	10 14.81	+ 8 6.7	1.976	2.825	12.8	20.7

268446 2005 WA_{45} 2 27.1 121.°47 1.°2/28.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.46	+ 2 44.8	2.117	2.901	13.8	21.7
2 1	10 57.68	+ 3 4.1	2.040	2.914	10.7	21.5
2 11	10 50.95	+ 3 37.5	1.986	2.926	7.1	21.3
2 21	10 42.85	+ 4 21.7	1.959	2.938	3.2	21.1
3 2	10 34.20	+ 5 12.1	1.961	2.950	1.6	21.0
3 12	10 25.95	+ 6 2.8	1.993	2.961	5.3	21.3
3 22	10 18.92	+ 6 48.8	2.053	2.972	9.0	21.5
4 1	10 13.73	+ 7 26.1	2.138	2.982	12.1	21.8

15609 Kosmaczewski 2 27.1 235.°72 1.°2/26.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.18	+ 7 59.9	1.994	2.795	13.9	19.9
2 1	10 59.47	+ 8 55.0	1.890	2.779	10.6	19.7
2 11	10 52.41	+10 4.6	1.810	2.761	6.8	19.4
2 21	10 43.54	+11 23.4	1.759	2.742	2.6	19.1
3 2	10 33.70	+12 44.1	1.737	2.723	2.6	19.1
3 12	10 24.01	+13 58.7	1.745	2.702	7.0	19.3
3 22	10 15.50	+15 0.7	1.780	2.681	11.2	19.5
4 1	10 9.05	+15 45.9	1.839	2.659	14.8	19.7

437686 2014 DW_{8} 2 27.1 285.°96 1.°0/28.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 59.78	+ 4 4.9	2.342	3.130	12.5	21.3
2 1	10 55.67	+ 4 12.3	2.241	3.118	9.7	21.1
2 11	10 49.71	+ 4 31.3	2.164	3.106	6.5	20.8
2 21	10 42.41	+ 4 59.6	2.114	3.094	2.9	20.6
3 2	10 34.45	+ 5 33.5	2.094	3.082	1.5	20.4
3 12	10 26.69	+ 6 8.5	2.103	3.071	5.1	20.7
3 22	10 19.91	+ 6 40.3	2.140	3.059	8.6	20.9
4 1	10 14.76	+ 7 5.3	2.201	3.047	11.8	21.1

88777 2001 SH_{79} 2 27.1 64.°53 2.°3/29.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.15	+ 0 23.4	1.625	2.418	16.9	19.5
2 1	10 57.93	+ 0 36.1	1.559	2.436	13.3	19.3
2 11	10 51.31	+ 1 8.4	1.515	2.453	9.0	19.1
2 21	10 43.02	+ 1 56.9	1.495	2.472	4.6	18.8
3 2	10 34.12	+ 2 55.8	1.502	2.490	2.5	18.7
3 12	10 25.79	+ 3 57.6	1.537	2.508	6.2	19.0
3 22	10 19.03	+ 4 54.8	1.599	2.526	10.4	19.3
4 1	10 14.56	+ 5 42.0	1.683	2.544	14.1	19.6

434897 2006 SV_{410} 2 27.1 11.°11 3.°5/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 56.90	− 5 16.0	2.270	3.024	13.9	21.4
2 1	10 53.48	− 5 2.1	2.178	3.024	11.3	21.2
2 11	10 48.30	− 4 29.3	2.108	3.025	8.3	21.0
2 21	10 41.85	− 3 38.9	2.063	3.026	5.2	20.8
3 2	10 34.83	− 2 34.5	2.047	3.027	3.5	20.7
3 12	10 28.07	− 1 21.8	2.060	3.028	5.2	20.8
3 22	10 22.30	− 0 6.9	2.101	3.029	8.2	21.0
4 1	10 18.14	+ 1 3.8	2.168	3.030	11.3	21.2

378364 2007 LU_{24} 2 27.1 188.°61 2.°2/29.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 0.13	− 0 28.9	2.156	2.930	13.9	21.7
2 1	10 56.01	− 0 15.4	2.065	2.930	11.0	21.5
2 11	10 49.96	+ 0 14.5	1.996	2.929	7.6	21.3
2 21	10 42.51	+ 0 58.5	1.955	2.928	4.1	21.1
3 2	10 34.42	+ 1 52.7	1.941	2.928	2.3	20.9
3 12	10 26.60	+ 2 51.3	1.957	2.927	5.2	21.1
3 22	10 19.88	+ 3 48.5	2.001	2.925	8.8	21.3
4 1	10 14.92	+ 4 39.1	2.070	2.924	12.1	21.5

264494 2001 QU_{1} 2 27.1 150.°01 0.°8/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.49	+ 3 29.2	2.211	2.995	13.3	21.9
2 1	10 57.67	+ 3 58.7	2.129	3.004	10.3	21.7
2 11	10 50.94	+ 4 41.8	2.070	3.012	6.7	21.5
2 21	10 42.86	+ 5 35.0	2.039	3.020	2.9	21.2
3 2	10 34.22	+ 6 33.2	2.038	3.027	1.5	21.1
3 12	10 25.92	+ 7 30.6	2.067	3.034	5.3	21.4
3 22	10 18.77	+ 8 22.0	2.124	3.040	8.9	21.7
4 1	10 13.40	+ 9 3.6	2.207	3.045	12.0	21.9

505678 2014 VL_{37} 2 27.1 104.°60 3.°2/23.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 2.48	+13 34.4	1.939	2.759	13.5	20.9
2 1	10 57.88	+14 56.9	1.878	2.778	10.1	20.7
2 11	10 51.15	+16 27.4	1.842	2.796	6.4	20.5
2 21	10 42.94	+17 57.9	1.834	2.814	3.5	20.4
3 2	10 34.19	+19 20.0	1.856	2.831	4.5	20.5
3 12	10 25.95	+20 26.5	1.906	2.848	7.8	20.7
3 22	10 19.09	+21 13.8	1.983	2.864	11.2	21.0
4 1	10 14.27	+21 40.6	2.082	2.880	14.1	21.2

51390 2001 DW_{18} 2 27.1 265.°24 3.°5/24.1 18

1 22	11 4.54	+14 57.7	1.870	2.691	13.9	19.0
2 1	10 59.97	+15 51.5	1.769	2.669	10.6	18.7
2 11	10 52.85	+16 54.0	1.693	2.646	6.9	18.5
2 21	10 43.75	+17 58.4	1.644	2.623	3.8	18.2
3 2	10 33.60	+18 56.5	1.623	2.599	4.8	18.2
3 12	10 23.61	+19 40.9	1.630	2.575	8.6	18.4
3 22	10 14.95	+20 6.8	1.664	2.550	12.7	18.6
4 1	10 8.55	+20 12.6	1.719	2.525	16.3	18.8

424004 2006 WU_{52} 2 27.1 68.°70 2.°0/25.5 18

1 22	11 3.45	+11 22.1	1.662	2.485	15.3	21.6
2 1	10 58.98	+11 59.4	1.593	2.493	11.5	21.4
2 11	10 52.03	+12 46.7	1.546	2.501	7.3	21.2
2 21	10 43.33	+13 37.7	1.526	2.510	3.0	20.9
3 2	10 33.94	+14 25.1	1.534	2.518	3.3	21.0
3 12	10 25.10	+15 2.2	1.569	2.527	7.6	21.2
3 22	10 17.86	+15 24.7	1.629	2.535	11.7	21.5
4 1	10 12.96	+15 30.8	1.712	2.544	15.2	21.7

386523 2009 BL_{159} 2 27.1 96.°64 0.°3/27.5 18

1 22	10 57.46	+ 4 3.6	2.346	3.138	12.3	21.2
2 1	10 53.82	+ 4 49.3	2.260	3.142	9.5	21.0
2 11	10 48.47	+ 5 48.4	2.199	3.145	6.1	20.8
2 21	10 41.91	+ 6 57.0	2.166	3.149	2.5	20.5
3 2	10 34.83	+ 8 9.7	2.163	3.152	1.4	20.5
3 12	10 28.02	+ 9 20.4	2.189	3.155	5.1	20.7
3 22	10 22.20	+10 23.7	2.244	3.159	8.5	20.9
4 1	10 17.95	+11 15.8	2.324	3.162	11.5	21.1

96831 1999 RU_{194} 2 27.1 196.°28 5.°3/ 3.8 18

1 22	11 0.66	−10 20.7	2.427	3.140	14.1	20.1
2 1	10 56.28	−10 33.0	2.327	3.138	11.9	19.9
2 11	10 50.09	−10 25.9	2.248	3.135	9.3	19.8
2 21	10 42.57	− 9 59.0	2.194	3.132	6.8	19.6
3 2	10 34.40	− 9 13.9	2.168	3.129	5.3	19.5
3 12	10 26.44	− 8 14.6	2.170	3.125	6.1	19.5
3 22	10 19.45	− 7 6.8	2.201	3.120	8.4	19.7
4 1	10 14.08	− 5 56.9	2.258	3.115	11.1	19.8

119598 2001 WT_{11} 2 27.1 3.°06 9.°0/19.2 18

1 22	11 1.98	+27 2.7	1.476	2.324	15.5	19.2
2 1	10 58.48	+28 42.0	1.420	2.323	12.4	19.0
2 11	10 52.01	+30 17.8	1.386	2.323	9.9	18.9
2 21	10 43.39	+31 37.7	1.376	2.324	9.1	18.8
3 2	10 33.91	+32 30.8	1.392	2.325	10.6	18.9
3 12	10 25.10	+32 51.1	1.430	2.327	13.5	19.1
3 22	10 18.24	+32 38.3	1.490	2.329	16.6	19.3
4 1	10 14.17	+31 56.2	1.568	2.333	19.3	19.5

155592 2000 CK 2 27.1 41.°94 2.°5/25.3 18

1 22	11 0.66	+ 8 50.9	1.200	2.041	18.8	19.8
2 1	10 57.67	+10 4.4	1.139	2.049	14.2	19.5
2 11	10 51.59	+11 37.1	1.099	2.058	8.9	19.3
2 21	10 43.26	+13 18.9	1.083	2.067	3.6	19.0
3 2	10 34.01	+14 57.0	1.092	2.076	4.2	19.1
3 12	10 25.46	+16 19.0	1.126	2.086	9.5	19.4
3 22	10 18.95	+17 17.2	1.183	2.097	14.5	19.7
4 1	10 15.36	+17 48.8	1.260	2.107	18.7	20.0

456445 2006 VB_{77} 2 27.1 13.°20 1.°5/28.3 18

1 22	10 58.72	+ 2 14.8	1.421	2.235	17.8	21.0
2 1	10 55.80	+ 2 35.0	1.347	2.238	13.9	20.8
2 11	10 50.23	+ 3 16.3	1.293	2.241	9.3	20.5
2 21	10 42.71	+ 4 14.9	1.264	2.244	4.3	20.2
3 2	10 34.34	+ 5 23.6	1.260	2.249	2.1	20.1
3 12	10 26.46	+ 6 33.2	1.282	2.254	7.0	20.4
3 22	10 20.22	+ 7 35.2	1.329	2.260	11.8	20.7
4 1	10 16.48	+ 8 23.3	1.398	2.267	15.9	21.0

58448 1996 HO_{25} 2 27.1 142.°61 4.°7/ 2.5 18

1 22	11 2.96	− 7 0.8	1.799	2.549	17.1	19.7
2 1	10 58.51	− 6 56.3	1.716	2.558	14.0	19.5
2 11	10 51.73	− 6 27.7	1.654	2.566	10.5	19.3
2 21	10 43.24	− 5 35.6	1.616	2.574	6.8	19.1
3 2	10 34.01	− 4 24.1	1.605	2.581	4.8	19.0
3 12	10 25.17	− 3 0.3	1.622	2.588	6.5	19.1
3 22	10 17.74	− 1 33.2	1.666	2.594	10.0	19.3
4 1	10 12.49	− 0 10.9	1.736	2.600	13.6	19.6

498241 2007 UY_{72} 2 27.1 173.°44 0.°3/26.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 0.40	+ 7 31.7	2.694	3.486	10.9	22.4
2 1	10 55.81	+ 7 59.9	2.606	3.488	8.3	22.3
2 11	10 49.63	+ 8 36.7	2.543	3.490	5.3	22.1
2 21	10 42.35	+ 9 18.8	2.509	3.492	2.0	21.9
3 2	10 34.59	+10 2.2	2.505	3.493	1.5	21.8
3 12	10 27.08	+10 42.6	2.532	3.494	4.8	22.0
3 22	10 20.47	+11 16.4	2.588	3.494	7.9	22.2
4 1	10 15.32	+11 41.1	2.669	3.494	10.6	22.4

217762 2000 QY_{119} 2 27.1 139.°06 0.°1/27.3 18

1 22	11 6.02	+ 7 20.3	2.317	3.105	12.6	20.3
2 1	11 0.21	+ 7 26.7	2.237	3.116	9.7	20.2
2 11	10 52.49	+ 7 42.0	2.182	3.127	6.2	20.0
2 21	10 43.46	+ 8 3.0	2.155	3.138	2.4	19.7
3 2	10 33.91	+ 8 25.9	2.159	3.148	1.5	19.7
3 12	10 24.76	+ 8 46.6	2.193	3.157	5.2	19.9
3 22	10 16.81	+ 9 1.7	2.256	3.166	8.7	20.2
4 1	10 10.66	+ 9 9.1	2.345	3.174	11.7	20.4

333126 2011 WY_{56} 2 27.1 201.°10 1.°3/28.8 17

1 22	10 57.13	+ 1 31.3	2.880	3.653	10.8	21.7
2 1	10 53.27	+ 1 51.4	2.785	3.651	8.4	21.5
2 11	10 48.00	+ 2 22.8	2.714	3.650	5.7	21.3
2 21	10 41.71	+ 3 3.6	2.671	3.648	2.8	21.1
3 2	10 34.99	+ 3 50.3	2.658	3.646	1.5	21.0
3 12	10 28.45	+ 4 38.9	2.676	3.644	4.1	21.2
3 22	10 22.70	+ 5 25.5	2.722	3.642	7.0	21.4
4 1	10 18.22	+ 6 6.5	2.795	3.639	9.6	21.6

236143 2005 UM_{96} 2 27.1 262.°12 1.°0/27.9 18

1 22	11 2.18	+ 2 56.9	1.455	2.264	17.7	20.8
2 1	10 58.57	+ 3 24.6	1.368	2.257	13.9	20.5
2 11	10 52.14	+ 4 13.7	1.303	2.250	9.2	20.3
2 21	10 43.51	+ 5 20.3	1.261	2.243	4.0	19.9
3 2	10 33.81	+ 6 36.9	1.246	2.235	2.0	19.8
3 12	10 24.45	+ 7 53.9	1.258	2.228	7.4	20.1
3 22	10 16.73	+ 9 2.0	1.294	2.220	12.5	20.3
4 1	10 11.64	+ 9 54.6	1.353	2.212	16.9	20.6

297392 2000 QG_{108} 2 27.1 170.°56 0.°1/27.0 17

1 22	10 57.95	+ 5 49.6	3.098	3.882	9.8	21.9
2 1	10 53.77	+ 6 34.0	3.008	3.886	7.5	21.8
2 11	10 48.25	+ 7 27.7	2.944	3.889	4.8	21.6
2 21	10 41.80	+ 8 27.2	2.909	3.892	1.8	21.4
3 2	10 34.94	+ 9 28.7	2.906	3.894	1.2	21.3
3 12	10 28.29	+10 27.9	2.934	3.896	4.2	21.6
3 22	10 22.38	+11 20.9	2.991	3.897	7.0	21.7
4 1	10 17.68	+12 5.0	3.076	3.898	9.4	21.9

365099 2009 BZ_{158} 2 27.1 323.°73 0.°5/27.5 18

1 22	11 0.51	+ 5 16.2	1.364	2.188	17.9	21.3
2 1	10 57.48	+ 5 31.4	1.279	2.177	14.0	21.0
2 11	10 51.53	+ 6 5.3	1.214	2.166	9.2	20.7
2 21	10 43.31	+ 6 54.0	1.172	2.155	3.8	20.4
3 2	10 33.95	+ 7 50.3	1.156	2.145	2.1	20.2
3 12	10 24.94	+ 8 45.3	1.166	2.136	7.7	20.5
3 22	10 17.64	+ 9 30.9	1.199	2.128	13.0	20.8
4 1	10 13.08	+10 1.4	1.254	2.120	17.6	21.0

207052 2004 XK_{53} 2 27.1 312.°00 4.°8/23.3 18

1 22	11 2.09	+15 53.4	1.431	2.273	16.2	20.2
2 1	10 58.59	+17 6.0	1.356	2.266	12.4	20.0
2 11	10 52.16	+18 28.5	1.303	2.259	8.1	19.7
2 21	10 43.52	+19 51.0	1.274	2.252	5.0	19.5
3 2	10 33.84	+21 2.3	1.272	2.246	6.3	19.6
3 12	10 24.63	+21 53.1	1.296	2.239	10.5	19.8
3 22	10 17.21	+22 18.6	1.343	2.233	14.8	20.0
4 1	10 12.53	+22 18.2	1.409	2.228	18.6	20.2

150524 2000 SY_{21} 2 27.1 308.°95 8.°9/ 6.5 18

1 22	10 55.11	−18 18.0	1.095	1.844	25.9	19.5
2 1	10 54.04	−17 40.6	1.007	1.836	22.6	19.2
2 11	10 49.71	−16 5.8	0.934	1.829	18.3	18.9
2 21	10 42.71	−13 27.3	0.878	1.821	13.5	18.6
3 2	10 34.30	− 9 48.4	0.845	1.814	9.5	18.4
3 12	10 26.24	− 5 27.8	0.836	1.808	9.8	18.3
3 22	10 20.16	− 0 54.6	0.854	1.802	14.2	18.5
4 1	10 17.31	+ 3 21.4	0.894	1.796	19.6	18.8

230376 2002 GV_{16} 2 27.1 274.°38 2.°4/24.9 17

1 22	11 1.57	+13 2.4	2.010	2.829	13.1	20.3
2 1	10 57.40	+13 46.3	1.917	2.816	10.0	20.1
2 11	10 51.03	+14 38.7	1.848	2.802	6.4	19.9
2 21	10 43.00	+15 33.9	1.806	2.788	3.0	19.6
3 2	10 34.18	+16 25.2	1.793	2.774	3.6	19.6
3 12	10 25.60	+17 6.4	1.808	2.760	7.3	19.8
3 22	10 18.24	+17 33.3	1.850	2.746	11.1	20.0
4 1	10 12.87	+17 43.7	1.914	2.731	14.5	20.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V
207937 3367 *T*-2			2 27.1 168°.76		0°.4/26.6 17	
	h m	° ′			°	m
1 22	10 58.78	+ 7 23.1	2.765	3.558	10.7	20.9
2 1	10 54.56	+ 8 2.8	2.678	3.561	8.1	20.8
2 11	10 48.83	+ 8 51.5	2.616	3.564	5.1	20.6
2 21	10 42.05	+ 9 45.7	2.583	3.566	1.9	20.4
3 2	10 34.81	+10 41.0	2.581	3.568	1.5	20.3
3 12	10 27.81	+11 32.7	2.609	3.570	4.7	20.6
3 22	10 21.67	+12 17.2	2.666	3.571	7.7	20.7
4 1	10 16.90	+12 51.7	2.749	3.572	10.4	20.9
189123 2001 WW_{70}			2 27.1 118°.49		0°.5/27.6 17	
1 22	11 0.99	+ 4 28.8	1.847	2.648	14.8	21.1
2 1	10 56.97	+ 4 58.3	1.765	2.650	11.5	20.9
2 11	10 50.72	+ 5 43.1	1.705	2.652	7.5	20.6
2 21	10 42.86	+ 6 39.3	1.672	2.654	3.1	20.3
3 2	10 34.29	+ 7 40.8	1.667	2.656	1.7	20.2
3 12	10 26.09	+ 8 40.5	1.690	2.658	6.1	20.5
3 22	10 19.22	+ 9 32.3	1.740	2.660	10.3	20.8
4 1	10 14.40	+10 11.7	1.814	2.661	13.9	21.0
87818 2000 SS_{157}			2 27.2 144°.90		2°.6/29.6 18	
1 22	11 0.64	− 1 15.7	1.977	2.752	14.9	20.0
2 1	10 56.57	− 1 5.5	1.890	2.754	11.9	19.8
2 11	10 50.41	− 0 37.2	1.825	2.756	8.3	19.6
2 21	10 42.74	+ 0 7.1	1.786	2.759	4.6	19.4
3 2	10 34.38	+ 1 3.1	1.775	2.760	2.7	19.2
3 12	10 26.35	+ 2 4.7	1.793	2.762	5.6	19.4
3 22	10 19.53	+ 3 5.3	1.838	2.764	9.4	19.6
4 1	10 14.63	+ 3 59.2	1.907	2.765	12.8	19.9
149756 2004 PC_{28}			2 27.2 311°.14		6°.8/ 2.6 17	
1 22	11 3.26	− 6 50.7	1.710	2.464	17.7	19.5
2 1	10 59.16	− 7 53.2	1.610	2.450	14.9	19.3
2 11	10 52.45	− 8 36.7	1.530	2.435	11.7	19.1
2 21	10 43.66	− 8 58.5	1.473	2.421	8.5	18.8
3 2	10 33.74	− 8 57.8	1.441	2.407	6.8	18.7
3 12	10 23.96	− 8 37.6	1.436	2.394	8.2	18.8
3 22	10 15.53	− 8 3.6	1.457	2.381	11.5	18.9
4 1	10 9.44	− 7 23.3	1.500	2.368	15.1	19.1
331398 2012 FH_{32}			2 27.2 64°.95		15°.7/18.4 16	
1 22	11 37.71	+52 23.2	1.686	2.430	18.3	19.8
2 1	11 25.32	+53 31.9	1.674	2.460	16.9	19.8
2 11	11 8.53	+54 8.8	1.682	2.489	15.9	19.8
2 21	10 49.40	+54 2.1	1.710	2.519	15.7	19.8
3 2	10 30.61	+53 7.2	1.760	2.549	16.3	19.9
3 12	10 14.62	+51 28.8	1.831	2.578	17.3	20.1
3 22	10 2.77	+49 17.2	1.921	2.607	18.6	20.3
4 1	9 55.42	+46 44.2	2.029	2.636	19.8	20.4
126098 2001 YE_{104}			2 27.2 51°.09		1°.2/26.3 18	
1 22	11 2.76	+ 7 31.4	1.231	2.064	18.9	19.1
2 1	10 59.04	+ 8 19.3	1.177	2.082	14.3	18.9
2 11	10 52.32	+ 9 25.1	1.144	2.100	9.0	18.6
2 21	10 43.51	+10 40.4	1.134	2.119	3.4	18.3
3 2	10 33.97	+11 54.9	1.151	2.138	3.0	18.4
3 12	10 25.26	+12 58.2	1.193	2.158	8.4	18.7
3 22	10 18.60	+13 43.7	1.258	2.178	13.3	19.1
4 1	10 14.80	+14 8.3	1.344	2.198	17.4	19.4
372933 2011 BC_{38}			2 27.2 39°.15		0°.1/27.2 18	
1 22	10 56.37	− 0 47.7	1.496	2.300	17.6	19.6
2 1	10 53.78	+ 1 17.8	1.430	2.318	13.5	19.4
2 11	10 48.81	+ 3 52.6	1.387	2.336	8.7	19.1
2 21	10 42.13	+ 6 47.0	1.371	2.354	3.4	18.9
3 2	10 34.80	+ 9 46.4	1.385	2.374	2.1	18.8
3 12	10 27.98	+12 35.2	1.428	2.393	7.3	19.2
3 22	10 22.70	+15 0.9	1.498	2.414	11.9	19.5
4 1	10 19.68	+16 56.8	1.592	2.434	15.7	19.8
304877 2007 RF_{158}			2 27.2 214°.02		3°.7/23.9 18	
1 22	11 6.33	+16 0.3	1.927	2.745	13.7	21.6
2 1	11 1.12	+16 57.7	1.840	2.738	10.4	21.4
2 11	10 53.46	+18 1.7	1.778	2.730	6.8	21.1
2 21	10 43.97	+19 5.2	1.744	2.721	3.9	20.9
3 2	10 33.62	+20 0.3	1.738	2.712	4.9	21.0
3 12	10 23.61	+20 40.3	1.761	2.701	8.5	21.2
3 22	10 15.01	+21 1.6	1.811	2.691	12.2	21.4
4 1	10 8.65	+21 3.4	1.882	2.679	15.4	21.6
88533 2001 QB_{183}			2 27.2 84°.35		3°.2/23.9 18	
1 22	11 1.19	+12 41.8	1.808	2.633	14.1	19.0
2 1	10 57.07	+14 7.9	1.747	2.650	10.6	18.8
2 11	10 50.73	+15 43.5	1.711	2.666	6.7	18.6
2 21	10 42.84	+17 20.3	1.703	2.683	3.5	18.4
3 2	10 34.38	+18 48.9	1.723	2.699	4.5	18.5
3 12	10 26.42	+20 1.6	1.772	2.716	8.1	18.8
3 22	10 19.91	+20 53.9	1.846	2.732	11.7	19.0
4 1	10 15.51	+21 24.5	1.942	2.748	14.7	19.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
73214 2002 JQ_{22}			2 27.2 280°.58		0°.6/26.7 18	
	h m	° ′			°	m
1 22	11 2.00	+ 7 6.9	1.601	2.418	16.0	20.1
2 1	10 58.32	+ 7 41.5	1.506	2.401	12.4	19.8
2 11	10 51.95	+ 8 32.6	1.432	2.384	8.0	19.5
2 21	10 43.48	+ 9 35.4	1.383	2.367	3.1	19.2
3 2	10 33.90	+10 42.3	1.362	2.350	2.4	19.1
3 12	10 24.54	+11 44.6	1.367	2.333	7.6	19.4
3 22	10 16.63	+12 35.0	1.399	2.315	12.5	19.6
4 1	10 11.18	+13 8.6	1.452	2.298	16.7	19.8
81393 2000 GL_{81}			2 27.2 234°.14		4°.8/22.4 18	
1 22	11 6.03	+21 10.6	2.246	3.063	12.0	20.8
2 1	11 0.64	+22 8.1	2.155	3.049	9.3	20.6
2 11	10 53.04	+23 7.3	2.090	3.035	6.5	20.4
2 21	10 43.79	+24 1.3	2.053	3.020	4.8	20.3
3 2	10 33.76	+24 43.4	2.046	3.004	5.9	20.3
3 12	10 24.00	+25 8.3	2.067	2.987	8.6	20.4
3 22	10 15.48	+25 13.7	2.114	2.970	11.7	20.6
4 1	10 8.95	+25 0.0	2.184	2.953	14.4	20.8
342999 2009 BP_{72}			2 27.2 17°.94		0°.3/27.5 17	
1 22	10 57.72	+ 4 36.0	1.981	2.785	13.9	21.1
2 1	10 54.34	+ 5 12.6	1.900	2.787	10.7	20.9
2 11	10 48.97	+ 6 3.9	1.842	2.790	6.9	20.7
2 21	10 42.19	+ 7 5.6	1.811	2.794	2.8	20.4
3 2	10 34.79	+ 8 11.9	1.808	2.797	1.6	20.3
3 12	10 27.73	+ 9 15.9	1.834	2.801	5.7	20.6
3 22	10 21.85	+10 11.7	1.887	2.806	9.6	20.8
4 1	10 17.81	+10 55.2	1.963	2.810	13.0	21.1
168396 1998 BN_{31}			2 27.2 69°.60		1°.9/28.9 18	
1 22	11 2.20	+ 2 2.1	2.194	2.973	13.5	19.8
2 1	10 57.45	+ 1 53.8	2.115	2.984	10.6	19.6
2 11	10 50.82	+ 1 58.2	2.058	2.994	7.2	19.4
2 21	10 42.87	+ 2 13.3	2.029	3.005	3.7	19.2
3 2	10 34.38	+ 2 36.1	2.029	3.016	2.1	19.1
3 12	10 26.27	+ 3 2.1	2.058	3.026	5.1	19.3
3 22	10 19.32	+ 3 27.3	2.115	3.037	8.5	19.5
4 1	10 14.15	+ 3 47.9	2.197	3.048	11.6	19.7
363960 2005 UT_{58}			2 27.2 210°.03		4°.3/ 2.9 18	
1 22	11 1.92	− 8 13.9	2.659	3.376	12.9	22.0
2 1	10 57.13	− 8 15.5	2.549	3.368	10.7	21.8
2 11	10 50.61	− 7 59.8	2.462	3.358	8.2	21.7
2 21	10 42.82	− 7 26.9	2.401	3.349	5.7	21.5
3 2	10 34.38	− 6 38.6	2.369	3.338	4.3	21.4
3 12	10 26.09	− 5 39.1	2.368	3.326	5.3	21.4
3 22	10 18.66	− 4 33.4	2.395	3.314	7.8	21.6
4 1	10 12.73	− 3 27.2	2.450	3.301	10.6	21.7
366965 2005 WN_{80}			2 27.2 82°.57		0°.9/26.4 18	
1 22	11 2.39	+ 8 25.4	1.857	2.667	14.4	21.5
2 1	10 57.92	+ 9 0.0	1.787	2.680	10.9	21.3
2 11	10 51.25	+ 9 46.1	1.740	2.692	6.9	21.1
2 21	10 43.07	+10 38.4	1.721	2.705	2.6	20.8
3 2	10 34.29	+11 30.6	1.729	2.717	2.2	20.8
3 12	10 26.00	+12 16.4	1.767	2.729	6.5	21.1
3 22	10 19.11	+12 51.0	1.831	2.742	10.4	21.4
4 1	10 14.30	+13 11.8	1.918	2.754	13.7	21.6
244581 2002 XR_{9}			2 27.2 93°.36		4°.3/ 2.6 18	
1 22	10 59.60	− 6 25.0	2.309	3.050	14.0	20.5
2 1	10 55.50	− 6 36.1	2.220	3.056	11.5	20.4
2 11	10 49.60	− 6 29.4	2.153	3.061	8.7	20.2
2 21	10 42.42	− 6 5.4	2.111	3.066	5.8	20.0
3 2	10 34.67	− 5 26.3	2.098	3.070	4.3	19.9
3 12	10 27.19	− 4 36.6	2.113	3.075	5.5	20.0
3 22	10 20.74	− 3 41.8	2.156	3.080	8.3	20.2
4 1	10 15.94	− 2 47.4	2.224	3.085	11.1	20.4
401198 2011 WS_{145}			2 27.2 130°.22		2°.3/29.0 18	
1 22	11 5.66	+ 0 46.0	1.823	2.602	15.9	21.3
2 1	11 0.48	+ 0 46.9	1.745	2.614	12.5	21.1
2 11	10 52.95	+ 1 4.7	1.689	2.625	8.6	20.9
2 21	10 43.75	+ 1 36.9	1.659	2.635	4.4	20.7
3 2	10 33.86	+ 2 19.3	1.658	2.645	2.5	20.6
3 12	10 24.43	+ 3 5.7	1.686	2.654	6.0	20.8
3 22	10 16.47	+ 3 50.0	1.740	2.663	10.0	21.1
4 1	10 10.71	+ 4 27.1	1.819	2.672	13.6	21.3
20155 Utewindolf			2 27.2 210°.28		0°.6/26.6 18	
1 22	11 5.26	+ 7 56.1	2.081	2.878	13.5	20.8
2 1	11 0.10	+ 8 28.6	1.985	2.871	10.4	20.5
2 11	10 52.72	+ 9 12.8	1.914	2.863	6.7	20.3
2 21	10 43.69	+10 4.2	1.871	2.854	2.5	20.0
3 2	10 33.87	+10 57.0	1.857	2.845	2.0	20.0
3 12	10 24.30	+11 45.2	1.873	2.834	6.3	20.2
3 22	10 15.95	+12 23.8	1.917	2.823	10.2	20.4
4 1	10 9.59	+12 49.6	1.986	2.812	13.7	20.6

255637 2006 QL_6 2 27.2 196°.94 0°.7/26.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 2.54	+ 6 56.0	2.269	3.063	12.7	21.9
2 1	10 57.83	+ 7 51.8	2.175	3.060	9.7	21.6
2 11	10 51.17	+ 9 0.4	2.107	3.056	6.1	21.4
2 21	10 43.06	+10 16.9	2.067	3.051	2.3	21.2
3 2	10 34.28	+11 35.1	2.058	3.045	2.0	21.1
3 12	10 25.73	+12 48.1	2.079	3.039	5.9	21.4
3 22	10 18.26	+13 50.6	2.129	3.031	9.5	21.6
4 1	10 12.55	+14 39.0	2.204	3.023	12.7	21.8

425498 2010 GZ_{105} 2 27.2 220°.50 4°.2/21.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.42	+22 8.1	2.844	3.661	9.8	21.6
2 1	10 56.67	+23 4.7	2.759	3.652	7.5	21.5
2 11	10 50.26	+24 1.7	2.701	3.643	5.4	21.3
2 21	10 42.67	+24 53.8	2.672	3.634	4.2	21.2
3 2	10 34.55	+25 35.9	2.672	3.624	5.1	21.3
3 12	10 26.67	+26 4.0	2.702	3.614	7.2	21.4
3 22	10 19.71	+26 16.4	2.758	3.604	9.6	21.5
4 1	10 14.24	+26 12.9	2.838	3.593	11.8	21.7

182520 2001 SU_{320} 2 27.2 191°.35 2°.2/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 59.93	− 1 15.8	1.961	2.738	15.0	20.7
2 1	10 56.10	− 0 46.1	1.871	2.738	11.9	20.5
2 11	10 50.18	+ 0 3.4	1.803	2.737	8.2	20.2
2 21	10 42.70	+ 1 9.9	1.761	2.736	4.3	20.0
3 2	10 34.52	+ 2 28.0	1.748	2.735	2.3	19.9
3 12	10 26.63	+ 3 50.4	1.763	2.734	5.6	20.1
3 22	10 19.93	+ 5 9.7	1.807	2.732	9.5	20.3
4 1	10 15.15	+ 6 19.3	1.874	2.730	13.1	20.5

125197 2001 UG_{127} 2 27.2 54°.65 9°.3/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.87	+26 14.4	1.314	2.161	17.1	19.6
2 1	11 2.41	+27 52.7	1.266	2.170	13.6	19.4
2 11	10 54.62	+29 27.0	1.240	2.180	10.5	19.2
2 21	10 44.47	+30 43.5	1.237	2.189	9.3	19.2
3 2	10 33.49	+31 30.6	1.259	2.199	10.8	19.3
3 12	10 23.44	+31 42.6	1.305	2.209	13.9	19.5
3 22	10 15.71	+31 20.6	1.371	2.220	17.2	19.7
4 1	10 11.15	+30 29.6	1.455	2.230	20.2	20.0

467273 2016 EF_{189} 2 27.2 321°.86 4°.8/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.07	− 4 33.6	1.665	2.436	17.4	21.4
2 1	10 57.39	− 4 52.5	1.575	2.432	14.3	21.1
2 11	10 51.23	− 4 49.4	1.506	2.428	10.6	20.9
2 21	10 43.18	− 4 24.3	1.461	2.424	6.8	20.7
3 2	10 34.22	− 3 39.9	1.441	2.420	4.8	20.5
3 12	10 25.55	− 2 42.3	1.448	2.416	6.9	20.6
3 22	10 18.30	− 1 39.4	1.481	2.413	10.8	20.8
4 1	10 13.34	− 0 39.1	1.538	2.410	14.6	21.1

107912 2001 FD_{100} 2 27.2 334°.46 0°.4/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 0.19	+ 6 48.6	1.416	2.242	17.2	19.8
2 1	10 57.10	+ 7 17.0	1.334	2.235	13.3	19.5
2 11	10 51.23	+ 8 2.8	1.273	2.227	8.6	19.3
2 21	10 43.22	+ 9 0.7	1.237	2.221	3.3	18.9
3 2	10 34.20	+10 2.9	1.226	2.215	2.3	18.8
3 12	10 25.57	+11 0.2	1.241	2.209	7.8	19.1
3 22	10 18.60	+11 45.1	1.281	2.204	12.8	19.4
4 1	10 14.26	+12 13.0	1.342	2.200	17.1	19.7

130858 2000 UJ_{79} 2 27.2 194°.61 2°.5/24.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.13	+13 5.0	2.057	2.866	13.2	20.1
2 1	11 0.76	+13 52.0	1.971	2.864	10.0	19.9
2 11	10 53.13	+14 46.8	1.909	2.861	6.4	19.7
2 21	10 43.85	+15 43.6	1.876	2.857	3.0	19.5
3 2	10 33.83	+16 35.6	1.872	2.852	3.6	19.5
3 12	10 24.14	+17 16.8	1.898	2.847	7.2	19.7
3 22	10 15.76	+17 43.3	1.951	2.841	10.9	19.9
4 1	10 9.46	+17 53.6	2.027	2.834	14.1	20.1

122742 2000 SC_{54} 2 27.2 194°.24 1°.2/28.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.93	+ 2 54.6	2.142	2.927	13.6	20.8
2 1	10 57.43	+ 3 11.5	2.051	2.925	10.6	20.6
2 11	10 50.94	+ 3 42.3	1.983	2.924	7.1	20.3
2 21	10 42.99	+ 4 24.3	1.942	2.922	3.3	20.1
3 2	10 34.37	+ 5 13.1	1.931	2.919	1.6	20.0
3 12	10 26.03	+ 6 3.0	1.949	2.917	5.4	20.2
3 22	10 18.82	+ 6 48.8	1.994	2.914	9.1	20.4
4 1	10 13.44	+ 7 26.2	2.065	2.911	12.5	20.6

56487 2000 GR_{126} 2 27.2 260°.91 4°.3/23.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.63	+14 19.4	1.566	2.400	15.5	18.7
2 1	10 58.91	+15 44.1	1.480	2.387	11.8	18.5
2 11	10 52.40	+17 21.6	1.417	2.373	7.7	18.2
2 21	10 43.70	+19 2.6	1.380	2.359	4.5	18.0
3 2	10 33.89	+20 35.6	1.371	2.345	5.9	18.0
3 12	10 24.37	+21 50.1	1.389	2.330	10.1	18.2
3 22	10 16.43	+22 39.9	1.430	2.316	14.4	18.4
4 1	10 11.06	+23 3.0	1.492	2.301	18.2	18.6

309324 2007 SA_5 2 27.2 120°.48 0°.4/26.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 4.48	+ 6 1.2	1.862	2.662	14.8	21.8
2 1	10 59.48	+ 6 48.2	1.793	2.679	11.3	21.6
2 11	10 52.25	+ 7 49.4	1.747	2.696	7.2	21.4
2 21	10 43.48	+ 8 59.2	1.728	2.712	2.7	21.1
3 2	10 34.11	+10 10.6	1.739	2.727	1.9	21.1
3 12	10 25.25	+11 16.1	1.779	2.742	6.3	21.4
3 22	10 17.83	+12 10.1	1.846	2.756	10.3	21.7
4 1	10 12.54	+12 49.3	1.937	2.770	13.7	21.9

372640 2009 VL_{108} 2 27.2 175°.84 7°.3/ 6.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.96	−17 14.5	2.542	3.203	14.7	21.4
2 1	10 57.27	−17 45.6	2.444	3.205	12.8	21.2
2 11	10 50.76	−17 55.5	2.365	3.207	10.7	21.1
2 21	10 42.91	−17 42.3	2.311	3.208	8.7	20.9
3 2	10 34.43	−17 6.1	2.282	3.209	7.4	20.9
3 12	10 26.15	−16 10.2	2.281	3.209	7.5	20.9
3 22	10 18.84	−14 59.9	2.307	3.209	8.9	21.0
4 1	10 13.16	−13 41.9	2.360	3.208	11.0	21.1

465417 2008 KR_{41} 2 27.2 297°.85 11°.0/14.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.65	+34 50.4	1.757	2.587	14.2	20.8
2 1	10 59.74	+37 11.7	1.706	2.584	12.2	20.7
2 11	10 52.90	+39 23.4	1.679	2.580	11.1	20.6
2 21	10 43.86	+41 12.7	1.678	2.576	11.4	20.6
3 2	10 33.84	+42 28.8	1.701	2.573	12.9	20.7
3 12	10 24.33	+43 6.8	1.746	2.569	15.1	20.8
3 22	10 16.65	+43 7.5	1.811	2.566	17.3	20.9
4 1	10 11.74	+42 35.4	1.891	2.563	19.3	21.1

246129 2007 LT_{25} 2 27.2 178°.82 1°.0/28.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 59.16	+ 2 13.0	2.271	3.055	13.0	21.0
2 1	10 55.22	+ 2 47.8	2.181	3.055	10.1	20.8
2 11	10 49.47	+ 3 37.4	2.115	3.056	6.7	20.6
2 21	10 42.42	+ 4 38.5	2.076	3.056	3.0	20.3
3 2	10 34.78	+ 5 46.1	2.067	3.056	1.5	20.2
3 12	10 27.41	+ 6 54.2	2.088	3.056	5.1	20.4
3 22	10 21.06	+ 7 57.0	2.136	3.055	8.6	20.7
4 1	10 16.37	+ 8 50.0	2.210	3.055	11.8	20.9

221077 2005 SP_{20} 2 27.2 155°.33 0°.5/27.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.26	+ 4 6.4	2.494	3.274	12.1	21.9
2 1	10 57.33	+ 4 41.2	2.409	3.283	9.3	21.7
2 11	10 50.70	+ 5 27.9	2.350	3.292	6.0	21.5
2 21	10 42.87	+ 6 23.1	2.319	3.300	2.5	21.3
3 2	10 34.53	+ 7 22.1	2.318	3.307	1.3	21.2
3 12	10 26.49	+ 8 19.7	2.349	3.314	4.8	21.5
3 22	10 19.47	+ 9 11.2	2.408	3.320	8.2	21.7
4 1	10 14.03	+ 9 53.2	2.493	3.325	11.0	21.9

211555 2003 SM_{57} 2 27.2 111°.00 1°.3/26.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.23	+ 9 58.5	1.727	2.539	15.3	20.7
2 1	11 1.00	+10 29.0	1.659	2.552	11.6	20.4
2 11	10 53.32	+11 10.0	1.613	2.565	7.3	20.2
2 21	10 43.93	+11 55.8	1.594	2.578	2.8	20.0
3 2	10 33.89	+12 39.7	1.604	2.590	2.7	20.0
3 12	10 24.42	+13 15.3	1.642	2.602	7.1	20.3
3 22	10 16.56	+13 38.6	1.706	2.614	11.2	20.5
4 1	10 11.05	+13 47.3	1.793	2.625	14.7	20.8

360276 2000 SD_{302} 2 27.2 123°.70 3°.1/24.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 9.65	+15 16.6	1.782	2.597	14.7	21.5
2 1	11 3.52	+15 51.9	1.716	2.612	11.1	21.2
2 11	10 54.88	+16 32.2	1.674	2.626	7.1	21.0
2 21	10 44.52	+17 11.1	1.659	2.639	3.6	20.9
3 2	10 33.54	+17 41.6	1.674	2.652	4.2	20.9
3 12	10 23.22	+17 58.6	1.717	2.665	8.0	21.2
3 22	10 14.61	+17 59.9	1.786	2.677	11.7	21.4
4 1	10 8.43	+17 45.3	1.878	2.688	15.0	21.6

358074 2006 HD_{112} 2 27.2 357°.68 2°.9/25.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.30	+12 0.3	1.195	2.042	18.4	20.2
2 1	10 58.37	+12 40.4	1.126	2.039	14.0	19.9
2 11	10 52.22	+13 34.1	1.078	2.037	8.9	19.6
2 21	10 43.66	+14 33.1	1.052	2.036	3.9	19.3
3 2	10 34.03	+15 26.9	1.051	2.036	4.5	19.3
3 12	10 25.01	+16 5.9	1.075	2.036	9.7	19.6
3 22	10 18.05	+16 24.6	1.121	2.038	14.8	19.9
4 1	10 14.12	+16 20.9	1.186	2.040	19.2	20.2

507180 2010 JT_{77} 2 27.2 200°.42 3°.6/ 3.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 58.22	− 8 30.0	3.324	4.033	10.7	22.8
2 1	10 53.99	− 8 27.2	3.216	4.029	8.9	22.7
2 11	10 48.45	− 8 10.2	3.132	4.024	6.8	22.5
2 21	10 41.98	− 7 39.5	3.074	4.018	4.8	22.4
3 2	10 35.08	− 6 56.9	3.046	4.012	3.6	22.3
3 12	10 28.31	− 6 5.4	3.048	4.005	4.4	22.3
3 22	10 22.21	− 5 8.9	3.080	3.998	6.3	22.4
4 1	10 17.24	− 4 11.7	3.139	3.990	8.5	22.6

474079 2016 JG_{35} 2 27.2 306°.49 7°.3/18.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	10 58.44	+22 11.0	1.799	2.642	13.4	20.5
2 1	10 55.50	+24 41.2	1.724	2.630	10.5	20.2
2 11	10 50.11	+27 17.6	1.676	2.618	8.0	20.1
2 21	10 42.81	+29 47.6	1.656	2.607	7.5	20.0
3 2	10 34.52	+31 58.0	1.664	2.596	9.3	20.1
3 12	10 26.46	+33 39.2	1.698	2.585	12.3	20.2
3 22	10 19.77	+34 46.8	1.756	2.574	15.4	20.4
4 1	10 15.35	+35 21.3	1.831	2.563	18.1	20.6

495890 2004 TM_{276} 2 27.2 187°.83 3°.8/ 2.8 17

1 22	11 0.44	− 7 28.8	2.690	3.414	12.6	22.4
2 1	10 55.95	− 7 20.4	2.589	3.413	10.4	22.2
2 11	10 49.84	− 6 54.8	2.510	3.412	7.9	22.0
2 21	10 42.56	− 6 12.8	2.458	3.410	5.3	21.9
3 2	10 34.73	− 5 16.8	2.435	3.407	3.8	21.7
3 12	10 27.09	− 4 11.2	2.442	3.404	5.0	21.8
3 22	10 20.32	− 3 1.3	2.479	3.400	7.5	22.0
4 1	10 14.99	− 1 52.6	2.542	3.396	10.2	22.1

267761 2003 OQ_{16} 2 27.2 212°.67 0°.7/28.1 17

1 22	11 0.20	+ 2 38.9	2.902	3.672	10.8	22.0
2 1	10 55.68	+ 3 17.5	2.795	3.663	8.4	21.8
2 11	10 49.63	+ 4 8.1	2.714	3.652	5.6	21.6
2 21	10 42.47	+ 5 8.0	2.662	3.641	2.5	21.4
3 2	10 34.77	+ 6 13.2	2.641	3.630	1.2	21.3
3 12	10 27.21	+ 7 18.8	2.651	3.617	4.3	21.5
3 22	10 20.42	+ 8 20.3	2.692	3.604	7.4	21.7
4 1	10 14.96	+ 9 14.1	2.759	3.590	10.1	21.8

285016 2011 CZ_{7} 2 27.2 233°.02 2°.3/24.4 17

1 22	10 59.18	+ 8 27.1	2.059	2.870	13.2	20.4
2 1	10 55.56	+10 17.9	1.968	2.863	9.9	20.2
2 11	10 49.89	+12 25.1	1.903	2.857	6.2	20.0
2 21	10 42.66	+14 41.0	1.867	2.850	2.7	19.7
3 2	10 34.65	+16 55.6	1.863	2.843	3.7	19.8
3 12	10 26.85	+18 58.6	1.889	2.835	7.5	20.0
3 22	10 20.16	+20 42.5	1.943	2.828	11.2	20.2
4 1	10 15.32	+22 3.1	2.020	2.820	14.4	20.4

400295 2007 TL_{111} 2 27.2 108°.48 2°.5/25.4 18

1 22	11 10.83	+14 8.9	1.749	2.561	15.1	21.0
2 1	11 4.39	+14 30.3	1.685	2.579	11.4	20.8
2 11	10 55.42	+14 57.3	1.645	2.597	7.2	20.6
2 21	10 44.72	+15 23.9	1.632	2.614	3.3	20.4
3 2	10 33.46	+15 44.0	1.648	2.630	3.6	20.4
3 12	10 22.92	+15 52.7	1.693	2.647	7.6	20.7
3 22	10 14.14	+15 48.1	1.765	2.662	11.5	21.0
4 1	10 7.85	+15 29.8	1.859	2.677	14.8	21.2

5288 Nankichi 2 27.2 54°.02 7°.4/ 3.9 18

1 22	11 3.44	− 9 53.9	1.667	2.407	18.6	16.6
2 1	10 59.10	−10 46.4	1.592	2.419	15.7	16.4
2 11	10 52.25	−11 14.7	1.537	2.431	12.4	16.2
2 21	10 43.58	−11 16.6	1.504	2.443	9.2	16.0
3 2	10 34.13	−10 53.1	1.496	2.455	7.4	16.0
3 12	10 25.12	−10 9.0	1.514	2.468	8.2	16.0
3 22	10 17.65	− 9 12.0	1.558	2.481	10.9	16.2
4 1	10 12.53	− 8 10.5	1.625	2.494	14.1	16.4

159094 2004 TL_{303} 2 27.2 143°.60 0°.4/27.6 18 R

1 22	11 1.08	+ 4 44.4	2.165	2.958	13.2	20.9
2 1	10 56.73	+ 5 13.3	2.082	2.963	10.2	20.7
2 11	10 50.47	+ 5 55.2	2.023	2.968	6.6	20.5
2 21	10 42.84	+ 6 46.3	1.991	2.973	2.7	20.2
3 2	10 34.62	+ 7 41.5	1.988	2.977	1.4	20.2
3 12	10 26.73	+ 8 35.1	2.015	2.981	5.4	20.4
3 22	10 19.98	+ 9 22.0	2.069	2.985	9.1	20.7
4 1	10 15.00	+ 9 58.5	2.149	2.989	12.3	20.9

235676 2004 RZ_{287} 2 27.2 77°.53 2°.8/ 1.1 18

1 22	11 0.71	− 3 10.8	1.976	2.743	15.2	21.0
2 1	10 56.48	− 2 43.5	1.909	2.766	12.1	20.8
2 11	10 50.28	− 1 56.4	1.863	2.790	8.5	20.7
2 21	10 42.74	− 0 52.4	1.843	2.813	4.8	20.5
3 2	10 34.72	+ 0 23.0	1.852	2.836	2.8	20.4
3 12	10 27.17	+ 1 42.7	1.890	2.859	5.3	20.6
3 22	10 20.89	+ 2 59.6	1.955	2.882	8.9	20.9
4 1	10 16.49	+ 4 7.8	2.046	2.904	12.1	21.1

268554 2006 BQ_{28} 2 27.2 163°.38 1°.4/25.7 18

1 22	11 0.77	+ 9 26.8	2.293	3.098	12.2	21.3
2 1	10 56.43	+10 22.0	2.211	3.103	9.2	21.1
2 11	10 50.24	+11 27.2	2.155	3.106	5.8	20.9
2 21	10 42.75	+12 37.3	2.126	3.110	2.3	20.7
3 2	10 34.69	+13 46.2	2.128	3.112	2.5	20.7
3 12	10 26.93	+14 47.7	2.159	3.115	6.0	20.9
3 22	10 20.25	+15 37.5	2.218	3.117	9.4	21.1
4 1	10 15.26	+16 12.8	2.302	3.119	12.3	21.3

182413 2001 RL_{66} 2 27.2 200°.39 3°.2/ 1.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 1.21	− 4 18.9	2.282	3.032	13.9	21.3
2 1	10 56.85	− 4 3.5	2.182	3.028	11.3	21.1
2 11	10 50.59	− 3 29.7	2.105	3.024	8.2	20.9
2 21	10 42.92	− 2 38.7	2.055	3.019	5.0	20.7
3 2	10 34.58	− 1 34.1	2.033	3.014	3.2	20.6
3 12	10 26.45	− 0 21.6	2.041	3.008	5.3	20.7
3 22	10 19.35	+ 0 52.5	2.078	3.002	8.6	20.9
4 1	10 13.95	+ 2 2.0	2.140	2.995	11.7	21.0

364725 2007 VG_{95} 2 27.2 98°.09 0°.1/27.3 18

1 22	11 6.68	+ 7 3.3	1.660	2.466	16.1	20.9
2 1	11 1.45	+ 7 12.8	1.590	2.478	12.3	20.7
2 11	10 53.68	+ 7 34.9	1.542	2.490	7.9	20.5
2 21	10 44.13	+ 8 5.5	1.519	2.502	3.1	20.2
3 2	10 33.88	+ 8 38.9	1.525	2.514	1.9	20.1
3 12	10 24.22	+ 9 8.8	1.559	2.526	6.7	20.5
3 22	10 16.21	+ 9 30.6	1.620	2.537	11.0	20.8
4 1	10 10.61	+ 9 41.2	1.703	2.548	14.7	21.0

149990 2005 UM_{68} 2 27.2 161°.31 3°.0/24.1 18

1 22	11 0.09	+12 9.9	1.877	2.700	13.7	19.8
2 1	10 56.37	+13 31.9	1.799	2.701	10.3	19.6
2 11	10 50.43	+15 5.0	1.747	2.702	6.5	19.4
2 21	10 42.89	+16 41.7	1.722	2.703	3.3	19.2
3 2	10 34.62	+18 12.8	1.726	2.704	4.3	19.2
3 12	10 26.71	+19 30.2	1.758	2.704	8.0	19.4
3 22	10 20.10	+20 28.3	1.816	2.705	11.7	19.7
4 1	10 15.53	+21 5.0	1.897	2.705	14.9	19.9

412094 2013 FV_{20} 2 27.2 267°.59 1°.5/28.4 17

1 22	11 0.73	+ 1 19.5	1.604	2.404	16.8	21.8
2 1	10 57.28	+ 1 51.5	1.513	2.395	13.2	21.6
2 11	10 51.27	+ 2 45.2	1.444	2.387	8.9	21.3
2 21	10 43.30	+ 3 57.3	1.399	2.379	4.2	21.0
3 2	10 34.34	+ 5 20.9	1.381	2.370	2.0	20.8
3 12	10 25.66	+ 6 46.7	1.391	2.361	6.7	21.1
3 22	10 18.42	+ 8 5.6	1.427	2.353	11.5	21.3
4 1	10 13.54	+ 9 10.6	1.485	2.344	15.7	21.6

188009 2001 TN_{56} 2 27.2 93°.94 6°.9/ 5.1 18

1 22	11 1.79	−13 3.9	1.959	2.670	17.1	20.0
2 1	10 57.49	−13 25.7	1.881	2.686	14.5	19.8
2 11	10 51.06	−13 22.5	1.823	2.701	11.6	19.7
2 21	10 43.11	−12 53.2	1.787	2.716	8.8	19.5
3 2	10 34.52	−11 59.8	1.777	2.731	7.0	19.5
3 12	10 26.33	−10 47.7	1.795	2.746	7.5	19.5
3 22	10 19.45	− 9 24.8	1.840	2.760	9.7	19.7
4 1	10 14.57	− 7 59.5	1.909	2.774	12.5	19.9

232311 2002 TD_{37} 2 27.2 107°.27 3°.7/ 1.0 18

1 22	11 3.37	− 2 37.7	1.431	2.219	19.1	20.7
2 1	10 59.43	− 2 32.7	1.355	2.225	15.3	20.4
2 11	10 52.68	− 2 2.6	1.298	2.231	10.9	20.2
2 21	10 43.84	− 1 9.1	1.265	2.237	6.2	19.9
3 2	10 34.07	+ 0 2.1	1.258	2.243	3.7	19.8
3 12	10 24.80	+ 1 21.8	1.277	2.249	7.1	20.0
3 22	10 17.27	+ 2 40.0	1.322	2.254	11.7	20.3
4 1	10 12.37	+ 3 48.3	1.389	2.260	15.9	20.5

127097 2002 GB_{84} 2 27.2 182°.53 0°.2/27.5 18

1 22	10 59.85	+ 4 14.4	2.432	3.218	12.1	20.4
2 1	10 55.66	+ 4 59.4	2.341	3.219	9.3	20.2
2 11	10 49.74	+ 5 57.4	2.275	3.219	6.1	20.0
2 21	10 42.58	+ 7 4.7	2.236	3.219	2.4	19.8
3 2	10 34.86	+ 8 16.1	2.229	3.218	1.4	19.7
3 12	10 27.37	+ 9 25.5	2.252	3.217	5.0	19.9
3 22	10 20.86	+10 27.9	2.303	3.215	8.5	20.1
4 1	10 15.91	+11 19.4	2.380	3.213	11.5	20.3

101641 1999 CU_{48} 2 27.2 15°.90 2°.7/25.2 18

1 22	11 0.17	+11 48.6	1.325	2.168	17.3	18.4
2 1	10 57.12	+12 32.2	1.261	2.172	13.0	18.2
2 11	10 51.22	+13 28.0	1.219	2.178	8.2	17.9
2 21	10 43.25	+14 28.1	1.201	2.184	3.6	17.6
3 2	10 34.46	+15 23.0	1.208	2.192	4.2	17.7
3 12	10 26.30	+16 4.2	1.240	2.200	8.9	18.0
3 22	10 19.99	+16 26.7	1.296	2.210	13.5	18.3
4 1	10 16.37	+16 28.7	1.372	2.220	17.4	18.5

358094 2006 KU_{3} 2 27.2 162°.28 3°.0/24.4 18

1 22	11 6.91	+14 52.4	2.101	2.911	13.0	21.3
2 1	11 1.25	+15 43.6	2.025	2.919	9.8	21.1
2 11	10 53.40	+16 40.7	1.975	2.925	6.3	20.9
2 21	10 44.02	+17 37.3	1.952	2.931	3.3	20.7
3 2	10 34.00	+18 26.8	1.960	2.936	4.0	20.8
3 12	10 24.42	+19 3.7	1.997	2.940	7.4	21.0
3 22	10 16.19	+19 24.8	2.061	2.944	10.8	21.2
4 1	10 10.00	+19 29.4	2.149	2.946	13.7	21.4

162152 1999 AV_{13} 2 27.2 147°.13 2°.8/ 1.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 1.88	− 1 49.9	2.477	3.233	12.8	20.8
2 1	10 57.12	− 1 58.1	2.387	3.238	10.2	20.6
2 11	10 50.63	− 1 52.4	2.321	3.244	7.3	20.4
2 21	10 42.92	− 1 34.1	2.282	3.249	4.3	20.2
3 2	10 34.67	− 1 5.6	2.272	3.254	2.8	20.1
3 12	10 26.69	− 0 30.9	2.292	3.258	4.8	20.3
3 22	10 19.70	+ 0 5.8	2.340	3.263	7.8	20.5
4 1	10 14.29	+ 0 40.0	2.415	3.267	10.7	20.7

160531 1996 TB_{49} 2 27.2 80°.92 1°.5/25.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.27	+12 43.4	2.327	3.128	12.1	20.0
2 1	11 0.30	+13 0.3	2.268	3.156	9.1	19.9
2 11	10 52.52	+13 22.0	2.234	3.184	5.7	19.7
2 21	10 43.59	+13 44.4	2.229	3.211	2.4	19.5
3 2	10 34.32	+14 3.2	2.254	3.238	2.5	19.6
3 12	10 25.59	+14 15.0	2.310	3.265	5.7	19.8
3 22	10 18.14	+14 17.7	2.394	3.291	8.8	20.1
4 1	10 12.50	+14 10.3	2.502	3.317	11.5	20.3

284700 2008 SF_{271} 2 27.2 141°.01 3°.5/24.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.95	+13 42.6	1.647	2.471	15.3	21.2
2 1	11 1.05	+14 51.4	1.579	2.480	11.6	21.0
2 11	10 53.52	+16 9.7	1.534	2.488	7.4	20.7
2 21	10 44.12	+17 29.0	1.516	2.496	3.9	20.5
3 2	10 33.95	+18 39.8	1.527	2.504	4.8	20.6
3 12	10 24.33	+19 34.2	1.565	2.511	8.8	20.9
3 22	10 16.39	+20 7.9	1.628	2.517	12.7	21.1
4 1	10 10.93	+20 20.1	1.713	2.523	16.2	21.4

334523 2002 RU_{150} 2 27.2 164°.27 3°.1/ 1.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.69	− 3 15.4	2.584	3.330	12.6	21.5
2 1	10 56.93	− 3 22.9	2.490	3.334	10.1	21.3
2 11	10 50.50	− 3 16.2	2.421	3.338	7.4	21.2
2 21	10 42.87	− 2 56.2	2.378	3.341	4.6	21.0
3 2	10 34.71	− 2 25.3	2.365	3.344	3.1	20.9
3 12	10 26.79	− 1 47.2	2.381	3.346	4.8	21.0
3 22	10 19.81	− 1 6.3	2.427	3.349	7.6	21.2
4 1	10 14.35	− 0 27.0	2.499	3.350	10.4	21.4

238079 2003 FE_{90} 2 27.2 273°.89 0°.1/27.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.00	+ 8 21.0	2.449	3.243	11.8	20.3
2 1	10 58.03	+ 8 20.0	2.355	3.238	9.1	20.1
2 11	10 51.26	+ 8 26.5	2.286	3.233	5.9	19.9
2 21	10 43.18	+ 8 37.7	2.246	3.229	2.3	19.7
3 2	10 34.53	+ 8 50.4	2.235	3.224	1.4	19.6
3 12	10 26.14	+ 9 1.0	2.254	3.219	5.1	19.8
3 22	10 18.77	+ 9 6.7	2.302	3.214	8.5	20.0
4 1	10 13.04	+ 9 5.4	2.375	3.209	11.4	20.2

95310 2002 CP_{102} 2 27.2 152°.85 1°.1/26.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.18	+ 9 50.4	1.938	2.748	13.9	19.6
2 1	10 58.60	+10 13.1	1.856	2.749	10.6	19.4
2 11	10 51.82	+10 45.3	1.797	2.749	6.7	19.2
2 21	10 43.44	+11 22.5	1.765	2.749	2.6	18.9
3 2	10 34.37	+11 59.3	1.762	2.750	2.3	18.9
3 12	10 25.68	+12 29.9	1.788	2.750	6.5	19.2
3 22	10 18.32	+12 50.3	1.841	2.750	10.4	19.4
4 1	10 13.00	+12 58.2	1.916	2.750	13.8	19.6

245476 2005 NJ_{64} 2 27.2 151°.17 1°.5/25.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 58.11	+10 29.5	2.689	3.494	10.6	21.1
2 1	10 54.18	+11 30.0	2.607	3.499	7.9	21.0
2 11	10 48.71	+12 38.5	2.551	3.503	5.0	20.8
2 21	10 42.17	+13 50.3	2.525	3.508	2.1	20.6
3 2	10 35.16	+15 0.2	2.529	3.512	2.5	20.6
3 12	10 28.40	+16 2.9	2.564	3.515	5.4	20.8
3 22	10 22.52	+16 54.6	2.626	3.519	8.4	21.0
4 1	10 18.03	+17 32.9	2.714	3.522	10.9	21.2

72607 2001 FH_{17} 2 27.2 90°.77 0°.2/27.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.48	+ 7 7.4	2.057	2.859	13.5	19.5
2 1	10 57.14	+ 7 32.5	1.978	2.865	10.3	19.3
2 11	10 50.79	+ 8 8.9	1.922	2.871	6.6	19.1
2 21	10 43.01	+ 8 52.5	1.894	2.878	2.5	18.9
3 2	10 34.65	+ 9 38.1	1.895	2.884	1.7	18.8
3 12	10 26.66	+10 20.0	1.925	2.890	5.8	19.1
3 22	10 19.89	+10 53.8	1.982	2.896	9.5	19.3
4 1	10 14.99	+11 16.4	2.063	2.902	12.8	19.5

37989 1998 HZ_{153} 2 27.2 44°.10 4°.9/22.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.26	+18 59.0	1.808	2.641	13.8	18.6
2 1	10 58.10	+20 7.9	1.740	2.644	10.5	18.4
2 11	10 51.57	+21 20.5	1.697	2.648	7.1	18.2
2 21	10 43.35	+22 28.6	1.680	2.652	5.0	18.1
3 2	10 34.45	+23 23.7	1.691	2.655	6.2	18.1
3 12	10 26.02	+23 59.7	1.729	2.659	9.3	18.3
3 22	10 19.08	+24 14.0	1.791	2.664	12.7	18.5
4 1	10 14.37	+24 6.9	1.875	2.668	15.6	18.8

241078 2006 TB_{116} 2 27.2 229°.47 1°.4/25.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	10 59.23	+10 40.1	2.566	3.372	11.0	21.9
2 1	10 55.16	+11 24.8	2.474	3.365	8.3	21.7
2 11	10 49.42	+12 17.6	2.407	3.358	5.3	21.5
2 21	10 42.47	+13 14.3	2.368	3.351	2.1	21.2
3 2	10 34.98	+14 9.7	2.360	3.344	2.4	21.3
3 12	10 27.69	+14 58.7	2.382	3.337	5.6	21.5
3 22	10 21.32	+15 37.7	2.431	3.329	8.7	21.6
4 1	10 16.44	+16 4.3	2.506	3.321	11.5	21.8

153847 2001 XU_{42} 2 27.2 30°.62 9°.5/19.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.32	+29 32.7	1.525	2.365	15.5	19.3
2 1	11 0.93	+31 1.6	1.477	2.373	12.6	19.2
2 11	10 53.57	+32 22.9	1.452	2.381	10.2	19.0
2 21	10 44.15	+33 24.9	1.451	2.390	9.5	19.0
3 2	10 34.01	+33 58.4	1.475	2.400	10.8	19.1
3 12	10 24.70	+33 59.2	1.522	2.410	13.4	19.3
3 22	10 17.44	+33 28.7	1.591	2.421	16.2	19.5
4 1	10 12.99	+32 31.6	1.678	2.432	18.7	19.7

233604 2007 RT_{308} 2 27.2 357°.11 4°.9/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 52.56	− 5 35.1	1.413	2.207	18.9	19.0
2 1	10 51.26	− 5 36.9	1.331	2.201	15.5	18.8
2 11	10 47.49	− 5 10.3	1.268	2.196	11.6	18.5
2 21	10 41.86	− 4 16.0	1.226	2.192	7.4	18.3
3 2	10 35.34	− 2 58.3	1.209	2.190	5.0	18.1
3 12	10 29.18	− 1 26.4	1.217	2.190	7.1	18.3
3 22	10 24.49	+ 0 8.8	1.249	2.192	11.2	18.5
4 1	10 22.14	+ 1 36.8	1.304	2.195	15.3	18.7

90132 2002 XY_{85} 2 27.2 235°.46 3°.4/24.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 7.62	+14 22.0	1.664	2.485	15.3	19.9
2 1	11 2.59	+15 9.6	1.575	2.474	11.7	19.7
2 11	10 54.74	+16 6.3	1.508	2.462	7.6	19.4
2 21	10 44.71	+17 4.7	1.468	2.449	3.9	19.1
3 2	10 33.60	+17 56.1	1.457	2.436	4.7	19.2
3 12	10 22.81	+18 33.0	1.472	2.422	8.9	19.4
3 22	10 13.63	+18 50.8	1.514	2.407	13.3	19.6
4 1	10 7.04	+18 48.5	1.576	2.392	17.1	19.8

404165 2013 CP_{75} 2 27.2 313°.98 2°.0/26.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.85	+12 15.6	1.368	2.199	17.5	20.8
2 1	11 2.43	+12 24.9	1.286	2.190	13.5	20.5
2 11	10 54.83	+12 43.8	1.226	2.181	8.6	20.2
2 21	10 44.78	+13 6.4	1.189	2.173	3.5	19.9
3 2	10 33.58	+13 25.4	1.179	2.165	3.5	19.9
3 12	10 22.85	+13 34.1	1.194	2.157	8.8	20.2
3 22	10 14.05	+13 28.4	1.234	2.150	13.8	20.4
4 1	10 8.22	+13 7.0	1.294	2.143	18.2	20.7

499476 2010 JZ_{47} 2 27.2 200°.84 2°.1/24.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 59.06	+12 28.1	2.366	3.180	11.6	21.6
2 1	10 55.14	+13 21.9	2.283	3.180	8.7	21.4
2 11	10 49.45	+14 23.2	2.226	3.179	5.5	21.2
2 21	10 42.51	+15 26.9	2.197	3.179	2.6	21.0
3 2	10 35.00	+16 27.0	2.198	3.178	3.1	21.0
3 12	10 27.78	+17 18.1	2.228	3.177	6.3	21.2
3 22	10 21.57	+17 56.4	2.285	3.176	9.5	21.4
4 1	10 16.98	+18 19.9	2.366	3.176	12.3	21.6

521080 2015 DY_{240} 2 27.2 225°.46 3°.4/23.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 59.51	+15 41.3	2.291	3.113	11.6	21.1
2 1	10 55.60	+16 53.9	2.209	3.109	8.8	20.9
2 11	10 49.81	+18 12.8	2.153	3.105	5.7	20.7
2 21	10 42.67	+19 31.6	2.125	3.102	3.5	20.5
3 2	10 34.90	+20 43.3	2.127	3.098	4.5	20.6
3 12	10 27.40	+21 41.8	2.158	3.094	7.4	20.8
3 22	10 20.97	+22 23.4	2.215	3.090	10.5	20.9
4 1	10 16.25	+22 46.7	2.296	3.085	13.2	21.1

218678 2005 TE_{5} 2 27.2 166°.60 1°.6/28.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.70	+ 1 54.6	2.045	2.827	14.3	20.9
2 1	10 58.13	+ 2 5.8	1.958	2.830	11.2	20.7
2 11	10 51.49	+ 2 32.1	1.894	2.832	7.6	20.5
2 21	10 43.33	+ 3 10.7	1.856	2.834	3.7	20.3
3 2	10 34.50	+ 3 57.4	1.848	2.836	1.9	20.1
3 12	10 25.99	+ 4 46.4	1.868	2.837	5.5	20.4
3 22	10 18.69	+ 5 32.2	1.916	2.838	9.3	20.6
4 1	10 13.31	+ 6 10.2	1.989	2.839	12.7	20.8

173781 2001 SB_{61} 2 27.2 188°.07 1°.2/25.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 0.75	+11 4.9	2.890	3.688	10.1	21.3
2 1	10 56.08	+11 38.1	2.800	3.687	7.6	21.1
2 11	10 49.89	+12 17.5	2.736	3.686	4.8	20.9
2 21	10 42.65	+12 59.5	2.701	3.684	1.9	20.7
3 2	10 34.93	+13 40.0	2.697	3.682	2.1	20.7
3 12	10 27.45	+14 15.1	2.724	3.679	5.0	20.9
3 22	10 20.80	+14 41.8	2.780	3.676	7.8	21.1
4 1	10 15.53	+14 58.4	2.861	3.673	10.3	21.3

188095 2001 XL_{230} 2 27.2 171°.83 7°.1/19.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 4.91	+26 32.3	2.003	2.830	12.9	20.4
2 1	11 0.05	+27 59.4	1.939	2.832	10.2	20.3
2 11	10 52.81	+29 23.8	1.900	2.833	7.9	20.1
2 21	10 43.86	+30 36.4	1.888	2.834	7.1	20.1
3 2	10 34.20	+31 29.0	1.904	2.835	8.4	20.1
3 12	10 25.02	+31 56.6	1.946	2.836	10.8	20.3
3 22	10 17.33	+31 58.4	2.011	2.836	13.5	20.5
4 1	10 11.89	+31 36.3	2.097	2.836	15.9	20.6

304916 2007 RA_{295} 2 27.2 31°.05 1°.4/28.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.36	+ 3 25.1	1.232	2.056	19.5	20.9
2 1	10 58.14	+ 3 35.1	1.170	2.066	15.1	20.7
2 11	10 51.94	+ 4 6.2	1.128	2.077	10.0	20.4
2 21	10 43.58	+ 4 54.1	1.108	2.089	4.5	20.1
3 2	10 34.39	+ 5 51.0	1.113	2.102	2.2	20.0
3 12	10 25.88	+ 6 47.6	1.143	2.116	7.5	20.4
3 22	10 19.34	+ 7 35.4	1.198	2.130	12.6	20.7
4 1	10 15.61	+ 8 9.0	1.272	2.145	16.9	21.0

205866 2002 EB_{94} 2 27.2 39°.98 0°.5/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.58	+ 7 33.1	1.242	2.073	18.9	20.3
2 1	10 59.81	+ 7 54.5	1.182	2.085	14.4	20.1
2 11	10 52.98	+ 8 32.4	1.143	2.098	9.2	19.8
2 21	10 43.98	+ 9 20.7	1.126	2.111	3.5	19.5
3 2	10 34.16	+10 10.8	1.135	2.124	2.5	19.5
3 12	10 25.10	+10 53.8	1.170	2.138	8.1	19.9
3 22	10 18.08	+11 23.6	1.228	2.153	13.1	20.2
4 1	10 13.95	+11 36.7	1.307	2.168	17.3	20.5

299905 2006 SM_{380} 2 27.2 203°.26 0°.9/28.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 57.32	+ 1 36.0	2.643	3.420	11.5	21.0
2 1	10 53.65	+ 2 22.8	2.547	3.418	9.0	20.8
2 11	10 48.43	+ 3 23.7	2.476	3.415	6.0	20.6
2 21	10 42.11	+ 4 35.3	2.433	3.413	2.7	20.4
3 2	10 35.27	+ 5 53.0	2.421	3.410	1.3	20.3
3 12	10 28.63	+ 7 11.1	2.439	3.407	4.5	20.5
3 22	10 22.83	+ 8 24.4	2.486	3.403	7.7	20.7
4 1	10 18.41	+ 9 28.4	2.560	3.400	10.5	20.9

455615 2004 TP_{277} 2 27.2 123°.59 0°.1/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.63	+ 5 33.1	1.791	2.589	15.4	22.6
2 1	11 0.50	+ 6 10.1	1.720	2.605	11.8	22.4
2 11	10 53.04	+ 7 1.8	1.673	2.620	7.6	22.2
2 21	10 43.94	+ 8 3.1	1.652	2.635	2.9	21.9
3 2	10 34.20	+ 9 7.2	1.660	2.649	1.8	21.8
3 12	10 24.98	+10 6.7	1.697	2.662	6.4	22.2
3 22	10 17.27	+10 55.8	1.762	2.675	10.5	22.4
4 1	10 11.78	+11 31.1	1.849	2.687	14.0	22.7

151572 2002 TX_{223} 2 27.2 77°.54 1°.5/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.48	+ 1 47.5	1.669	2.464	16.4	20.5
2 1	10 58.26	+ 2 12.1	1.600	2.480	12.8	20.2
2 11	10 51.67	+ 2 55.4	1.553	2.496	8.5	20.0
2 21	10 43.41	+ 3 53.1	1.532	2.511	4.0	19.8
3 2	10 34.52	+ 4 59.0	1.538	2.527	1.9	19.7
3 12	10 26.16	+ 6 5.2	1.573	2.543	6.2	20.0
3 22	10 19.32	+ 7 4.5	1.633	2.558	10.4	20.3
4 1	10 14.72	+ 7 51.8	1.717	2.574	14.1	20.5

226602 2004 CH_{84} 2 27.2 350°.10 0°.5/26.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 56.32	+ 8 20.0	2.516	3.322	11.2	20.1
2 1	10 52.97	+ 8 47.4	2.426	3.317	8.5	19.9
2 11	10 48.03	+ 9 23.6	2.362	3.312	5.4	19.7
2 21	10 41.97	+10 5.2	2.325	3.309	2.1	19.5
3 2	10 35.40	+10 47.9	2.317	3.305	1.6	19.4
3 12	10 29.07	+11 27.1	2.339	3.302	5.0	19.7
3 22	10 23.62	+11 59.1	2.388	3.300	8.2	19.9
4 1	10 19.62	+12 21.3	2.463	3.298	11.0	20.0

170094 2002 XQ_{56} 2 27.2 62°.94 0°.7/26.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 0.99	+ 8 32.7	2.080	2.887	13.2	20.4
2 1	10 56.71	+ 9 1.6	2.009	2.900	10.0	20.2
2 11	10 50.49	+ 9 40.4	1.962	2.912	6.3	20.0
2 21	10 42.93	+10 24.7	1.942	2.925	2.4	19.7
3 2	10 34.86	+11 9.1	1.951	2.938	2.0	19.7
3 12	10 27.21	+11 48.3	1.989	2.951	5.8	20.0
3 22	10 20.77	+12 18.1	2.054	2.964	9.4	20.2
4 1	10 16.17	+12 36.2	2.143	2.977	12.5	20.5

505099 2012 BN_{10} 2 27.2 359°.69 0°.1/27.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 54.74	+ 5 0.3	2.575	3.372	11.2	21.1
2 1	10 51.73	+ 5 42.4	2.487	3.371	8.6	20.9
2 11	10 47.23	+ 6 36.1	2.423	3.370	5.6	20.7
2 21	10 41.66	+ 7 37.9	2.387	3.370	2.2	20.5
3 2	10 35.61	+ 8 42.9	2.381	3.370	1.3	20.4
3 12	10 29.79	+ 9 46.0	2.405	3.371	4.7	20.6
3 22	10 24.82	+10 42.6	2.456	3.372	7.8	20.8
4 1	10 21.20	+11 29.1	2.533	3.373	10.6	21.0

138578 2000 QL_{124} 2 27.2 116°.45 2°.6/ 1.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	10 58.04	− 3 35.6	2.609	3.361	12.3	19.9
2 1	10 54.16	− 3 16.0	2.522	3.370	9.9	19.7
2 11	10 48.73	− 2 40.8	2.458	3.378	7.1	19.5
2 21	10 42.23	− 1 51.9	2.421	3.387	4.2	19.3
3 2	10 35.27	− 0 52.5	2.413	3.395	2.6	19.3
3 12	10 28.57	+ 0 12.2	2.435	3.403	4.5	19.4
3 22	10 22.76	+ 1 17.3	2.487	3.411	7.3	19.6
4 1	10 18.36	+ 2 17.9	2.564	3.419	10.0	19.8

322811 2001 SL_{26} 2 27.2 143°.67 3°.1/24.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 7.66	+16 46.3	2.183	2.993	12.5	21.5
2 1	11 1.71	+17 21.2	2.111	3.003	9.5	21.3
2 11	10 53.66	+17 59.1	2.064	3.013	6.2	21.1
2 21	10 44.17	+18 34.6	2.045	3.022	3.4	21.0
3 2	10 34.14	+19 2.0	2.056	3.031	4.1	21.0
3 12	10 24.58	+19 17.1	2.097	3.039	7.2	21.2
3 22	10 16.38	+19 17.8	2.165	3.046	10.4	21.5
4 1	10 10.19	+19 4.3	2.256	3.053	13.2	21.7

162519 2000 QX_{113} 2 27.2 158°.44 0°.1/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.29	+ 6 27.2	1.955	2.749	14.4	21.4
2 1	11 0.93	+ 6 54.0	1.874	2.757	11.1	21.2
2 11	10 53.31	+ 7 33.4	1.817	2.763	7.1	20.9
2 21	10 44.08	+ 8 21.0	1.787	2.770	2.8	20.7
3 2	10 34.17	+ 9 11.3	1.786	2.775	1.7	20.6
3 12	10 24.66	+ 9 57.8	1.815	2.780	6.1	20.9
3 22	10 16.53	+10 35.8	1.872	2.784	10.1	21.1
4 1	10 10.50	+11 1.8	1.953	2.787	13.6	21.4

36109 1999 RB_{122} 2 27.2 193°.53 0°.1/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 58.44	+ 6 10.8	2.875	3.663	10.4	20.3
2 1	10 54.37	+ 6 45.5	2.782	3.661	8.0	20.1
2 11	10 48.84	+ 7 29.6	2.714	3.659	5.1	19.9
2 21	10 42.28	+ 8 20.0	2.674	3.657	2.0	19.7
3 2	10 35.26	+ 9 12.7	2.666	3.655	1.3	19.6
3 12	10 28.44	+10 3.2	2.688	3.652	4.4	19.8
3 22	10 22.41	+10 47.9	2.739	3.649	7.4	20.0
4 1	10 17.68	+11 23.9	2.816	3.645	10.0	20.2

360542 2003 SX_{212} 2 27.2 215°.42 3°.5/23.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.03	+14 28.0	2.037	2.854	13.1	21.6
2 1	10 59.37	+15 47.1	1.948	2.845	9.9	21.4
2 11	10 52.44	+17 15.4	1.884	2.836	6.4	21.1
2 21	10 43.80	+18 45.5	1.848	2.826	3.7	20.9
3 2	10 34.32	+20 8.8	1.843	2.816	4.8	21.0
3 12	10 25.07	+21 17.6	1.866	2.804	8.2	21.2
3 22	10 17.07	+22 7.1	1.916	2.792	11.8	21.4
4 1	10 11.11	+22 35.6	1.988	2.779	14.9	21.5

291764 2006 KC_{19} 2 27.2 148°.65 3°.6/22.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 0.83	+18 6.2	2.696	3.512	10.3	21.1
2 1	10 56.28	+19 23.0	2.626	3.521	7.7	21.0
2 11	10 50.09	+20 42.9	2.582	3.530	5.2	20.8
2 21	10 42.77	+22 0.0	2.568	3.539	3.6	20.7
3 2	10 34.98	+23 8.3	2.585	3.546	4.5	20.8
3 12	10 27.47	+24 3.0	2.631	3.554	6.9	21.0
3 22	10 20.93	+24 41.6	2.705	3.561	9.4	21.1
4 1	10 15.90	+25 3.2	2.802	3.567	11.7	21.3

300267 2007 JR_{2} 2 27.2 284°.56 1°.3/26.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.76	+ 8 46.0	1.449	2.273	17.0	21.3
2 1	11 0.13	+ 9 19.5	1.352	2.252	13.2	21.0
2 11	10 53.48	+10 9.4	1.276	2.230	8.5	20.7
2 21	10 44.38	+11 10.3	1.224	2.208	3.3	20.3
3 2	10 33.91	+12 13.7	1.199	2.186	3.0	20.2
3 12	10 23.60	+13 10.0	1.200	2.164	8.6	20.5
3 22	10 14.88	+13 51.6	1.225	2.142	13.9	20.7
4 1	10 8.94	+14 14.0	1.271	2.119	18.5	20.9

280654 2005 CX_{31} 2 27.2 74°.91 1°.6/25.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 0.94	+10 30.0	2.014	2.829	13.3	21.0
2 1	10 56.77	+11 16.3	1.944	2.840	10.0	20.8
2 11	10 50.58	+12 12.1	1.898	2.851	6.3	20.6
2 21	10 43.00	+13 11.8	1.879	2.862	2.5	20.3
3 2	10 34.86	+14 8.9	1.889	2.873	2.8	20.4
3 12	10 27.14	+14 57.3	1.928	2.885	6.5	20.6
3 22	10 20.69	+15 33.0	1.993	2.896	10.1	20.9
4 1	10 16.13	+15 53.7	2.082	2.907	13.2	21.1

122740 2000 SY_{53} 2 27.2 288°.79 1°.0/26.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.91	+ 9 58.6	1.489	2.309	16.9	19.6
2 1	11 2.24	+10 4.9	1.405	2.302	13.0	19.3
2 11	10 54.61	+10 22.3	1.342	2.295	8.4	19.0
2 21	10 44.72	+10 45.9	1.304	2.288	3.2	18.7
3 2	10 33.77	+11 9.6	1.293	2.281	2.6	18.6
3 12	10 23.24	+11 26.7	1.309	2.274	7.9	18.9
3 22	10 14.47	+11 32.7	1.350	2.267	12.8	19.2
4 1	10 8.45	+11 25.2	1.412	2.261	17.0	19.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
130642 2000 SE_{70}			2 27.2 179°.73		1°.2/26.2 18	
	h m	° ′			°	m
1 22	11 6.04	+ 9 28.5	1.916	2.721	14.3	21.0
2 1	11 0.86	+10 4.8	1.833	2.722	10.9	20.8
2 11	10 53.35	+10 52.1	1.773	2.724	6.9	20.5
2 21	10 44.13	+11 45.0	1.740	2.724	2.7	20.3
3 2	10 34.16	+12 37.2	1.737	2.724	2.5	20.3
3 12	10 24.56	+13 22.0	1.763	2.723	6.8	20.5
3 22	10 16.35	+13 54.9	1.817	2.721	10.8	20.7
4 1	10 10.30	+14 13.3	1.893	2.719	14.3	21.0
136391 2004 JA_{25}			2 27.2 310°.72		1°.9/28.8 18	
1 22	11 2.19	+ 1 57.4	1.763	2.556	15.8	20.2
2 1	10 58.12	+ 2 2.4	1.677	2.555	12.4	20.0
2 11	10 51.70	+ 2 24.3	1.612	2.553	8.4	19.8
2 21	10 43.51	+ 3 0.4	1.573	2.551	4.1	19.5
3 2	10 34.52	+ 3 46.2	1.561	2.549	2.2	19.3
3 12	10 25.86	+ 4 35.2	1.577	2.548	6.1	19.6
3 22	10 18.57	+ 5 21.0	1.620	2.546	10.4	19.8
4 1	10 13.46	+ 5 58.3	1.686	2.545	14.2	20.1
184153 2004 KJ_{5}			2 27.2 311°.46		1°.0/26.4 17	
1 22	11 1.35	+ 8 23.1	1.664	2.483	15.4	20.6
2 1	10 57.67	+ 8 58.7	1.579	2.476	11.8	20.4
2 11	10 51.50	+ 9 48.1	1.517	2.470	7.5	20.1
2 21	10 43.46	+10 46.2	1.480	2.464	2.9	19.8
3 2	10 34.54	+11 45.5	1.471	2.458	2.5	19.8
3 12	10 25.97	+12 38.4	1.489	2.452	7.3	20.0
3 22	10 18.85	+13 18.7	1.532	2.447	11.7	20.3
4 1	10 14.02	+13 42.8	1.598	2.442	15.6	20.5
2958 Arpetito			2 27.2 265°.98		0°.4/27.6 18	
1 22	11 0.90	+ 5 28.2	2.083	2.880	13.5	17.1
2 1	10 56.78	+ 5 48.8	1.995	2.879	10.4	16.9
2 11	10 50.65	+ 6 21.9	1.931	2.878	6.8	16.6
2 21	10 43.06	+ 7 4.1	1.894	2.876	2.8	16.4
3 2	10 34.82	+ 7 50.4	1.886	2.875	1.5	16.3
3 12	10 26.87	+ 8 35.3	1.907	2.874	5.6	16.5
3 22	10 20.08	+ 9 13.7	1.955	2.873	9.4	16.8
4 1	10 15.13	+ 9 42.1	2.027	2.871	12.7	17.0
426146 2012 HZ_{38}			2 27.2 234°.54		1°.5/25.7 17	
1 22	11 2.55	+10 42.3	2.248	3.053	12.4	22.2
2 1	10 58.00	+11 23.3	2.151	3.042	9.4	22.0
2 11	10 51.44	+12 13.5	2.079	3.030	6.0	21.8
2 21	10 43.39	+13 8.3	2.035	3.018	2.4	21.5
3 2	10 34.61	+14 1.8	2.020	3.005	2.6	21.5
3 12	10 26.03	+14 48.3	2.036	2.991	6.3	21.7
3 22	10 18.53	+15 23.5	2.079	2.978	9.9	21.9
4 1	10 12.82	+15 44.8	2.146	2.963	13.1	22.1
68499 2001 UM_{36}			2 27.2 101°.24		8°.4/19.3 18	
1 22	11 7.65	+29 54.6	1.878	2.703	13.7	19.3
2 1	11 2.21	+31 22.6	1.830	2.716	11.1	19.2
2 11	10 54.19	+32 43.4	1.806	2.729	9.0	19.1
2 21	10 44.42	+33 47.2	1.809	2.742	8.4	19.1
3 2	10 34.05	+34 26.2	1.837	2.755	9.6	19.2
3 12	10 24.38	+34 36.7	1.892	2.767	11.8	19.3
3 22	10 16.47	+34 19.6	1.969	2.779	14.2	19.5
4 1	10 11.05	+33 38.5	2.065	2.791	16.4	19.7
26389 Poojarambhia			2 27.2 128°.94		1°.7/25.6 18	
1 22	11 2.00	+10 56.0	2.145	2.955	12.7	19.7
2 1	10 57.50	+11 39.3	2.069	2.962	9.6	19.5
2 11	10 51.04	+12 31.2	2.017	2.969	6.1	19.3
2 21	10 43.19	+13 26.6	1.993	2.976	2.5	19.0
3 2	10 34.78	+14 19.5	1.998	2.982	2.7	19.1
3 12	10 26.74	+15 4.1	2.033	2.988	6.3	19.3
3 22	10 19.89	+15 36.7	2.094	2.994	9.8	19.5
4 1	10 14.87	+15 55.2	2.180	3.000	12.8	19.7
206075 2002 RE_{46}			2 27.2 95°.13		1°.4/25.6 18	
1 22	11 0.94	+10 7.6	2.290	3.097	12.2	20.4
2 1	10 56.49	+10 58.7	2.223	3.115	9.1	20.2
2 11	10 50.28	+11 58.3	2.182	3.133	5.7	20.0
2 21	10 42.86	+13 1.2	2.168	3.151	2.3	19.8
3 2	10 35.00	+14 1.7	2.184	3.169	2.5	19.9
3 12	10 27.53	+14 54.2	2.231	3.186	5.9	20.1
3 22	10 21.19	+15 34.9	2.304	3.203	9.1	20.3
4 1	10 16.52	+16 1.9	2.402	3.220	11.9	20.6
225599 2000 XE_{31}			2 27.2 108°.32		3°.9/ 1.8 18	
1 22	11 5.30	− 4 2.2	2.225	2.970	14.4	20.8
2 1	10 59.85	− 4 23.6	2.148	2.988	11.6	20.6
2 11	10 52.46	− 4 28.8	2.093	3.006	8.5	20.5
2 21	10 43.73	− 4 18.5	2.064	3.024	5.5	20.3
3 2	10 34.47	− 3 54.7	2.064	3.041	3.9	20.2
3 12	10 25.61	− 3 21.9	2.094	3.057	5.5	20.4
3 22	10 17.95	− 2 44.8	2.152	3.074	8.5	20.6
4 1	10 12.12	− 2 8.5	2.236	3.089	11.4	20.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
495478 2014 UH_{26}			2 27.2 39°.94		6°.0/ 3.7 18	
	h m	° ′			°	m
1 22	10 58.73	− 9 23.5	1.559	2.316	19.0	21.3
2 1	10 55.70	− 9 24.6	1.483	2.325	15.8	21.1
2 11	10 50.23	− 8 56.5	1.427	2.335	12.1	20.8
2 21	10 42.96	− 7 59.4	1.392	2.345	8.4	20.6
3 2	10 34.92	− 6 37.4	1.383	2.355	6.0	20.5
3 12	10 27.32	− 4 59.1	1.400	2.366	7.3	20.6
3 22	10 21.24	− 3 15.3	1.442	2.377	10.7	20.8
4 1	10 17.46	− 1 36.3	1.509	2.389	14.3	21.1
93100 2000 SV_{41}			2 27.2 263°.44		2°.6/24.8 18	
1 22	11 1.65	+12 39.6	1.896	2.717	13.7	19.6
2 1	10 57.62	+13 32.2	1.812	2.712	10.4	19.4
2 11	10 51.33	+14 34.3	1.753	2.707	6.6	19.2
2 21	10 43.38	+15 39.5	1.720	2.701	3.1	18.9
3 2	10 34.66	+16 40.4	1.715	2.696	3.8	19.0
3 12	10 26.26	+17 29.9	1.739	2.690	7.6	19.2
3 22	10 19.17	+18 3.7	1.789	2.685	11.4	19.4
4 1	10 14.15	+18 19.5	1.861	2.679	14.7	19.6
167144 2003 SG_{200}			2 27.2 150°.91		2°.9/24.5 18	
1 22	11 6.82	+14 34.8	2.084	2.894	13.1	21.0
2 1	11 1.21	+15 28.6	2.012	2.905	9.8	20.8
2 11	10 53.44	+16 28.5	1.964	2.915	6.3	20.6
2 21	10 44.15	+17 28.0	1.945	2.924	3.3	20.4
3 2	10 34.27	+18 20.4	1.956	2.933	4.0	20.5
3 12	10 24.83	+19 0.0	1.996	2.940	7.3	20.7
3 22	10 16.75	+19 23.8	2.064	2.947	10.7	20.9
4 1	10 10.72	+19 31.0	2.154	2.953	13.7	21.1
135092 2001 QR_{65}			2 27.2 146°.41		1°.7/28.9 18	
1 22	11 1.84	+ 1 59.7	2.469	3.242	12.4	19.8
2 1	10 57.14	+ 1 59.2	2.380	3.246	9.7	19.6
2 11	10 50.72	+ 2 10.5	2.315	3.250	6.6	19.4
2 21	10 43.08	+ 2 31.5	2.278	3.254	3.3	19.2
3 2	10 34.90	+ 2 59.4	2.270	3.258	1.8	19.1
3 12	10 27.00	+ 3 30.0	2.293	3.261	4.7	19.3
3 22	10 20.10	+ 3 59.4	2.344	3.264	7.9	19.5
4 1	10 14.76	+ 4 24.2	2.421	3.267	10.8	19.7
147251 2002 XJ_{85}			2 27.2 154°.84		6°.2/20.6 18	
1 22	11 7.45	+25 59.3	2.265	3.081	11.9	20.2
2 1	11 1.66	+27 15.4	2.203	3.090	9.4	20.1
2 11	10 53.71	+28 28.6	2.166	3.099	7.2	20.0
2 21	10 44.25	+29 31.2	2.158	3.106	6.2	19.9
3 2	10 34.22	+30 16.2	2.179	3.113	7.3	20.0
3 12	10 24.66	+30 39.6	2.227	3.120	9.5	20.1
3 22	10 16.49	+30 40.6	2.301	3.125	12.0	20.3
4 1	10 10.39	+30 21.0	2.396	3.130	14.2	20.5
218626 2005 QM_{172}			2 27.2 157°.52		1°.3/28.4 18	
1 22	10 2.48	+ 2 33.4	2.013	2.799	14.3	21.2
2 1	10 58.03	+ 2 51.7	1.927	2.802	11.2	21.0
2 11	10 51.48	+ 3 25.1	1.865	2.806	7.5	20.7
2 21	10 43.42	+ 4 10.5	1.829	2.809	3.5	20.5
3 2	10 34.70	+ 5 3.1	1.823	2.811	1.7	20.4
3 12	10 26.30	+ 5 56.9	1.845	2.814	5.5	20.6
3 22	10 19.13	+ 6 46.1	1.895	2.816	9.4	20.9
4 1	10 13.88	+ 7 26.1	1.969	2.818	12.9	21.1
504811 2010 CN_{221}			2 27.3 242°.11		4°.3/ 2.1 17	
1 22	11 2.99	− 4 50.9	2.398	3.139	13.6	21.4
2 1	10 58.17	− 5 24.8	2.300	3.135	11.2	21.2
2 11	10 51.48	− 5 44.1	2.224	3.132	8.4	21.0
2 21	10 43.42	− 5 48.4	2.174	3.129	5.7	20.8
3 2	10 34.70	− 5 39.0	2.153	3.125	4.3	20.7
3 12	10 26.17	− 5 18.8	2.161	3.122	5.6	20.8
3 22	10 18.64	− 4 51.9	2.197	3.118	8.4	21.0
4 1	10 12.76	− 4 23.1	2.259	3.114	11.2	21.1
87794 2000 SQ_{127}			2 27.3 168°.81		0°.9/28.2 18	
1 22	11 1.33	+ 2 51.0	2.193	2.977	13.4	20.6
2 1	10 57.00	+ 3 20.2	2.105	2.980	10.4	20.4
2 11	10 50.76	+ 4 3.7	2.041	2.982	6.9	20.2
2 21	10 43.13	+ 4 58.4	2.004	2.984	3.1	20.0
3 2	10 34.89	+ 5 59.1	1.997	2.986	1.5	19.9
3 12	10 26.93	+ 7 0.0	2.019	2.987	5.2	20.1
3 22	10 20.08	+ 7 55.5	2.069	2.988	8.9	20.4
4 1	10 14.98	+ 8 41.3	2.145	2.988	12.1	20.6
272625 2005 WO_{58}			2 27.3 16°.40		6°.8/ 3.2 18	
1 22	11 1.13	− 6 58.1	1.499	2.267	19.2	19.8
2 1	10 57.68	− 7 53.3	1.424	2.273	16.0	19.6
2 11	10 51.59	− 8 24.9	1.368	2.279	12.4	19.4
2 21	10 43.55	− 8 31.0	1.334	2.286	8.8	19.2
3 2	10 34.63	− 8 12.6	1.325	2.294	6.9	19.1
3 12	10 26.16	− 7 34.9	1.341	2.303	8.1	19.2
3 22	10 19.29	− 6 45.6	1.382	2.313	11.4	19.4
4 1	10 14.89	− 5 53.4	1.445	2.324	14.9	19.7

210473 1995 SQ_{52} 2 27.3 258.°75 0.°4/27.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 3.45	+ 5 6.8	1.817	2.617	15.1	22.0
2 1	10 59.22	+ 5 30.2	1.716	2.601	11.8	21.8
2 11	10 52.55	+ 6 9.1	1.638	2.584	7.8	21.5
2 21	10 43.96	+ 7 0.1	1.585	2.567	3.2	21.2
3 2	10 34.36	+ 7 57.3	1.561	2.550	1.7	21.0
3 12	10 24.93	+ 8 53.5	1.565	2.532	6.5	21.3
3 22	10 16.78	+ 9 42.4	1.596	2.514	11.1	21.5
4 1	10 10.82	+10 18.8	1.650	2.495	15.1	21.7

171187 2005 JV_{15} 2 27.3 338.°81 0.°1/27.3 17

1 22	10 59.34	+ 6 2.9	1.980	2.786	13.8	20.7
2 1	10 55.74	+ 6 28.2	1.893	2.781	10.6	20.5
2 11	10 50.07	+ 7 6.6	1.829	2.777	6.9	20.2
2 21	10 42.90	+ 7 54.2	1.791	2.774	2.7	20.0
3 2	10 35.04	+ 8 45.6	1.781	2.770	1.6	19.9
3 12	10 27.47	+ 9 34.6	1.800	2.767	5.9	20.2
3 22	10 21.07	+10 15.9	1.846	2.764	9.8	20.4
4 1	10 16.56	+10 45.8	1.915	2.762	13.3	20.6

29645 Kutsenok 2 27.3 76.°24 3.°3/24.9 18

1 22	11 7.65	+13 1.1	1.347	2.179	17.7	19.3
2 1	11 2.65	+13 57.9	1.296	2.201	13.3	19.0
2 11	10 54.68	+15 4.6	1.267	2.223	8.4	18.8
2 21	10 44.69	+16 12.0	1.263	2.244	4.0	18.6
3 2	10 34.04	+17 10.0	1.285	2.266	4.7	18.7
3 12	10 24.29	+17 50.8	1.334	2.287	9.2	19.0
3 22	10 16.62	+18 10.7	1.407	2.308	13.5	19.3
4 1	10 11.81	+18 9.7	1.500	2.329	17.2	19.6

345656 2006 TF_{68} 2 27.3 108.°14 3.°6/23.9 17

1 22	11 5.65	+19 42.1	2.407	3.220	11.4	20.6
2 1	11 0.07	+20 6.0	2.331	3.224	8.7	20.5
2 11	10 52.60	+20 30.2	2.280	3.227	5.8	20.3
2 21	10 43.82	+20 49.9	2.257	3.231	3.7	20.2
3 2	10 34.54	+21 0.5	2.265	3.234	4.4	20.2
3 12	10 25.67	+20 58.6	2.302	3.237	7.0	20.4
3 22	10 18.01	+20 43.2	2.366	3.241	9.9	20.6
4 1	10 12.17	+20 14.6	2.453	3.244	12.4	20.7

340725 2006 SV_{133} 2 27.3 22.°10 0.°2/27.4 17

1 22	11 1.99	+ 7 11.5	2.255	3.052	12.6	20.3
2 1	10 57.43	+ 7 17.1	2.169	3.053	9.7	20.1
2 11	10 51.00	+ 7 31.9	2.107	3.054	6.3	19.9
2 21	10 43.22	+ 7 53.1	2.073	3.055	2.5	19.7
3 2	10 34.87	+ 8 16.8	2.067	3.057	1.4	19.6
3 12	10 26.83	+ 8 38.8	2.092	3.058	5.3	19.9
3 22	10 19.90	+ 8 55.4	2.144	3.060	8.8	20.1
4 1	10 14.69	+ 9 4.1	2.221	3.061	11.9	20.3

303289 2004 RH_{337} 2 27.3 329.°97 2.°7/24.3 17

1 22	11 1.11	+16 51.9	2.587	3.402	10.7	20.5
2 1	10 56.57	+17 22.5	2.505	3.401	8.1	20.3
2 11	10 50.35	+17 55.9	2.448	3.399	5.3	20.1
2 21	10 42.94	+18 27.6	2.420	3.398	3.0	20.0
3 2	10 35.05	+18 53.1	2.422	3.396	3.6	20.0
3 12	10 27.45	+19 8.8	2.453	3.395	6.3	20.2
3 22	10 20.84	+19 12.5	2.511	3.394	9.1	20.4
4 1	10 15.80	+19 3.7	2.593	3.393	11.6	20.5

386235 2008 AX_{6} 2 27.3 95.°66 5.°3/20.9 18

1 22	11 1.85	+23 35.5	2.395	3.219	11.1	20.8
2 1	10 57.26	+24 51.7	2.340	3.234	8.6	20.7
2 11	10 50.82	+26 6.7	2.310	3.249	6.3	20.6
2 21	10 43.12	+27 13.4	2.308	3.264	5.3	20.5
3 2	10 34.96	+28 5.8	2.336	3.279	6.3	20.6
3 12	10 27.23	+28 39.7	2.391	3.293	8.5	20.8
3 22	10 20.67	+28 53.9	2.471	3.308	10.9	20.9
4 1	10 15.88	+28 49.0	2.574	3.322	13.0	21.1

25608 Hincapie 2 27.3 11.°24 5.°1/23.6 18

1 22	11 3.57	+17 30.6	1.394	2.237	16.5	18.8
2 1	10 59.78	+18 28.3	1.329	2.238	12.6	18.5
2 11	10 53.03	+19 32.0	1.285	2.240	8.4	18.3
2 21	10 44.13	+20 32.3	1.266	2.242	5.3	18.1
3 2	10 34.34	+21 19.1	1.272	2.245	6.4	18.2
3 12	10 25.18	+21 44.9	1.304	2.248	10.4	18.4
3 22	10 17.92	+21 46.8	1.359	2.252	14.5	18.6
4 1	10 13.45	+21 25.6	1.434	2.257	18.2	18.9

34182 Sachan 2 27.3 233.°27 0.°2/27.4 18

1 22	11 2.77	+ 6 5.4	1.972	2.771	14.1	19.5
2 1	10 58.38	+ 6 25.2	1.881	2.766	10.9	19.3
2 11	10 51.80	+ 6 57.7	1.814	2.761	7.1	19.0
2 21	10 43.60	+ 7 39.3	1.773	2.756	2.8	18.7
3 2	10 34.64	+ 8 24.8	1.761	2.751	1.6	18.6
3 12	10 25.97	+ 9 8.3	1.778	2.745	6.0	18.9
3 22	10 18.53	+ 9 44.6	1.822	2.739	10.0	19.1
4 1	10 13.09	+10 10.0	1.890	2.733	13.6	19.3

337763 2001 UM_{137} 2 27.3 174.°46 0.°6/28.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	10 59.71	+ 3 50.7	3.009	3.784	10.3	22.3
2 1	10 55.26	+ 4 16.3	2.916	3.786	8.0	22.2
2 11	10 49.40	+ 4 51.7	2.849	3.789	5.3	22.0
2 21	10 42.56	+ 5 34.5	2.810	3.790	2.3	21.8
3 2	10 35.29	+ 6 21.0	2.802	3.792	1.1	21.7
3 12	10 28.22	+ 7 7.5	2.826	3.792	4.0	21.9
3 22	10 21.93	+ 7 50.2	2.879	3.793	6.9	22.1
4 1	10 16.90	+ 8 26.2	2.959	3.792	9.4	22.3

238363 2004 CG_{43} 2 27.3 290.°51 4.°1/22.5 18

1 22	10 58.53	+16 41.7	2.171	2.999	12.0	19.7
2 1	10 55.10	+18 7.1	2.083	2.986	9.1	19.5
2 11	10 49.68	+19 39.8	2.021	2.973	6.1	19.3
2 21	10 42.77	+21 12.3	1.988	2.961	4.1	19.1
3 2	10 35.13	+22 36.6	1.983	2.949	5.3	19.2
3 12	10 27.70	+23 45.7	2.007	2.936	8.3	19.3
3 22	10 21.35	+24 35.1	2.056	2.924	11.5	19.5
4 1	10 16.79	+25 3.3	2.128	2.912	14.3	19.7

504773 2009 WV_{244} 2 27.3 212.°53 5.°0/ 3.1 17

1 22	11 0.90	− 7 53.8	2.123	2.860	15.2	21.7
2 1	10 56.84	− 8 7.2	2.028	2.858	12.7	21.5
2 11	10 50.76	− 8 0.4	1.953	2.855	9.7	21.3
2 21	10 43.19	− 7 33.2	1.903	2.853	6.8	21.1
3 2	10 34.89	− 6 47.6	1.880	2.850	5.0	21.0
3 12	10 26.82	− 5 48.4	1.885	2.847	6.2	21.0
3 22	10 19.85	− 4 42.1	1.918	2.844	9.1	21.2
4 1	10 14.70	− 3 35.5	1.976	2.840	12.2	21.4

207059 2004 XU_{77} 2 27.3 2.°81 1.°7/26.1 18

1 22	11 1.69	+ 9 48.5	1.235	2.075	18.4	19.6
2 1	10 58.63	+10 17.3	1.165	2.074	14.1	19.3
2 11	10 52.46	+11 1.2	1.116	2.073	9.0	19.0
2 21	10 43.96	+11 53.3	1.089	2.074	3.5	18.7
3 2	10 34.44	+12 44.5	1.088	2.075	3.4	18.7
3 12	10 25.50	+13 25.4	1.111	2.077	8.8	19.0
3 22	10 18.53	+13 49.9	1.158	2.080	13.9	19.3
4 1	10 14.49	+13 55.0	1.224	2.084	18.3	19.6

200711 2001 UX_{160} 2 27.3 148.°71 2.°6/25.1 18

1 22	11 6.71	+12 14.0	1.811	2.624	14.6	20.7
2 1	11 1.46	+13 9.6	1.738	2.634	11.0	20.5
2 11	10 53.78	+14 14.8	1.690	2.643	7.0	20.3
2 21	10 44.36	+15 22.4	1.669	2.651	3.2	20.0
3 2	10 34.24	+16 24.5	1.677	2.658	3.8	20.1
3 12	10 24.61	+17 14.2	1.714	2.665	7.7	20.3
3 22	10 16.51	+17 47.2	1.777	2.671	11.6	20.6
4 1	10 10.70	+18 2.0	1.863	2.677	14.9	20.8

425804 2011 DM_{5} 2 27.3 126.°43 1.°1/26.3 18

1 22	11 4.98	+10 30.9	2.025	2.831	13.5	21.3
2 1	10 59.89	+10 47.9	1.946	2.836	10.3	21.1
2 11	10 52.66	+11 12.9	1.890	2.841	6.5	20.8
2 21	10 43.90	+11 41.8	1.863	2.846	2.5	20.6
3 2	10 34.52	+12 9.5	1.864	2.851	2.3	20.6
3 12	10 25.56	+12 31.0	1.894	2.855	6.2	20.8
3 22	10 17.91	+12 43.1	1.952	2.860	10.0	21.1
4 1	10 12.27	+12 43.7	2.034	2.864	13.2	21.3

86739 2000 GC_{51} 2 27.3 305.°60 1.°4/28.3 18

1 22	11 0.66	+ 2 1.1	1.367	2.181	18.5	19.0
2 1	10 57.71	+ 2 28.1	1.282	2.172	14.5	18.7
2 11	10 51.87	+ 3 19.0	1.217	2.164	9.8	18.4
2 21	10 43.78	+ 4 29.9	1.174	2.156	4.5	18.1
3 2	10 34.54	+ 5 53.2	1.158	2.148	2.1	17.9
3 12	10 25.63	+ 7 18.1	1.168	2.140	7.5	18.2
3 22	10 18.40	+ 8 34.6	1.202	2.132	12.8	18.5
4 1	10 13.86	+ 9 34.8	1.257	2.125	17.4	18.7

343651 2010 JH_{115} 2 27.3 261.°84 6.°3/20.5 17

1 22	11 6.45	+28 24.9	2.435	3.250	11.3	20.8
2 1	11 0.95	+29 17.1	2.352	3.236	9.1	20.6
2 11	10 53.33	+30 5.1	2.295	3.222	7.1	20.5
2 21	10 44.18	+30 42.1	2.265	3.208	6.3	20.4
3 2	10 34.36	+31 2.2	2.264	3.194	7.3	20.4
3 12	10 24.88	+31 1.7	2.290	3.179	9.4	20.5
3 22	10 16.65	+30 40.1	2.341	3.165	11.8	20.7
4 1	10 10.38	+29 59.1	2.414	3.150	14.1	20.8

125822 2001 XB_{171} 2 27.3 209.°93 6.°7/19.3 18

1 22	11 4.75	+26 56.7	2.270	3.091	11.7	19.5
2 1	10 59.84	+28 28.2	2.197	3.086	9.4	19.4
2 11	10 52.71	+29 57.7	2.150	3.079	7.4	19.2
2 21	10 43.97	+31 16.9	2.131	3.072	6.8	19.2
3 2	10 34.49	+32 17.8	2.140	3.065	8.0	19.2
3 12	10 25.33	+32 55.6	2.176	3.057	10.2	19.4
3 22	10 17.44	+33 8.6	2.237	3.048	12.7	19.5
4 1	10 11.57	+32 58.4	2.318	3.039	15.0	19.7

241696 2000 SD_{139} 2 27.3 168°.49 3°.2/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 3.54	− 2 52.9	1.865	2.631	16.0	21.0
2 1	10 59.06	− 2 40.2	1.777	2.635	12.9	20.8
2 11	10 52.29	− 2 6.8	1.711	2.638	9.2	20.6
2 21	10 43.83	− 1 14.5	1.671	2.640	5.3	20.4
3 2	10 34.59	− 0 7.8	1.658	2.642	3.2	20.2
3 12	10 25.69	+ 1 6.1	1.675	2.644	5.9	20.4
3 22	10 18.11	+ 2 19.7	1.718	2.645	9.9	20.6
4 1	10 12.62	+ 3 26.0	1.787	2.645	13.5	20.9

283505 2001 SA_{325} 2 27.3 152°.68 3°.2/24.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.67	+12 56.8	1.713	2.533	15.0	21.5
2 1	11 0.85	+14 7.6	1.642	2.541	11.3	21.3
2 11	10 53.49	+15 28.6	1.594	2.547	7.2	21.1
2 21	10 44.30	+16 51.7	1.573	2.554	3.6	20.9
3 2	10 34.33	+18 7.6	1.581	2.559	4.5	20.9
3 12	10 24.84	+19 8.3	1.617	2.564	8.4	21.2
3 22	10 16.94	+19 49.0	1.678	2.568	12.4	21.4
4 1	10 11.41	+20 8.4	1.762	2.572	15.8	21.6

245479 2005 NQ_{93} 2 27.3 148°.16 3°.9/22.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 59.25	+18 52.3	2.583	3.405	10.5	21.3
2 1	10 55.24	+20 13.0	2.511	3.409	7.9	21.1
2 11	10 49.55	+21 36.8	2.465	3.413	5.4	21.0
2 21	10 42.68	+22 57.3	2.449	3.417	4.0	20.9
3 2	10 35.30	+24 8.4	2.462	3.421	5.0	20.9
3 12	10 28.19	+25 4.9	2.504	3.424	7.4	21.1
3 22	10 22.04	+25 44.0	2.573	3.427	9.9	21.3
4 1	10 17.43	+26 5.1	2.665	3.430	12.2	21.4

215565 2003 EO_{26} 2 27.3 317°.41 0°.6/26.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.11	+ 9 20.6	2.066	2.875	13.2	20.0
2 1	10 57.11	+ 9 31.4	1.967	2.859	10.1	19.8
2 11	10 51.02	+ 9 51.1	1.892	2.843	6.5	19.5
2 21	10 43.34	+10 16.4	1.844	2.828	2.5	19.3
3 2	10 34.89	+10 42.7	1.825	2.813	1.9	19.2
3 12	10 26.65	+11 4.9	1.834	2.798	6.1	19.4
3 22	10 19.54	+11 19.2	1.869	2.783	10.0	19.6
4 1	10 14.32	+11 22.9	1.929	2.769	13.4	19.8

184055 2004 FD_{126} 2 27.3 89°.50 3°.1/24.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.56	+15 2.2	1.722	2.544	14.8	20.2
2 1	11 1.44	+15 36.6	1.653	2.553	11.2	20.0
2 11	10 53.80	+16 16.8	1.608	2.561	7.2	19.8
2 21	10 44.40	+16 56.3	1.590	2.570	3.6	19.6
3 2	10 34.31	+17 28.0	1.599	2.579	4.3	19.7
3 12	10 24.81	+17 46.4	1.636	2.587	8.0	19.9
3 22	10 16.95	+17 48.9	1.699	2.596	11.9	20.1
4 1	10 11.47	+17 35.1	1.784	2.604	15.2	20.4

500574 2012 UD_{79} 2 27.3 162°.80 0°.4/26.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.03	+ 8 18.8	2.772	3.564	10.7	22.4
2 1	10 56.38	+ 8 43.2	2.686	3.568	8.1	22.3
2 11	10 50.19	+ 9 15.2	2.625	3.572	5.2	22.1
2 21	10 42.92	+ 9 51.7	2.593	3.576	2.0	21.9
3 2	10 35.20	+10 29.0	2.591	3.579	1.5	21.8
3 12	10 27.73	+11 2.9	2.620	3.582	4.7	22.1
3 22	10 21.15	+11 30.3	2.678	3.585	7.7	22.3
4 1	10 15.98	+11 49.1	2.762	3.587	10.3	22.4

290073 2005 QN_{73} 2 27.3 94°.59 2°.7/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.50	− 0 47.6	1.462	2.251	18.6	20.7
2 1	11 0.91	− 0 31.6	1.396	2.269	14.7	20.5
2 11	10 53.60	+ 0 7.6	1.350	2.287	10.1	20.3
2 21	10 44.36	+ 1 6.4	1.329	2.304	5.3	20.1
3 2	10 34.36	+ 2 18.1	1.334	2.321	2.8	19.9
3 12	10 25.00	+ 3 33.4	1.367	2.338	6.7	20.2
3 22	10 17.44	+ 4 43.6	1.425	2.354	11.3	20.5
4 1	10 12.47	+ 5 41.9	1.507	2.370	15.3	20.8

290396 2005 TA_{25} 2 27.3 92°.08 1°.1/26.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.57	+ 8 26.0	1.398	2.221	17.6	20.9
2 1	11 1.22	+ 9 0.2	1.329	2.227	13.5	20.6
2 11	10 53.95	+ 9 49.6	1.281	2.234	8.6	20.4
2 21	10 44.54	+10 47.7	1.257	2.241	3.3	20.1
3 2	10 34.24	+11 46.0	1.261	2.248	2.8	20.1
3 12	10 24.54	+12 35.6	1.291	2.255	8.0	20.4
3 22	10 16.72	+13 10.5	1.345	2.262	12.9	20.7
4 1	10 11.66	+13 27.6	1.421	2.268	17.0	20.9

20557 Davidkulka 2 27.3 243°.31 0°.6/27.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.84	+ 3 15.0	1.732	2.532	15.7	18.1
2 1	10 58.05	+ 3 54.0	1.640	2.523	12.3	17.8
2 11	10 51.82	+ 4 52.2	1.569	2.515	8.1	17.5
2 21	10 43.73	+ 6 5.3	1.524	2.506	3.4	17.2
3 2	10 34.70	+ 7 26.4	1.507	2.496	1.7	17.1
3 12	10 25.92	+ 8 47.0	1.518	2.487	6.6	17.4
3 22	10 18.49	+ 9 58.8	1.556	2.477	11.1	17.6
4 1	10 13.27	+10 56.1	1.617	2.467	15.1	17.8

503878 2000 SS_{347} 2 27.3 187°.97 4°.6/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 0.19	−11 25.3	3.222	3.910	11.4	21.9
2 1	10 55.63	−11 42.6	3.117	3.909	9.6	21.8
2 11	10 49.68	−11 44.9	3.035	3.908	7.7	21.6
2 21	10 42.74	−11 32.1	2.979	3.906	5.8	21.5
3 2	10 35.32	−11 4.9	2.952	3.903	4.7	21.4
3 12	10 28.05	−10 26.2	2.954	3.900	5.1	21.4
3 22	10 21.49	− 9 39.5	2.986	3.897	6.8	21.5
4 1	10 16.13	− 8 49.1	3.044	3.893	8.8	21.7

171324 2006 HQ_{96} 2 27.3 115°.38 1°.0/26.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.37	+ 8 19.4	1.864	2.667	14.7	21.4
2 1	11 1.01	+ 9 1.0	1.798	2.686	11.1	21.2
2 11	10 53.39	+ 9 54.2	1.755	2.705	7.0	21.0
2 21	10 44.22	+10 53.3	1.740	2.724	2.7	20.8
3 2	10 34.49	+11 51.6	1.754	2.741	2.3	20.8
3 12	10 25.29	+12 42.4	1.797	2.758	6.5	21.1
3 22	10 17.59	+13 21.0	1.868	2.775	10.4	21.3
4 1	10 12.04	+13 45.1	1.962	2.790	13.7	21.6

462889 2010 WL_{9} 2 27.3 33°.09 14°.6/16.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.70	+43 22.9	1.467	2.275	17.7	20.9
2 1	11 9.44	+44 53.9	1.436	2.285	15.8	20.8
2 11	10 59.28	+46 1.4	1.424	2.295	14.7	20.8
2 21	10 46.55	+46 32.9	1.434	2.307	14.7	20.8
3 2	10 33.21	+46 20.3	1.465	2.318	15.7	20.9
3 12	10 21.37	+45 23.9	1.516	2.331	17.4	21.1
3 22	10 12.49	+43 50.3	1.586	2.344	19.3	21.2
4 1	10 7.30	+41 48.8	1.672	2.357	21.1	21.4

379069 2008 WW_{99} 2 27.3 163°.82 3°.5/23.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.24	+17 7.9	2.258	3.078	11.9	21.3
2 1	10 57.71	+18 4.3	2.182	3.080	9.0	21.1
2 11	10 51.24	+19 4.7	2.132	3.082	5.9	21.0
2 21	10 43.39	+20 3.2	2.109	3.084	3.7	20.8
3 2	10 34.96	+20 53.2	2.116	3.086	4.5	20.9
3 12	10 26.88	+21 29.9	2.151	3.087	7.4	21.0
3 22	10 19.95	+21 50.4	2.213	3.088	10.4	21.2
4 1	10 14.82	+21 53.9	2.298	3.089	13.1	21.4

111708 2002 CP_{26} 2 27.3 52°.09 6°.6/ 3.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.06	− 7 34.2	1.668	2.417	18.3	18.7
2 1	11 0.40	− 8 29.5	1.594	2.430	15.2	18.5
2 11	10 53.24	− 9 2.8	1.540	2.443	11.8	18.3
2 21	10 44.24	− 9 12.3	1.510	2.457	8.5	18.1
3 2	10 34.47	− 8 58.9	1.505	2.470	6.7	18.1
3 12	10 25.16	− 8 27.1	1.527	2.484	7.8	18.1
3 22	10 17.41	− 7 43.9	1.574	2.499	10.8	18.4
4 1	10 12.02	− 6 57.1	1.645	2.513	14.0	18.6

287849 2003 SY_{237} 2 27.3 115°.64 0°.9/28.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.55	+ 3 27.8	1.894	2.681	15.1	21.7
2 1	11 0.37	+ 3 53.9	1.823	2.700	11.6	21.5
2 11	10 52.99	+ 4 35.2	1.776	2.718	7.6	21.3
2 21	10 44.08	+ 5 27.4	1.755	2.735	3.3	21.0
3 2	10 34.59	+ 6 25.0	1.763	2.752	1.6	20.9
3 12	10 25.60	+ 7 21.3	1.801	2.769	5.8	21.2
3 22	10 18.03	+ 8 10.4	1.866	2.784	9.7	21.5
4 1	10 12.56	+ 8 48.5	1.956	2.799	13.2	21.8

381235 2007 TJ_{14} 2 27.3 16°.40 1°.2/28.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.82	+ 5 1.2	2.010	2.802	14.1	20.2
2 1	10 59.09	+ 4 50.3	1.924	2.803	11.0	19.9
2 11	10 52.22	+ 4 50.7	1.862	2.805	7.3	19.7
2 21	10 43.81	+ 5 0.0	1.827	2.807	3.3	19.5
3 2	10 34.73	+ 5 14.8	1.820	2.809	1.7	19.4
3 12	10 26.00	+ 5 30.8	1.842	2.811	5.6	19.6
3 22	10 18.53	+ 5 44.1	1.891	2.813	9.4	19.9
4 1	10 13.02	+ 5 51.3	1.965	2.815	12.8	20.1

238027 2002 VS_{49} 2 27.3 141°.13 4°.7/21.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.28	+23 13.8	2.677	3.495	10.3	20.6
2 1	10 57.46	+24 24.4	2.613	3.505	7.9	20.5
2 11	10 50.94	+25 34.2	2.576	3.515	5.8	20.3
2 21	10 43.24	+26 37.2	2.567	3.524	4.7	20.3
3 2	10 35.09	+27 27.8	2.588	3.533	5.7	20.4
3 12	10 27.27	+28 2.1	2.638	3.541	7.8	20.5
3 22	10 20.49	+28 18.6	2.714	3.549	10.0	20.7
4 1	10 15.32	+28 17.6	2.812	3.557	12.1	20.8

102271 1999 TK_{45} 2 27.3 45°.95 0°.1/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.19	+ 6 54.9	1.442	2.261	17.4	20.0
2 1	11 0.04	+ 7 9.9	1.374	2.270	13.4	19.7
2 11	10 53.12	+ 7 40.0	1.327	2.279	8.6	19.5
2 21	10 44.22	+ 8 20.2	1.304	2.288	3.4	19.2
3 2	10 34.51	+ 9 3.6	1.308	2.298	2.0	19.1
3 12	10 25.40	+ 9 42.6	1.339	2.307	7.3	19.5
3 22	10 18.07	+10 11.5	1.395	2.318	12.0	19.8
4 1	10 13.35	+10 26.6	1.472	2.328	16.0	20.0

295957 2008 YB_4 2 27.3 197°.24 3°.0/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 1.74	− 2 34.1	2.571	3.321	12.5	21.2
2 1	10 57.12	− 2 44.6	2.472	3.319	10.1	21.0
2 11	10 50.79	− 2 41.3	2.398	3.317	7.3	20.8
2 21	10 43.23	− 2 25.2	2.350	3.314	4.5	20.6
3 2	10 35.09	− 1 58.4	2.331	3.311	3.0	20.5
3 12	10 27.15	− 1 24.6	2.343	3.308	4.8	20.7
3 22	10 20.12	− 0 48.0	2.383	3.305	7.7	20.8
4 1	10 14.61	− 0 12.8	2.449	3.301	10.5	21.0

426735 2013 TE_{72} 2 27.3 229°.05 3°.4/24.1 17

1 22	11 4.75	+16 54.0	2.134	2.952	12.5	21.4
2 1	10 59.80	+17 35.2	2.049	2.945	9.5	21.2
2 11	10 52.69	+18 20.6	1.988	2.939	6.3	21.0
2 21	10 44.01	+19 4.3	1.955	2.932	3.6	20.8
3 2	10 34.63	+19 40.1	1.951	2.925	4.4	20.9
3 12	10 25.57	+20 2.9	1.976	2.917	7.6	21.0
3 22	10 17.75	+20 10.0	2.027	2.909	10.9	21.2
4 1	10 11.91	+20 1.0	2.101	2.901	13.9	21.4

7405 1988 FF 2 27.3 280°.08 4°.8/22.5 18

1 22	11 2.13	+18 55.0	1.988	2.816	12.9	17.5
2 1	10 58.12	+20 4.4	1.898	2.799	9.9	17.3
2 11	10 51.80	+21 19.0	1.832	2.782	6.8	17.0
2 21	10 43.73	+22 31.1	1.794	2.765	4.8	16.9
3 2	10 34.79	+23 32.6	1.784	2.747	6.0	16.9
3 12	10 26.07	+24 16.5	1.801	2.730	9.1	17.1
3 22	10 18.61	+24 39.4	1.843	2.712	12.5	17.2
4 1	10 13.23	+24 40.5	1.907	2.694	15.6	17.4

282995 2007 TF_{282} 2 27.3 190°.49 0°.4/27.7 17

1 22	11 0.67	+ 4 56.9	2.406	3.194	12.2	21.6
2 1	10 56.40	+ 5 20.9	2.315	3.194	9.4	21.4
2 11	10 50.37	+ 5 56.3	2.249	3.193	6.2	21.2
2 21	10 43.07	+ 6 40.0	2.210	3.191	2.6	20.9
3 2	10 35.21	+ 7 27.8	2.201	3.190	1.3	20.8
3 12	10 27.59	+ 8 14.5	2.222	3.188	4.9	21.1
3 22	10 20.96	+ 8 55.9	2.271	3.187	8.4	21.3
4 1	10 15.91	+ 9 28.4	2.345	3.184	11.4	21.5

162166 Mantsch 2 27.3 214°.80 1°.7/25.7 18

1 22	11 2.01	+ 7 55.4	1.689	2.505	15.4	20.3
2 1	10 58.23	+ 9 7.9	1.605	2.501	11.7	20.0
2 11	10 51.96	+10 37.4	1.543	2.497	7.4	19.8
2 21	10 43.81	+12 16.8	1.509	2.493	2.9	19.5
3 2	10 34.76	+13 56.5	1.503	2.488	3.2	19.5
3 12	10 26.03	+15 26.5	1.525	2.483	7.8	19.7
3 22	10 18.72	+16 39.2	1.573	2.478	12.1	20.0
4 1	10 13.69	+17 30.6	1.643	2.472	15.9	20.2

233904 2009 BA_{128} 2 27.3 301°.46 3°.0/23.7 18

1 22	10 58.85	+14 28.4	2.264	3.086	11.8	19.8
2 1	10 55.19	+15 39.1	2.184	3.084	8.9	19.6
2 11	10 49.67	+16 57.0	2.130	3.083	5.7	19.4
2 21	10 42.82	+18 15.7	2.103	3.082	3.2	19.3
3 2	10 35.37	+19 28.3	2.107	3.081	4.1	19.3
3 12	10 28.20	+20 28.8	2.139	3.079	7.1	19.5
3 22	10 22.08	+21 13.1	2.197	3.078	10.3	19.7
4 1	10 17.66	+21 39.5	2.279	3.077	13.0	19.9

241303 2007 UD_{98} 2 27.3 239°.54 1°.7/25.5 17

1 22	11 0.95	+11 40.6	2.359	3.168	11.8	21.2
2 1	10 56.69	+12 17.6	2.269	3.162	8.9	21.0
2 11	10 50.60	+13 2.2	2.205	3.157	5.6	20.8
2 21	10 43.19	+13 49.8	2.168	3.151	2.4	20.5
3 2	10 35.17	+14 35.1	2.162	3.145	2.7	20.5
3 12	10 27.40	+15 13.3	2.184	3.139	6.0	20.8
3 22	10 20.66	+15 40.6	2.235	3.133	9.3	20.9
4 1	10 15.57	+15 55.1	2.309	3.127	12.3	21.1

351521 2005 SL_{118} 2 27.3 179°.90 2°.5/24.0 18

1 22	11 0.57	+16 33.6	3.066	3.874	9.3	22.0
2 1	10 55.96	+17 15.2	2.983	3.875	7.0	21.8
2 11	10 49.91	+17 59.6	2.926	3.876	4.6	21.7
2 21	10 42.86	+18 42.9	2.899	3.876	2.6	21.5
3 2	10 35.39	+19 20.7	2.903	3.876	3.2	21.6
3 12	10 28.14	+19 49.7	2.937	3.875	5.6	21.7
3 22	10 21.72	+20 7.7	2.999	3.874	8.0	21.9
4 1	10 16.61	+20 13.7	3.086	3.873	10.2	22.0

341224 2007 RH_{142} 2 27.3 178°.12 3°.5/ 2.9 18

1 22	10 58.96	− 7 37.8	2.838	3.560	12.1	21.5
2 1	10 54.87	− 7 19.6	2.738	3.562	9.9	21.3
2 11	10 49.29	− 6 44.5	2.661	3.563	7.5	21.1
2 21	10 42.65	− 5 53.7	2.611	3.564	5.0	21.0
3 2	10 35.52	− 4 49.8	2.591	3.564	3.5	20.9
3 12	10 28.59	− 3 37.3	2.600	3.564	4.6	20.9
3 22	10 22.46	− 2 21.4	2.640	3.563	7.0	21.1
4 1	10 17.65	− 1 7.4	2.707	3.562	9.5	21.2

256587 2007 TG_{398} 2 27.3 264°.94 17°.8/15.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 25.26	+45 11.7	1.222	2.027	20.7	20.7
2 1	11 18.19	+47 4.1	1.178	2.023	18.9	20.6
2 11	11 5.74	+48 30.4	1.153	2.019	17.9	20.5
2 21	10 49.35	+49 11.9	1.147	2.014	18.0	20.5
3 2	10 31.71	+48 55.4	1.160	2.010	19.2	20.5
3 12	10 15.92	+47 40.1	1.192	2.006	21.3	20.6
3 22	10 4.22	+45 35.5	1.241	2.001	23.6	20.8
4 1	9 57.54	+42 55.8	1.303	1.997	25.8	21.0

330704 2008 LX_{13} 2 27.3 221°.56 3°.4/23.3 18

1 22	11 2.57	+16 27.7	2.461	3.275	11.2	21.4
2 1	10 57.96	+17 35.6	2.369	3.264	8.5	21.2
2 11	10 51.46	+18 49.0	2.303	3.253	5.6	21.0
2 21	10 43.56	+20 2.1	2.267	3.242	3.5	20.9
3 2	10 34.98	+21 8.2	2.260	3.229	4.4	20.9
3 12	10 26.60	+22 1.6	2.284	3.216	7.2	21.1
3 22	10 19.22	+22 38.9	2.334	3.203	10.2	21.2
4 1	10 13.51	+22 58.7	2.408	3.189	12.9	21.4

451670 2013 AE_{89} 2 27.3 96°.06 0°.2/27.4 18

1 22	11 9.09	+ 6 52.1	1.470	2.279	17.6	21.4
2 1	11 3.68	+ 6 58.6	1.404	2.293	13.6	21.2
2 11	10 55.43	+ 7 19.2	1.359	2.308	8.8	21.0
2 21	10 45.15	+ 7 49.4	1.339	2.322	3.5	20.7
3 2	10 34.10	+ 8 22.9	1.347	2.336	2.0	20.6
3 12	10 23.75	+ 8 52.8	1.382	2.350	7.2	21.0
3 22	10 15.30	+ 9 14.0	1.443	2.363	11.9	21.3
4 1	10 9.57	+ 9 23.2	1.526	2.376	15.8	21.6

325920 2010 UM_{94} 2 27.3 77°.98 4°.5/24.3 18

1 22	11 12.17	+19 41.0	1.695	2.515	15.2	20.9
2 1	11 5.57	+20 8.8	1.641	2.537	11.5	20.7
2 11	10 56.35	+20 36.8	1.610	2.559	7.7	20.5
2 21	10 45.41	+20 57.9	1.606	2.580	4.8	20.4
3 2	10 33.99	+21 5.8	1.631	2.602	5.5	20.5
3 12	10 23.44	+20 56.7	1.683	2.623	8.8	20.7
3 22	10 14.80	+20 30.6	1.761	2.644	12.3	21.0
4 1	10 8.77	+19 49.3	1.862	2.665	15.3	21.2

405229 2003 SA_{66} 2 27.3 215°.26 2°.5/24.8 17

1 22	11 5.34	+12 45.1	2.099	2.908	13.0	21.9
2 1	11 0.35	+13 41.7	2.006	2.900	9.9	21.7
2 11	10 53.14	+14 47.4	1.938	2.890	6.3	21.4
2 21	10 44.26	+15 56.1	1.898	2.880	3.0	21.2
3 2	10 34.57	+17 0.7	1.888	2.868	3.7	21.2
3 12	10 25.10	+17 54.4	1.908	2.856	7.3	21.4
3 22	10 16.85	+18 32.9	1.955	2.843	11.0	21.6
4 1	10 10.58	+18 53.9	2.025	2.830	14.2	21.8

416984 2005 TK_{94} 2 27.3 200°.07 0°.8/27.9 18

1 22	10 3.50	+ 4 37.4	1.941	2.735	14.5	21.7
2 1	10 58.98	+ 4 49.1	1.853	2.734	11.3	21.5
2 11	10 52.26	+ 5 14.4	1.788	2.733	7.4	21.3
2 21	10 43.90	+ 5 50.1	1.750	2.731	3.2	21.0
3 2	10 34.80	+ 6 31.4	1.740	2.729	1.6	20.9
3 12	10 26.02	+ 7 12.6	1.759	2.728	5.8	21.2
3 22	10 18.51	+ 7 48.3	1.805	2.726	9.9	21.4
4 1	10 13.02	+ 8 14.7	1.876	2.723	13.4	21.6

473820 2016 EH_{114} 2 27.3 17°.00 0°.8/26.6 18

1 22	10 59.65	+ 6 6.8	1.607	2.425	16.0	21.1
2 1	10 56.45	+ 7 5.1	1.530	2.426	12.2	20.9
2 11	10 50.81	+ 8 21.3	1.474	2.427	7.8	20.6
2 21	10 43.37	+ 9 49.2	1.445	2.429	2.9	20.3
3 2	10 35.12	+11 19.7	1.443	2.431	2.4	20.3
3 12	10 27.26	+12 43.2	1.469	2.433	7.2	20.6
3 22	10 20.87	+13 52.0	1.520	2.436	11.7	20.9
4 1	10 16.74	+14 41.6	1.593	2.438	15.5	21.1

309407 2007 TC_{280} 2 27.3 117°.30 0°.6/26.8 18

1 22	11 7.15	+ 7 33.9	1.829	2.629	15.0	21.8
2 1	11 1.68	+ 8 6.3	1.761	2.647	11.4	21.6
2 11	10 53.89	+ 8 50.8	1.717	2.665	7.3	21.4
2 21	10 44.49	+ 9 42.3	1.699	2.682	2.8	21.2
3 2	10 34.50	+10 34.3	1.711	2.699	2.0	21.2
3 12	10 25.07	+11 20.3	1.752	2.715	6.4	21.5
3 22	10 17.15	+11 55.6	1.820	2.730	10.4	21.7
4 1	10 11.45	+12 17.5	1.912	2.745	13.8	22.0

155307 2005 YB_{133} 2 27.3 249°.71 0°.3/27.5 17

1 22	11 3.37	+ 6 18.2	2.076	2.872	13.6	20.6
2 1	10 58.83	+ 6 31.2	1.979	2.862	10.5	20.3
2 11	10 52.15	+ 6 55.9	1.906	2.852	6.9	20.1
2 21	10 43.88	+ 7 29.0	1.860	2.842	2.8	19.8
3 2	10 34.82	+ 8 5.9	1.842	2.832	1.5	19.7
3 12	10 25.99	+ 8 41.3	1.854	2.821	5.8	20.0
3 22	10 18.32	+ 9 10.6	1.894	2.810	9.7	20.2
4 1	10 12.56	+ 9 30.3	1.957	2.799	13.2	20.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
455137 2015 VL_{103}			2 27.3 200°.47		2°.5/25.3 18	
	h m	° ′			°	m
1 22	11 6.87	+11 23.3	1.638	2.455	15.7	21.6
2 1	11 2.05	+12 16.3	1.556	2.453	12.0	21.3
2 11	10 54.48	+13 21.5	1.496	2.449	7.6	21.1
2 21	10 44.86	+14 31.7	1.463	2.445	3.3	20.8
3 2	10 34.26	+15 38.2	1.458	2.441	3.8	20.8
3 12	10 24.05	+16 32.5	1.480	2.435	8.3	21.1
3 22	10 15.45	+17 9.2	1.529	2.429	12.7	21.3
4 1	10 9.38	+17 26.1	1.599	2.423	16.5	21.5
38787 2000 RU_{45}			2 27.3 152°.72		3°.4/ 1.3 18	
1 22	11 4.73	− 2 55.9	1.872	2.635	16.1	19.6
2 1	10 59.96	− 2 53.4	1.787	2.642	12.9	19.4
2 11	10 52.90	− 2 31.1	1.725	2.649	9.3	19.2
2 21	10 44.17	− 1 50.4	1.687	2.655	5.5	19.0
3 2	10 34.68	− 0 55.4	1.677	2.660	3.4	18.9
3 12	10 25.56	+ 0 7.4	1.697	2.665	6.0	19.0
3 22	10 17.79	+ 1 11.1	1.743	2.670	9.8	19.3
4 1	10 12.14	+ 2 9.0	1.815	2.673	13.3	19.5
328876 2010 BT_{25}			2 27.3 110°.97		5°.9/20.9 18	
1 22	11 3.36	+22 23.2	2.031	2.859	12.7	20.6
2 1	10 58.81	+23 58.1	1.974	2.872	9.8	20.4
2 11	10 52.07	+25 33.3	1.942	2.884	7.1	20.3
2 21	10 43.80	+27 0.2	1.938	2.897	5.9	20.2
3 2	10 34.93	+28 10.2	1.963	2.908	7.1	20.3
3 12	10 26.53	+28 58.1	2.015	2.920	9.7	20.5
3 22	10 19.51	+29 21.9	2.091	2.931	12.4	20.7
4 1	10 14.57	+29 22.7	2.189	2.942	14.9	20.9
412136 2013 GE_{51}			2 27.3 318°.46		5°.2/23.7 18	
1 22	11 6.27	+18 15.0	1.442	2.280	16.4	20.5
2 1	11 1.95	+19 5.2	1.368	2.275	12.6	20.2
2 11	10 54.58	+20 0.6	1.316	2.269	8.5	20.0
2 21	10 44.92	+20 52.1	1.289	2.265	5.4	19.8
3 2	10 34.25	+21 29.9	1.288	2.260	6.5	19.8
3 12	10 24.12	+21 46.9	1.313	2.256	10.4	20.0
3 22	10 15.89	+21 40.3	1.361	2.251	14.6	20.3
4 1	10 10.51	+21 11.2	1.429	2.248	18.4	20.5
282621 2005 JG_{157}			2 27.3 133°.90		4°.2/21.2 17	
1 22	11 1.82	+23 41.2	3.134	3.946	9.1	21.3
2 1	10 56.87	+24 46.1	3.073	3.962	7.0	21.1
2 11	10 50.48	+25 49.6	3.040	3.977	5.1	21.0
2 21	10 43.10	+26 46.7	3.036	3.991	4.2	21.0
3 2	10 35.35	+27 32.9	3.063	4.005	5.0	21.1
3 12	10 27.91	+28 5.0	3.119	4.018	6.8	21.2
3 22	10 21.36	+28 21.7	3.201	4.031	8.8	21.4
4 1	10 16.17	+28 23.3	3.308	4.044	10.6	21.5
210185 2006 UW_{332}			2 27.3 146°.94		0°.9/26.2 17	
1 22	10 58.48	+ 8 20.9	2.621	3.421	11.0	21.4
2 1	10 54.61	+ 9 13.4	2.537	3.425	8.3	21.3
2 11	10 49.17	+10 15.3	2.479	3.429	5.2	21.1
2 21	10 42.63	+11 22.3	2.450	3.433	2.0	20.9
3 2	10 35.62	+12 29.3	2.451	3.437	1.9	20.9
3 12	10 28.84	+13 31.1	2.482	3.441	5.1	21.1
3 22	10 22.95	+14 23.4	2.542	3.444	8.2	21.3
4 1	10 18.49	+15 3.5	2.627	3.447	10.9	21.5
332351 2007 DY_{109}			2 27.3 80°.38		3°.4/ 1.9 18	
1 22	10 58.68	− 5 24.6	1.916	2.678	15.8	21.1
2 1	10 55.37	− 4 51.4	1.826	2.678	12.8	20.9
2 11	10 49.97	− 3 54.3	1.757	2.679	9.3	20.7
2 21	10 43.03	− 2 35.4	1.713	2.679	5.6	20.5
3 2	10 35.37	− 0 59.9	1.697	2.680	3.4	20.3
3 12	10 27.99	+ 0 44.0	1.710	2.680	5.7	20.5
3 22	10 21.80	+ 2 27.2	1.750	2.681	9.4	20.7
4 1	10 17.53	+ 4 1.8	1.816	2.681	13.0	20.9
196852 2003 SR_{262}			2 27.3 80°.68		1°.0/26.3 18	
1 22	11 0.96	+ 8 41.7	2.022	2.832	13.4	20.4
2 1	10 56.92	+ 9 22.0	1.944	2.836	10.2	20.2
2 11	10 50.85	+10 13.2	1.890	2.841	6.5	19.9
2 21	10 43.34	+11 10.5	1.862	2.846	2.5	19.7
3 2	10 35.21	+12 7.8	1.864	2.851	2.2	19.7
3 12	10 27.43	+12 58.7	1.895	2.856	6.2	19.9
3 22	10 20.87	+13 38.6	1.952	2.861	9.9	20.2
4 1	10 16.19	+14 4.7	2.033	2.866	13.1	20.4
185334 2006 VU_{34}			2 27.3 54°.92		2°.7/25.3 18	
1 22	11 4.69	+13 4.3	1.566	2.394	15.8	20.0
2 1	11 0.24	+13 43.0	1.502	2.405	11.9	19.8
2 11	10 53.18	+14 30.4	1.461	2.416	7.6	19.6
2 21	10 44.28	+15 19.5	1.445	2.427	3.5	19.4
3 2	10 34.69	+16 2.3	1.456	2.439	4.0	19.4
3 12	10 25.71	+16 32.4	1.495	2.451	8.1	19.7
3 22	10 18.45	+16 46.0	1.558	2.463	12.3	20.0
4 1	10 13.65	+16 42.1	1.643	2.475	15.8	20.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V
459984 2014 OB_{36}			2 27.3 133°.29		0°.1/27.4 18	
	h m	° ′			°	m
1 22	11 6.22	+ 5 52.6	1.963	2.755	14.4	22.9
2 1	11 0.89	+ 6 20.0	1.888	2.769	11.1	22.7
2 11	10 53.38	+ 7 0.3	1.837	2.783	7.1	22.5
2 21	10 44.33	+ 7 49.0	1.813	2.796	2.8	22.2
3 2	10 34.66	+ 8 40.5	1.819	2.808	1.6	22.1
3 12	10 25.46	+ 9 28.6	1.854	2.819	5.9	22.5
3 22	10 17.63	+10 8.4	1.917	2.830	9.8	22.7
4 1	10 11.86	+10 36.6	2.004	2.840	13.2	22.9
336725 2010 DE_{31}			2 27.3 84°.37		3°.1/23.5 17	
1 22	10 58.80	+14 24.8	2.294	3.114	11.7	20.7
2 1	10 55.10	+15 45.3	2.222	3.121	8.7	20.5
2 11	10 49.60	+17 12.7	2.175	3.128	5.6	20.3
2 21	10 42.83	+18 40.4	2.158	3.136	3.3	20.2
3 2	10 35.53	+20 1.2	2.170	3.143	4.2	20.2
3 12	10 28.53	+21 8.8	2.212	3.150	7.1	20.4
3 22	10 22.59	+21 59.6	2.280	3.157	10.1	20.6
4 1	10 18.30	+22 31.9	2.371	3.164	12.8	20.8
293263 2007 CR_{22}			2 27.3 273°.95		2°.3/28.9 17	
1 22	11 5.80	+ 2 36.8	1.881	2.665	15.3	20.6
2 1	11 0.94	+ 2 15.2	1.783	2.655	12.1	20.4
2 11	10 53.66	+ 2 6.6	1.707	2.644	8.4	20.2
2 21	10 44.54	+ 2 10.0	1.657	2.634	4.3	19.9
3 2	10 34.49	+ 2 22.5	1.636	2.623	2.5	19.7
3 12	10 24.65	+ 2 39.9	1.643	2.612	6.1	19.9
3 22	10 16.12	+ 2 57.3	1.677	2.601	10.2	20.2
4 1	10 9.75	+ 3 10.6	1.735	2.590	14.0	20.4
466692 2014 WY_{324}			2 27.3 51°.46		4°.4/ 2.6 18	
1 22	10 59.92	− 7 6.1	1.561	2.327	18.6	21.0
2 1	10 56.50	− 6 40.0	1.499	2.352	15.1	20.8
2 11	10 50.71	− 5 45.8	1.458	2.377	11.0	20.6
2 21	10 43.29	− 4 26.4	1.440	2.403	6.9	20.4
3 2	10 35.29	− 2 48.4	1.448	2.429	4.4	20.3
3 12	10 27.87	− 1 2.0	1.484	2.455	6.4	20.5
3 22	10 22.02	+ 0 42.5	1.546	2.481	10.1	20.8
4 1	10 18.40	+ 2 16.2	1.633	2.507	13.7	21.0
134174 Jameschen			2 27.3 142°.81		2°.8/24.2 18	
1 22	11 0.32	+13 19.2	2.185	3.002	12.3	20.3
2 1	10 56.35	+14 27.7	2.107	3.006	9.2	20.1
2 11	10 50.46	+15 44.1	2.056	3.009	5.9	19.9
2 21	10 43.19	+17 2.2	2.032	3.012	3.0	19.7
3 2	10 35.33	+18 14.8	2.038	3.015	3.8	19.8
3 12	10 27.77	+19 15.6	2.072	3.017	7.0	20.0
3 22	10 21.34	+20 0.6	2.134	3.020	10.3	20.2
4 1	10 16.68	+20 27.8	2.219	3.022	13.2	20.4
138373 2000 GQ_{150}			2 27.3 110°.16		1°.1/28.4 18	
1 22	10 58.48	+ 1 58.6	2.162	2.937	13.8	20.2
2 1	10 59.25	+ 2 32.7	2.093	2.962	10.7	20.0
2 11	10 52.18	+ 3 21.4	2.048	2.986	7.1	19.9
2 21	10 43.82	+ 4 21.0	2.030	3.009	3.2	19.6
3 2	10 34.99	+ 5 26.1	2.043	3.032	1.5	19.6
3 12	10 26.62	+ 6 30.5	2.085	3.053	5.1	19.8
3 22	10 19.48	+ 7 28.6	2.157	3.074	8.7	20.1
4 1	10 14.16	+ 8 16.6	2.254	3.094	11.7	20.3
160128 2000 XK_{19}			2 27.3 155°.33		0°.5/26.9 18	
1 22	11 8.02	+ 8 17.0	2.096	2.888	13.6	20.5
2 1	11 2.17	+ 8 40.5	2.016	2.898	10.4	20.3
2 11	10 54.17	+ 9 14.0	1.960	2.907	6.7	20.1
2 21	10 44.65	+ 9 53.2	1.932	2.915	2.6	19.8
3 2	10 34.50	+10 32.8	1.934	2.922	1.9	19.8
3 12	10 24.75	+11 7.7	1.967	2.929	5.9	20.1
3 22	10 16.34	+11 33.8	2.027	2.934	9.7	20.3
4 1	10 9.94	+11 48.6	2.113	2.939	12.9	20.5
501441 2014 AQ_{23}			2 27.3 169°.48		2°.3/24.5 17	
1 22	10 59.37	+13 7.1	2.533	3.345	11.0	21.0
2 1	10 55.38	+14 8.1	2.452	3.347	8.2	20.8
2 11	10 49.72	+15 15.8	2.396	3.348	5.2	20.7
2 21	10 42.88	+16 25.2	2.369	3.350	2.6	20.5
3 2	10 35.52	+17 30.4	2.373	3.351	3.3	20.5
3 12	10 28.42	+18 26.1	2.406	3.352	6.2	20.7
3 22	10 22.25	+19 8.8	2.467	3.352	9.1	20.9
4 1	10 17.61	+19 36.5	2.552	3.353	11.7	21.1
286021 2001 SD_{147}			2 27.3 116°.53		0°.1/27.3 18	
1 22	11 7.44	+ 5 40.5	1.725	2.522	15.9	22.5
2 1	11 2.04	+ 6 14.6	1.658	2.542	12.2	22.3
2 11	10 54.20	+ 7 3.4	1.614	2.561	7.8	22.0
2 21	10 44.68	+ 8 1.7	1.596	2.579	3.1	21.8
3 2	10 34.52	+ 9 2.6	1.607	2.596	1.8	21.7
3 12	10 24.94	+ 9 58.7	1.647	2.613	6.5	22.1
3 22	10 16.96	+10 44.3	1.714	2.629	10.7	22.3
4 1	10 11.31	+11 16.0	1.805	2.644	14.3	22.6

462714 2009 WQ_{127} 2 27.3 212°.10 4°.0/23.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 2.95	+17 31.9	2.099	2.921	12.5	21.5
2 1	10 58.50	+18 32.7	2.019	2.918	9.5	21.3
2 11	10 51.92	+19 38.2	1.965	2.915	6.3	21.1
2 21	10 43.80	+20 41.4	1.938	2.912	4.1	20.9
3 2	10 34.99	+21 35.4	1.940	2.908	5.0	21.0
3 12	10 26.52	+22 14.3	1.970	2.905	8.1	21.2
3 22	10 19.28	+22 35.1	2.026	2.901	11.3	21.3
4 1	10 14.00	+22 37.2	2.105	2.897	14.2	21.5

359896 2011 WN_{59} 2 27.3 224°.78 3°.4/ 1.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.51	− 2 53.9	1.829	2.597	16.2	21.6
2 1	10 59.27	− 2 48.4	1.732	2.589	13.1	21.3
2 11	10 52.64	− 2 22.1	1.655	2.581	9.5	21.1
2 21	10 44.17	− 1 36.1	1.604	2.573	5.6	20.8
3 2	10 34.76	− 0 34.1	1.580	2.563	3.4	20.7
3 12	10 25.56	+ 0 36.8	1.584	2.554	6.2	20.8
3 22	10 17.64	+ 1 49.1	1.616	2.543	10.3	21.0
4 1	10 11.87	+ 2 55.2	1.671	2.533	14.1	21.2

241703 2000 ST_{267} 2 27.3 159°.00 2°.1/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.58	− 1 27.3	1.830	2.606	15.9	20.6
2 1	10 58.41	− 0 50.0	1.745	2.611	12.6	20.3
2 11	10 51.97	+ 0 8.7	1.682	2.616	8.7	20.1
2 21	10 43.85	+ 1 25.8	1.644	2.620	4.5	19.9
3 2	10 34.99	+ 2 54.9	1.636	2.623	2.3	19.7
3 12	10 26.46	+ 4 27.5	1.656	2.627	5.9	20.0
3 22	10 19.26	+ 5 55.1	1.704	2.629	10.0	20.2
4 1	10 14.16	+ 7 11.0	1.776	2.631	13.7	20.4

236073 2005 JK_{122} 2 27.3 26°.37 3°.6/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.26	− 0 57.3	1.929	2.700	15.4	19.8
2 1	10 59.55	− 1 33.5	1.845	2.704	12.4	19.6
2 11	10 52.63	− 1 54.7	1.783	2.709	8.9	19.4
2 21	10 44.10	− 2 1.1	1.747	2.714	5.4	19.2
3 2	10 34.85	− 1 54.8	1.738	2.720	3.7	19.1
3 12	10 25.96	− 1 39.5	1.758	2.726	6.0	19.3
3 22	10 18.37	− 1 19.9	1.805	2.732	9.5	19.5
4 1	10 12.82	− 1 1.0	1.876	2.738	12.8	19.7

309270 2007 RW_{113} 2 27.3 252°.29 0°.3/27.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.71	+ 6 39.0	1.652	2.457	16.2	20.7
2 1	11 1.97	+ 6 43.2	1.560	2.447	12.6	20.5
2 11	10 54.50	+ 7 0.7	1.489	2.437	8.3	20.2
2 21	10 44.94	+ 7 28.1	1.444	2.427	3.4	19.9
3 2	10 34.33	+ 8 0.1	1.427	2.416	1.8	19.7
3 12	10 24.00	+ 8 30.2	1.438	2.406	6.9	20.0
3 22	10 15.19	+ 8 53.1	1.475	2.395	11.7	20.3
4 1	10 8.86	+ 9 4.9	1.534	2.383	15.8	20.5

274942 2009 SY_{236} 2 27.3 138°.09 3°.3/24.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.37	+15 4.3	2.069	2.887	12.8	21.0
2 1	10 58.74	+16 6.8	1.998	2.895	9.7	20.8
2 11	10 52.02	+17 15.6	1.951	2.903	6.3	20.6
2 21	10 43.83	+18 23.8	1.932	2.910	3.5	20.5
3 2	10 35.03	+19 24.4	1.942	2.917	4.3	20.6
3 12	10 26.63	+20 11.4	1.982	2.923	7.5	20.8
3 22	10 19.51	+20 41.4	2.047	2.930	10.8	21.0
4 1	10 14.34	+20 53.5	2.136	2.935	13.7	21.2

429371 2010 JH_{75} 2 27.3 245°.85 6°.2/19.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.29	+27 42.0	2.592	3.412	10.5	21.6
2 1	10 57.81	+29 2.7	2.513	3.400	8.4	21.4
2 11	10 51.41	+30 21.2	2.460	3.387	6.7	21.3
2 21	10 43.61	+31 30.3	2.435	3.374	6.2	21.3
3 2	10 35.14	+32 23.7	2.439	3.361	7.3	21.3
3 12	10 26.91	+32 57.0	2.470	3.347	9.3	21.4
3 22	10 19.72	+33 8.7	2.525	3.333	11.5	21.5
4 1	10 14.26	+32 59.4	2.602	3.319	13.6	21.7

131845 2002 AH_{120} 2 27.3 2°.29 0°.5/27.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.18	+ 6 7.7	1.151	1.987	19.7	19.1
2 1	10 58.50	+ 6 10.2	1.081	1.985	15.3	18.8
2 11	10 52.59	+ 6 31.3	1.030	1.985	10.1	18.5
2 21	10 44.24	+ 7 6.8	1.001	1.985	4.1	18.2
3 2	10 34.77	+ 7 49.1	0.997	1.987	2.2	18.0
3 12	10 25.89	+ 8 29.0	1.016	1.989	8.2	18.4
3 22	10 19.04	+ 8 58.9	1.059	1.993	13.7	18.7
4 1	10 15.23	+ 9 13.8	1.120	1.998	18.4	19.0

427714 2004 FH_{144} 2 27.3 339°.54 8°.3/17.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 57.91	+26 20.4	1.722	2.569	13.7	19.8
2 1	10 55.35	+28 17.6	1.653	2.556	11.0	19.6
2 11	10 50.26	+30 14.6	1.609	2.545	8.9	19.5
2 21	10 43.25	+31 59.9	1.591	2.534	8.4	19.4
3 2	10 35.33	+33 22.6	1.598	2.524	10.1	19.5
3 12	10 27.77	+34 15.3	1.630	2.515	12.8	19.6
3 22	10 21.69	+34 35.8	1.683	2.507	15.7	19.8
4 1	10 17.97	+34 25.6	1.754	2.500	18.3	20.0

262652 2006 WG_{69} 2 27.3 136°.56 5°.3/21.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 6.13	+22 11.2	2.241	3.059	12.0	21.4
2 1	11 0.70	+23 33.8	2.182	3.074	9.2	21.2
2 11	10 53.20	+24 56.4	2.148	3.089	6.6	21.1
2 21	10 44.27	+26 11.4	2.143	3.103	5.3	21.0
3 2	10 34.80	+27 11.4	2.167	3.116	6.4	21.1
3 12	10 25.78	+27 51.7	2.220	3.128	8.8	21.3
3 22	10 18.08	+28 10.8	2.299	3.139	11.4	21.5
4 1	10 12.35	+28 9.4	2.400	3.150	13.8	21.7

450996 2008 TZ_{57} 2 27.3 353°.68 5°.4/24.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 7.66	+18 23.7	1.271	2.114	17.8	21.1
2 1	11 3.34	+19 6.9	1.203	2.112	13.7	20.8
2 11	10 55.64	+19 54.8	1.156	2.110	9.2	20.6
2 21	10 45.41	+20 37.7	1.132	2.109	5.7	20.3
3 2	10 34.12	+21 5.4	1.134	2.108	6.8	20.4
3 12	10 23.53	+21 10.7	1.161	2.108	11.0	20.6
3 22	10 15.13	+20 51.6	1.210	2.108	15.5	20.9
4 1	10 9.91	+20 10.0	1.279	2.109	19.5	21.1

498837 2008 WF_{36} 2 27.3 163°.70 0°.5/27.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.17	+ 4 37.4	2.326	3.114	12.6	22.0
2 1	10 56.85	+ 5 1.7	2.239	3.117	9.7	21.9
2 11	10 50.74	+ 5 38.0	2.176	3.119	6.4	21.6
2 21	10 43.32	+ 6 23.1	2.140	3.121	2.7	21.4
3 2	10 35.34	+ 7 12.5	2.134	3.123	1.3	21.3
3 12	10 27.64	+ 8 0.9	2.158	3.125	5.0	21.6
3 22	10 20.96	+ 8 43.8	2.210	3.126	8.5	21.8
4 1	10 15.93	+ 9 17.6	2.287	3.127	11.6	22.0

373382 2012 TK_{30} 2 27.3 41°.17 3°.9/23.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.30	+19 5.9	2.138	2.958	12.4	20.5
2 1	10 59.39	+19 40.7	2.065	2.962	9.4	20.4
2 11	10 52.41	+20 17.0	2.017	2.966	6.3	20.2
2 21	10 43.98	+20 49.0	1.997	2.970	4.0	20.0
3 2	10 34.99	+21 11.2	2.005	2.975	4.8	20.1
3 12	10 26.44	+21 19.4	2.042	2.979	7.7	20.3
3 22	10 19.19	+21 12.1	2.105	2.984	10.8	20.5
4 1	10 13.89	+20 49.4	2.191	2.988	13.5	20.7

38113 1999 JB_{30} 2 27.3 223°.14 3°.3/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.42	− 2 45.9	1.865	2.632	16.0	20.0
2 1	10 59.17	− 2 37.9	1.767	2.624	12.9	19.8
2 11	10 52.57	− 2 9.2	1.690	2.616	9.3	19.5
2 21	10 44.16	− 1 21.3	1.638	2.607	5.4	19.3
3 2	10 34.83	− 0 17.9	1.614	2.598	3.3	19.1
3 12	10 25.71	+ 0 54.0	1.619	2.588	6.1	19.3
3 22	10 17.85	+ 2 6.8	1.651	2.578	10.1	19.5
4 1	10 12.08	+ 3 13.4	1.707	2.567	14.0	19.7

367549 2009 RU_{69} 2 27.3 161°.69 8°.7/14.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.69	+34 56.0	2.449	3.257	11.4	21.1
2 1	11 1.43	+37 10.5	2.401	3.264	9.7	21.0
2 11	10 53.88	+39 16.6	2.381	3.271	8.8	21.0
2 21	10 44.63	+41 4.8	2.389	3.277	8.9	21.0
3 2	10 34.60	+42 27.4	2.424	3.282	10.1	21.1
3 12	10 24.89	+43 20.4	2.484	3.286	11.8	21.2
3 22	10 16.51	+43 44.0	2.566	3.290	13.5	21.3
4 1	10 10.24	+43 40.9	2.666	3.293	15.1	21.5

209444 2004 FS_{115} 2 27.3 306°.59 3°.5/23.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 0.64	+16 34.7	2.175	2.998	12.1	19.9
2 1	10 56.70	+17 28.4	2.092	2.992	9.2	19.7
2 11	10 50.76	+18 27.1	2.034	2.986	6.0	19.5
2 21	10 43.38	+19 24.8	2.004	2.980	3.6	19.3
3 2	10 35.34	+20 15.0	2.002	2.974	4.5	19.4
3 12	10 27.60	+20 52.1	2.029	2.969	7.5	19.5
3 22	10 20.99	+21 13.1	2.082	2.963	10.7	19.7
4 1	10 16.20	+21 16.9	2.157	2.958	13.6	19.9

157901 1999 TC_{116} 2 27.3 170°.47 3°.2/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 0.54	− 5 15.5	2.501	3.241	13.1	20.7
2 1	10 56.29	− 4 58.3	2.406	3.245	10.6	20.5
2 11	10 50.34	− 4 23.7	2.334	3.247	7.8	20.4
2 21	10 43.18	− 3 33.1	2.289	3.250	4.9	20.2
3 2	10 35.46	− 2 29.7	2.272	3.252	3.2	20.1
3 12	10 27.97	− 1 18.8	2.287	3.253	4.8	20.2
3 22	10 21.42	− 0 6.1	2.330	3.254	7.7	20.4
4 1	10 16.38	+ 1 2.9	2.399	3.255	10.6	20.5

12164 Lowellgreen 2 27.3 326°.82 0°.9/26.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.31	+ 7 3.5	1.241	2.074	18.8	17.6
2 1	10 59.29	+ 7 40.1	1.164	2.068	14.5	17.3
2 11	10 53.12	+ 8 36.7	1.107	2.063	9.4	17.0
2 21	10 44.49	+ 9 46.9	1.073	2.058	3.6	16.7
3 2	10 34.67	+11 0.8	1.065	2.053	2.8	16.6
3 12	10 25.30	+12 7.5	1.081	2.049	8.7	16.9
3 22	10 17.84	+12 58.2	1.120	2.045	14.1	17.2
4 1	10 13.35	+13 28.1	1.180	2.042	18.8	17.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
401877 2001 ON_{32}			2 27.3 131°.89		3°.0/ 1.3 18	
	h m	° ′			°	m
1 22	11 5.78	− 2 38.6	2.352	3.099	13.6	21.9
2 1	11 0.24	− 2 43.9	2.271	3.116	10.9	21.7
2 11	10 52.84	− 2 33.9	2.213	3.132	7.8	21.6
2 21	10 44.14	− 2 10.0	2.183	3.148	4.7	21.4
3 2	10 34.93	− 1 35.0	2.181	3.163	3.1	21.3
3 12	10 26.07	− 0 53.5	2.211	3.177	5.0	21.5
3 22	10 18.35	− 0 10.3	2.269	3.190	8.1	21.7
4 1	10 12.36	+ 0 30.1	2.353	3.203	11.0	21.9
139073 2001 FP_{13}			2 27.3 300°.42		2°.1/25.8 18	
1 22	11 4.31	+11 33.6	1.562	2.387	16.0	20.2
2 1	11 0.26	+12 4.0	1.478	2.378	12.2	20.0
2 11	10 53.46	+12 45.4	1.415	2.370	7.8	19.7
2 21	10 44.55	+13 31.7	1.378	2.361	3.3	19.4
3 2	10 34.65	+14 15.4	1.368	2.353	3.5	19.4
3 12	10 25.11	+14 48.8	1.385	2.345	8.1	19.6
3 22	10 17.18	+15 7.1	1.426	2.337	12.7	19.9
4 1	10 11.78	+15 8.1	1.489	2.329	16.7	20.1
2917 Sawyer Hogg			2 27.3 116°.34		1°.4/26.2 18	
1 22	11 6.88	+11 52.3	2.129	2.932	13.1	16.6
2 1	11 1.26	+12 4.4	2.053	2.942	9.9	16.4
2 11	10 53.58	+12 22.8	2.002	2.952	6.3	16.2
2 21	10 44.45	+12 43.3	1.978	2.961	2.5	16.0
3 2	10 34.77	+13 1.3	1.984	2.970	2.4	16.0
3 12	10 25.53	+13 12.6	2.020	2.979	6.1	16.3
3 22	10 17.61	+13 14.6	2.084	2.988	9.6	16.5
4 1	10 11.66	+13 6.1	2.172	2.996	12.7	16.7
425508 2010 HE_{106}			2 27.3 243°.93		2°.5/24.4 17	
1 22	11 1.15	+14 54.9	2.558	3.370	10.9	21.5
2 1	10 56.80	+15 39.9	2.465	3.360	8.2	21.3
2 11	10 50.71	+16 30.2	2.397	3.349	5.3	21.1
2 21	10 43.35	+17 20.9	2.358	3.337	2.8	20.9
3 2	10 35.38	+18 6.9	2.349	3.326	3.4	20.9
3 12	10 27.61	+18 43.5	2.370	3.314	6.3	21.1
3 22	10 20.79	+19 7.5	2.418	3.302	9.3	21.2
4 1	10 15.52	+19 17.5	2.490	3.290	12.0	21.4
457725 2009 FE_{66}			2 27.3 274°.25		3°.2/24.8 16	
1 22	11 4.17	+13 40.6	1.629	2.457	15.3	21.9
2 1	11 0.10	+14 30.5	1.544	2.447	11.7	21.6
2 11	10 53.33	+15 30.4	1.482	2.437	7.5	21.3
2 21	10 44.50	+16 33.0	1.446	2.427	3.8	21.1
3 2	10 34.69	+17 29.6	1.437	2.417	4.5	21.1
3 12	10 25.21	+18 12.3	1.455	2.406	8.7	21.3
3 22	10 17.28	+18 36.3	1.497	2.396	13.0	21.5
4 1	10 11.82	+18 39.8	1.562	2.386	16.8	21.8
296300 2009 DA_{120}			2 27.3 32°.97		0°.4/26.9 17	
1 22	11 1.66	+ 8 21.7	2.011	2.818	13.6	20.5
2 1	10 57.45	+ 8 36.2	1.935	2.825	10.4	20.3
2 11	10 51.21	+ 9 0.5	1.882	2.832	6.6	20.1
2 21	10 43.54	+ 9 30.8	1.857	2.840	2.6	19.9
3 2	10 35.29	+10 2.2	1.860	2.848	1.7	19.8
3 12	10 27.44	+10 29.7	1.891	2.857	5.8	20.1
3 22	10 20.84	+10 49.5	1.950	2.865	9.5	20.4
4 1	10 16.12	+10 58.8	2.032	2.874	12.8	20.6
359041 2008 WN_{125}			2 27.3 45°.53		0°.7/27.8 18	
1 22	11 3.77	+ 4 45.0	1.263	2.085	19.2	21.2
2 1	11 0.03	+ 5 1.6	1.203	2.099	14.8	20.9
2 11	10 53.31	+ 5 37.7	1.162	2.113	9.7	20.7
2 21	10 44.45	+ 6 28.1	1.145	2.128	4.0	20.4
3 2	10 34.78	+ 7 24.6	1.154	2.143	2.0	20.3
3 12	10 25.82	+ 8 18.2	1.188	2.159	7.5	20.7
3 22	10 18.85	+ 9 1.1	1.246	2.175	12.5	21.0
4 1	10 14.70	+ 9 28.9	1.325	2.191	16.8	21.3
413214 2003 HY_{6}			2 27.3 8°.61		9°.1/21.9 18	
1 22	11 8.45	+27 52.7	1.288	2.134	17.5	20.0
2 1	11 3.90	+28 39.8	1.233	2.135	14.0	19.8
2 11	10 55.90	+29 19.3	1.198	2.138	10.8	19.6
2 21	10 45.48	+29 39.8	1.187	2.142	9.1	19.5
3 2	10 34.22	+29 32.3	1.199	2.148	10.3	19.6
3 12	10 23.95	+28 53.3	1.235	2.154	13.3	19.8
3 22	10 16.09	+27 45.5	1.293	2.162	16.7	20.0
4 1	10 11.46	+26 14.7	1.369	2.171	19.9	20.3
500968 2013 QF_{67}			2 27.3 219°.20		0°.9/28.2 17	
1 22	11 3.50	+ 3 35.9	2.320	3.099	12.9	23.1
2 1	10 58.75	+ 3 55.8	2.218	3.090	10.0	22.9
2 11	10 52.06	+ 4 28.6	2.140	3.080	6.7	22.7
2 21	10 43.92	+ 5 11.6	2.090	3.070	3.0	22.4
3 2	10 35.05	+ 6 0.6	2.069	3.059	1.4	22.3
3 12	10 26.36	+ 6 50.3	2.079	3.047	5.2	22.5
3 22	10 18.69	+ 7 35.7	2.118	3.034	8.8	22.7
4 1	10 12.72	+ 8 12.8	2.182	3.021	12.1	22.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
246448 2007 VV_{192}			2 27.3 109°.33		4°.9/21.2 17	
	h m	° ′			°	m
1 22	11 0.37	+22 3.7	2.439	3.264	10.9	20.4
2 1	10 56.27	+23 23.5	2.373	3.270	8.4	20.2
2 11	10 50.37	+24 43.8	2.333	3.276	6.0	20.1
2 21	10 43.20	+25 58.0	2.322	3.282	4.9	20.0
3 2	10 35.50	+26 59.6	2.339	3.288	6.0	20.1
3 12	10 28.12	+27 43.7	2.385	3.293	8.3	20.2
3 22	10 21.83	+28 8.5	2.457	3.299	10.7	20.4
4 1	10 17.20	+28 13.9	2.550	3.304	13.0	20.6
230902 2004 TW_{67}			2 27.3 125°.37		0°.5/26.8 18	
1 22	11 1.01	+ 6 11.1	2.211	3.007	12.9	20.8
2 1	10 56.79	+ 7 6.3	2.134	3.018	9.8	20.6
2 11	10 50.71	+ 8 14.1	2.081	3.029	6.2	20.4
2 21	10 43.34	+ 9 29.5	2.057	3.040	2.4	20.1
3 2	10 35.42	+10 46.4	2.062	3.050	1.8	20.1
3 12	10 27.84	+11 58.0	2.098	3.060	5.6	20.4
3 22	10 21.36	+12 59.2	2.161	3.070	9.1	20.6
4 1	10 16.61	+13 46.6	2.250	3.079	12.2	20.8
158953 2004 RX_{150}			2 27.3 103°.79		0°.6/28.0 18	
1 22	11 1.49	+ 2 53.7	2.175	2.959	13.4	20.4
2 1	10 57.12	+ 3 38.6	2.103	2.978	10.4	20.2
2 11	10 50.89	+ 4 38.1	2.054	2.996	6.8	20.1
2 21	10 43.39	+ 5 47.8	2.034	3.014	2.9	19.8
3 2	10 35.40	+ 7 2.1	2.043	3.032	1.4	19.7
3 12	10 27.80	+ 8 14.2	2.082	3.049	5.2	20.0
3 22	10 21.34	+ 9 18.7	2.149	3.066	8.7	20.3
4 1	10 16.63	+10 11.4	2.242	3.082	11.8	20.5
123357 2000 WE_{18}			2 27.3 45°.57		4°.3/ 2.2 18	
1 22	11 0.40	− 4 52.8	1.729	2.498	17.0	19.3
2 1	10 56.82	− 4 55.9	1.654	2.509	13.8	19.1
2 11	10 50.98	− 4 36.5	1.598	2.519	10.1	18.9
2 21	10 43.50	− 3 55.8	1.567	2.531	6.4	18.7
3 2	10 35.33	− 2 57.8	1.562	2.542	4.3	18.6
3 12	10 27.58	− 1 49.5	1.585	2.554	6.2	18.7
3 22	10 21.22	− 0 38.7	1.634	2.566	9.8	19.0
4 1	10 16.96	+ 0 27.0	1.706	2.578	13.4	19.2
447298 2005 WR_{82}			2 27.3 53°.91		1°.8/28.6 18	
1 22	11 4.17	+ 2 5.0	1.229	2.044	20.0	21.0
2 1	11 0.41	+ 2 17.6	1.169	2.059	15.6	20.8
2 11	10 53.59	+ 2 53.1	1.129	2.075	10.5	20.5
2 21	10 44.59	+ 3 47.1	1.111	2.091	4.9	20.2
3 2	10 34.74	+ 4 51.7	1.118	2.108	2.3	20.1
3 12	10 25.64	+ 5 56.7	1.151	2.124	7.4	20.5
3 22	10 18.57	+ 6 53.3	1.209	2.141	12.5	20.8
4 1	10 14.39	+ 7 35.4	1.287	2.158	16.9	21.1
381332 2007 WN_{63}			2 27.3 61°.80		9°.1/ 8.8 18	
1 22	11 4.29	−20 37.1	2.231	2.874	16.9	20.7
2 1	10 59.31	−21 38.2	2.167	2.905	14.9	20.6
2 11	10 52.33	−22 14.2	2.120	2.936	12.8	20.5
2 21	10 43.98	−22 22.6	2.095	2.966	10.8	20.4
3 2	10 35.09	−22 3.2	2.095	2.997	9.4	20.4
3 12	10 26.63	−21 19.5	2.120	3.027	9.2	20.4
3 22	10 19.43	−20 17.5	2.170	3.057	10.1	20.6
4 1	10 14.11	−19 4.9	2.245	3.087	11.7	20.7
199248 2006 AM_{100}			2 27.3 237°.27		0°.4/26.9 18	R
1 22	11 0.48	+ 6 20.5	1.973	2.777	13.9	20.1
2 1	10 56.71	+ 7 3.5	1.888	2.776	10.7	19.9
2 11	10 50.85	+ 8 0.5	1.826	2.775	6.8	19.6
2 21	10 43.46	+ 9 6.6	1.791	2.774	2.6	19.4
3 2	10 35.37	+10 15.6	1.785	2.773	1.8	19.3
3 12	10 27.59	+11 20.3	1.807	2.772	6.1	19.6
3 22	10 20.99	+12 14.9	1.857	2.771	10.0	19.8
4 1	10 16.31	+12 55.5	1.930	2.769	13.5	20.0
294213 2007 US_{2}			2 27.3 197°.28		0°.3/26.9 17	
1 22	11 0.04	+ 6 49.7	2.677	3.468	11.0	21.8
2 1	10 55.83	+ 7 29.1	2.583	3.465	8.4	21.6
2 11	10 50.03	+ 8 18.3	2.515	3.462	5.4	21.4
2 21	10 43.08	+ 9 14.0	2.475	3.458	2.1	21.2
3 2	10 35.61	+10 11.5	2.466	3.455	1.4	21.1
3 12	10 28.33	+11 6.0	2.488	3.450	4.8	21.4
3 22	10 21.92	+11 53.3	2.538	3.446	8.0	21.6
4 1	10 16.92	+12 30.4	2.614	3.441	10.7	21.7
299812 2006 SA_{132}			2 27.3 89°.03		3°.0/ 1.4 17	
1 22	11 1.69	− 2 19.2	2.424	3.179	13.1	20.7
2 1	10 57.15	− 2 31.4	2.339	3.189	10.5	20.5
2 11	10 50.89	− 2 29.3	2.278	3.199	7.5	20.4
2 21	10 43.42	− 2 14.1	2.243	3.209	4.6	20.2
3 2	10 35.43	− 1 48.2	2.238	3.218	3.0	20.1
3 12	10 27.73	− 1 15.5	2.261	3.228	4.9	20.2
3 22	10 21.05	− 0 40.3	2.314	3.238	7.8	20.4
4 1	10 15.94	− 0 7.0	2.392	3.248	10.6	20.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
212131 2005 EP_{225}			2 27.3	29°.42	3°.3/25.4	18
	h m	° ′			°	m
1 22	11 8.95	+15 23.8	1.372	2.204	17.4	20.0
2 1	11 3.96	+15 38.0	1.305	2.209	13.2	19.8
2 11	10 55.85	+15 58.0	1.259	2.214	8.6	19.5
2 21	10 45.49	+16 16.6	1.238	2.220	4.1	19.3
3 2	10 34.26	+16 26.6	1.244	2.226	4.5	19.3
3 12	10 23.76	+16 22.3	1.275	2.232	9.0	19.6
3 22	10 15.33	+16 1.8	1.331	2.239	13.6	19.9
4 1	10 9.85	+15 25.5	1.407	2.247	17.5	20.1
30579 2001 OW_{107}			2 27.3	101°.59	6°.4/20.6	18
1 22	11 4.94	+23 11.5	1.928	2.756	13.2	18.5
2 1	11 0.13	+24 53.5	1.878	2.775	10.2	18.3
2 11	10 53.00	+26 34.6	1.853	2.793	7.6	18.2
2 21	10 44.28	+28 5.4	1.856	2.811	6.4	18.2
3 2	10 34.96	+29 17.0	1.887	2.828	7.7	18.3
3 12	10 26.21	+30 4.0	1.945	2.845	10.2	18.5
3 22	10 18.97	+30 25.1	2.027	2.862	13.0	18.7
4 1	10 13.93	+30 22.1	2.129	2.878	15.4	18.9
99342 2001 XZ_{72}			2 27.3	197°.61	2°.7/24.7	18
1 22	11 3.31	+13 24.6	2.054	2.869	13.0	19.8
2 1	10 58.82	+14 18.0	1.971	2.868	9.9	19.6
2 11	10 52.19	+15 19.4	1.913	2.866	6.3	19.4
2 21	10 44.00	+16 22.6	1.882	2.863	3.1	19.2
3 2	10 35.10	+17 20.7	1.881	2.860	3.8	19.2
3 12	10 26.52	+18 7.4	1.909	2.857	7.3	19.4
3 22	10 19.17	+18 38.8	1.963	2.854	10.8	19.6
4 1	10 13.79	+18 53.2	2.040	2.850	13.9	19.8
131496 2001 SM_{239}			2 27.3	201°.82	1°.8/25.8	18
1 22	11 5.12	+ 9 33.4	1.760	2.571	15.0	20.7
2 1	11 0.58	+10 29.7	1.674	2.568	11.5	20.5
2 11	10 53.53	+11 39.5	1.612	2.564	7.3	20.2
2 21	10 44.58	+12 56.4	1.577	2.560	3.0	19.9
3 2	10 34.74	+14 12.0	1.570	2.555	3.2	19.9
3 12	10 25.22	+15 18.1	1.592	2.549	7.6	20.2
3 22	10 17.14	+16 8.4	1.640	2.543	11.8	20.4
4 1	10 11.35	+16 40.0	1.711	2.536	15.5	20.6
498039 2007 HD_{95}			2 27.3	317°.91	4°.4/ 2.2	17
1 22	10 59.17	− 5 7.4	1.799	2.566	16.5	21.1
2 1	10 56.01	− 5 12.0	1.704	2.557	13.5	20.9
2 11	10 50.59	− 4 54.3	1.628	2.548	10.1	20.6
2 21	10 43.43	− 4 14.8	1.576	2.539	6.5	20.4
3 2	10 35.40	− 3 16.6	1.551	2.531	4.4	20.3
3 12	10 27.58	− 2 5.9	1.553	2.522	6.4	20.4
3 22	10 20.98	− 0 50.7	1.582	2.515	10.1	20.5
4 1	10 16.45	+ 0 21.0	1.634	2.507	13.8	20.8
211035 2002 AJ_{183}			2 27.3	131°.79	1°.7/29.2	17
1 22	11 2.71	+ 1 32.4	2.747	3.511	11.5	20.7
2 1	10 57.69	+ 1 30.7	2.662	3.522	9.0	20.6
2 11	10 51.13	+ 1 39.8	2.602	3.533	6.2	20.4
2 21	10 43.49	+ 1 57.8	2.569	3.543	3.2	20.2
3 2	10 35.41	+ 2 22.1	2.567	3.554	1.8	20.1
3 12	10 27.61	+ 2 49.3	2.596	3.563	4.2	20.3
3 22	10 20.71	+ 3 15.9	2.654	3.573	7.2	20.5
4 1	10 15.25	+ 3 38.7	2.738	3.582	9.8	20.7
162496 2000 QH_{26}			2 27.4	119°.68	1°.7/26.1	18
1 22	11 8.57	+11 15.7	1.709	2.521	15.4	20.0
2 1	11 3.03	+11 43.0	1.640	2.533	11.7	19.8
2 11	10 54.95	+12 19.5	1.594	2.546	7.4	19.6
2 21	10 45.08	+12 59.4	1.574	2.557	3.0	19.3
3 2	10 34.51	+13 36.0	1.583	2.569	3.0	19.3
3 12	10 24.54	+14 3.4	1.620	2.580	7.3	19.6
3 22	10 16.22	+14 17.7	1.684	2.590	11.4	19.9
4 1	10 10.32	+14 17.6	1.771	2.600	14.9	20.1
54934 2001 OH_{105}			2 27.4	67°.04	4°.8/ 2.0	18
1 22	11 4.69	− 4 13.0	1.777	2.538	16.9	17.9
2 1	11 0.13	− 4 47.4	1.693	2.543	13.8	17.7
2 11	10 53.17	− 5 2.8	1.631	2.547	10.3	17.4
2 21	10 44.42	− 4 58.6	1.592	2.552	6.7	17.3
3 2	10 34.87	− 4 36.8	1.581	2.557	4.8	17.1
3 12	10 25.67	− 4 2.2	1.597	2.562	6.7	17.3
3 22	10 17.87	− 3 21.0	1.639	2.567	10.2	17.5
4 1	10 12.29	− 2 40.0	1.706	2.572	13.7	17.7
199538 2006 DE_{203}			2 27.4	245°.95	2°.6/24.9	18
1 22	11 2.60	+13 43.3	2.027	2.845	13.1	20.3
2 1	10 58.31	+14 28.0	1.945	2.842	9.9	20.1
2 11	10 51.87	+15 20.0	1.886	2.839	6.3	19.8
2 21	10 43.88	+16 13.5	1.855	2.836	3.1	19.6
3 2	10 35.19	+17 1.9	1.853	2.833	3.7	19.7
3 12	10 26.83	+17 39.4	1.880	2.830	7.2	19.9
3 22	10 19.71	+18 2.3	1.932	2.827	10.8	20.1
4 1	10 14.55	+18 9.0	2.008	2.824	13.9	20.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
76909 2000 YK_{127}			2 27.4	312°.35	2°.5/25.5	18
	h m	° ′			°	m
1 22	11 2.00	+11 25.5	1.412	2.247	16.8	19.1
2 1	10 58.88	+12 6.2	1.324	2.230	12.9	18.8
2 11	10 52.82	+13 0.7	1.257	2.214	8.3	18.5
2 21	10 44.42	+14 2.2	1.214	2.198	3.6	18.2
3 2	10 34.82	+15 1.3	1.198	2.182	4.0	18.2
3 12	10 25.50	+15 48.8	1.207	2.167	9.0	18.4
3 22	10 17.84	+16 18.2	1.239	2.153	14.0	18.6
4 1	10 12.91	+16 26.3	1.292	2.139	18.4	18.9
306607 2000 OD_{2}			2 27.4	162°.50	0°.3/27.7	18
1 22	11 5.12	+ 4 0.2	2.231	3.011	13.3	22.0
2 1	10 59.94	+ 4 45.1	2.145	3.019	10.3	21.8
2 11	10 52.78	+ 5 44.0	2.085	3.027	6.7	21.6
2 21	10 44.21	+ 6 52.8	2.052	3.034	2.7	21.4
3 2	10 35.02	+ 8 5.8	2.050	3.039	1.4	21.3
3 12	10 26.14	+ 9 16.2	2.079	3.044	5.4	21.5
3 22	10 18.42	+10 18.6	2.137	3.048	9.1	21.8
4 1	10 12.50	+11 9.0	2.220	3.051	12.3	22.0
46735 1997 UG_{1}			2 27.4	109°.91	4°.0/23.3	18
1 22	11 4.21	+19 36.2	2.258	3.077	11.9	18.3
2 1	10 59.23	+20 22.2	2.188	3.084	9.0	18.2
2 11	10 52.29	+21 9.6	2.144	3.092	6.1	18.0
2 21	10 43.99	+21 52.4	2.128	3.099	4.1	17.9
3 2	10 35.16	+22 24.9	2.141	3.107	5.0	17.9
3 12	10 26.76	+22 42.8	2.183	3.114	7.6	18.1
3 22	10 19.59	+22 44.5	2.251	3.121	10.5	18.3
4 1	10 14.28	+22 30.2	2.342	3.128	13.1	18.5
464897 2005 SM_{9}			2 27.4	109°.06	0°.4/26.9	18
1 22	11 5.80	+ 7 41.5	2.187	2.979	13.1	22.1
2 1	11 0.32	+ 8 9.5	2.119	3.002	10.0	22.0
2 11	10 52.91	+ 8 47.4	2.077	3.024	6.3	21.8
2 21	10 44.21	+ 9 30.8	2.062	3.045	2.4	21.6
3 2	10 35.05	+10 14.6	2.078	3.066	1.7	21.5
3 12	10 26.35	+10 53.8	2.123	3.086	5.5	21.8
3 22	10 18.93	+11 24.4	2.197	3.106	9.0	22.1
4 1	10 13.35	+11 44.2	2.296	3.125	12.0	22.3
301079 2008 UV_{254}			2 27.4	257°.04	5°.2/ 2.3	18
1 22	11 3.22	− 5 56.8	1.623	2.386	18.2	21.4
2 1	10 59.49	− 6 8.2	1.522	2.373	15.0	21.1
2 11	10 53.07	− 5 55.0	1.441	2.359	11.3	20.9
2 21	10 44.51	− 5 16.4	1.384	2.344	7.4	20.6
3 2	10 34.78	− 4 14.8	1.352	2.330	5.2	20.4
3 12	10 25.18	− 2 57.1	1.347	2.315	7.3	20.5
3 22	10 16.97	− 1 32.6	1.367	2.299	11.4	20.7
4 1	10 11.17	− 0 10.9	1.411	2.284	15.6	20.9
489512 2007 PT_{22}			2 27.4	202°.30	2°.8/24.8	17
1 22	11 10.25	+15 35.1	2.273	3.073	12.4	22.7
2 1	11 3.95	+16 10.7	2.180	3.068	9.5	22.5
2 11	10 55.43	+16 50.9	2.113	3.061	6.2	22.2
2 21	10 45.29	+17 30.3	2.075	3.054	3.2	22.0
3 2	10 34.40	+18 3.0	2.068	3.045	3.8	22.0
3 12	10 23.81	+18 24.3	2.091	3.035	7.0	22.2
3 22	10 14.46	+18 31.5	2.142	3.025	10.4	22.4
4 1	10 7.10	+18 24.0	2.218	3.013	13.5	22.6
208222 2000 SL_{147}			2 27.4	115°.85	1°.2/26.3	18
1 22	11 7.76	+ 9 20.4	1.801	2.606	15.0	21.0
2 1	11 2.24	+ 9 57.4	1.735	2.624	11.4	20.8
2 11	10 54.35	+10 45.3	1.692	2.642	7.2	20.6
2 21	10 44.83	+11 38.3	1.677	2.660	2.8	20.3
3 2	10 34.71	+12 29.4	1.690	2.677	2.5	20.4
3 12	10 25.16	+13 12.4	1.733	2.693	6.8	20.7
3 22	10 17.17	+13 42.9	1.802	2.709	10.7	20.9
4 1	10 11.45	+13 58.7	1.895	2.723	14.1	21.2
73668 1981 EG_{48}			2 27.4	343°.29	2°.8/29.6	18
1 22	10 59.82	− 1 12.5	1.537	2.331	17.7	19.4
2 1	10 56.81	− 0 56.2	1.452	2.328	14.1	19.1
2 11	10 51.24	− 0 16.3	1.388	2.325	9.9	18.9
2 21	10 43.73	+ 0 44.6	1.347	2.322	5.3	18.6
3 2	10 35.29	+ 2 0.8	1.333	2.320	2.8	18.4
3 12	10 27.18	+ 3 23.3	1.345	2.318	6.6	18.7
3 22	10 20.55	+ 4 42.7	1.383	2.316	11.2	18.9
4 1	10 16.29	+ 5 51.1	1.444	2.315	15.4	19.2
28188 1998 WV_{19}			2 27.4	38°.01	9°.0/ 5.4	18
1 22	11 3.45	−12 53.4	1.595	2.323	19.8	16.9
2 1	10 59.49	−14 2.6	1.521	2.332	17.0	16.8
2 11	10 52.91	−14 45.4	1.464	2.342	13.9	16.6
2 21	10 44.37	−14 58.1	1.428	2.353	11.0	16.4
3 2	10 34.93	−14 40.4	1.416	2.363	9.2	16.3
3 12	10 25.90	−13 56.5	1.429	2.375	9.5	16.4
3 22	10 18.44	−12 54.3	1.467	2.386	11.8	16.5
4 1	10 13.43	−11 43.8	1.527	2.398	14.7	16.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
323796 2005 QV_{150}			2 27.4 292°.04		2°.6/29.9 18	
	h m	° ′			°	m
1 22	10 58.44	− 3 15.6	1.764	2.542	16.4	20.5
2 1	10 55.50	− 2 34.3	1.667	2.533	13.1	20.3
2 11	10 50.29	− 1 27.7	1.592	2.524	9.3	20.0
2 21	10 43.34	+ 0 1.5	1.542	2.515	5.1	19.8
3 2	10 35.50	+ 1 47.2	1.519	2.506	2.7	19.6
3 12	10 27.89	+ 3 39.9	1.525	2.497	6.0	19.8
3 22	10 21.51	+ 5 29.5	1.558	2.488	10.4	20.0
4 1	10 17.20	+ 7 7.1	1.615	2.480	14.4	20.2
30892 1993 FR_{18}			2 27.4 184°.88		3°.5/23.1 18	
1 22	11 2.50	+19 37.9	2.774	3.587	10.1	19.6
2 1	10 57.66	+20 24.5	2.694	3.587	7.7	19.5
2 11	10 51.18	+21 12.5	2.640	3.587	5.2	19.3
2 21	10 43.55	+21 56.9	2.616	3.586	3.6	19.2
3 2	10 35.43	+22 32.9	2.621	3.585	4.3	19.2
3 12	10 27.59	+22 56.9	2.656	3.583	6.6	19.4
3 22	10 20.69	+23 6.9	2.718	3.581	9.1	19.6
4 1	10 15.31	+23 2.5	2.804	3.579	11.4	19.7
327221 2005 QS_{26}			2 27.4 57°.50		2°.2/25.5 18	
1 22	11 2.89	+11 15.3	1.673	2.496	15.2	20.9
2 1	10 58.82	+12 1.4	1.605	2.505	11.5	20.7
2 11	10 52.31	+12 58.0	1.559	2.513	7.3	20.5
2 21	10 44.08	+13 58.5	1.539	2.522	3.1	20.3
3 2	10 35.14	+14 55.2	1.548	2.532	3.4	20.3
3 12	10 26.71	+15 40.9	1.583	2.541	7.6	20.6
3 22	10 19.82	+16 10.9	1.644	2.550	11.6	20.8
4 1	10 15.20	+16 23.5	1.728	2.560	15.1	21.1
456736 2007 TG_{14}			2 27.4 124°.37		1°.0/26.6 18	
1 22	11 7.63	+ 9 3.5	1.855	2.658	14.7	21.9
2 1	11 2.12	+ 9 33.5	1.785	2.673	11.2	21.7
2 11	10 54.28	+10 14.0	1.738	2.688	7.1	21.5
2 21	10 44.82	+10 59.9	1.719	2.702	2.7	21.2
3 2	10 34.74	+11 45.0	1.728	2.716	2.3	21.2
3 12	10 25.18	+12 23.2	1.767	2.728	6.5	21.5
3 22	10 17.13	+12 50.2	1.833	2.741	10.5	21.8
4 1	10 11.28	+13 3.9	1.922	2.752	13.9	22.0
491144 2011 SD_{179}			2 27.4 209°.90		1°.7/26.1 18	
1 22	11 7.98	+10 58.4	1.790	2.599	14.9	22.3
2 1	11 2.75	+11 28.3	1.702	2.594	11.4	22.0
2 11	10 54.93	+12 8.4	1.638	2.589	7.3	21.8
2 21	10 45.18	+12 53.0	1.599	2.582	3.0	21.5
3 2	10 34.51	+13 35.6	1.590	2.576	3.0	21.5
3 12	10 24.17	+14 9.5	1.609	2.568	7.4	21.7
3 22	10 15.32	+14 30.3	1.655	2.560	11.6	21.9
4 1	10 8.82	+14 35.9	1.724	2.551	15.4	22.2
337762 2001 UJ_{130}			2 27.4 140°.32		4°.3/22.5 17	
1 22	11 3.55	+21 48.2	2.585	3.401	10.6	21.2
2 1	10 58.54	+22 38.3	2.515	3.408	8.2	21.0
2 11	10 51.77	+23 28.3	2.471	3.414	5.7	20.9
2 21	10 43.79	+24 12.4	2.456	3.421	4.3	20.8
3 2	10 35.34	+24 45.7	2.471	3.427	5.1	20.9
3 12	10 27.25	+25 4.4	2.514	3.433	7.4	21.0
3 22	10 20.25	+25 7.1	2.584	3.438	9.9	21.2
4 1	10 14.90	+24 54.2	2.677	3.444	12.1	21.4
77922 2002 EO_{66}			2 27.4 238°.95		0°.3/27.1 17	
1 22	11 5.69	+ 7 4.5	1.974	2.771	14.2	20.7
2 1	11 0.88	+ 7 31.8	1.871	2.756	11.0	20.4
2 11	10 53.71	+ 8 12.0	1.792	2.740	7.1	20.2
2 21	10 44.71	+ 9 1.2	1.740	2.723	2.8	19.9
3 2	10 34.76	+ 9 53.7	1.717	2.706	1.8	19.8
3 12	10 24.96	+10 42.9	1.724	2.688	6.4	20.0
3 22	10 16.37	+11 23.3	1.758	2.670	10.7	20.2
4 1	10 9.86	+11 51.0	1.816	2.650	14.4	20.4
126228 2002 AO_{53}			2 27.4 53°.47		2°.7/24.7 18	
1 22	10 59.84	+10 22.9	1.671	2.497	15.0	20.0
2 1	10 56.51	+11 49.3	1.606	2.509	11.3	19.8
2 11	10 50.84	+13 29.1	1.565	2.520	7.1	19.6
2 21	10 43.51	+15 13.5	1.550	2.532	3.2	19.4
3 2	10 35.50	+16 52.6	1.564	2.545	4.1	19.5
3 12	10 27.96	+18 16.9	1.605	2.557	8.1	19.7
3 22	10 21.88	+19 20.7	1.672	2.570	12.0	20.0
4 1	10 17.97	+20 1.5	1.761	2.583	15.3	20.2
459783 2013 RN_{26}			2 27.4 188°.10		0°.1/27.5 17	
1 22	11 1.08	+ 4 27.7	2.272	3.061	12.8	21.8
2 1	10 56.92	+ 5 15.0	2.181	3.061	9.9	21.6
2 11	10 50.89	+ 6 16.1	2.115	3.060	6.4	21.3
2 21	10 43.50	+ 7 27.2	2.076	3.058	2.6	21.1
3 2	10 35.49	+ 8 42.4	2.067	3.056	1.4	21.0
3 12	10 27.72	+ 9 55.3	2.089	3.054	5.3	21.3
3 22	10 20.97	+11 0.1	2.139	3.051	9.0	21.5
4 1	10 15.90	+11 52.8	2.213	3.048	12.1	21.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
163121 2002 BY_{9}			2 27.4 27°.21		6°.6/22.5 18	
	h m	° ′			°	m
1 22	11 4.77	+19 45.9	1.315	2.163	17.1	19.6
2 1	11 1.01	+21 4.1	1.256	2.166	13.1	19.3
2 11	10 54.10	+22 26.7	1.218	2.171	9.1	19.1
2 21	10 44.88	+23 41.9	1.204	2.175	6.6	19.0
3 2	10 34.74	+24 38.3	1.216	2.180	8.0	19.1
3 12	10 25.30	+25 7.8	1.252	2.186	11.8	19.3
3 22	10 17.92	+25 8.3	1.310	2.192	15.7	19.5
4 1	10 13.51	+24 42.0	1.387	2.198	19.2	19.8
407435 2010 TO_{168}			2 27.4 161°.75		6°.5/21.4 18	
1 22	11 10.36	+26 29.5	2.090	2.905	12.8	20.2
2 1	11 4.18	+27 29.2	2.024	2.910	10.2	20.0
2 11	10 55.61	+28 25.2	1.983	2.915	7.7	19.9
2 21	10 45.36	+29 9.3	1.969	2.919	6.5	19.8
3 2	10 34.49	+29 34.9	1.984	2.923	7.5	19.9
3 12	10 24.16	+29 37.9	2.026	2.926	9.9	20.0
3 22	10 15.40	+29 18.4	2.093	2.929	12.6	20.2
4 1	10 8.93	+28 38.8	2.182	2.931	15.0	20.4
383643 2007 RN_{292}			2 27.4 61°.52		1°.6/29.0 17	
1 22	10 58.89	+ 0 26.1	2.108	2.890	13.9	21.3
2 1	10 55.32	+ 0 58.0	2.027	2.898	10.9	21.1
2 11	10 49.87	+ 1 46.7	1.969	2.906	7.4	20.9
2 21	10 43.10	+ 2 48.8	1.938	2.915	3.7	20.7
3 2	10 35.76	+ 3 59.2	1.935	2.924	1.8	20.6
3 12	10 28.74	+ 5 11.3	1.962	2.933	5.1	20.8
3 22	10 22.82	+ 6 18.9	2.016	2.941	8.7	21.1
4 1	10 18.62	+ 7 16.8	2.096	2.950	12.0	21.3
84750 2002 XN_{10}			2 27.4 35°.10		8°.4/ 4.8 18	
1 22	11 2.98	−11 22.6	1.533	2.274	20.0	19.0
2 1	10 59.22	−12 23.7	1.458	2.282	17.0	18.8
2 11	10 52.79	−12 58.1	1.401	2.290	13.7	18.6
2 21	10 44.36	−13 2.7	1.366	2.300	10.5	18.5
3 2	10 35.02	−12 37.6	1.354	2.309	8.6	18.4
3 12	10 26.09	−11 47.9	1.367	2.320	9.1	18.4
3 22	10 18.78	−10 42.1	1.405	2.330	11.7	18.6
4 1	10 13.96	− 9 30.2	1.465	2.341	14.9	18.8
288525 2004 FT_{156}			2 27.4 36°.49		0°.7/28.1 18	
1 22	10 58.62	+ 3 12.9	1.931	2.730	14.4	20.6
2 1	10 55.26	+ 3 48.4	1.856	2.739	11.1	20.4
2 11	10 49.90	+ 4 39.8	1.804	2.749	7.3	20.2
2 21	10 43.12	+ 5 42.8	1.778	2.759	3.2	20.0
3 2	10 35.76	+ 6 51.5	1.780	2.770	1.5	19.9
3 12	10 28.77	+ 7 58.9	1.811	2.781	5.6	20.2
3 22	10 22.99	+ 8 58.7	1.869	2.792	9.4	20.4
4 1	10 19.06	+ 9 46.4	1.951	2.804	12.8	20.6
203410 2001 XW_{185}			2 27.4 113°.53		0°.8/28.0 18	
1 22	11 7.02	+ 3 31.0	1.749	2.539	16.0	21.0
2 1	11 1.75	+ 4 0.4	1.681	2.559	12.4	20.8
2 11	10 54.09	+ 4 46.1	1.635	2.578	8.1	20.6
2 21	10 44.78	+ 5 43.6	1.616	2.597	3.5	20.4
3 2	10 34.84	+ 6 46.5	1.626	2.616	1.6	20.3
3 12	10 25.46	+ 7 47.2	1.665	2.633	6.1	20.6
3 22	10 17.63	+ 8 39.5	1.731	2.650	10.3	20.9
4 1	10 12.08	+ 9 19.3	1.821	2.666	13.9	21.1
336552 2009 DC_{15}			2 27.4 68°.03		0°.6/27.9 17	
1 22	11 5.30	+ 6 28.2	2.166	2.956	13.3	20.6
2 1	11 0.07	+ 6 19.5	2.088	2.967	10.3	20.4
2 11	10 52.85	+ 6 20.1	2.034	2.978	6.7	20.2
2 21	10 44.27	+ 6 27.5	2.008	2.989	2.9	20.0
3 2	10 35.15	+ 6 38.5	2.011	3.001	1.4	19.9
3 12	10 26.43	+ 6 49.1	2.044	3.012	5.2	20.2
3 22	10 18.94	+ 6 56.1	2.105	3.023	8.8	20.4
4 1	10 13.30	+ 6 57.0	2.191	3.035	11.9	20.6
110842 2001 UD_{73}			2 27.4 266°.75		0°.6/28.1 18	
1 22	10 59.88	+ 4 6.8	2.362	3.150	12.4	20.1
2 1	10 56.01	+ 4 30.4	2.261	3.138	9.7	19.9
2 11	10 50.34	+ 5 6.6	2.184	3.127	6.4	19.7
2 21	10 43.32	+ 5 52.5	2.134	3.115	2.8	19.4
3 2	10 35.65	+ 6 43.8	2.114	3.103	1.3	19.3
3 12	10 28.14	+ 7 35.3	2.123	3.091	5.0	19.5
3 22	10 21.58	+ 8 22.1	2.160	3.079	8.6	19.7
4 1	10 16.60	+ 9 0.2	2.223	3.067	11.8	19.9
144511 2004 EO_{75}			2 27.4 197°.23		3°.6/23.3 18	
1 22	11 3.20	+19 42.2	2.694	3.507	10.4	20.4
2 1	10 58.26	+20 24.4	2.612	3.505	7.9	20.3
2 11	10 51.62	+21 7.9	2.556	3.502	5.4	20.1
2 21	10 43.78	+21 47.7	2.529	3.499	3.6	20.0
3 2	10 35.42	+22 19.0	2.532	3.496	4.4	20.0
3 12	10 27.35	+22 38.1	2.564	3.493	6.8	20.2
3 22	10 20.26	+22 43.1	2.624	3.490	9.4	20.3
4 1	10 14.74	+22 33.8	2.707	3.486	11.7	20.5

303237 2004 PS_{41} 2 27.4 231.°85 0.°6/27.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 6.80	+ 4 46.2	1.824	2.616	15.4	22.2
2 1	11 1.91	+ 5 2.5	1.724	2.604	12.0	22.0
2 11	10 54.48	+ 5 33.9	1.647	2.591	8.0	21.7
2 21	10 45.07	+ 6 17.1	1.596	2.577	3.4	21.4
3 2	10 34.63	+ 7 6.8	1.573	2.563	1.7	21.2
3 12	10 24.38	+ 7 56.2	1.580	2.548	6.5	21.5
3 22	10 15.46	+ 8 39.1	1.614	2.532	11.0	21.7
4 1	10 8.79	+ 9 10.8	1.671	2.515	15.0	22.0

48097 2001 FW_{52} 2 27.4 357.°85 2.°3/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.11	+ 2 45.2	1.318	2.134	18.9	19.0
2 1	10 58.94	+ 2 30.4	1.241	2.131	14.9	18.7
2 11	10 52.82	+ 2 34.7	1.183	2.129	10.2	18.5
2 21	10 44.45	+ 2 56.0	1.148	2.127	5.1	18.2
3 2	10 35.02	+ 3 29.4	1.139	2.127	2.6	18.0
3 12	10 26.04	+ 4 7.5	1.154	2.128	7.3	18.3
3 22	10 18.85	+ 4 42.7	1.194	2.129	12.4	18.6
4 1	10 14.43	+ 5 8.8	1.254	2.131	16.8	18.8

353826 2012 UF_{56} 2 27.4 201.°34 0.°9/26.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.49	+ 9 42.7	2.584	3.383	11.2	21.3
2 1	10 57.01	+10 10.6	2.494	3.380	8.5	21.1
2 11	10 50.85	+10 46.1	2.428	3.377	5.4	20.9
2 21	10 43.50	+11 25.7	2.391	3.374	2.1	20.7
3 2	10 35.60	+12 5.1	2.384	3.371	1.9	20.7
3 12	10 27.94	+12 39.7	2.408	3.368	5.2	20.9
3 22	10 21.21	+13 6.4	2.459	3.364	8.3	21.1
4 1	10 15.98	+13 22.8	2.536	3.360	11.1	21.2

456113 2006 CR_{32} 2 27.4 54.°61 3.°4/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.17	− 0 42.5	1.355	2.154	19.4	21.4
2 1	11 0.32	− 0 49.7	1.286	2.163	15.5	21.2
2 11	10 53.57	− 0 33.8	1.235	2.172	10.8	20.9
2 21	10 44.70	+ 0 3.2	1.208	2.182	6.0	20.7
3 2	10 34.92	+ 0 55.9	1.206	2.192	3.4	20.5
3 12	10 25.70	+ 1 55.8	1.230	2.203	7.1	20.8
3 22	10 18.32	+ 2 54.1	1.279	2.213	11.8	21.1
4 1	10 13.65	+ 3 43.3	1.350	2.224	16.1	21.4

395779 2012 VH_{88} 2 27.4 71.°69 3.°5/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.50	− 1 12.1	1.372	2.167	19.4	20.5
2 1	11 0.67	− 1 18.8	1.294	2.169	15.5	20.3
2 11	10 53.89	− 1 1.8	1.236	2.171	11.0	20.0
2 21	10 44.87	− 0 22.8	1.200	2.174	6.2	19.8
3 2	10 34.80	+ 0 33.4	1.190	2.176	3.6	19.6
3 12	10 25.18	+ 1 38.2	1.206	2.178	7.2	19.8
3 22	10 17.34	+ 2 42.2	1.247	2.181	12.1	20.1
4 1	10 12.26	+ 3 37.4	1.309	2.183	16.5	20.4

40405 1999 OU 2 27.4 60.°16 0.°8/28.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 0.93	+ 3 11.2	1.778	2.578	15.4	19.4
2 1	10 57.15	+ 3 45.6	1.708	2.591	11.9	19.2
2 11	10 51.18	+ 4 36.9	1.660	2.605	7.8	18.9
2 21	10 43.67	+ 5 40.5	1.638	2.619	3.4	18.7
3 2	10 35.53	+ 6 50.0	1.644	2.633	1.6	18.6
3 12	10 27.85	+ 7 57.6	1.678	2.647	5.9	18.9
3 22	10 21.53	+ 8 57.0	1.739	2.662	10.0	19.2
4 1	10 17.26	+ 9 43.4	1.823	2.676	13.5	19.4

112560 2002 PD_{47} 2 27.4 131.°31 3.°4/ 2.4 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 0.20	− 5 50.6	2.508	3.246	13.1	19.5
2 1	10 56.04	− 5 39.6	2.420	3.256	10.7	19.4
2 11	10 50.22	− 5 11.4	2.355	3.266	7.9	19.2
2 21	10 43.24	− 4 27.3	2.317	3.275	5.1	19.0
3 2	10 35.77	− 3 30.3	2.307	3.284	3.4	18.9
3 12	10 28.55	− 2 25.4	2.327	3.293	4.8	19.0
3 22	10 22.28	− 1 18.1	2.376	3.301	7.6	19.2
4 1	10 17.51	− 0 13.7	2.451	3.309	10.3	19.4

341459 2007 TP_{307} 2 27.4 101.°96 3.°4/23.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.57	+18 18.3	2.374	3.189	11.5	21.1
2 1	10 59.38	+18 56.6	2.307	3.202	8.7	20.9
2 11	10 52.35	+19 36.8	2.266	3.215	5.8	20.8
2 21	10 44.07	+20 13.4	2.253	3.227	3.6	20.6
3 2	10 35.33	+20 41.4	2.270	3.240	4.3	20.7
3 12	10 27.01	+20 56.9	2.315	3.252	6.9	20.9
3 22	10 19.89	+20 58.4	2.388	3.264	9.7	21.1
4 1	10 14.53	+20 45.7	2.485	3.276	12.3	21.3

496089 2009 SH_{194} 2 27.4 160.°75 0.°9/28.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.49	+ 3 14.0	2.492	3.266	12.2	22.9
2 1	10 58.53	+ 3 37.2	2.405	3.273	9.5	22.7
2 11	10 51.82	+ 4 12.3	2.342	3.280	6.3	22.5
2 21	10 43.89	+ 4 56.5	2.307	3.286	2.8	22.3
3 2	10 35.42	+ 5 45.8	2.303	3.292	1.3	22.2
3 12	10 27.22	+ 6 35.3	2.329	3.296	4.7	22.4
3 22	10 20.03	+ 7 20.4	2.384	3.300	8.0	22.6
4 1	10 14.42	+ 7 57.6	2.466	3.304	10.9	22.8

433555 2013 XF_{11} 2 27.4 49.°27 13.°1/10.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 9.16	+47 26.8	2.019	2.803	14.3	20.5
2 1	11 4.18	+49 30.7	1.997	2.813	13.4	20.4
2 11	10 56.03	+51 13.4	1.997	2.823	13.1	20.4
2 21	10 45.64	+52 24.9	2.019	2.833	13.5	20.5
3 2	10 34.45	+52 58.9	2.063	2.843	14.5	20.6
3 12	10 24.11	+52 54.3	2.125	2.853	15.8	20.7
3 22	10 15.94	+52 15.0	2.204	2.864	17.1	20.8
4 1	10 10.77	+51 6.9	2.297	2.875	18.3	20.9

279168 2009 SS_{160} 2 27.4 170.°32 0.°4/27.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.16	+ 5 8.3	2.068	2.860	13.8	21.8
2 1	10 58.67	+ 5 29.1	1.981	2.862	10.7	21.6
2 11	10 52.11	+ 6 2.8	1.919	2.863	7.0	21.4
2 21	10 44.06	+ 6 45.8	1.883	2.865	2.9	21.2
3 2	10 35.33	+ 7 33.2	1.876	2.866	1.4	21.0
3 12	10 26.91	+ 8 19.2	1.899	2.866	5.6	21.3
3 22	10 19.69	+ 8 58.9	1.949	2.867	9.4	21.6
4 1	10 14.34	+ 9 28.5	2.024	2.867	12.8	21.8

87439 2000 QZ_{108} 2 27.4 217.°44 2.°1/24.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 0.27	+13 14.5	2.679	3.487	10.5	20.2
2 1	10 56.08	+14 3.3	2.589	3.482	8.0	20.0
2 11	10 50.27	+14 58.3	2.524	3.476	5.1	19.8
2 21	10 43.29	+15 55.0	2.489	3.469	2.5	19.7
3 2	10 35.77	+16 48.2	2.483	3.463	3.0	19.7
3 12	10 28.45	+17 33.4	2.508	3.456	5.8	19.9
3 22	10 22.00	+18 7.1	2.560	3.449	8.7	20.0
4 1	10 17.01	+18 27.5	2.638	3.441	11.3	20.2

490115 2008 UH_{52} 2 27.4 103.°48 4.°6/ 3.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.36	− 9 8.8	2.431	3.150	14.0	21.9
2 1	10 56.92	− 9 9.8	2.352	3.169	11.6	21.8
2 11	10 50.79	− 8 51.7	2.294	3.188	8.9	21.6
2 21	10 43.48	− 8 15.2	2.262	3.206	6.2	21.5
3 2	10 35.70	− 7 23.0	2.258	3.225	4.6	21.4
3 12	10 28.24	− 6 19.7	2.283	3.242	5.4	21.5
3 22	10 21.81	− 5 11.2	2.336	3.260	7.8	21.7
4 1	10 16.96	− 4 3.3	2.417	3.277	10.4	21.9

281885 2010 JH_{163} 2 27.4 198.°64 3.°0/23.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.61	+16 43.1	2.588	3.401	10.7	21.3
2 1	10 57.14	+17 30.4	2.505	3.400	8.1	21.1
2 11	10 50.96	+18 21.4	2.448	3.397	5.3	20.9
2 21	10 43.57	+19 11.0	2.419	3.395	3.1	20.8
3 2	10 35.64	+19 54.1	2.420	3.393	3.9	20.8
3 12	10 27.97	+20 26.4	2.451	3.390	6.5	21.0
3 22	10 21.28	+20 45.2	2.509	3.387	9.3	21.2
4 1	10 16.14	+20 49.6	2.591	3.383	11.8	21.3

437467 2013 YA_{35} 2 27.4 94.°81 2.°4/29.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.55	− 0 2.1	2.344	3.110	13.1	20.8
2 1	10 57.91	− 0 11.3	2.260	3.118	10.4	20.6
2 11	10 51.48	− 0 7.3	2.198	3.127	7.3	20.4
2 21	10 43.78	+ 0 8.6	2.164	3.135	4.1	20.2
3 2	10 35.53	+ 0 33.5	2.158	3.143	2.5	20.1
3 12	10 27.58	+ 1 3.5	2.182	3.151	4.8	20.3
3 22	10 20.68	+ 1 34.2	2.235	3.159	8.0	20.5
4 1	10 15.43	+ 2 1.6	2.313	3.167	11.0	20.7

98250 2000 SO_{169} 2 27.4 109.°78 0.°9/28.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.54	+ 3 41.0	1.723	2.516	16.1	20.1
2 1	11 1.47	+ 4 1.7	1.653	2.533	12.5	19.9
2 11	10 53.99	+ 4 38.5	1.606	2.549	8.2	19.6
2 21	10 44.81	+ 5 27.2	1.585	2.565	3.6	19.4
3 2	10 34.97	+ 6 21.7	1.592	2.581	1.7	19.3
3 12	10 25.66	+ 7 15.1	1.627	2.596	6.2	19.6
3 22	10 17.91	+ 8 1.1	1.690	2.611	10.4	19.9
4 1	10 12.44	+ 8 35.6	1.776	2.625	14.0	20.1

260855 2005 QH_{84} 2 27.4 61.°69 5.°8/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 7.36	− 6 15.8	1.671	2.422	18.2	20.1
2 1	11 2.11	− 7 2.9	1.607	2.447	14.9	19.9
2 11	10 54.40	− 7 28.2	1.563	2.471	11.3	19.7
2 21	10 44.96	− 7 30.9	1.544	2.496	7.8	19.6
3 2	10 34.89	− 7 13.0	1.551	2.521	5.9	19.5
3 12	10 25.41	− 6 39.5	1.585	2.546	7.2	19.7
3 22	10 17.57	− 5 57.6	1.645	2.570	10.3	19.9
4 1	10 12.10	− 5 14.2	1.729	2.595	13.5	20.1

20827 2000 UY_{25} 2 27.4 194.°72 1.°0/26.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 59.30	+ 9 23.7	2.748	3.547	10.6	19.6
2 1	10 55.27	+10 5.9	2.658	3.545	8.0	19.4
2 11	10 49.72	+10 56.1	2.594	3.544	5.1	19.2
2 21	10 43.07	+11 50.7	2.558	3.542	2.0	19.0
3 2	10 35.93	+12 44.9	2.553	3.539	1.9	19.0
3 12	10 28.99	+13 34.2	2.579	3.537	5.0	19.2
3 22	10 22.90	+14 15.0	2.633	3.534	8.0	19.4
4 1	10 18.17	+14 44.7	2.712	3.531	10.6	19.6

472695 2015 FD_8 2 27.4 301°.55 1°.2/26.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	10 59.35	+ 7 40.3	1.933	2.744	13.9	21.3
2 1	10 55.99	+ 8 40.9	1.846	2.740	10.6	21.1
2 11	10 50.52	+ 9 55.9	1.783	2.735	6.7	20.8
2 21	10 43.47	+11 19.6	1.747	2.730	2.6	20.6
3 2	10 35.69	+12 44.4	1.739	2.726	2.5	20.6
3 12	10 28.17	+14 2.3	1.761	2.721	6.6	20.8
3 22	10 21.84	+15 6.9	1.809	2.717	10.6	21.0
4 1	10 17.42	+15 54.3	1.880	2.713	14.0	21.2

279440 2010 OQ_{99} 2 27.4 43°.61 3°.7/25.4 18

1 22	11 11.59	+16 34.7	1.313	2.146	18.0	20.1
2 1	11 5.68	+16 47.0	1.270	2.173	13.6	19.9
2 11	10 56.74	+17 2.9	1.247	2.201	8.7	19.7
2 21	10 45.84	+17 15.1	1.250	2.230	4.4	19.5
3 2	10 34.48	+17 16.7	1.279	2.260	4.8	19.6
3 12	10 24.25	+17 3.8	1.334	2.289	9.0	19.9
3 22	10 16.31	+16 35.6	1.414	2.320	13.2	20.2
4 1	10 11.33	+15 53.7	1.514	2.350	16.7	20.5

256369 Vilain 2 27.4 73°.40 0°.3/27.2 18

1 22	11 6.96	+ 6 26.7	1.728	2.528	15.7	21.7
2 1	11 1.56	+ 7 2.3	1.676	2.562	11.9	21.5
2 11	10 53.88	+ 7 51.0	1.648	2.596	7.6	21.3
2 21	10 44.70	+ 8 47.3	1.646	2.629	2.9	21.1
3 2	10 35.09	+ 9 44.1	1.673	2.662	1.8	21.1
3 12	10 26.19	+10 34.8	1.729	2.694	6.3	21.4
3 22	10 18.91	+11 14.5	1.811	2.726	10.2	21.7
4 1	10 13.87	+11 40.5	1.918	2.757	13.5	22.0

35376 1997 VJ_5 2 27.4 224°.85 2°.3/29.3 18

1 22	11 4.99	− 0 1.0	1.888	2.663	15.5	19.3
2 1	11 0.43	+ 0 8.5	1.788	2.654	12.4	19.0
2 11	10 53.49	+ 0 36.2	1.710	2.644	8.6	18.8
2 21	10 44.71	+ 1 20.2	1.658	2.633	4.6	18.5
3 2	10 34.99	+ 2 16.2	1.635	2.622	2.5	18.3
3 12	10 25.45	+ 3 17.6	1.640	2.610	6.0	18.5
3 22	10 17.16	+ 4 17.6	1.672	2.597	10.2	18.7
4 1	10 10.98	+ 5 9.9	1.729	2.584	14.1	19.0

327353 2005 UR_{228} 2 27.4 161°.08 2°.1/25.3 16

1 22	11 4.13	+12 14.1	2.220	3.027	12.5	22.0
2 1	10 59.26	+13 0.1	2.141	3.033	9.4	21.8
2 11	10 52.42	+13 53.6	2.086	3.037	6.0	21.6
2 21	10 44.18	+14 49.4	2.060	3.042	2.7	21.4
3 2	10 35.34	+15 41.5	2.064	3.046	3.1	21.4
3 12	10 26.83	+16 24.3	2.097	3.049	6.4	21.6
3 22	10 19.50	+16 54.3	2.157	3.052	9.8	21.8
4 1	10 13.98	+17 9.7	2.242	3.054	12.8	22.0

177082 2003 FT_{55} 2 27.4 241°.61 0°.9/26.4 18

1 22	11 2.46	+10 32.5	2.617	3.415	11.1	20.4
2 1	10 57.77	+10 49.2	2.521	3.407	8.4	20.3
2 11	10 51.38	+11 12.5	2.450	3.399	5.4	20.0
2 21	10 43.76	+11 39.0	2.408	3.391	2.1	19.8
3 2	10 35.57	+12 4.8	2.395	3.382	1.9	19.8
3 12	10 27.58	+12 26.2	2.413	3.373	5.1	20.0
3 22	10 20.52	+12 40.1	2.460	3.364	8.3	20.2
4 1	10 14.97	+12 44.7	2.531	3.355	11.1	20.3

503197 2015 HA_{11} 2 27.4 317°.91 7°.7/ 5.7 18

1 22	10 56.68	−17 0.9	1.091	1.845	25.7	20.7
2 1	10 55.50	−16 5.8	1.005	1.841	22.1	20.4
2 11	10 51.04	−14 12.4	0.934	1.836	17.6	20.1
2 21	10 43.92	−11 16.4	0.882	1.833	12.4	19.8
3 2	10 35.42	− 7 24.1	0.854	1.829	8.2	19.5
3 12	10 27.28	− 2 57.0	0.851	1.825	9.0	19.6
3 22	10 21.12	+ 1 34.6	0.874	1.822	14.0	19.8
4 1	10 18.15	+ 5 42.3	0.921	1.819	19.5	20.1

402521 2006 DV_{195} 2 27.4 305°.24 3°.6/24.9 18

1 22	11 5.37	+14 12.5	1.387	2.223	17.0	20.2
2 1	11 1.53	+14 52.5	1.306	2.212	13.0	20.0
2 11	10 54.59	+15 42.5	1.246	2.202	8.5	19.7
2 21	10 45.24	+16 34.7	1.210	2.192	4.2	19.4
3 2	10 34.72	+17 19.7	1.201	2.182	5.0	19.4
3 12	10 24.60	+17 48.8	1.217	2.172	9.6	19.6
3 22	10 16.32	+17 57.6	1.256	2.163	14.4	19.9
4 1	10 10.92	+17 44.9	1.316	2.154	18.6	20.1

160761 2000 SE_{105} 2 27.4 197°.07 2°.3/25.2 17

1 22	11 7.42	+12 46.7	2.206	3.008	12.7	21.5
2 1	11 1.89	+13 33.7	2.115	3.004	9.7	21.2
2 11	10 54.21	+14 28.4	2.050	3.000	6.2	21.0
2 21	10 44.94	+15 25.4	2.013	2.994	2.9	20.8
3 2	10 34.92	+16 18.3	2.007	2.988	3.3	20.8
3 12	10 25.17	+17 1.3	2.031	2.981	6.8	21.0
3 22	10 16.63	+17 30.5	2.083	2.972	10.3	21.2
4 1	10 10.01	+17 44.3	2.158	2.963	13.5	21.4

384912 2012 TJ_{54} 2 27.4 156°.01 3°.2/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 0.53	− 4 33.3	2.694	3.434	12.3	21.3
2 1	10 56.22	− 4 35.5	2.601	3.438	10.0	21.1
2 11	10 50.34	− 4 23.1	2.531	3.443	7.3	20.9
2 21	10 43.34	− 3 56.9	2.487	3.447	4.7	20.8
3 2	10 35.84	− 3 19.3	2.473	3.450	3.2	20.7
3 12	10 28.55	− 2 34.2	2.488	3.454	4.6	20.8
3 22	10 22.13	− 1 46.0	2.533	3.457	7.2	20.9
4 1	10 17.11	− 0 59.1	2.604	3.460	9.9	21.1

7911 Carlpilcher 2 27.4 275°.85 0°.5/27.0 18

1 22	11 6.47	+ 9 43.7	2.177	2.974	13.0	17.6
2 1	11 1.25	+ 9 40.9	2.074	2.959	10.0	17.4
2 11	10 53.85	+ 9 45.3	1.996	2.943	6.5	17.1
2 21	10 44.82	+ 9 53.9	1.945	2.928	2.6	16.9
3 2	10 34.97	+10 2.8	1.923	2.912	1.7	16.8
3 12	10 25.33	+10 8.2	1.932	2.896	5.8	17.0
3 22	10 16.82	+10 6.9	1.969	2.880	9.7	17.2
4 1	10 10.22	+ 9 57.1	2.030	2.864	13.1	17.4

330002 2005 TV_{119} 2 27.4 101°.42 2°.1/25.7 18

1 22	11 5.78	+12 30.4	1.879	2.693	14.1	21.4
2 1	11 0.79	+13 1.7	1.808	2.703	10.7	21.2
2 11	10 53.51	+13 40.6	1.761	2.713	6.8	21.0
2 21	10 44.64	+14 21.4	1.740	2.723	3.0	20.8
3 2	10 35.13	+14 58.0	1.749	2.732	3.2	20.8
3 12	10 26.11	+15 24.8	1.786	2.742	7.0	21.1
3 22	10 18.54	+15 38.5	1.849	2.751	10.8	21.3
4 1	10 13.12	+15 37.9	1.935	2.760	14.0	21.5

458951 2011 UH_{379} 2 27.4 81°.48 1°.1/26.6 18

1 22	11 6.95	+ 8 53.1	1.536	2.351	16.7	22.0
2 1	11 2.02	+ 9 24.3	1.475	2.369	12.7	21.8
2 11	10 54.45	+10 8.1	1.435	2.387	8.0	21.5
2 21	10 45.03	+10 58.4	1.422	2.406	3.1	21.3
3 2	10 34.94	+11 47.7	1.436	2.423	2.5	21.3
3 12	10 25.53	+12 28.7	1.477	2.441	7.3	21.6
3 22	10 17.89	+12 56.5	1.545	2.459	11.7	21.9
4 1	10 12.78	+13 8.8	1.634	2.476	15.4	22.2

130251 2000 CM_{118} 2 27.4 113°.71 1°.2/26.0 18

1 22	11 0.64	+ 8 38.2	2.245	3.049	12.5	19.8
2 1	10 56.56	+ 9 36.7	2.170	3.060	9.4	19.6
2 11	10 50.67	+10 45.9	2.120	3.071	5.9	19.4
2 21	10 43.49	+12 0.3	2.098	3.081	2.3	19.2
3 2	10 35.79	+13 13.8	2.105	3.091	2.3	19.2
3 12	10 28.41	+14 19.9	2.143	3.101	5.9	19.5
3 22	10 22.11	+15 14.2	2.208	3.111	9.2	19.7
4 1	10 17.51	+15 53.6	2.298	3.120	12.2	19.9

29262 1993 FP_{14} 2 27.4 240°.64 4°.3/24.0 18

1 22	11 8.24	+16 46.2	1.713	2.535	14.9	18.7
2 1	11 3.26	+17 40.3	1.624	2.523	11.4	18.5
2 11	10 55.49	+18 41.3	1.559	2.510	7.6	18.2
2 21	10 45.57	+19 41.3	1.519	2.496	4.6	18.0
3 2	10 34.58	+20 31.4	1.508	2.482	5.5	18.0
3 12	10 23.88	+21 4.1	1.525	2.467	9.4	18.2
3 22	10 14.74	+21 15.8	1.566	2.451	13.4	18.4
4 1	10 8.14	+21 6.1	1.629	2.435	17.1	18.6

385927 2006 TM_{116} 2 27.4 313°.84 2°.8/24.3 17

1 22	10 58.14	+12 57.8	2.073	2.897	12.6	20.7
2 1	10 55.04	+14 6.1	1.981	2.882	9.5	20.5
2 11	10 49.91	+15 24.4	1.913	2.868	6.1	20.3
2 21	10 43.28	+16 46.3	1.873	2.854	3.2	20.1
3 2	10 35.88	+18 4.3	1.862	2.840	4.0	20.1
3 12	10 28.69	+19 11.1	1.880	2.827	7.5	20.3
3 22	10 22.57	+20 1.5	1.923	2.814	11.0	20.5
4 1	10 18.26	+20 33.0	1.989	2.801	14.2	20.6

150529 2000 SK_{49} 2 27.4 245°.12 0°.5/27.8 17

1 22	11 6.50	+ 6 25.6	2.154	2.942	13.5	20.2
2 1	11 1.31	+ 6 25.8	2.051	2.928	10.5	20.0
2 11	10 53.92	+ 6 36.1	1.971	2.914	6.9	19.7
2 21	10 44.87	+ 6 53.9	1.918	2.900	2.9	19.4
3 2	10 34.98	+ 7 15.6	1.896	2.885	1.5	19.3
3 12	10 25.26	+ 7 36.5	1.903	2.870	5.6	19.5
3 22	10 16.68	+ 7 52.8	1.938	2.854	9.6	19.7
4 1	10 10.00	+ 8 1.4	1.998	2.838	13.1	19.9

108757 2001 OK_{45} 2 27.4 130°.57 6°.0/ 4.1 18

1 22	11 5.56	−10 25.8	2.184	2.895	15.6	20.1
2 1	11 0.40	−10 58.2	2.100	2.908	13.1	19.9
2 11	10 53.20	−11 10.4	2.037	2.921	10.3	19.7
2 21	10 44.53	−11 1.3	1.998	2.933	7.6	19.6
3 2	10 35.21	−10 32.3	1.987	2.944	6.0	19.5
3 12	10 26.21	− 9 47.2	2.004	2.955	6.7	19.6
3 22	10 18.40	− 8 52.2	2.049	2.966	9.1	19.7
4 1	10 12.46	− 7 53.7	2.119	2.976	11.8	19.9

204182 2004 BZ_{52} 2 27.4 74°.03 1°.5/25.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 2.22	+10 42.8	2.088	2.899	13.0	20.3
2 1	10 57.86	+11 19.3	2.018	2.911	9.8	20.1
2 11	10 51.54	+12 4.2	1.971	2.923	6.2	19.9
2 21	10 43.85	+12 52.6	1.952	2.935	2.5	19.7
3 2	10 35.63	+13 38.7	1.962	2.948	2.5	19.7
3 12	10 27.82	+14 17.1	2.002	2.960	6.2	19.9
3 22	10 21.23	+14 44.1	2.068	2.972	9.7	20.2
4 1	10 16.48	+14 57.8	2.158	2.985	12.7	20.4

341419 2007 TC_{200} 2 27.4 10°.74 4°.0/ 2.5 17

1 22	10 58.40	− 5 48.4	2.070	2.825	15.0	20.8
2 1	10 55.11	− 5 41.9	1.980	2.825	12.3	20.6
2 11	10 49.88	− 5 14.9	1.911	2.827	9.1	20.4
2 21	10 43.24	− 4 28.5	1.868	2.828	5.9	20.2
3 2	10 35.94	− 3 26.0	1.851	2.829	4.0	20.1
3 12	10 28.91	− 2 13.4	1.863	2.831	5.6	20.2
3 22	10 22.96	− 0 57.7	1.902	2.833	8.8	20.4
4 1	10 18.76	+ 0 14.3	1.967	2.836	12.0	20.6

133841 2003 YA_{54} 2 27.4 90°.16 2°.9/24.5 18

1 22	11 2.11	+14 26.9	2.110	2.928	12.6	19.9
2 1	10 57.82	+15 20.4	2.039	2.937	9.5	19.7
2 11	10 51.54	+16 20.0	1.993	2.946	6.1	19.5
2 21	10 43.87	+17 19.8	1.975	2.955	3.2	19.3
3 2	10 35.63	+18 13.2	1.986	2.963	3.9	19.4
3 12	10 27.78	+18 54.6	2.025	2.972	7.1	19.6
3 22	10 21.14	+19 20.8	2.091	2.980	10.3	19.8
4 1	10 16.37	+19 30.5	2.180	2.989	13.2	20.0

113662 2002 TC_{88} 2 27.4 177°.14 4°.7/22.2 18

1 22	11 3.34	+21 44.2	2.368	3.189	11.4	20.3
2 1	10 58.66	+22 44.1	2.295	3.189	8.7	20.1
2 11	10 52.05	+23 44.7	2.247	3.190	6.2	20.0
2 21	10 44.07	+24 39.4	2.226	3.190	4.7	19.9
3 2	10 35.52	+25 22.1	2.236	3.191	5.7	19.9
3 12	10 27.30	+25 48.5	2.273	3.191	8.1	20.1
3 22	10 20.24	+25 56.7	2.336	3.190	10.8	20.2
4 1	10 14.95	+25 47.0	2.422	3.190	13.2	20.4

102169 1999 RT_{227} 2 27.4 241°.53 2°.0/25.4 17

1 22	11 3.69	+ 9 39.7	1.984	2.791	13.7	20.4
2 1	10 59.44	+10 47.0	1.883	2.775	10.5	20.2
2 11	10 52.88	+12 8.1	1.806	2.758	6.7	19.9
2 21	10 44.52	+13 37.2	1.757	2.740	2.8	19.6
3 2	10 35.21	+15 6.0	1.738	2.722	3.2	19.6
3 12	10 26.03	+16 26.2	1.749	2.703	7.3	19.8
3 22	10 18.00	+17 31.1	1.786	2.683	11.4	20.0
4 1	10 12.00	+18 17.0	1.846	2.662	15.0	20.2

82967 2001 QV_{132} 2 27.4 259°.59 0°.3/27.1 18

1 22	10 58.72	+ 5 41.4	2.299	3.096	12.4	19.1
2 1	10 55.17	+ 6 30.5	2.208	3.092	9.5	18.9
2 11	10 49.85	+ 7 32.7	2.141	3.089	6.1	18.7
2 21	10 43.22	+ 8 43.7	2.103	3.086	2.4	18.4
3 2	10 35.99	+ 9 57.8	2.094	3.082	1.6	18.4
3 12	10 28.97	+11 8.6	2.114	3.079	5.4	18.6
3 22	10 22.94	+12 10.7	2.163	3.075	8.9	18.8
4 1	10 18.50	+13 0.3	2.236	3.072	12.0	19.0

225592 2000 WR_{117} 2 27.4 160°.57 8°.7/15.0 18

1 22	11 8.78	+38 47.0	2.679	3.473	11.0	20.3
2 1	11 2.89	+40 27.0	2.634	3.480	9.6	20.2
2 11	10 54.81	+41 56.1	2.615	3.488	8.7	20.2
2 21	10 45.18	+43 6.7	2.622	3.494	8.8	20.2
3 2	10 34.91	+43 52.8	2.656	3.500	9.8	20.3
3 12	10 25.08	+44 11.9	2.714	3.505	11.2	20.4
3 22	10 16.62	+44 5.0	2.794	3.509	12.7	20.5
4 1	10 10.21	+43 35.0	2.892	3.513	14.1	20.6

273869 2007 GK_{73} 2 27.4 225°.11 6°.2/20.1 18

1 22	11 4.71	+26 3.7	2.361	3.181	11.4	20.5
2 1	10 59.89	+27 23.7	2.283	3.172	9.1	20.3
2 11	10 52.96	+28 42.5	2.230	3.162	7.0	20.2
2 21	10 44.48	+29 52.2	2.206	3.152	6.2	20.1
3 2	10 35.28	+30 45.7	2.210	3.142	7.3	20.1
3 12	10 26.36	+31 18.2	2.241	3.131	9.6	20.3
3 22	10 18.62	+31 28.1	2.298	3.120	12.1	20.4
4 1	10 12.78	+31 16.3	2.375	3.108	14.4	20.6

343480 2010 ER_{83} 2 27.4 280°.58 5°.3/22.4 17

1 22	11 5.96	+23 37.7	2.215	3.035	12.1	21.0
2 1	11 0.85	+24 21.2	2.133	3.026	9.4	20.8
2 11	10 53.57	+25 3.5	2.077	3.017	6.8	20.6
2 21	10 44.71	+25 38.1	2.047	3.008	5.3	20.5
3 2	10 35.17	+25 58.7	2.046	3.000	6.2	20.5
3 12	10 25.99	+26 1.4	2.073	2.991	8.8	20.7
3 22	10 18.10	+25 45.0	2.125	2.982	11.6	20.8
4 1	10 12.21	+25 10.6	2.200	2.973	14.2	21.0

80071 1999 JR_{97} 2 27.4 342°.20 8°.2/17.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 1.01	+29 39.1	2.040	2.872	12.5	18.6
2 1	10 57.43	+31 29.1	1.980	2.869	10.2	18.4
2 11	10 51.54	+33 14.8	1.944	2.866	8.6	18.3
2 21	10 43.94	+34 46.4	1.935	2.862	8.3	18.3
3 2	10 35.59	+35 55.3	1.952	2.860	9.7	18.4
3 12	10 27.61	+36 36.2	1.994	2.857	11.8	18.5
3 22	10 21.00	+36 48.3	2.058	2.855	14.2	18.7
4 1	10 16.51	+36 33.6	2.141	2.853	16.3	18.8

382656 2002 SW_{67} 2 27.4 95°.37 0°.1/27.4 18

1 22	11 2.21	+ 5 55.3	2.385	3.174	12.3	21.9
2 1	10 57.55	+ 6 27.9	2.316	3.196	9.4	21.8
2 11	10 51.20	+ 7 11.0	2.272	3.217	6.0	21.6
2 21	10 43.70	+ 8 0.8	2.256	3.238	2.4	21.4
3 2	10 35.77	+ 8 52.4	2.270	3.259	1.3	21.3
3 12	10 28.23	+ 9 40.9	2.314	3.279	4.9	21.6
3 22	10 21.77	+10 22.1	2.387	3.299	8.2	21.9
4 1	10 16.91	+10 53.2	2.485	3.319	11.0	22.1

14343 1984 SM_5 2 27.4 225°.06 0°.2/27.3 18

1 22	11 3.86	+ 4 43.2	1.703	2.505	15.9	17.8
2 1	10 59.82	+ 5 32.0	1.611	2.498	12.3	17.6
2 11	10 53.23	+ 6 39.5	1.541	2.489	8.0	17.3
2 21	10 44.69	+ 8 0.9	1.497	2.480	3.2	17.0
3 2	10 35.15	+ 9 28.3	1.482	2.471	1.9	16.8
3 12	10 25.86	+10 52.3	1.495	2.461	6.9	17.1
3 22	10 17.95	+12 4.9	1.534	2.450	11.6	17.4
4 1	10 12.34	+13 0.4	1.596	2.439	15.6	17.6

47018 1998 VT_4 2 27.4 308°.18 0°.6/27.9 18

1 22	11 0.98	+ 4 45.1	2.026	2.823	13.9	19.9
2 1	10 57.14	+ 5 4.1	1.936	2.818	10.8	19.7
2 11	10 51.24	+ 5 36.5	1.868	2.813	7.1	19.4
2 21	10 43.81	+ 6 19.1	1.827	2.809	3.0	19.2
3 2	10 35.68	+ 7 7.1	1.815	2.804	1.4	19.0
3 12	10 27.80	+ 7 54.5	1.831	2.800	5.6	19.3
3 22	10 21.06	+ 8 36.0	1.874	2.795	9.5	19.5
4 1	10 16.19	+ 9 7.6	1.942	2.791	13.0	19.7

331178 2011 AL_{33} 2 27.4 279°.55 6°.7/20.4 17

1 22	11 2.02	+22 17.2	1.832	2.668	13.5	20.3
2 1	10 58.39	+24 0.9	1.755	2.657	10.5	20.1
2 11	10 52.29	+25 48.3	1.703	2.647	7.8	19.9
2 21	10 44.30	+27 29.0	1.678	2.636	6.7	19.8
3 2	10 35.39	+28 52.8	1.680	2.626	8.1	19.9
3 12	10 26.77	+29 51.8	1.709	2.615	11.1	20.0
3 22	10 19.56	+30 22.8	1.761	2.605	14.2	20.2
4 1	10 14.61	+30 26.3	1.833	2.594	17.1	20.4

73639 1977 EL_7 2 27.4 342°.59 3°.2/ 1.5 18

1 22	10 53.55	− 3 30.9	1.596	2.389	17.2	18.6
2 1	10 52.06	− 3 3.8	1.500	2.373	13.9	18.4
2 11	10 48.28	− 2 10.1	1.424	2.358	10.0	18.1
2 21	10 42.73	− 0 51.4	1.372	2.344	5.8	17.8
3 2	10 36.27	+ 0 46.6	1.345	2.331	3.2	17.6
3 12	10 30.01	+ 2 34.4	1.345	2.320	6.3	17.8
3 22	10 25.01	+ 4 21.1	1.371	2.310	10.8	18.0
4 1	10 22.14	+ 5 56.9	1.420	2.301	15.0	18.2

150910 2001 TV_{24} 2 27.4 293°.52 4°.6/24.3 18

1 22	11 9.52	+19 27.5	1.714	2.537	14.8	19.2
2 1	11 4.18	+19 52.6	1.628	2.526	11.5	19.0
2 11	10 56.04	+20 19.4	1.565	2.515	7.8	18.7
2 21	10 45.79	+20 40.9	1.529	2.504	4.8	18.5
3 2	10 34.58	+20 49.8	1.520	2.493	5.6	18.5
3 12	10 23.79	+20 41.2	1.539	2.482	9.2	18.7
3 22	10 14.68	+20 13.7	1.583	2.471	13.1	18.9
4 1	10 8.14	+19 28.4	1.649	2.461	16.6	19.1

62043 2000 RH_{65} 2 27.4 89°.84 0°.8/28.3 18 R

1 22	10 58.76	+ 2 43.4	2.442	3.225	12.2	19.1
2 1	10 55.01	+ 3 19.9	2.360	3.234	9.4	18.9
2 11	10 49.64	+ 4 9.6	2.303	3.243	6.3	18.7
2 21	10 43.11	+ 5 9.0	2.272	3.252	2.8	18.5
3 2	10 36.11	+ 6 13.6	2.272	3.261	1.2	18.4
3 12	10 29.37	+ 7 17.7	2.301	3.270	4.6	18.7
3 22	10 23.58	+ 8 16.4	2.359	3.279	7.9	18.9
4 1	10 19.29	+ 9 5.8	2.443	3.288	10.8	19.1

234840 2002 RZ_{161} 2 27.4 157°.83 0°.4/27.8 18

1 22	11 0.04	+ 4 19.8	2.217	3.009	13.0	20.7
2 1	10 56.21	+ 4 55.6	2.130	3.010	10.0	20.5
2 11	10 50.53	+ 5 45.0	2.067	3.011	6.6	20.3
2 21	10 43.50	+ 6 44.1	2.031	3.012	2.7	20.0
3 2	10 35.88	+ 7 47.8	2.024	3.013	1.3	19.9
3 12	10 28.51	+ 8 50.0	2.047	3.014	5.2	20.2
3 22	10 22.19	+ 9 45.3	2.097	3.015	8.9	20.4
4 1	10 17.55	+10 29.7	2.173	3.016	12.0	20.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
58240 1993 FV_{81}			2 27.4 168°.48		3°.1/24.6 18	
	h m	° ′			°	m
1 22	11 4.97	+14 0.2	1.942	2.758	13.6	19.9
2 1	11 0.25	+14 58.7	1.865	2.761	10.3	19.7
2 11	10 53.26	+16 5.0	1.812	2.764	6.6	19.5
2 21	10 44.62	+17 12.3	1.787	2.766	3.4	19.3
3 2	10 35.26	+18 13.1	1.790	2.768	4.2	19.4
3 12	10 26.28	+19 0.6	1.823	2.770	7.7	19.6
3 22	10 18.66	+19 31.2	1.882	2.770	11.3	19.8
4 1	10 13.13	+19 43.4	1.963	2.771	14.5	20.0
297150 2010 UN_{27}			2 27.4 49°.16		1°.7/28.8 18	
1 22	11 2.51	+ 1 58.2	1.526	2.328	17.4	20.9
2 1	10 58.72	+ 2 12.6	1.460	2.343	13.6	20.7
2 11	10 52.40	+ 2 46.3	1.414	2.357	9.1	20.4
2 21	10 44.29	+ 3 35.6	1.393	2.372	4.3	20.2
3 2	10 35.46	+ 4 33.9	1.399	2.388	2.0	20.1
3 12	10 27.19	+ 5 33.4	1.431	2.403	6.4	20.4
3 22	10 20.53	+ 6 26.7	1.490	2.419	10.8	20.7
4 1	10 16.24	+ 7 8.3	1.571	2.435	14.7	20.9
279886 2001 QG_{36}			2 27.4 138°.27		0°.3/27.0 17	
1 22	11 0.86	+ 7 1.6	2.971	3.756	10.2	21.7
2 1	10 56.27	+ 7 39.2	2.891	3.769	7.8	21.5
2 11	10 50.29	+ 8 24.9	2.837	3.783	4.9	21.4
2 21	10 43.34	+ 9 15.6	2.813	3.795	1.9	21.2
3 2	10 36.00	+10 7.3	2.819	3.808	1.3	21.1
3 12	10 28.92	+10 55.7	2.857	3.819	4.3	21.4
3 22	10 22.66	+11 37.5	2.924	3.830	7.1	21.6
4 1	10 17.69	+12 10.4	3.018	3.841	9.5	21.7
126737 2002 CE_{287}			2 27.4 131°.79		2°.8/24.4 18	
1 22	11 1.35	+12 27.0	2.015	2.833	13.1	20.0
2 1	10 57.40	+13 42.3	1.940	2.838	9.9	19.8
2 11	10 51.38	+15 7.2	1.890	2.843	6.3	19.6
2 21	10 43.86	+16 34.7	1.867	2.848	3.2	19.4
3 2	10 35.69	+17 56.7	1.874	2.852	4.0	19.5
3 12	10 27.86	+19 6.0	1.910	2.857	7.4	19.7
3 22	10 21.25	+19 57.9	1.972	2.861	10.9	19.9
4 1	10 16.56	+20 30.3	2.058	2.865	13.9	20.1
501444 2014 AG_{27}			2 27.4 26°.77		6°.5/ 4.4 17	
1 22	11 1.89	−10 22.3	2.115	2.836	15.7	20.0
2 1	10 57.76	−11 10.9	2.028	2.841	13.3	19.9
2 11	10 51.60	−11 39.9	1.963	2.847	10.6	19.7
2 21	10 43.96	−11 47.7	1.921	2.853	8.1	19.6
3 2	10 35.64	−11 34.7	1.905	2.860	6.6	19.5
3 12	10 27.58	−11 4.3	1.917	2.867	7.1	19.5
3 22	10 20.65	−10 21.7	1.955	2.874	9.3	19.7
4 1	10 15.56	− 9 33.5	2.018	2.882	12.0	19.8
465724 2009 UT_{127}			2 27.4 84°.70		7°.3/20.9 18	
1 22	11 9.28	+27 53.4	1.943	2.764	13.4	21.4
2 1	11 3.44	+29 0.7	1.895	2.783	10.7	21.3
2 11	10 55.18	+30 2.0	1.873	2.802	8.3	21.2
2 21	10 45.32	+30 48.9	1.876	2.821	7.3	21.1
3 2	10 34.96	+31 14.5	1.907	2.840	8.3	21.2
3 12	10 25.33	+31 15.6	1.965	2.858	10.5	21.4
3 22	10 17.41	+30 53.0	2.047	2.877	13.0	21.6
4 1	10 11.84	+30 9.8	2.149	2.895	15.3	21.8
207769 2007 TR_{36}			2 27.4 138°.26		1°.5/26.1 18	
1 22	11 7.22	+ 9 57.2	1.941	2.744	14.2	21.5
2 1	11 1.83	+10 39.5	1.868	2.757	10.7	21.3
2 11	10 54.20	+11 31.9	1.820	2.770	6.8	21.1
2 21	10 44.98	+12 28.7	1.799	2.782	2.7	20.9
3 2	10 35.12	+13 23.4	1.807	2.793	2.6	20.9
3 12	10 25.73	+14 9.5	1.845	2.803	6.6	21.2
3 22	10 17.75	+14 42.9	1.910	2.813	10.4	21.4
4 1	10 11.89	+15 1.4	1.999	2.822	13.7	21.6
12320 Loschmidt			2 27.4 261°.31		1°.9/28.6 18	
1 22	11 6.46	+ 2 58.4	1.456	2.258	18.1	18.8
2 1	11 2.28	+ 2 54.2	1.365	2.247	14.3	18.5
2 11	10 55.10	+ 3 8.3	1.293	2.237	9.8	18.2
2 21	10 45.54	+ 3 38.6	1.246	2.226	4.7	17.9
3 2	10 34.73	+ 4 20.1	1.225	2.214	2.3	17.7
3 12	10 24.17	+ 5 5.3	1.231	2.203	7.3	18.0
3 22	10 15.26	+ 5 46.6	1.262	2.191	12.4	18.3
4 1	10 9.10	+ 6 18.0	1.315	2.179	17.0	18.5
273101 2006 FO_{15}			2 27.4 208°.06		1°.0/26.6 17	
1 22	11 4.55	+10 8.0	2.054	2.859	13.4	21.0
2 1	10 59.79	+10 24.5	1.969	2.858	10.2	20.8
2 11	10 52.91	+10 49.5	1.907	2.858	6.5	20.6
2 21	10 44.49	+11 18.8	1.873	2.857	2.6	20.3
3 2	10 35.38	+11 47.6	1.869	2.856	2.1	20.3
3 12	10 26.61	+12 10.9	1.893	2.855	6.1	20.5
3 22	10 19.08	+12 25.0	1.944	2.854	9.9	20.8
4 1	10 13.50	+12 27.8	2.020	2.853	13.2	21.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
500390 2012 TX_{86}			2 27.4 145°.37		3°.5/ 2.7 17	
	h m	° ′			°	m
1 22	10 59.42	− 6 16.0	2.608	3.343	12.7	22.1
2 1	10 55.47	− 6 5.0	2.516	3.349	10.4	21.9
2 11	10 49.92	− 5 37.2	2.446	3.354	7.7	21.7
2 21	10 43.25	− 4 53.5	2.403	3.360	5.0	21.6
3 2	10 36.08	− 3 57.0	2.388	3.365	3.5	21.5
3 12	10 29.13	− 2 52.2	2.404	3.369	4.7	21.5
3 22	10 23.06	− 1 44.5	2.448	3.374	7.4	21.7
4 1	10 18.41	− 0 39.2	2.519	3.378	10.0	21.9
309841 2009 CL_{28}			2 27.4 39°.82		0°.8/26.9 18	
1 22	11 4.44	+ 8 1.3	1.264	2.094	18.7	21.3
2 1	11 0.69	+ 8 23.9	1.204	2.106	14.3	21.0
2 11	10 53.91	+ 9 2.4	1.163	2.118	9.2	20.8
2 21	10 44.96	+ 9 50.4	1.147	2.131	3.5	20.5
3 2	10 35.16	+10 39.5	1.155	2.144	2.5	20.4
3 12	10 26.08	+11 21.1	1.190	2.158	8.0	20.8
3 22	10 19.00	+11 49.0	1.248	2.172	13.0	21.1
4 1	10 14.77	+12 0.1	1.326	2.187	17.1	21.4
67630 2000 SC_{200}			2 27.4 339°.39		0°.7/26.8 18	
1 22	10 56.67	+ 4 31.8	1.230	2.065	18.8	18.1
2 1	10 55.09	+ 5 36.4	1.151	2.056	14.6	17.8
2 11	10 50.57	+ 7 7.6	1.091	2.047	9.4	17.5
2 21	10 43.75	+ 8 58.5	1.054	2.039	3.6	17.1
3 2	10 35.77	+10 57.1	1.043	2.032	2.7	17.0
3 12	10 28.13	+12 49.0	1.057	2.026	8.6	17.3
3 22	10 22.24	+14 22.1	1.093	2.020	14.1	17.6
4 1	10 19.11	+15 29.1	1.150	2.016	18.8	17.9
245197 2004 TC_{332}			2 27.4 210°.07		1°.1/28.4 17	
1 22	11 5.16	+ 2 35.2	1.902	2.687	15.1	21.9
2 1	11 0.54	+ 3 0.9	1.806	2.681	11.9	21.6
2 11	10 53.58	+ 3 43.6	1.734	2.674	8.0	21.4
2 21	10 44.83	+ 4 40.0	1.687	2.667	3.6	21.1
3 2	10 35.19	+ 5 44.7	1.670	2.659	1.7	20.9
3 12	10 25.78	+ 6 50.5	1.681	2.650	6.0	21.2
3 22	10 17.63	+ 7 50.6	1.720	2.641	10.3	21.4
4 1	10 11.58	+ 8 39.6	1.784	2.631	14.1	21.7
52472 1995 SR_{9}			2 27.4 54°.16		2°.2/25.6 18	
1 22	11 5.81	+14 39.2	2.103	2.915	12.9	18.9
2 1	11 0.57	+14 53.1	2.032	2.926	9.8	18.7
2 11	10 53.29	+15 11.1	1.986	2.937	6.2	18.5
2 21	10 44.60	+15 28.7	1.968	2.949	2.9	18.3
3 2	10 35.39	+15 41.1	1.978	2.961	3.1	18.4
3 12	10 26.66	+15 44.6	2.018	2.972	6.5	18.6
3 22	10 19.25	+15 37.2	2.085	2.984	9.9	18.8
4 1	10 13.80	+15 18.3	2.176	2.997	12.8	19.0
122919 2000 SU_{173}			2 27.4 354°.48		7°.1/ 3.2 18	
1 22	11 3.20	− 7 16.0	1.591	2.350	18.7	18.8
2 1	10 59.47	− 8 19.9	1.505	2.346	15.7	18.6
2 11	10 53.10	− 9 2.5	1.438	2.344	12.3	18.4
2 21	10 44.70	− 9 21.1	1.394	2.342	9.0	18.2
3 2	10 35.27	− 9 15.6	1.374	2.340	7.1	18.1
3 12	10 26.11	− 8 49.5	1.381	2.340	8.3	18.1
3 22	10 18.44	− 8 9.7	1.411	2.340	11.4	18.3
4 1	10 13.19	− 7 24.2	1.465	2.340	14.9	18.5
335944 2007 TJ_{67}			2 27.4 89°.39		1°.9/29.6 18	
1 22	10 59.15	− 0 54.0	2.274	3.045	13.4	20.9
2 1	10 55.45	− 0 22.2	2.191	3.054	10.5	20.7
2 11	10 50.00	+ 0 26.2	2.131	3.064	7.3	20.5
2 21	10 43.31	+ 1 28.3	2.098	3.073	3.8	20.3
3 2	10 36.09	+ 2 39.3	2.094	3.082	1.9	20.2
3 12	10 29.15	+ 3 53.1	2.120	3.091	4.8	20.4
3 22	10 23.24	+ 5 3.7	2.174	3.100	8.2	20.6
4 1	10 18.92	+ 6 6.1	2.254	3.108	11.2	20.8
169230 2001 SF_{17}			2 27.4 285°.76		2°.7/24.9 17	
1 22	11 4.32	+15 40.2	2.200	3.015	12.3	19.7
2 1	10 59.58	+16 6.2	2.111	3.006	9.4	19.5
2 11	10 52.77	+16 36.3	2.045	2.996	6.1	19.3
2 21	10 44.45	+17 5.9	2.008	2.987	3.2	19.1
3 2	10 35.44	+17 29.5	1.999	2.978	3.7	19.1
3 12	10 26.71	+17 42.7	2.020	2.969	6.9	19.3
3 22	10 19.15	+17 42.9	2.067	2.960	10.3	19.5
4 1	10 13.46	+17 29.3	2.139	2.951	13.3	19.7
422709 2000 SK_{207}			2 27.4 90°.81		5°.6/22.8 18	
1 22	11 10.44	+23 27.1	1.970	2.787	13.4	20.9
2 1	11 4.19	+24 13.9	1.916	2.808	10.4	20.7
2 11	10 55.62	+24 58.1	1.888	2.828	7.4	20.6
2 21	10 45.50	+25 32.5	1.886	2.848	5.6	20.5
3 2	10 34.93	+25 50.8	1.913	2.868	6.5	20.6
3 12	10 25.05	+25 49.6	1.968	2.887	9.1	20.8
3 22	10 16.83	+25 28.9	2.048	2.906	11.9	21.0
4 1	10 10.91	+24 50.9	2.151	2.925	14.5	21.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V
199310 2006 BB_{99}			2 27.4 254°.66	5°.4/21.9 18		
	h m	° ′			°	m
1 22	11 3.64	+21 25.5	2.075	2.901	12.5	20.1
2 1	10 59.30	+22 37.8	1.993	2.891	9.7	19.9
2 11	10 52.72	+23 52.4	1.936	2.881	6.9	19.7
2 21	10 44.47	+25 1.7	1.906	2.870	5.4	19.6
3 2	10 35.43	+25 57.6	1.905	2.860	6.5	19.7
3 12	10 26.67	+26 34.3	1.931	2.849	9.3	19.8
3 22	10 19.19	+26 49.2	1.982	2.838	12.4	20.0
4 1	10 13.73	+26 42.4	2.055	2.827	15.1	20.2
114296 2002 XO_{31}			2 27.4 133°.80	7°.2/19.1 18		
1 22	11 5.59	+30 55.8	2.380	3.196	11.5	20.2
2 1	11 0.48	+32 9.1	2.321	3.200	9.4	20.1
2 11	10 53.27	+33 16.1	2.288	3.205	7.7	20.0
2 21	10 44.62	+34 9.3	2.282	3.209	7.3	20.0
3 2	10 35.40	+34 42.7	2.304	3.214	8.3	20.0
3 12	10 26.65	+34 53.0	2.351	3.218	10.1	20.1
3 22	10 19.21	+34 40.3	2.423	3.222	12.2	20.3
4 1	10 13.74	+34 6.6	2.514	3.226	14.2	20.4
201359 2002 TT_{240}			2 27.4 137°.91	4°.4/22.0 18		
1 22	11 1.98	+20 31.5	2.521	3.340	10.8	20.3
2 1	10 57.51	+21 46.4	2.454	3.349	8.2	20.1
2 11	10 51.28	+23 2.8	2.413	3.358	5.8	20.0
2 21	10 43.81	+24 14.2	2.401	3.366	4.4	19.9
3 2	10 35.84	+25 14.6	2.419	3.374	5.3	20.0
3 12	10 28.19	+25 59.2	2.465	3.381	7.7	20.2
3 22	10 21.58	+26 25.9	2.538	3.388	10.2	20.3
4 1	10 16.61	+26 34.5	2.634	3.395	12.4	20.5
82803 2001 QO_{28}			2 27.4 151°.78	1°.0/26.1 18		
1 22	11 1.30	+10 24.9	3.125	3.916	9.6	20.9
2 1	10 56.57	+11 1.0	3.043	3.926	7.2	20.7
2 11	10 50.49	+11 43.0	2.988	3.936	4.6	20.5
2 21	10 43.46	+12 27.6	2.962	3.945	1.8	20.4
3 2	10 36.04	+13 10.9	2.968	3.953	1.8	20.4
3 12	10 28.86	+13 49.4	3.005	3.961	4.5	20.6
3 22	10 22.47	+14 20.1	3.071	3.968	7.1	20.8
4 1	10 17.33	+14 41.4	3.163	3.975	9.4	20.9
365087 2009 BO_{106}			2 27.4 336°.90	3°.0/25.1 16		
1 22	10 58.82	+10 36.4	1.240	2.086	18.0	20.4
2 1	10 56.78	+11 39.2	1.163	2.075	13.7	20.1
2 11	10 51.70	+13 0.1	1.106	2.065	8.8	19.8
2 21	10 44.23	+14 30.4	1.072	2.056	3.9	19.5
3 2	10 35.57	+15 58.0	1.063	2.047	4.6	19.5
3 12	10 27.29	+17 10.9	1.079	2.040	9.8	19.8
3 22	10 20.83	+18 0.7	1.117	2.033	15.0	20.0
4 1	10 17.24	+18 23.9	1.175	2.028	19.4	20.3
141510 2002 EU_{88}			2 27.4 329°.73	3°.0/24.9 18		
1 22	11 2.35	+13 53.5	1.733	2.561	14.5	19.6
2 1	10 58.60	+14 37.3	1.652	2.554	11.0	19.3
2 11	10 52.39	+15 29.5	1.593	2.548	7.1	19.1
2 21	10 44.37	+16 23.6	1.561	2.542	3.5	18.8
3 2	10 35.51	+17 11.9	1.556	2.537	4.2	18.9
3 12	10 27.01	+17 47.6	1.579	2.531	8.1	19.1
3 22	10 19.93	+18 6.5	1.626	2.527	12.1	19.3
4 1	10 15.09	+18 7.2	1.695	2.522	15.6	19.5
320845 2008 FF_{80}			2 27.4 269°.41	0°.4/27.8 17		
1 22	11 3.03	+ 5 10.7	1.827	2.628	15.0	21.9
2 1	10 59.04	+ 5 30.7	1.732	2.616	11.7	21.7
2 11	10 52.69	+ 6 5.7	1.659	2.605	7.7	21.4
2 21	10 44.51	+ 6 52.0	1.611	2.593	3.2	21.1
3 2	10 35.43	+ 7 44.2	1.592	2.582	1.6	21.0
3 12	10 26.56	+ 8 35.3	1.601	2.570	6.3	21.3
3 22	10 18.96	+ 9 19.4	1.637	2.558	10.7	21.5
4 1	10 13.48	+ 9 51.8	1.696	2.546	14.5	21.7
209405 2004 EZ_{94}			2 27.4 297°.47	2°.8/24.2 17		
1 22	10 58.78	+13 4.0	2.190	3.010	12.2	19.9
2 1	10 55.44	+14 14.2	2.100	2.999	9.2	19.7
2 11	10 50.17	+15 33.7	2.034	2.988	5.9	19.5
2 21	10 43.46	+16 56.4	1.996	2.977	3.1	19.3
3 2	10 36.04	+18 14.9	1.988	2.965	3.9	19.3
3 12	10 28.82	+19 22.4	2.009	2.954	7.2	19.5
3 22	10 22.63	+20 14.2	2.056	2.944	10.5	19.7
4 1	10 18.16	+20 47.5	2.126	2.933	13.5	19.9
328620 2009 SD_{145}			2 27.4 140°.62	1°.2/26.3 18		
1 22	11 4.14	+ 9 39.0	2.045	2.851	13.5	21.6
2 1	10 59.46	+10 14.9	1.967	2.857	10.2	21.4
2 11	10 52.69	+11 0.7	1.913	2.863	6.5	21.2
2 21	10 44.43	+11 51.4	1.886	2.869	2.6	20.9
3 2	10 35.54	+12 41.0	1.888	2.875	2.3	20.9
3 12	10 27.01	+13 23.8	1.920	2.880	6.2	21.2
3 22	10 19.74	+13 55.5	1.979	2.885	9.9	21.4
4 1	10 14.40	+14 13.6	2.062	2.890	13.2	21.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
188064 2001 WE_{32}			2 27.4 109°.27	1°.7/25.9 18		
	h m	° ′			°	m
1 22	11 3.88	+10 20.8	1.909	2.720	14.0	21.1
2 1	10 59.38	+11 4.4	1.836	2.730	10.6	20.9
2 11	10 52.68	+11 58.1	1.787	2.739	6.7	20.7
2 21	10 44.43	+12 56.2	1.766	2.749	2.7	20.4
3 2	10 35.55	+13 51.9	1.773	2.758	2.8	20.4
3 12	10 27.09	+14 38.9	1.808	2.767	6.7	20.7
3 22	10 19.98	+15 12.6	1.871	2.775	10.5	20.9
4 1	10 14.91	+15 31.0	1.956	2.784	13.8	21.2
201691 2003 UW_{119}			2 27.4 59°.94	2°.1/29.4 17		
1 22	11 1.05	+ 0 17.5	2.011	2.791	14.6	20.7
2 1	10 57.16	+ 0 27.9	1.928	2.796	11.5	20.5
2 11	10 51.24	+ 0 54.8	1.867	2.802	7.9	20.3
2 21	10 43.87	+ 1 35.6	1.832	2.807	4.2	20.0
3 2	10 35.85	+ 2 26.3	1.825	2.813	2.2	19.9
3 12	10 28.15	+ 3 20.7	1.847	2.818	5.3	20.1
3 22	10 21.62	+ 4 13.0	1.897	2.824	9.0	20.4
4 1	10 16.95	+ 4 58.1	1.971	2.830	12.4	20.6
412147 2013 GX_{67}			2 27.4 195°.01	2°.5/25.2 18		
1 22	11 6.72	+13 15.9	2.018	2.828	13.4	21.6
2 1	11 1.58	+14 1.0	1.933	2.826	10.2	21.3
2 11	10 54.16	+14 53.9	1.872	2.823	6.6	21.1
2 21	10 45.05	+15 48.7	1.839	2.820	3.1	20.9
3 2	10 35.18	+16 38.5	1.835	2.816	3.6	20.9
3 12	10 25.64	+17 17.5	1.861	2.811	7.2	21.1
3 22	10 17.40	+17 41.6	1.913	2.806	10.9	21.3
4 1	10 11.23	+17 49.4	1.989	2.800	14.2	21.5
151525 2002 RA_{50}			2 27.4 213°.62	0°.8/26.7 18		
1 22	11 6.82	+ 7 3.4	1.816	2.616	15.1	21.6
2 1	11 1.99	+ 7 50.4	1.722	2.608	11.7	21.4
2 11	10 54.63	+ 8 52.8	1.651	2.599	7.5	21.1
2 21	10 45.31	+10 5.4	1.606	2.589	2.9	20.8
3 2	10 35.01	+11 20.7	1.591	2.579	2.3	20.7
3 12	10 24.93	+12 30.3	1.605	2.567	7.0	21.0
3 22	10 16.21	+13 27.6	1.645	2.554	11.4	21.2
4 1	10 9.75	+14 8.3	1.710	2.541	15.3	21.4
343507 2010 EP_{110}			2 27.4 181°.58	2°.6/24.8 17		
1 22	11 3.99	+15 47.1	2.532	3.340	11.1	20.9
2 1	10 59.00	+16 18.6	2.448	3.340	8.4	20.7
2 11	10 52.23	+16 53.8	2.391	3.341	5.4	20.6
2 21	10 44.22	+17 28.0	2.362	3.340	2.9	20.4
3 2	10 35.67	+17 56.5	2.363	3.340	3.4	20.4
3 12	10 27.42	+18 15.5	2.394	3.340	6.2	20.6
3 22	10 20.20	+18 22.7	2.453	3.339	9.1	20.8
4 1	10 14.61	+18 17.2	2.536	3.338	11.8	21.0
258358 2001 WB_{48}			2 27.4 27°.89	8°.7/20.8 18		
1 22	11 0.70	+22 25.1	1.123	1.987	18.1	18.7
2 1	10 58.15	+24 20.0	1.092	2.009	14.0	18.5
2 11	10 52.34	+26 13.1	1.082	2.032	10.3	18.4
2 21	10 44.33	+27 49.3	1.095	2.057	8.7	18.4
3 2	10 35.67	+28 56.2	1.131	2.083	10.3	18.5
3 12	10 28.02	+29 27.2	1.190	2.111	13.6	18.8
3 22	10 22.62	+29 23.2	1.269	2.139	17.0	19.1
4 1	10 20.17	+28 48.9	1.366	2.169	19.9	19.4
420171 2011 GM_{28}			2 27.4 335°.87	1°.8/25.8 17		
1 22	10 59.83	+ 9 44.2	1.762	2.584	14.6	20.7
2 1	10 56.62	+10 36.5	1.679	2.578	11.1	20.5
2 11	10 51.10	+11 41.8	1.618	2.573	7.0	20.2
2 21	10 43.88	+12 54.0	1.584	2.568	2.9	19.9
3 2	10 35.84	+14 5.2	1.578	2.563	3.1	19.9
3 12	10 28.11	+15 7.5	1.599	2.559	7.3	20.2
3 22	10 21.70	+15 55.0	1.646	2.555	11.4	20.4
4 1	10 17.39	+16 24.4	1.716	2.552	15.0	20.6
427973 2005 YW_{142}			2 27.4 75°.51	3°.6/ 1.5 18		
1 22	11 5.63	− 2 24.6	1.883	2.647	16.0	21.2
2 1	11 0.62	− 2 41.9	1.814	2.668	12.8	21.0
2 11	10 53.42	− 2 41.3	1.766	2.689	9.2	20.8
2 21	10 44.71	− 2 24.0	1.744	2.711	5.5	20.6
3 2	10 35.42	− 1 53.3	1.750	2.732	3.6	20.5
3 12	10 26.63	− 1 14.4	1.785	2.753	5.8	20.7
3 22	10 19.24	− 0 33.3	1.846	2.774	9.3	21.0
4 1	10 13.92	+ 0 4.7	1.933	2.794	12.5	21.2
420887 2013 LV_{13}			2 27.4 161°.71	1°.1/26.3 18		
1 22	11 3.95	+ 8 38.5	2.220	3.018	12.8	21.7
2 1	10 59.18	+ 9 27.8	2.138	3.024	9.7	21.5
2 11	10 52.46	+10 27.8	2.081	3.030	6.2	21.3
2 21	10 44.34	+11 33.4	2.052	3.035	2.4	21.0
3 2	10 35.61	+12 38.6	2.053	3.039	2.2	21.0
3 12	10 27.19	+13 37.2	2.084	3.043	5.9	21.3
3 22	10 19.90	+14 24.5	2.144	3.046	9.5	21.5
4 1	10 14.41	+14 57.9	2.227	3.049	12.5	21.7

381266 2007 TK_{203} 2 27.4 65°.19 1°.8/29.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 0.08	+ 0 32.5	2.169	2.947	13.7	21.2
2 1	10 56.22	+ 0 51.8	2.091	2.959	10.7	21.0
2 11	10 50.53	+ 1 26.5	2.036	2.971	7.3	20.8
2 21	10 43.56	+ 2 13.7	2.008	2.984	3.7	20.6
3 2	10 36.06	+ 3 9.1	2.009	2.997	1.9	20.5
3 12	10 28.90	+ 4 6.9	2.039	3.009	4.9	20.8
3 22	10 22.83	+ 5 1.6	2.096	3.022	8.4	21.0
4 1	10 18.45	+ 5 48.5	2.179	3.035	11.5	21.2

125676 2001 XE_{81} 2 27.4 61°.96 0°.7/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.59	+ 6 33.0	1.321	2.144	18.5	20.2
2 1	11 0.68	+ 7 14.8	1.262	2.160	14.1	20.0
2 11	10 53.86	+ 8 14.6	1.223	2.176	9.0	19.7
2 21	10 44.97	+ 9 25.3	1.209	2.193	3.5	19.5
3 2	10 35.31	+10 37.5	1.221	2.209	2.4	19.4
3 12	10 26.35	+11 41.3	1.259	2.226	7.8	19.8
3 22	10 19.32	+12 29.8	1.322	2.243	12.6	20.1
4 1	10 15.01	+12 59.2	1.405	2.260	16.7	20.4

352693 2008 SQ_{88} 2 27.4 223°.93 3°.4/24.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 9.10	+14 37.9	1.783	2.598	14.7	21.5
2 1	11 3.83	+15 25.8	1.693	2.588	11.3	21.2
2 11	10 55.87	+16 22.0	1.626	2.577	7.4	20.9
2 21	10 45.83	+17 19.4	1.586	2.566	3.8	20.7
3 2	10 34.78	+18 9.8	1.575	2.553	4.5	20.7
3 12	10 24.01	+18 46.1	1.592	2.540	8.5	20.9
3 22	10 14.73	+19 4.2	1.635	2.526	12.6	21.1
4 1	10 7.89	+19 2.9	1.701	2.511	16.2	21.3

432201 2009 DE_{85} 2 27.5 272°.41 0°.5/26.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 58.24	+ 6 1.8	2.345	3.143	12.2	21.4
2 1	10 54.84	+ 7 0.3	2.251	3.137	9.3	21.2
2 11	10 49.70	+ 8 12.0	2.182	3.131	6.0	20.9
2 21	10 43.27	+ 9 32.5	2.141	3.124	2.3	20.7
3 2	10 36.22	+10 55.7	2.130	3.118	1.7	20.6
3 12	10 29.36	+12 14.9	2.149	3.112	5.4	20.9
3 22	10 23.44	+13 24.6	2.196	3.105	8.9	21.1
4 1	10 19.07	+14 20.7	2.268	3.099	12.0	21.3

373926 2003 UE_{243} 2 27.5 99°.50 0°.6/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.99	+ 3 54.2	1.777	2.569	15.7	22.2
2 1	11 1.01	+ 4 25.4	1.711	2.591	12.1	22.0
2 11	10 53.73	+ 5 12.4	1.668	2.612	7.9	21.8
2 21	10 44.86	+ 6 10.5	1.652	2.633	3.3	21.5
3 2	10 35.40	+ 7 13.2	1.664	2.653	1.5	21.4
3 12	10 26.48	+ 8 13.2	1.705	2.673	6.0	21.8
3 22	10 19.07	+ 9 4.5	1.773	2.692	10.1	22.0
4 1	10 13.84	+ 9 43.2	1.865	2.711	13.6	22.3

200834 2001 XZ_{238} 2 27.5 134°.55 4°.7/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 7.28	− 5 50.0	1.843	2.589	16.9	20.5
2 1	11 2.08	− 6 5.4	1.763	2.602	13.8	20.3
2 11	10 54.51	− 5 59.5	1.703	2.615	10.3	20.1
2 21	10 45.22	− 5 32.7	1.669	2.626	6.7	19.9
3 2	10 35.18	− 4 47.8	1.662	2.638	4.7	19.8
3 12	10 25.54	− 3 50.7	1.683	2.648	6.5	19.9
3 22	10 17.34	− 2 48.7	1.732	2.658	9.9	20.2
4 1	10 11.33	− 1 49.0	1.806	2.667	13.3	20.4

343545 2010 FF_{14} 2 27.5 58°.55 1°.0/28.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 58.79	+ 1 36.7	2.196	2.980	13.3	20.8
2 1	10 55.32	+ 2 17.7	2.108	2.982	10.4	20.6
2 11	10 50.02	+ 3 14.7	2.043	2.983	7.0	20.3
2 21	10 43.40	+ 4 24.3	2.006	2.985	3.2	20.1
3 2	10 36.17	+ 5 41.1	1.997	2.987	1.4	20.0
3 12	10 29.20	+ 6 58.3	2.018	2.988	5.1	20.2
3 22	10 23.25	+ 8 9.7	2.068	2.990	8.7	20.4
4 1	10 18.95	+ 9 10.5	2.142	2.991	11.9	20.7

297105 2010 OH_{91} 2 27.5 233°.52 4°.7/ 4.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 58.87	−10 19.2	2.619	3.331	13.2	21.5
2 1	10 55.18	−10 15.9	2.513	3.323	11.1	21.3
2 11	10 49.86	− 9 53.7	2.428	3.316	8.7	21.1
2 21	10 43.33	− 9 12.5	2.368	3.308	6.3	21.0
3 2	10 36.20	− 8 14.3	2.336	3.300	4.7	20.8
3 12	10 29.21	− 7 3.3	2.333	3.292	5.4	20.9
3 22	10 23.06	− 5 45.2	2.359	3.283	7.7	21.0
4 1	10 18.32	− 4 26.2	2.412	3.274	10.3	21.1

170184 2003 MV_{11} 2 27.5 235°.35 1°.7/25.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.76	+ 9 23.7	1.974	2.779	13.9	20.8
2 1	11 0.29	+10 19.8	1.874	2.764	10.6	20.5
2 11	10 53.48	+11 29.0	1.798	2.749	6.8	20.3
2 21	10 44.88	+12 45.9	1.750	2.733	2.8	20.0
3 2	10 35.32	+14 2.8	1.732	2.717	2.9	20.0
3 12	10 25.92	+15 12.0	1.743	2.699	7.1	20.2
3 22	10 17.71	+16 7.3	1.780	2.681	11.2	20.4
4 1	10 11.54	+16 45.2	1.842	2.662	14.8	20.6

142408 Trebur 2 27.5 251°.50 1°.4/28.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 1.83	+ 1 19.1	1.801	2.591	15.6	20.5
2 1	10 58.17	+ 1 49.5	1.706	2.582	12.3	20.3
2 11	10 52.16	+ 2 39.5	1.633	2.573	8.4	20.0
2 21	10 44.36	+ 3 45.8	1.585	2.564	4.0	19.7
3 2	10 35.64	+ 5 2.6	1.565	2.554	1.8	19.5
3 12	10 27.14	+ 6 21.8	1.574	2.544	6.1	19.8
3 22	10 19.89	+ 7 35.5	1.609	2.534	10.5	20.0
4 1	10 14.75	+ 8 37.3	1.668	2.524	14.4	20.2

115090 2003 SM_{14} 2 27.5 78°.17 0°.1/27.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.19	+ 5 59.9	1.546	2.354	16.9	20.4
2 1	11 1.48	+ 6 27.7	1.485	2.374	13.0	20.2
2 11	10 54.18	+ 7 10.8	1.445	2.393	8.4	20.0
2 21	10 45.08	+ 8 4.0	1.430	2.413	3.3	19.7
3 2	10 35.32	+ 8 59.9	1.443	2.433	1.8	19.7
3 12	10 26.20	+ 9 50.8	1.484	2.452	6.8	20.0
3 22	10 18.80	+10 30.9	1.551	2.471	11.2	20.3
4 1	10 13.86	+10 56.6	1.640	2.490	15.0	20.6

468224 2015 BG_{132} 2 27.5 124°.10 1°.5/25.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.60	+10 26.7	2.101	2.910	13.0	21.5
2 1	10 58.28	+11 6.1	2.022	2.915	9.9	21.3
2 11	10 51.94	+11 54.6	1.968	2.919	6.3	21.1
2 21	10 44.17	+12 47.3	1.941	2.924	2.6	20.8
3 2	10 35.79	+13 38.2	1.943	2.928	2.6	20.9
3 12	10 27.75	+14 21.7	1.974	2.932	6.2	21.1
3 22	10 20.89	+14 53.5	2.032	2.937	9.8	21.3
4 1	10 15.89	+15 11.4	2.114	2.941	12.9	21.5

367453 2008 UU_{109} 2 27.5 100°.29 0°.8/26.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.02	+ 9 15.3	2.122	2.925	13.1	21.3
2 1	10 59.29	+ 9 34.4	2.044	2.932	10.0	21.1
2 11	10 52.56	+10 2.5	1.990	2.939	6.4	20.9
2 21	10 44.41	+10 35.4	1.963	2.946	2.5	20.7
3 2	10 35.68	+11 8.2	1.965	2.953	1.9	20.6
3 12	10 27.32	+11 36.2	1.997	2.960	5.8	20.9
3 22	10 20.17	+11 55.7	2.056	2.967	9.4	21.1
4 1	10 14.88	+12 4.3	2.140	2.974	12.5	21.4

240311 2003 GP_{9} 2 27.5 307°.12 6°.0/23.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.50	+18 42.2	1.325	2.170	17.1	20.1
2 1	11 1.99	+19 42.8	1.244	2.154	13.3	19.8
2 11	10 55.16	+20 50.5	1.184	2.138	9.1	19.5
2 21	10 45.70	+21 54.9	1.148	2.123	6.2	19.3
3 2	10 34.91	+22 44.2	1.138	2.108	7.5	19.3
3 12	10 24.50	+23 9.3	1.151	2.093	11.7	19.5
3 22	10 16.04	+23 6.3	1.187	2.079	16.2	19.7
4 1	10 10.66	+22 36.2	1.241	2.066	20.3	20.0

264524 2001 RC_{52} 2 27.5 132°.36 3°.1/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.65	− 2 47.1	2.389	3.132	13.5	22.3
2 1	11 1.03	− 2 56.0	2.307	3.149	10.9	22.1
2 11	10 53.55	− 2 50.0	2.248	3.165	7.8	21.9
2 21	10 44.79	− 2 30.2	2.217	3.181	4.7	21.7
3 2	10 35.50	− 1 59.3	2.215	3.196	3.1	21.7
3 12	10 26.55	− 1 21.5	2.244	3.210	5.0	21.8
3 22	10 18.71	− 0 41.5	2.302	3.223	8.0	22.0
4 1	10 12.58	− 0 3.8	2.386	3.236	10.9	22.2

165662 2001 MS_{29} 2 27.5 155°.86 3°.8/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.39	− 5 2.9	2.465	3.204	13.3	19.7
2 1	10 57.87	− 5 19.9	2.372	3.207	10.9	19.5
2 11	10 51.59	− 5 21.3	2.301	3.210	8.1	19.3
2 21	10 44.03	− 5 7.7	2.256	3.213	5.4	19.1
3 2	10 35.90	− 4 40.9	2.241	3.215	3.8	19.0
3 12	10 27.98	− 4 4.6	2.254	3.218	5.2	19.1
3 22	10 21.02	− 3 23.4	2.296	3.220	7.9	19.3
4 1	10 15.63	− 2 42.2	2.364	3.222	10.7	19.5

251073 2006 SM_{57} 2 27.5 31°.24 4°.1/25.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.17	+18 11.2	1.340	2.173	17.7	19.7
2 1	11 6.50	+18 12.0	1.280	2.183	13.5	19.5
2 11	10 57.61	+18 14.2	1.242	2.195	8.9	19.3
2 21	10 46.49	+18 10.9	1.227	2.207	4.8	19.1
3 2	10 34.62	+17 55.6	1.240	2.220	5.1	19.1
3 12	10 23.68	+17 24.8	1.278	2.233	9.3	19.4
3 22	10 15.00	+16 38.5	1.341	2.247	13.7	19.7
4 1	10 9.38	+15 38.8	1.425	2.262	17.5	20.0

520966 2014 YO_{61} 2 27.5 154°.49 5°.9/20.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.61	+24 0.1	2.223	3.045	11.9	21.7
2 1	10 59.84	+25 25.7	2.158	3.051	9.3	21.5
2 11	10 52.97	+26 50.7	2.119	3.056	6.9	21.4
2 21	10 44.60	+28 7.0	2.108	3.061	5.9	21.3
3 2	10 35.61	+29 7.4	2.126	3.066	7.0	21.4
3 12	10 26.99	+29 46.7	2.171	3.070	9.4	21.5
3 22	10 19.65	+30 3.4	2.241	3.074	12.0	21.7
4 1	10 14.26	+29 58.3	2.332	3.078	14.3	21.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
74003 1998 FP_{48}			2 27.5 293°.27	2°.6/29.4 17		
	h m	° ′			°	m
1 22	11 1.90	+ 0 0.6	1.560	2.355	17.4	19.5
2 1	10 58.75	+ 0 5.9	1.456	2.332	14.0	19.3
2 11	10 52.89	+ 0 32.8	1.372	2.310	9.9	18.9
2 21	10 44.79	+ 1 20.2	1.311	2.287	5.3	18.6
3 2	10 35.42	+ 2 23.6	1.276	2.264	2.8	18.4
3 12	10 26.10	+ 3 35.0	1.269	2.241	6.9	18.6
3 22	10 18.13	+ 4 45.4	1.286	2.219	11.9	18.8
4 1	10 12.61	+ 5 46.7	1.326	2.196	16.5	19.0
14857 1989 TT			2 27.5 92°.66	2°.1/29.8 18		
1 22	11 3.19	− 3 4.4	1.979	2.741	15.4	18.8
2 1	10 58.66	− 2 8.7	1.912	2.769	12.1	18.6
2 11	10 52.13	− 0 52.0	1.868	2.796	8.4	18.5
2 21	10 44.24	+ 0 41.4	1.850	2.823	4.4	18.3
3 2	10 35.85	+ 2 24.6	1.862	2.849	2.2	18.2
3 12	10 27.94	+ 4 9.0	1.904	2.875	5.2	18.4
3 22	10 21.32	+ 5 46.5	1.975	2.900	8.9	18.7
4 1	10 16.60	+ 7 11.2	2.072	2.924	12.2	18.9
325004 2008 BQ_{37}			2 27.5 185°.40	0°.5/26.9 18		
1 22	11 5.28	+ 7 47.5	2.366	3.156	12.3	20.8
2 1	11 0.14	+ 8 17.8	2.275	3.156	9.5	20.6
2 11	10 53.09	+ 8 58.1	2.209	3.155	6.1	20.4
2 21	10 44.66	+ 9 44.4	2.171	3.154	2.4	20.1
3 2	10 35.59	+10 31.9	2.164	3.152	1.7	20.1
3 12	10 26.77	+11 15.5	2.187	3.149	5.4	20.3
3 22	10 19.01	+11 51.0	2.239	3.146	8.9	20.5
4 1	10 12.97	+12 15.6	2.316	3.142	12.0	20.7
463736 2014 QQ_{368}			2 27.5 92°.27	7°.9/20.5 18		
1 22	11 12.04	+29 31.8	1.931	2.747	13.7	21.7
2 1	11 5.57	+30 47.8	1.891	2.773	11.0	21.6
2 11	10 56.60	+31 56.0	1.876	2.799	8.8	21.5
2 21	10 45.99	+32 47.2	1.887	2.824	7.9	21.5
3 2	10 34.95	+33 14.8	1.926	2.848	8.9	21.6
3 12	10 24.73	+33 15.8	1.991	2.872	11.0	21.8
3 22	10 16.33	+32 51.7	2.080	2.896	13.4	22.0
4 1	10 10.42	+32 6.2	2.189	2.919	15.5	22.2
378780 2008 SG_{29}			2 27.5 179°.37	1°.3/28.8 17		
1 22	11 2.17	+ 2 17.9	2.311	3.088	13.0	21.8
2 1	10 57.82	+ 2 35.3	2.220	3.089	10.2	21.6
2 11	10 51.62	+ 3 6.3	2.152	3.090	6.9	21.4
2 21	10 44.08	+ 3 48.0	2.112	3.090	3.3	21.2
3 2	10 35.93	+ 4 36.5	2.101	3.090	1.5	21.1
3 12	10 28.03	+ 5 26.6	2.120	3.089	4.9	21.3
3 22	10 21.14	+ 6 13.4	2.167	3.089	8.4	21.5
4 1	10 15.92	+ 6 52.6	2.240	3.088	11.6	21.7
62917 2000 VR_{8}			2 27.5 293°.87	5°.9/20.9 18		
1 22	11 3.61	+26 11.5	2.365	3.186	11.3	19.3
2 1	10 59.03	+27 11.8	2.291	3.181	9.0	19.1
2 11	10 52.43	+28 9.5	2.243	3.176	6.9	19.0
2 21	10 44.41	+28 58.0	2.221	3.171	5.9	18.9
3 2	10 35.77	+29 31.0	2.228	3.166	6.9	19.0
3 12	10 27.47	+29 44.6	2.263	3.161	9.1	19.1
3 22	10 20.37	+29 37.8	2.322	3.157	11.5	19.2
4 1	10 15.10	+29 11.7	2.403	3.152	13.8	19.4
289255 2004 XE_{92}			2 27.5 95°.88	4°.1/24.3 18		
1 22	11 10.72	+16 24.2	1.664	2.483	15.4	20.8
2 1	11 4.74	+17 22.0	1.613	2.509	11.6	20.6
2 11	10 56.17	+18 24.4	1.585	2.535	7.6	20.5
2 21	10 45.87	+19 23.0	1.583	2.560	4.4	20.3
3 2	10 35.03	+20 9.6	1.611	2.585	5.2	20.4
3 12	10 24.97	+20 38.6	1.666	2.608	8.7	20.7
3 22	10 16.74	+20 47.8	1.747	2.631	12.3	20.9
4 1	10 11.03	+20 38.1	1.850	2.654	15.4	21.2
192182 2007 EP_{217}			2 27.5 219°.79	3°.8/ 3.2 18		
1 22	11 1.03	− 8 6.7	2.722	3.440	12.6	21.0
2 1	10 56.79	− 7 53.9	2.610	3.430	10.5	20.8
2 11	10 50.91	− 7 23.3	2.520	3.418	8.0	20.6
2 21	10 43.81	− 6 35.4	2.456	3.406	5.4	20.5
3 2	10 36.09	− 5 32.5	2.422	3.394	3.9	20.3
3 12	10 28.47	− 4 19.1	2.418	3.381	4.9	20.4
3 22	10 21.65	− 3 0.7	2.443	3.367	7.5	20.5
4 1	10 16.23	− 1 43.2	2.496	3.352	10.2	20.7
490246 2008 WF_{81}			2 27.5 202°.75	3°.6/24.3 18		
1 22	11 6.09	+14 0.6	1.711	2.533	14.9	21.5
2 1	11 1.57	+15 8.8	1.631	2.530	11.4	21.3
2 11	10 54.42	+16 27.1	1.574	2.526	7.4	21.0
2 21	10 45.31	+17 47.3	1.543	2.522	4.0	20.8
3 2	10 35.27	+19 0.2	1.541	2.518	4.9	20.9
3 12	10 25.59	+19 57.3	1.567	2.513	8.8	21.1
3 22	10 17.42	+20 33.8	1.618	2.507	12.8	21.3
4 1	10 11.65	+20 48.4	1.691	2.501	16.3	21.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
385072 2012 UT_{77}			2 27.5 130°.55	4°.0/ 3.0 17		
	h m	° ′			°	m
1 22	10 59.92	− 6 50.6	2.478	3.211	13.4	20.7
2 1	10 56.00	− 6 52.7	2.385	3.215	11.0	20.5
2 11	10 50.40	− 6 37.4	2.315	3.219	8.3	20.3
2 21	10 43.59	− 6 5.4	2.270	3.223	5.6	20.2
3 2	10 36.23	− 5 19.1	2.254	3.227	4.0	20.1
3 12	10 29.09	− 4 22.8	2.267	3.230	5.1	20.2
3 22	10 22.87	− 3 22.0	2.308	3.234	7.7	20.3
4 1	10 18.16	− 2 22.0	2.375	3.237	10.4	20.5
228869 2003 HU_{21}			2 27.5 352°.74	3°.2/ 1.1 18		
1 22	10 57.03	− 1 49.3	1.416	2.219	18.5	19.6
2 1	10 55.00	− 1 37.6	1.333	2.213	14.9	19.4
2 11	10 50.36	− 1 0.3	1.270	2.208	10.5	19.1
2 21	10 43.73	+ 0 0.4	1.230	2.204	5.9	18.8
3 2	10 36.13	+ 1 18.8	1.214	2.201	3.2	18.7
3 12	10 28.86	+ 2 45.2	1.225	2.199	6.7	18.9
3 22	10 23.10	+ 4 9.3	1.260	2.199	11.5	19.1
4 1	10 19.77	+ 5 22.1	1.317	2.199	15.8	19.4
403057 2008 AZ_{107}			2 27.5 107°.22	0°.8/26.8 18		
1 22	11 5.71	+ 7 23.7	1.841	2.643	14.9	21.7
2 1	11 0.79	+ 8 7.3	1.774	2.662	11.3	21.5
2 11	10 53.62	+ 9 3.7	1.731	2.680	7.2	21.3
2 21	10 44.89	+10 7.2	1.715	2.698	2.8	21.0
3 2	10 35.56	+11 10.8	1.727	2.715	2.1	21.0
3 12	10 26.74	+12 7.6	1.769	2.732	6.4	21.3
3 22	10 19.37	+12 52.5	1.838	2.749	10.3	21.6
4 1	10 14.12	+13 22.5	1.930	2.764	13.7	21.8
464614 2016 CE_{144}			2 27.5 317°.96	1°.2/26.5 17		
1 22	11 1.18	+ 8 8.5	1.471	2.297	16.7	20.6
2 1	10 58.21	+ 8 47.8	1.385	2.285	12.9	20.4
2 11	10 52.48	+ 9 43.8	1.319	2.274	8.3	20.1
2 21	10 44.60	+10 50.6	1.279	2.263	3.3	19.7
3 2	10 35.65	+11 59.7	1.264	2.252	2.8	19.7
3 12	10 26.97	+13 1.7	1.276	2.242	7.9	19.9
3 22	10 19.86	+13 49.2	1.312	2.232	12.9	20.2
4 1	10 15.28	+14 17.7	1.370	2.223	17.1	20.4
140496 2001 TT_{153}			2 27.5 139°.34	2°.8/ 1.4 18		
1 22	11 2.00	− 2 1.6	2.481	3.235	12.8	20.3
2 1	10 57.55	− 2 9.7	2.390	3.239	10.3	20.1
2 11	10 51.38	− 2 3.8	2.322	3.243	7.4	19.9
2 21	10 43.98	− 1 45.1	2.281	3.247	4.4	19.7
3 2	10 36.03	− 1 16.0	2.269	3.251	2.8	19.6
3 12	10 28.31	− 0 40.5	2.286	3.254	4.7	19.8
3 22	10 21.55	− 0 2.9	2.333	3.258	7.7	20.0
4 1	10 16.33	+ 0 32.5	2.405	3.261	10.6	20.1
139554 2001 QV_{59}			2 27.5 117°.61	2°.5/25.1 18		
1 22	10 59.92	+12 23.3	2.000	2.812	13.5	20.2
2 1	10 59.91	+13 21.7	1.932	2.826	10.1	20.0
2 11	10 53.02	+14 28.4	1.889	2.841	6.4	19.8
2 21	10 44.65	+15 36.8	1.873	2.855	3.0	19.6
3 2	10 35.69	+16 39.9	1.887	2.868	3.5	19.7
3 12	10 27.18	+17 31.3	1.930	2.881	7.0	19.9
3 22	10 20.00	+18 7.2	2.000	2.893	10.5	20.2
4 1	10 14.81	+18 26.1	2.093	2.905	13.6	20.4
8603 Senator			2 27.5 206°.36	1°.2/28.4 18		
1 22	11 6.47	+ 2 13.4	1.772	2.557	16.0	18.8
2 1	11 1.79	+ 2 42.5	1.677	2.552	12.6	18.6
2 11	10 54.56	+ 3 30.5	1.605	2.546	8.5	18.3
2 21	10 45.39	+ 4 33.8	1.559	2.539	3.9	18.0
3 2	10 35.23	+ 5 46.4	1.542	2.531	1.7	17.9
3 12	10 25.31	+ 7 0.2	1.553	2.522	6.3	18.2
3 22	10 16.77	+ 8 7.4	1.592	2.513	10.9	18.4
4 1	10 10.49	+ 9 2.1	1.655	2.503	14.9	18.6
493536 2015 FQ_{292}			2 27.5 19°.25	3°.2/ 1.7 18		
1 22	10 58.20	− 3 21.7	1.867	2.641	15.7	20.5
2 1	10 55.19	− 3 9.2	1.785	2.646	12.7	20.3
2 11	10 50.11	− 2 36.0	1.725	2.652	9.1	20.1
2 21	10 43.54	− 1 43.8	1.689	2.657	5.4	19.9
3 2	10 36.29	− 0 37.3	1.680	2.664	3.3	19.8
3 12	10 29.37	+ 0 36.7	1.699	2.671	5.6	19.9
3 22	10 23.64	+ 1 50.6	1.745	2.678	9.3	20.2
4 1	10 19.82	+ 2 57.6	1.815	2.686	12.7	20.4
421843 2014 QL_{122}			2 27.5 301°.54	0°.4/27.2 14 C		
1 22	11 6.69	+ 8 24.3	1.475	2.292	17.2	21.4
2 1	11 2.40	+ 8 28.6	1.390	2.284	13.3	21.1
2 11	10 55.17	+ 8 45.8	1.326	2.277	8.7	20.8
2 21	10 45.69	+ 9 11.6	1.286	2.270	3.5	20.5
3 2	10 35.09	+ 9 39.8	1.274	2.263	2.1	20.3
3 12	10 24.86	+10 3.6	1.288	2.256	7.5	20.7
3 22	10 16.34	+10 17.8	1.327	2.249	12.5	20.9
4 1	10 10.51	+10 19.0	1.387	2.243	16.8	21.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V
403582 2010 OQ_{59}			2 27.5	74°.10	0°.4/27.2	18
	h m	° ′			°	m
1 22	11 9.12	+ 8 30.1	1.669	2.474	16.0	20.5
2 1	11 3.52	+ 8 35.3	1.608	2.496	12.2	20.4
2 11	10 55.41	+ 8 51.2	1.569	2.517	7.8	20.1
2 21	10 45.61	+ 9 13.5	1.556	2.539	3.1	19.9
3 2	10 35.23	+ 9 36.7	1.571	2.560	1.9	19.8
3 12	10 25.52	+ 9 55.4	1.615	2.581	6.5	20.2
3 22	10 17.51	+10 5.8	1.686	2.603	10.7	20.5
4 1	10 11.91	+10 5.7	1.779	2.623	14.2	20.8
12386 Nikolova			2 27.5	83°.26	1°.6/25.9	18
1 22	11 3.73	+10 46.0	1.997	2.807	13.6	18.5
2 1	10 59.15	+11 24.4	1.929	2.822	10.2	18.3
2 11	10 52.52	+12 11.6	1.886	2.837	6.5	18.1
2 21	10 44.45	+13 2.2	1.869	2.852	2.7	17.9
3 2	10 35.84	+13 50.1	1.882	2.867	2.7	17.9
3 12	10 27.68	+14 29.6	1.924	2.882	6.4	18.2
3 22	10 20.82	+14 57.0	1.992	2.897	10.0	18.5
4 1	10 15.91	+15 10.3	2.084	2.911	13.1	18.7
114529 2003 BT_{16}			2 27.5	204°.55	0°.6/26.9	17
1 22	11 7.65	+ 9 20.3	2.350	3.139	12.4	19.7
2 1	11 2.00	+ 9 31.1	2.254	3.134	9.5	19.5
2 11	10 54.35	+ 9 49.7	2.183	3.129	6.1	19.2
2 21	10 45.21	+10 12.6	2.140	3.123	2.4	19.0
3 2	10 35.39	+10 35.8	2.128	3.116	1.7	18.9
3 12	10 25.82	+10 55.0	2.146	3.108	5.5	19.2
3 22	10 17.34	+11 7.1	2.193	3.100	9.1	19.4
4 1	10 10.66	+11 9.9	2.266	3.092	12.2	19.6
87418 2000 QZ_{94}			2 27.5	254°.55	0°.1/27.4	18
1 22	11 4.33	+ 6 58.9	1.951	2.751	14.2	20.2
2 1	10 59.90	+ 7 14.0	1.857	2.743	11.0	19.9
2 11	10 53.21	+ 7 41.1	1.787	2.734	7.2	19.7
2 21	10 44.82	+ 8 16.5	1.743	2.725	2.9	19.4
3 2	10 35.59	+ 8 55.1	1.727	2.716	1.6	19.3
3 12	10 26.61	+ 9 31.2	1.741	2.707	6.1	19.5
3 22	10 18.86	+10 0.0	1.781	2.698	10.2	19.8
4 1	10 13.14	+10 17.9	1.845	2.689	13.8	20.0
209356 2004 DD_{41}			2 27.5	37°.32	3°.3/24.5	18
1 22	11 4.42	+17 6.8	2.096	2.915	12.7	20.0
2 1	10 59.70	+17 39.2	2.022	2.919	9.6	19.8
2 11	10 52.89	+18 14.9	1.972	2.923	6.3	19.6
2 21	10 44.61	+18 48.2	1.950	2.927	3.6	19.4
3 2	10 35.75	+19 13.4	1.956	2.931	4.2	19.5
3 12	10 27.29	+19 26.2	1.991	2.936	7.3	19.7
3 22	10 20.11	+19 24.5	2.052	2.940	10.6	19.9
4 1	10 14.88	+19 8.0	2.136	2.945	13.5	20.1
377800 2006 AZ_{57}			2 27.5	234°.51	3°.0/ 1.3	17
1 22	11 3.61	− 1 56.8	2.314	3.070	13.6	20.8
2 1	10 59.04	− 2 5.5	2.209	3.060	11.0	20.6
2 11	10 52.51	− 1 59.2	2.127	3.049	7.9	20.4
2 21	10 44.52	− 1 38.9	2.071	3.038	4.7	20.2
3 2	10 35.77	− 1 6.9	2.045	3.027	3.0	20.1
3 12	10 27.16	− 0 27.4	2.047	3.015	5.2	20.2
3 22	10 19.53	+ 0 14.7	2.079	3.003	8.5	20.4
4 1	10 13.60	+ 0 54.3	2.135	2.991	11.7	20.5
252302 2001 RS_{40}			2 27.5	70°.88	5°.8/23.3	18
1 22	11 12.65	+22 35.2	1.679	2.501	15.2	20.1
2 1	11 6.14	+23 21.9	1.636	2.530	11.6	19.9
2 11	10 57.01	+24 6.1	1.615	2.559	8.2	19.8
2 21	10 46.20	+24 39.6	1.621	2.587	5.9	19.7
3 2	10 34.97	+24 55.6	1.655	2.615	6.8	19.8
3 12	10 24.68	+24 50.5	1.716	2.643	9.7	20.0
3 22	10 16.34	+24 24.9	1.802	2.670	12.8	20.3
4 1	10 10.62	+23 41.6	1.910	2.697	15.6	20.5
59206 1999 BE_{10}			2 27.5	12°.11	1°.5/26.4	18
1 22	11 1.80	+ 8 10.8	1.241	2.077	18.6	18.3
2 1	10 58.96	+ 8 56.1	1.172	2.078	14.3	18.0
2 11	10 53.06	+ 9 59.8	1.123	2.080	9.1	17.8
2 21	10 44.85	+11 14.5	1.098	2.082	3.6	17.4
3 2	10 35.61	+12 29.8	1.098	2.085	3.2	17.4
3 12	10 26.91	+13 34.6	1.123	2.089	8.7	17.7
3 22	10 20.12	+14 21.4	1.171	2.093	13.8	18.0
4 1	10 16.19	+14 46.2	1.239	2.098	18.2	18.3
109480 2001 QF_{222}			2 27.5	101°.47	2°.8/ 1.8	18
1 22	10 59.78	− 3 56.1	2.423	3.174	13.2	19.9
2 1	10 55.86	− 3 33.7	2.341	3.188	10.6	19.7
2 11	10 50.29	− 2 54.2	2.281	3.201	7.6	19.6
2 21	10 43.56	− 1 59.8	2.248	3.214	4.5	19.4
3 2	10 36.34	− 0 54.2	2.244	3.226	2.8	19.3
3 12	10 29.40	+ 0 16.9	2.270	3.239	4.6	19.4
3 22	10 23.43	+ 1 27.9	2.324	3.251	7.6	19.6
4 1	10 18.98	+ 2 33.5	2.405	3.263	10.5	19.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
376475 2012 JY_{31}			2 27.5	136°.84	3°.4/23.5	18
	h m	° ′			°	m
1 22	11 4.40	+17 45.0	2.629	3.438	10.7	21.6
2 1	10 59.24	+18 46.0	2.561	3.453	8.1	21.4
2 11	10 52.39	+19 49.6	2.520	3.468	5.4	21.2
2 21	10 44.38	+20 50.2	2.509	3.481	3.5	21.1
3 2	10 35.91	+21 42.5	2.528	3.495	4.2	21.2
3 12	10 27.79	+22 22.0	2.577	3.507	6.7	21.4
3 22	10 20.70	+22 46.6	2.654	3.519	9.3	21.6
4 1	10 15.21	+22 55.7	2.754	3.531	11.6	21.7
155782 2000 SG_{334}			2 27.5	260°.08	0°.3/27.2	17
1 22	11 2.66	+ 6 18.6	2.094	2.891	13.5	21.0
2 1	10 58.59	+ 6 55.9	1.988	2.872	10.4	20.7
2 11	10 52.39	+ 7 46.9	1.906	2.853	6.8	20.5
2 21	10 44.52	+ 8 48.0	1.850	2.833	2.7	20.2
3 2	10 35.77	+ 9 53.2	1.824	2.813	1.7	20.1
3 12	10 27.12	+10 55.8	1.827	2.792	6.0	20.3
3 22	10 19.53	+11 49.9	1.858	2.771	10.1	20.5
4 1	10 13.78	+12 31.1	1.913	2.750	13.7	20.7
72580 2001 ET_{21}			2 27.5	83°.66	2°.7/29.5	18
1 22	11 6.47	+ 0 38.9	1.610	2.396	17.3	19.4
2 1	11 1.74	+ 0 30.9	1.538	2.410	13.7	19.2
2 11	10 54.44	+ 0 41.3	1.488	2.423	9.5	19.0
2 21	10 45.30	+ 1 7.9	1.462	2.437	5.0	18.8
3 2	10 35.40	+ 1 46.1	1.463	2.450	2.8	18.7
3 12	10 26.03	+ 2 29.5	1.492	2.463	6.3	18.9
3 22	10 18.27	+ 3 11.4	1.547	2.476	10.6	19.2
4 1	10 12.91	+ 3 46.1	1.626	2.489	14.4	19.4
105194 2000 OA_{38}			2 27.5	119°.58	2°.3/ 1.7	18
1 22	10 59.69	− 3 38.0	2.916	3.657	11.4	19.9
2 1	10 55.49	− 3 12.8	2.832	3.674	9.1	19.8
2 11	10 49.91	− 2 33.6	2.773	3.691	6.5	19.6
2 21	10 43.37	− 1 42.1	2.742	3.707	3.8	19.5
3 2	10 36.45	− 0 41.8	2.741	3.723	2.3	19.4
3 12	10 29.78	+ 0 22.9	2.770	3.739	4.0	19.5
3 22	10 23.92	+ 1 27.4	2.830	3.754	6.6	19.7
4 1	10 19.33	+ 2 27.5	2.917	3.768	9.0	19.9
262648 2006 WE_{57}			2 27.5	340°.21	3°.6/29.3	18
1 22	11 4.15	+ 3 6.3	1.337	2.149	18.8	19.1
2 1	11 0.83	+ 2 7.4	1.246	2.133	15.1	18.8
2 11	10 54.40	+ 1 21.9	1.175	2.117	10.7	18.5
2 21	10 45.48	+ 0 50.1	1.127	2.103	6.0	18.1
3 2	10 35.22	+ 0 31.2	1.104	2.090	3.7	18.0
3 12	10 25.19	+ 0 21.4	1.106	2.078	7.7	18.2
3 22	10 16.87	+ 0 16.1	1.131	2.068	12.7	18.4
4 1	10 11.40	+ 0 10.1	1.178	2.059	17.4	18.6
272536 2005 UZ_{309}			2 27.5	139°.42	1°.5/26.0	18
1 22	11 3.96	+10 15.9	2.058	2.865	13.3	21.7
2 1	10 59.38	+10 57.8	1.981	2.872	10.1	21.5
2 11	10 52.71	+11 49.2	1.928	2.879	6.4	21.3
2 21	10 44.57	+12 44.9	1.902	2.885	2.6	21.1
3 2	10 35.80	+13 38.8	1.905	2.891	2.6	21.1
3 12	10 27.40	+14 24.8	1.938	2.896	6.4	21.3
3 22	10 20.23	+14 58.7	1.998	2.902	10.0	21.6
4 1	10 14.97	+15 18.3	2.082	2.907	13.2	21.8
417238 2005 YL_{92}			2 27.5	320°.39	1°.9/28.9	17
1 22	11 1.31	+ 2 15.1	1.696	2.495	16.1	20.8
2 1	10 57.96	+ 2 13.6	1.601	2.481	12.8	20.5
2 11	10 52.17	+ 2 29.0	1.527	2.468	8.8	20.3
2 21	10 44.48	+ 2 59.2	1.477	2.455	4.4	20.0
3 2	10 35.81	+ 3 40.0	1.455	2.443	2.2	19.8
3 12	10 27.34	+ 4 25.0	1.459	2.431	6.3	20.0
3 22	10 20.19	+ 5 7.7	1.489	2.420	10.8	20.3
4 1	10 15.24	+ 5 42.2	1.542	2.409	14.8	20.5
204608 2005 JB_{43}			2 27.5	86°.57	0°.2/27.3	17
1 22	11 1.14	+ 6 39.5	2.236	3.033	12.7	21.4
2 1	10 57.06	+ 7 8.2	2.155	3.039	9.7	21.2
2 11	10 51.15	+ 7 47.9	2.098	3.045	6.3	21.0
2 21	10 43.94	+ 8 34.7	2.068	3.051	2.5	20.8
3 2	10 36.16	+ 9 23.8	2.068	3.057	1.5	20.7
3 12	10 28.69	+10 9.7	2.097	3.063	5.3	21.0
3 22	10 22.28	+10 48.2	2.154	3.069	8.8	21.2
4 1	10 17.57	+11 15.9	2.235	3.075	11.9	21.4
6592 Goya			2 27.5	80°.66	0°.4/27.8	18
1 22	11 4.99	+ 5 46.0	1.910	2.706	14.6	17.7
2 1	11 0.18	+ 6 0.2	1.840	2.723	11.2	17.5
2 11	10 53.21	+ 6 26.7	1.794	2.739	7.3	17.3
2 21	10 44.76	+ 7 1.8	1.774	2.756	3.0	17.1
3 2	10 35.73	+ 7 40.4	1.783	2.773	1.5	17.0
3 12	10 27.18	+ 8 16.9	1.821	2.789	5.7	17.3
3 22	10 20.00	+ 8 46.6	1.886	2.806	9.6	17.5
4 1	10 14.86	+ 9 6.4	1.975	2.822	12.9	17.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
348971 2006 UH_{81}			2 27.5 183°.38		0°.7/26.6 17	
	h m	° ′			°	m
1 22	11 0.50	+ 8 51.9	2.847	3.640	10.4	21.9
2 1	10 56.23	+ 9 26.1	2.757	3.640	7.9	21.8
2 11	10 50.46	+10 8.0	2.692	3.640	5.0	21.6
2 21	10 43.63	+10 54.2	2.657	3.640	2.0	21.4
3 2	10 36.32	+11 40.6	2.652	3.639	1.6	21.3
3 12	10 29.22	+12 23.1	2.677	3.638	4.7	21.5
3 22	10 22.94	+12 58.1	2.732	3.636	7.6	21.7
4 1	10 17.98	+13 23.5	2.812	3.635	10.2	21.9
281433 2008 SB_{10}			2 27.5 257°.24		1°.9/25.9 17	
1 22	11 6.89	+12 56.7	2.178	2.983	12.8	20.8
2 1	11 1.73	+13 16.7	2.076	2.966	9.8	20.6
2 11	10 54.35	+13 43.2	1.998	2.948	6.3	20.3
2 21	10 45.30	+14 11.6	1.948	2.930	2.8	20.1
3 2	10 35.40	+14 36.8	1.928	2.912	2.9	20.0
3 12	10 25.67	+14 54.0	1.937	2.893	6.6	20.2
3 22	10 17.09	+15 0.0	1.974	2.874	10.3	20.4
4 1	10 10.44	+14 53.2	2.035	2.855	13.6	20.6
341826 Aurelbaier			2 27.5 104°.33		2°.5/ 1.2 18	
1 22	11 4.44	− 1 15.5	2.731	3.478	11.9	21.4
2 1	10 59.12	− 1 25.8	2.653	3.499	9.5	21.3
2 11	10 52.25	− 1 24.1	2.600	3.520	6.7	21.1
2 21	10 44.32	− 1 11.5	2.574	3.541	3.9	21.0
3 2	10 35.99	− 0 50.5	2.579	3.561	2.5	20.9
3 12	10 27.97	− 0 24.3	2.615	3.581	4.3	21.0
3 22	10 20.91	+ 0 3.3	2.680	3.601	7.0	21.2
4 1	10 15.31	+ 0 29.1	2.772	3.620	9.6	21.4
10840 1994 LR			2 27.5 291°.54		5°.1/21.6 18	
1 22	11 1.14	+21 17.5	2.222	3.050	11.8	16.8
2 1	10 57.28	+22 35.0	2.147	3.045	9.1	16.6
2 11	10 51.41	+23 54.6	2.097	3.041	6.5	16.4
2 21	10 44.08	+25 8.9	2.074	3.037	5.1	16.3
3 2	10 36.09	+26 10.7	2.080	3.033	6.2	16.4
3 12	10 28.39	+26 54.4	2.114	3.029	8.8	16.5
3 22	10 21.83	+27 17.5	2.173	3.025	11.6	16.7
4 1	10 17.09	+27 19.8	2.253	3.021	14.1	16.9
48070 Zizza			2 27.5 270°.45		0°.9/28.4 18	
1 22	11 1.17	+ 3 15.5	2.233	3.018	13.1	18.8
2 1	10 57.31	+ 3 39.1	2.125	3.000	10.3	18.6
2 11	10 51.48	+ 4 17.0	2.040	2.981	6.9	18.3
2 21	10 44.15	+ 5 6.5	1.982	2.962	3.1	18.1
3 2	10 36.03	+ 6 3.1	1.954	2.943	1.4	17.9
3 12	10 28.01	+ 7 1.0	1.955	2.924	5.3	18.1
3 22	10 20.95	+ 7 54.7	1.983	2.904	9.1	18.3
4 1	10 15.58	+ 8 39.4	2.037	2.884	12.5	18.5
163628 2002 UH_{8}			2 27.5 62°.88		4°.0/23.4 18	
1 22	11 3.73	+16 49.8	2.005	2.827	13.0	19.8
2 1	10 59.06	+18 7.8	1.961	2.860	9.8	19.7
2 11	10 52.38	+19 29.1	1.942	2.893	6.4	19.5
2 21	10 44.39	+20 46.1	1.951	2.925	4.1	19.5
3 2	10 35.99	+21 51.4	1.990	2.958	5.0	19.6
3 12	10 28.17	+22 39.6	2.056	2.990	7.9	19.8
3 22	10 21.73	+23 8.6	2.149	3.022	10.8	20.0
4 1	10 17.24	+23 18.5	2.264	3.054	13.4	20.3
217491 2006 HB_{23}			2 27.5 126°.90		1°.4/26.1 18	
1 22	11 2.42	+10 14.9	2.210	3.016	12.6	21.2
2 1	10 58.08	+10 55.1	2.131	3.022	9.5	21.0
2 11	10 51.83	+11 44.1	2.077	3.028	6.0	20.8
2 21	10 44.22	+12 37.2	2.051	3.034	2.5	20.5
3 2	10 36.04	+13 28.8	2.054	3.040	2.4	20.5
3 12	10 28.19	+14 13.2	2.087	3.045	6.0	20.8
3 22	10 21.46	+14 46.6	2.147	3.051	9.4	21.0
4 1	10 16.48	+15 6.8	2.231	3.056	12.4	21.2
252555 2001 VG_{110}			2 27.5 156°.80		2°.5/29.8 18	
1 22	11 3.24	− 0 39.3	1.989	2.761	15.0	20.6
2 1	10 58.95	− 0 34.7	1.901	2.764	11.9	20.4
2 11	10 52.53	− 0 13.0	1.836	2.766	8.4	20.2
2 21	10 44.56	+ 0 23.9	1.796	2.768	4.6	20.0
3 2	10 35.86	+ 1 12.1	1.784	2.770	2.6	19.8
3 12	10 27.45	+ 2 5.6	1.802	2.772	5.5	20.0
3 22	10 20.25	+ 2 58.4	1.847	2.774	9.3	20.3
4 1	10 14.98	+ 3 45.1	1.916	2.775	12.7	20.5
32286 2000 PS_{24}			2 27.5 251°.64		3°.4/ 2.8 18	
1 22	10 59.39	− 6 56.1	2.806	3.532	12.1	19.1
2 1	10 55.56	− 6 39.4	2.687	3.513	10.0	18.9
2 11	10 50.16	− 6 5.8	2.590	3.494	7.5	18.7
2 21	10 43.58	− 5 15.8	2.520	3.475	5.0	18.5
3 2	10 36.37	− 4 11.8	2.479	3.455	3.4	18.4
3 12	10 29.23	− 2 58.3	2.469	3.434	4.6	18.4
3 22	10 22.82	− 1 40.4	2.488	3.413	7.3	18.6
4 1	10 17.71	− 0 23.9	2.535	3.392	10.0	18.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
216972 2000 KQ_{12}			2 27.5 186°.10		4°.5/ 3.6 17	
	h m	° ′			°	m
1 22	11 3.22	− 9 6.4	2.580	3.291	13.4	21.4
2 1	10 58.52	− 9 10.0	2.479	3.291	11.2	21.3
2 11	10 52.07	− 8 55.6	2.399	3.290	8.6	21.1
2 21	10 44.34	− 8 23.1	2.345	3.289	6.1	20.9
3 2	10 35.98	− 7 34.5	2.320	3.287	4.6	20.8
3 12	10 27.81	− 6 33.9	2.325	3.284	5.4	20.9
3 22	10 20.54	− 5 26.8	2.359	3.280	7.8	21.0
4 1	10 14.80	− 4 18.9	2.420	3.275	10.5	21.2
55075 2001 QP_{96}			2 27.5 131°.11		0°.9/26.9 18	
1 22	11 10.25	+ 9 17.8	1.648	2.454	16.2	18.9
2 1	11 4.62	+ 9 33.7	1.575	2.464	12.4	18.7
2 11	10 56.32	+10 0.7	1.525	2.474	7.9	18.4
2 21	10 46.08	+10 33.6	1.500	2.484	3.1	18.2
3 2	10 35.07	+11 6.2	1.505	2.493	2.3	18.1
3 12	10 24.61	+11 32.3	1.537	2.501	7.0	18.4
3 22	10 15.86	+11 47.7	1.596	2.509	11.4	18.7
4 1	10 9.63	+11 50.1	1.678	2.517	15.2	19.0
417761 2007 DR_{59}			2 27.5 305°.76		0°.3/27.4 17	
1 22	11 7.42	+ 9 21.1	1.675	2.485	15.7	20.4
2 1	11 2.89	+ 9 8.8	1.569	2.460	12.3	20.1
2 11	10 55.55	+ 9 5.4	1.485	2.434	8.1	19.8
2 21	10 45.94	+ 9 7.9	1.426	2.409	3.3	19.4
3 2	10 35.06	+ 9 11.7	1.395	2.385	1.9	19.2
3 12	10 24.27	+ 9 12.0	1.392	2.360	7.1	19.5
3 22	10 14.89	+ 9 4.8	1.415	2.336	12.0	19.7
4 1	10 7.98	+ 8 47.6	1.461	2.312	16.4	19.9
30644 6601 P–L			2 27.5 213°.84		0°.4/27.9 18	
1 22	11 4.23	+ 3 22.7	1.759	2.553	15.8	19.8
2 1	11 0.11	+ 4 6.8	1.667	2.548	12.3	19.6
2 11	10 53.51	+ 5 10.0	1.597	2.541	8.1	19.3
2 21	10 45.03	+ 6 27.9	1.553	2.534	3.4	19.0
3 2	10 35.60	+ 7 53.3	1.538	2.527	1.6	18.9
3 12	10 26.41	+ 9 17.2	1.551	2.519	6.5	19.2
3 22	10 18.57	+10 31.6	1.591	2.511	11.0	19.4
4 1	10 12.94	+11 30.8	1.655	2.501	15.0	19.6
431621 2007 VT_{318}			2 27.5 108°.90		2°.8/24.7 17	
1 22	11 3.92	+16 2.1	2.382	3.194	11.6	21.5
2 1	10 59.06	+16 37.6	2.309	3.202	8.7	21.3
2 11	10 52.38	+17 16.8	2.261	3.211	5.7	21.2
2 21	10 44.43	+17 54.5	2.241	3.219	3.1	21.0
3 2	10 35.98	+18 25.9	2.251	3.227	3.6	21.1
3 12	10 27.90	+18 46.7	2.291	3.236	6.5	21.2
3 22	10 20.94	+18 54.7	2.357	3.244	9.4	21.4
4 1	10 15.68	+18 49.3	2.448	3.251	12.1	21.6
229572 2006 AG_{73}			2 27.5 153°.88		2°.1/29.4 18	
1 22	11 3.36	+ 0 46.0	2.117	2.891	14.1	20.7
2 1	10 58.91	+ 0 49.0	2.029	2.894	11.2	20.5
2 11	10 52.44	+ 1 6.8	1.964	2.897	7.7	20.3
2 21	10 44.51	+ 1 37.5	1.925	2.899	4.1	20.1
3 2	10 35.92	+ 2 17.4	1.915	2.902	2.2	20.0
3 12	10 27.61	+ 3 1.2	1.934	2.904	5.2	20.2
3 22	10 20.43	+ 3 43.7	1.981	2.906	8.8	20.4
4 1	10 15.08	+ 4 20.3	2.053	2.908	12.2	20.6
74755 1999 RL_{199}			2 27.5 231°.03		2°.0/29.2 17	
1 22	11 5.89	+ 1 5.0	2.058	2.830	14.5	20.3
2 1	11 1.09	+ 1 11.3	1.953	2.818	11.6	20.1
2 11	10 54.03	+ 1 33.2	1.871	2.804	8.0	19.9
2 21	10 45.23	+ 2 8.9	1.815	2.790	4.1	19.6
3 2	10 35.51	+ 2 54.6	1.788	2.775	2.1	19.4
3 12	10 25.93	+ 3 44.7	1.790	2.760	5.6	19.6
3 22	10 17.47	+ 4 33.4	1.821	2.743	9.7	19.8
4 1	10 10.95	+ 5 15.3	1.876	2.726	13.3	20.0
297630 2001 TQ_{88}			2 27.5 109°.51		3°.4/ 1.4 18	
1 22	11 5.15	− 3 7.2	1.601	2.374	17.9	21.3
2 1	11 0.80	− 2 54.5	1.527	2.388	14.4	21.1
2 11	10 53.89	− 2 18.2	1.474	2.402	10.2	20.9
2 21	10 45.14	− 1 20.6	1.445	2.415	5.9	20.7
3 2	10 35.61	− 0 7.4	1.443	2.428	3.4	20.6
3 12	10 26.56	+ 1 12.9	1.469	2.440	6.4	20.8
3 22	10 19.09	+ 2 31.5	1.522	2.452	10.6	21.0
4 1	10 14.00	+ 3 40.6	1.598	2.464	14.4	21.3
432524 2010 GE_{97}			2 27.5 229°.82		3°.5/ 3.1 17	
1 22	10 59.06	− 7 32.9	2.910	3.631	11.8	22.1
2 1	10 55.22	− 7 17.1	2.798	3.620	9.8	22.0
2 11	10 49.89	− 6 44.7	2.708	3.609	7.4	21.8
2 21	10 43.47	− 5 56.5	2.645	3.597	5.0	21.6
3 2	10 36.50	− 4 55.0	2.611	3.585	3.5	21.5
3 12	10 29.63	− 3 44.1	2.608	3.572	4.5	21.5
3 22	10 23.49	− 2 29.1	2.634	3.559	7.0	21.7
4 1	10 18.61	− 1 15.2	2.687	3.545	9.5	21.8

149440 2003 BD_{82} 2 27.5 162°.04 1°.1/28.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 8.49	+ 4 50.5	2.170	2.948	13.7	19.6
2 1	11 2.73	+ 4 41.4	2.082	2.952	10.7	19.4
2 11	10 54.87	+ 4 42.9	2.018	2.957	7.1	19.2
2 21	10 45.49	+ 4 52.7	1.981	2.960	3.3	19.0
3 2	10 35.43	+ 5 7.7	1.975	2.964	1.5	18.8
3 12	10 25.71	+ 5 23.8	1.999	2.967	5.3	19.1
3 22	10 17.21	+ 5 37.2	2.051	2.969	9.0	19.3
4 1	10 10.63	+ 5 44.9	2.129	2.971	12.3	19.5

459031 2011 YS_{46} 2 27.5 51°.64 4°.4/24.1 18

1 22	11 4.72	+15 17.0	1.397	2.236	16.8	20.8
2 1	11 0.77	+16 24.2	1.343	2.250	12.7	20.6
2 11	10 53.97	+17 39.5	1.310	2.265	8.2	20.3
2 21	10 45.17	+18 53.0	1.302	2.280	4.7	20.2
3 2	10 35.63	+19 54.6	1.320	2.296	5.7	20.3
3 12	10 26.80	+20 36.2	1.365	2.312	9.7	20.5
3 22	10 19.87	+20 54.6	1.433	2.328	13.7	20.8
4 1	10 15.60	+20 50.0	1.521	2.345	17.2	21.1

179120 2001 SZ_{253} 2 27.5 135°.34 3°.7/23.4 18

1 22	11 3.43	+19 9.7	2.497	3.312	11.0	20.5
2 1	10 58.67	+19 56.7	2.424	3.318	8.4	20.3
2 11	10 52.12	+20 45.4	2.376	3.323	5.7	20.1
2 21	10 44.34	+21 30.4	2.358	3.329	3.8	20.0
3 2	10 36.06	+22 6.4	2.368	3.334	4.5	20.1
3 12	10 28.11	+22 29.5	2.408	3.339	7.0	20.2
3 22	10 21.24	+22 37.6	2.475	3.344	9.7	20.4
4 1	10 16.02	+22 30.6	2.565	3.349	12.1	20.6

20326 1998 HG_{37} 2 27.5 194°.97 3°.5/23.8 18

1 22	11 6.62	+18 46.8	2.570	3.378	11.0	19.1
2 1	11 1.10	+19 28.2	2.485	3.375	8.4	18.9
2 11	10 53.71	+20 11.6	2.426	3.372	5.6	18.7
2 21	10 45.00	+20 51.8	2.395	3.368	3.6	18.6
3 2	10 35.70	+21 23.6	2.395	3.363	4.3	18.6
3 12	10 26.68	+21 42.9	2.425	3.358	6.9	18.8
3 22	10 18.72	+21 47.9	2.483	3.353	9.7	18.9
4 1	10 12.45	+21 38.2	2.565	3.347	12.2	19.1

497783 2006 SV_{382} 2 27.5 128°.13 3°.1/23.4 17

1 22	11 0.40	+16 45.7	2.700	3.514	10.3	21.9
2 1	10 56.25	+17 53.0	2.628	3.523	7.8	21.8
2 11	10 50.53	+19 4.0	2.583	3.533	5.1	21.6
2 21	10 43.70	+20 13.2	2.568	3.542	3.2	21.5
3 2	10 36.41	+21 15.3	2.582	3.550	4.0	21.6
3 12	10 29.39	+22 5.4	2.627	3.559	6.4	21.7
3 22	10 23.28	+22 41.0	2.698	3.567	9.0	21.9
4 1	10 18.63	+23 1.0	2.794	3.575	11.3	22.1

234452 2001 SJ_{152} 2 27.5 87°.43 1°.5/26.6 18

1 22	11 9.64	+10 26.3	1.441	2.260	17.4	20.3
2 1	11 4.46	+10 44.0	1.376	2.272	13.3	20.0
2 11	10 56.35	+11 12.9	1.331	2.284	8.5	19.8
2 21	10 46.14	+11 46.9	1.312	2.296	3.4	19.5
3 2	10 35.11	+12 18.9	1.320	2.308	2.8	19.5
3 12	10 24.77	+12 42.0	1.355	2.319	7.8	19.8
3 22	10 16.36	+12 52.2	1.416	2.331	12.4	20.1
4 1	10 10.72	+12 47.6	1.498	2.342	16.4	20.4

93211 2000 SU_{126} 2 27.5 143°.77 1°.7/29.2 18

1 22	11 1.43	+ 0 35.2	1.967	2.749	14.8	20.1
2 1	10 57.61	+ 0 59.4	1.881	2.751	11.6	19.9
2 11	10 51.70	+ 1 41.1	1.816	2.753	8.0	19.7
2 21	10 44.25	+ 2 37.5	1.778	2.755	4.0	19.4
3 2	10 36.10	+ 3 43.4	1.768	2.756	1.9	19.3
3 12	10 28.23	+ 4 52.0	1.787	2.758	5.4	19.5
3 22	10 21.55	+ 5 56.7	1.833	2.759	9.4	19.7
4 1	10 16.76	+ 6 51.9	1.904	2.761	12.9	20.0

169225 2001 RU_{151} 2 27.5 131°.60 3°.4/23.4 18

1 22	11 3.22	+18 48.2	2.730	3.541	10.3	21.1
2 1	10 58.32	+19 39.5	2.662	3.554	7.8	20.9
2 11	10 51.82	+20 32.5	2.619	3.566	5.2	20.8
2 21	10 44.21	+21 22.0	2.606	3.577	3.5	20.7
3 2	10 36.16	+22 3.2	2.623	3.589	4.2	20.7
3 12	10 28.44	+22 32.3	2.670	3.600	6.5	20.9
3 22	10 21.71	+22 47.5	2.744	3.610	9.0	21.1
4 1	10 16.49	+22 48.2	2.842	3.620	11.2	21.3

56815 2000 PS_{29} 2 27.5 105°.39 4°.6/22.7 18

1 22	11 3.86	+21 35.3	2.331	3.151	11.5	18.8
2 1	10 59.18	+22 24.5	2.257	3.152	8.9	18.7
2 11	10 52.55	+23 13.9	2.208	3.152	6.2	18.5
2 21	10 44.55	+23 57.5	2.187	3.153	4.6	18.4
3 2	10 35.97	+24 29.6	2.195	3.154	5.5	18.4
3 12	10 27.76	+24 45.9	2.231	3.154	7.9	18.6
3 22	10 20.71	+24 45.0	2.293	3.155	10.7	18.8
4 1	10 15.46	+24 27.1	2.378	3.155	13.2	18.9

167165 2003 SY_{247} 2 27.5 57°.17 2°.4/25.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 8.02	+12 46.7	1.473	2.298	16.8	19.9
2 1	11 3.23	+13 9.6	1.405	2.305	12.8	19.7
2 11	10 55.58	+13 41.3	1.359	2.313	8.2	19.5
2 21	10 45.85	+14 15.3	1.338	2.320	3.6	19.2
3 2	10 35.30	+14 44.2	1.344	2.328	3.6	19.2
3 12	10 25.37	+15 1.5	1.377	2.337	8.2	19.5
3 22	10 17.29	+15 3.7	1.434	2.345	12.7	19.8
4 1	10 11.91	+14 49.9	1.513	2.353	16.5	20.0

432150 2009 BE_{132} 2 27.5 15°.40 1°.3/26.1 18

1 22	10 58.46	+ 7 52.8	1.961	2.774	13.6	21.0
2 1	10 55.36	+ 8 57.2	1.881	2.776	10.4	20.8
2 11	10 50.25	+10 15.4	1.826	2.778	6.6	20.5
2 21	10 43.68	+11 41.2	1.797	2.781	2.6	20.3
3 2	10 36.45	+13 7.2	1.798	2.784	2.5	20.3
3 12	10 29.52	+14 25.4	1.827	2.787	6.5	20.5
3 22	10 23.74	+15 30.0	1.883	2.791	10.3	20.8
4 1	10 19.81	+16 17.2	1.962	2.795	13.5	21.0

323798 2005 QH_{151} 2 27.5 181°.95 1°.2/26.3 16

1 22	11 5.40	+10 7.1	2.285	3.083	12.5	22.2
2 1	11 0.35	+10 40.2	2.198	3.084	9.5	22.0
2 11	10 53.33	+11 22.0	2.136	3.085	6.1	21.8
2 21	10 44.89	+12 7.9	2.101	3.084	2.4	21.5
3 2	10 35.80	+12 52.8	2.097	3.084	2.2	21.5
3 12	10 27.00	+13 31.4	2.123	3.082	5.8	21.7
3 22	10 19.31	+13 59.9	2.177	3.080	9.3	22.0
4 1	10 13.40	+14 16.2	2.256	3.078	12.4	22.1

88799 2001 SV_{121} 2 27.5 215°.15 1°.8/29.2 18

1 22	11 2.55	+ 1 49.8	2.344	3.118	12.9	19.8
2 1	10 58.13	+ 1 47.5	2.251	3.117	10.2	19.6
2 11	10 51.89	+ 1 57.5	2.182	3.116	7.0	19.4
2 21	10 44.31	+ 2 18.1	2.139	3.114	3.6	19.2
3 2	10 36.12	+ 2 46.3	2.125	3.113	1.9	19.0
3 12	10 28.15	+ 3 17.9	2.142	3.111	4.8	19.2
3 22	10 21.18	+ 3 48.5	2.186	3.110	8.2	19.4
4 1	10 15.85	+ 4 14.3	2.256	3.108	11.3	19.6

370701 2004 MP_{5} 2 27.5 219°.04 2°.1/29.9 18

1 22	11 1.92	− 1 57.9	2.490	3.245	12.8	21.7
2 1	10 57.65	− 1 25.4	2.382	3.234	10.2	21.5
2 11	10 51.60	− 0 35.9	2.297	3.224	7.2	21.3
2 21	10 44.22	+ 0 28.2	2.240	3.212	3.9	21.0
3 2	10 36.15	+ 1 43.2	2.213	3.200	2.1	20.9
3 12	10 28.21	+ 3 3.1	2.217	3.187	4.7	21.0
3 22	10 21.14	+ 4 21.7	2.250	3.173	8.1	21.2
4 1	10 15.60	+ 5 33.7	2.310	3.159	11.2	21.4

501402 2013 YU_{93} 2 27.5 294°.62 4°.0/22.9 17

1 22	11 0.58	+18 2.1	2.289	3.112	11.6	20.5
2 1	10 56.77	+19 11.2	2.211	3.110	8.8	20.3
2 11	10 51.06	+20 24.4	2.158	3.107	6.0	20.1
2 21	10 43.99	+21 35.4	2.133	3.105	4.1	20.0
3 2	10 36.30	+22 37.2	2.138	3.103	5.0	20.0
3 12	10 28.88	+23 24.5	2.171	3.101	7.7	20.2
3 22	10 22.53	+23 54.0	2.229	3.099	10.6	20.4
4 1	10 17.89	+24 5.0	2.311	3.096	13.3	20.5

47846 2000 EM_{133} 2 27.5 69°.11 0°.4/27.1 18

1 22	11 1.38	+ 6 53.5	2.045	2.848	13.6	18.9
2 1	10 57.43	+ 7 28.7	1.969	2.856	10.4	18.7
2 11	10 51.50	+ 8 15.8	1.916	2.865	6.7	18.5
2 21	10 44.16	+ 9 10.5	1.890	2.874	2.6	18.3
3 2	10 36.23	+10 7.0	1.894	2.882	1.7	18.2
3 12	10 28.65	+10 59.1	1.926	2.891	5.7	18.5
3 22	10 22.25	+11 42.1	1.985	2.900	9.4	18.7
4 1	10 17.68	+12 12.5	2.068	2.909	12.7	18.9

110124 2001 SX_{140} 2 27.5 81°.11 0°.8/28.2 18

1 22	11 3.27	+ 3 45.7	1.773	2.570	15.5	20.2
2 1	10 59.17	+ 4 8.1	1.697	2.578	12.1	20.0
2 11	10 52.76	+ 4 46.6	1.643	2.587	8.0	19.8
2 21	10 44.70	+ 5 37.1	1.615	2.596	3.5	19.5
3 2	10 35.93	+ 6 33.8	1.615	2.604	1.5	19.4
3 12	10 27.58	+ 7 29.6	1.643	2.613	6.0	19.7
3 22	10 20.61	+ 8 18.3	1.698	2.622	10.2	20.0
4 1	10 15.77	+ 8 55.5	1.776	2.630	13.8	20.2

136046 2002 XW_{8} 2 27.5 132°.78 1°.7/29.3 17

1 22	11 1.70	+ 1 19.3	2.366	3.138	12.8	20.4
2 1	10 57.44	+ 1 27.8	2.277	3.143	10.1	20.2
2 11	10 51.41	+ 1 49.5	2.213	3.147	6.9	20.0
2 21	10 44.11	+ 2 22.3	2.175	3.151	3.5	19.8
3 2	10 36.25	+ 3 2.6	2.167	3.155	1.8	19.7
3 12	10 28.65	+ 3 45.7	2.189	3.159	4.7	19.9
3 22	10 22.04	+ 4 27.0	2.239	3.162	8.0	20.1
4 1	10 17.04	+ 5 2.5	2.314	3.166	11.1	20.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
200789 2001 XV_{85}			2 27.5 113°.67		2°.6/25.2 18	
	h m	° ′			°	m
1 22	11 7.58	+11 25.8	1.760	2.572	15.0	20.2
2 1	11 2.37	+12 35.7	1.699	2.593	11.3	20.0
2 11	10 54.75	+13 55.8	1.662	2.614	7.2	19.8
2 21	10 45.47	+15 18.4	1.652	2.634	3.3	19.6
3 2	10 35.57	+16 34.6	1.672	2.653	3.8	19.7
3 12	10 26.24	+17 36.9	1.720	2.671	7.7	20.0
3 22	10 18.48	+18 20.9	1.795	2.689	11.5	20.2
4 1	10 13.02	+18 45.2	1.892	2.706	14.7	20.5
288745 2004 RE_{62}			2 27.5 107°.12		1°.0/28.4 18	
1 22	11 3.77	+ 1 36.4	1.572	2.368	17.2	20.8
2 1	10 59.82	+ 2 20.6	1.499	2.379	13.4	20.5
2 11	10 53.32	+ 3 26.4	1.447	2.390	8.9	20.3
2 21	10 44.96	+ 4 48.6	1.421	2.401	4.0	20.0
3 2	10 35.81	+ 6 19.3	1.422	2.411	1.7	19.9
3 12	10 27.13	+ 7 48.4	1.451	2.422	6.5	20.2
3 22	10 20.02	+ 9 7.5	1.506	2.431	11.1	20.5
4 1	10 15.27	+10 10.3	1.585	2.441	15.1	20.8
417780 2007 EX_{32}			2 27.5 110°.52		4°.3/23.9 18	
1 22	11 8.44	+19 23.4	1.975	2.793	13.4	20.9
2 1	11 2.88	+20 3.1	1.908	2.803	10.2	20.7
2 11	10 55.02	+20 44.3	1.865	2.813	6.9	20.5
2 21	10 45.57	+21 20.3	1.850	2.822	4.5	20.4
3 2	10 35.52	+21 44.8	1.863	2.832	5.2	20.4
3 12	10 26.00	+21 53.5	1.904	2.841	8.2	20.6
3 22	10 17.97	+21 44.8	1.972	2.850	11.4	20.9
4 1	10 12.12	+21 19.6	2.062	2.858	14.3	21.1
167008 2003 PT_{12}			2 27.5 70°.42		4°.1/29.7 18	
1 22	11 18.15	+ 1 5.0	1.523	2.293	18.9	19.7
2 1	11 10.60	− 0 3.1	1.461	2.321	15.0	19.5
2 11	11 0.11	− 0 55.8	1.421	2.349	10.6	19.3
2 21	10 47.61	− 1 32.3	1.407	2.376	6.2	19.1
3 2	10 34.46	− 1 53.8	1.422	2.404	4.2	19.0
3 12	10 22.17	− 2 3.9	1.466	2.431	7.1	19.3
3 22	10 11.98	− 2 7.1	1.536	2.458	11.1	19.6
4 1	10 4.68	− 2 8.5	1.630	2.485	14.8	19.9
148633 2001 SU_{13}			2 27.5 51°.83		3°.4/25.4 18	
1 22	11 10.14	+16 15.4	1.535	2.359	16.2	19.5
2 1	11 4.62	+16 32.2	1.475	2.375	12.3	19.3
2 11	10 56.31	+16 52.9	1.439	2.391	8.0	19.0
2 21	10 46.11	+17 11.0	1.427	2.407	4.1	18.8
3 2	10 35.27	+17 19.9	1.443	2.424	4.4	18.9
3 12	10 25.20	+17 15.1	1.487	2.441	8.4	19.2
3 22	10 17.05	+16 55.1	1.555	2.458	12.4	19.5
4 1	10 11.55	+16 20.5	1.646	2.475	15.9	19.7
295067 2008 EY_{122}			2 27.5 269°.52		2°.4/29.4 17	
1 22	11 4.48	+ 1 4.0	1.842	2.624	15.6	20.7
2 1	11 0.24	+ 0 56.1	1.743	2.613	12.5	20.4
2 11	10 53.61	+ 1 4.2	1.667	2.602	8.7	20.2
2 21	10 45.14	+ 1 26.9	1.616	2.591	4.6	19.9
3 2	10 35.71	+ 2 0.8	1.592	2.579	2.5	19.7
3 12	10 26.46	+ 2 40.4	1.597	2.568	6.0	19.9
3 22	10 18.47	+ 3 19.6	1.629	2.557	10.2	20.2
4 1	10 12.61	+ 3 53.1	1.684	2.545	14.1	20.4
29080 Astrocourier			2 27.5 108°.91		3°.4/24.1 18	
1 22	11 7.38	+19 43.3	2.579	3.385	10.9	17.9
2 1	11 1.50	+20 10.5	2.512	3.401	8.3	17.7
2 11	10 53.86	+20 37.8	2.470	3.416	5.6	17.6
2 21	10 45.05	+21 0.5	2.458	3.430	3.6	17.5
3 2	10 35.83	+21 14.4	2.476	3.445	4.1	17.5
3 12	10 27.05	+21 16.5	2.525	3.459	6.6	17.7
3 22	10 19.42	+21 5.7	2.600	3.473	9.2	17.9
4 1	10 13.50	+20 42.3	2.701	3.486	11.6	18.1
100995 1998 QA_{40}			2 27.5 186°.92		0°.3/27.8 18	
1 22	11 4.20	+ 4 26.6	2.305	3.086	12.9	21.1
2 1	10 59.46	+ 5 5.1	2.212	3.086	10.0	20.9
2 11	10 52.79	+ 5 57.0	2.143	3.085	6.5	20.7
2 21	10 44.71	+ 6 58.5	2.102	3.084	2.7	20.4
3 2	10 35.97	+ 8 4.3	2.092	3.081	1.3	20.3
3 12	10 27.46	+ 9 8.4	2.112	3.078	5.2	20.6
3 22	10 19.98	+10 5.4	2.161	3.074	8.9	20.8
4 1	10 14.22	+10 51.4	2.235	3.069	12.1	21.0
222297 2000 SL_{245}			2 27.5 86°.16		0°.7/28.2 18	
1 22	11 4.51	+ 4 11.4	1.918	2.709	14.7	20.9
2 1	10 59.85	+ 4 32.3	1.849	2.728	11.4	20.7
2 11	10 53.05	+ 5 7.3	1.804	2.747	7.5	20.5
2 21	10 44.79	+ 5 52.4	1.784	2.765	3.2	20.3
3 2	10 35.97	+ 6 42.2	1.794	2.783	1.4	20.2
3 12	10 27.61	+ 7 30.6	1.832	2.801	5.6	20.5
3 22	10 20.60	+ 8 12.4	1.898	2.819	9.4	20.8
4 1	10 15.59	+ 8 43.7	1.988	2.836	12.8	21.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
453860 2011 UL_{62}			2 27.5 121°.18		0°.6/28.0 18	
	h m	° ′			°	m
1 22	11 6.21	+ 3 46.9	1.785	2.576	15.7	21.8
2 1	11 1.35	+ 4 20.7	1.712	2.591	12.1	21.6
2 11	10 54.14	+ 5 10.9	1.663	2.606	8.0	21.3
2 21	10 45.26	+ 6 12.8	1.640	2.621	3.4	21.1
3 2	10 35.72	+ 7 19.8	1.645	2.635	1.5	21.0
3 12	10 26.64	+ 8 24.3	1.680	2.648	6.1	21.3
3 22	10 19.03	+ 9 20.0	1.741	2.661	10.2	21.6
4 1	10 13.61	+10 2.5	1.827	2.673	13.8	21.8
371715 2007 EY_{55}			2 27.5 186°.43		2°.8/25.1 18	
1 22	11 5.20	+14 14.6	1.951	2.768	13.6	21.2
2 1	11 0.55	+14 53.0	1.872	2.768	10.3	21.0
2 11	10 53.64	+15 38.0	1.816	2.768	6.7	20.8
2 21	10 45.08	+16 23.7	1.787	2.767	3.3	20.6
3 2	10 35.80	+17 3.6	1.787	2.767	3.8	20.6
3 12	10 26.89	+17 32.1	1.815	2.766	7.3	20.8
3 22	10 19.32	+17 45.8	1.870	2.766	11.0	21.1
4 1	10 13.82	+17 43.7	1.947	2.765	14.2	21.3
506340 2017 OW_{39}			2 27.5 254°.67		4°.9/ 2.4 17	
1 22	11 5.52	− 5 44.3	2.000	2.743	15.8	21.9
2 1	11 1.01	− 6 9.4	1.888	2.725	13.2	21.6
2 11	10 54.14	− 6 15.8	1.797	2.706	10.0	21.4
2 21	10 45.39	− 6 2.6	1.731	2.686	6.8	21.1
3 2	10 35.58	− 5 31.0	1.692	2.666	4.9	21.0
3 12	10 25.80	− 4 45.0	1.682	2.645	6.6	21.0
3 22	10 17.11	− 3 50.9	1.699	2.624	10.0	21.2
4 1	10 10.42	− 2 55.5	1.740	2.603	13.6	21.4
217283 2004 EJ_{17}			2 27.5 10°.21		5°.8/22.2 18	
1 22	11 3.60	+22 51.3	1.901	2.732	13.3	19.7
2 1	10 59.43	+23 49.1	1.834	2.733	10.3	19.6
2 11	10 52.93	+24 46.6	1.791	2.735	7.4	19.4
2 21	10 44.79	+25 35.8	1.775	2.738	5.8	19.3
3 2	10 35.98	+26 9.6	1.786	2.740	6.9	19.4
3 12	10 27.64	+26 23.0	1.823	2.744	9.6	19.5
3 22	10 20.74	+26 14.8	1.885	2.747	12.6	19.7
4 1	10 16.00	+25 46.2	1.968	2.752	15.3	19.9
81479 2000 GX_{142}			2 27.5 197°.77		1°.1/26.3 18	
1 22	11 2.49	+ 7 33.6	2.239	3.037	12.7	19.7
2 1	10 58.25	+ 8 35.6	2.148	3.034	9.7	19.5
2 11	10 52.07	+ 9 50.5	2.082	3.030	6.2	19.3
2 21	10 44.45	+11 13.0	2.043	3.026	2.4	19.0
3 2	10 36.14	+12 36.4	2.035	3.022	2.2	19.0
3 12	10 28.04	+13 53.8	2.058	3.017	6.0	19.2
3 22	10 20.98	+14 59.4	2.108	3.011	9.6	19.4
4 1	10 15.65	+15 49.7	2.183	3.005	12.7	19.6
118981 2000 XS_{13}			2 27.5 177°.31		18°.0/11.1 18	
1 22	11 22.48	+46 22.2	1.292	2.094	20.0	19.5
2 1	11 16.47	+49 2.7	1.262	2.096	18.6	19.4
2 11	11 5.22	+51 16.3	1.251	2.097	18.0	19.3
2 21	10 49.99	+52 44.4	1.259	2.098	18.5	19.4
3 2	10 33.26	+53 14.6	1.286	2.098	19.9	19.5
3 12	10 18.06	+52 45.3	1.330	2.098	21.8	19.6
3 22	10 6.69	+51 25.3	1.389	2.097	23.7	19.7
4 1	10 0.22	+49 26.7	1.459	2.095	25.5	19.9
432107 2009 AY_{40}			2 27.5 92°.61		1°.4/25.9 18	
1 22	11 1.61	+ 9 42.1	2.313	3.117	12.1	21.2
2 1	10 57.34	+10 33.8	2.245	3.134	9.2	21.0
2 11	10 51.31	+11 34.2	2.201	3.152	5.8	20.9
2 21	10 44.08	+12 38.5	2.186	3.169	2.3	20.7
3 2	10 36.37	+13 40.7	2.201	3.186	2.3	20.7
3 12	10 29.03	+14 35.4	2.246	3.203	5.7	20.9
3 22	10 22.77	+15 18.7	2.318	3.220	8.9	21.2
4 1	10 18.15	+15 48.2	2.415	3.237	11.7	21.4
274267 2008 PG_{8}			2 27.5 284°.39		3°.8/ 1.3 17	
1 22	11 5.22	− 1 36.8	1.916	2.683	15.6	20.4
2 1	11 0.80	− 2 8.0	1.811	2.667	12.7	20.2
2 11	10 53.99	− 2 23.8	1.728	2.652	9.3	19.9
2 21	10 45.32	− 2 23.8	1.670	2.636	5.7	19.7
3 2	10 35.64	− 2 9.7	1.640	2.621	3.9	19.5
3 12	10 26.07	− 1 45.4	1.638	2.605	6.2	19.6
3 22	10 17.68	− 1 16.2	1.662	2.590	10.1	19.8
4 1	10 11.36	− 0 47.6	1.711	2.575	13.8	20.0
479532 2014 BS_{37}			2 27.5 298°.10		1°.0/28.5 17	
1 22	11 3.54	+ 5 3.8	2.415	3.197	12.3	20.9
2 1	10 58.92	+ 4 53.5	2.313	3.186	9.6	20.7
2 11	10 52.44	+ 4 52.5	2.235	3.175	6.5	20.4
2 21	10 44.60	+ 4 58.9	2.184	3.163	3.0	20.2
3 2	10 36.07	+ 5 10.1	2.163	3.152	1.4	20.1
3 12	10 27.72	+ 5 22.6	2.172	3.141	4.8	20.3
3 22	10 20.33	+ 5 32.9	2.210	3.130	8.3	20.5
4 1	10 14.55	+ 5 38.4	2.273	3.119	11.4	20.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
247146 2000 XC_{12}			2 27.5 64°.89	4°.4/23.9 18		
	h m	° ′			°	m
1 22	11 7.19	+18 40.0	1.774	2.599	14.4	20.4
2 1	11 2.11	+19 24.0	1.715	2.614	10.9	20.2
2 11	10 54.60	+20 10.2	1.680	2.630	7.3	20.1
2 21	10 45.43	+20 51.3	1.671	2.645	4.6	19.9
3 2	10 35.68	+21 20.5	1.690	2.661	5.4	20.0
3 12	10 26.56	+21 32.8	1.736	2.676	8.6	20.2
3 22	10 19.05	+21 26.8	1.808	2.692	12.0	20.5
4 1	10 13.86	+21 3.2	1.902	2.707	15.0	20.7
38641 2000 NX_{16}			2 27.5 118°.55	1°.8/25.9 18		
1 22	11 8.26	+10 25.1	1.822	2.628	14.8	19.8
2 1	11 2.83	+11 13.2	1.757	2.647	11.2	19.6
2 11	10 55.04	+12 11.5	1.715	2.666	7.1	19.4
2 21	10 45.62	+13 13.6	1.701	2.684	2.9	19.2
3 2	10 35.58	+14 12.1	1.716	2.701	3.0	19.2
3 12	10 26.09	+15 0.4	1.760	2.717	7.0	19.5
3 22	10 18.13	+15 34.2	1.831	2.733	10.9	19.8
4 1	10 12.41	+15 51.8	1.925	2.748	14.2	20.0
258859 2002 PJ_{142}			2 27.5 260°.84	1°.3/28.7 18		
1 22	10 59.82	− 5 19.0	1.170	1.969	21.8	20.5
2 1	10 57.87	− 3 20.6	1.083	1.963	17.5	20.2
2 11	10 52.72	− 0 32.9	1.015	1.957	12.0	19.8
2 21	10 44.97	+ 2 58.1	0.971	1.951	5.6	19.4
3 2	10 35.82	+ 6 55.5	0.955	1.944	2.1	19.2
3 12	10 26.93	+10 53.9	0.966	1.938	8.7	19.6
3 22	10 19.89	+14 28.7	1.004	1.932	15.0	19.9
4 1	10 15.88	+17 23.8	1.064	1.925	20.4	20.2
311234 2005 CO_{16}			2 27.5 106°.78	2°.7/29.6 18		
1 22	11 7.24	+ 0 25.3	1.682	2.463	16.9	20.3
2 1	11 2.31	+ 0 17.3	1.607	2.475	13.4	20.1
2 11	10 54.87	+ 0 27.1	1.553	2.486	9.3	19.9
2 21	10 45.60	+ 0 52.9	1.523	2.497	5.0	19.6
3 2	10 35.57	+ 1 30.3	1.522	2.509	2.8	19.5
3 12	10 26.00	+ 2 13.1	1.549	2.519	6.2	19.7
3 22	10 17.99	+ 2 54.8	1.602	2.530	10.4	20.0
4 1	10 12.31	+ 3 30.1	1.679	2.540	14.1	20.3
263683 2008 GQ_{131}			2 27.5 141°.66	2°.0/25.7 18		
1 22	11 3.90	+11 5.5	1.989	2.799	13.6	21.3
2 1	10 59.48	+11 53.8	1.911	2.805	10.3	21.1
2 11	10 52.91	+12 51.6	1.858	2.810	6.5	20.9
2 21	10 44.79	+13 53.3	1.833	2.815	2.8	20.7
3 2	10 36.01	+14 52.0	1.836	2.820	3.0	20.7
3 12	10 27.59	+15 41.4	1.868	2.824	6.8	20.9
3 22	10 20.44	+16 17.0	1.927	2.828	10.4	21.1
4 1	10 15.26	+16 36.7	2.009	2.832	13.7	21.4
87419 2000 QM_{95}			2 27.5 140°.43	1°.5/29.4 18		
1 22	11 0.02	+ 0 27.8	2.864	3.626	11.1	20.2
2 1	10 55.86	+ 0 50.3	2.777	3.635	8.7	20.0
2 11	10 50.26	+ 1 24.9	2.713	3.644	6.0	19.8
2 21	10 43.66	+ 2 9.2	2.678	3.653	3.1	19.7
3 2	10 36.62	+ 2 59.9	2.673	3.661	1.5	19.6
3 12	10 29.81	+ 3 52.8	2.699	3.669	4.0	19.7
3 22	10 23.80	+ 4 43.7	2.754	3.676	6.8	19.9
4 1	10 19.09	+ 5 29.0	2.836	3.683	9.4	20.1
468558 2006 UW_{127}			2 27.5 177°.65	4°.3/ 4.7 17		
1 22	10 59.65	−11 31.4	3.220	3.908	11.4	22.6
2 1	10 55.50	−11 30.2	3.117	3.910	9.6	22.5
2 11	10 50.01	−11 13.1	3.037	3.911	7.6	22.3
2 21	10 43.56	−10 40.4	2.982	3.912	5.6	22.2
3 2	10 36.67	− 9 53.5	2.956	3.913	4.4	22.1
3 12	10 29.93	− 8 55.7	2.961	3.913	4.8	22.1
3 22	10 23.88	− 7 51.2	2.994	3.912	6.5	22.2
4 1	10 19.00	− 6 44.7	3.056	3.911	8.6	22.4
119257 2001 RN_{34}			2 27.5 92°.28	1°.5/29.1 18		
1 22	11 1.46	− 0 35.3	1.826	2.608	15.7	19.7
2 1	10 57.72	+ 0 16.0	1.751	2.621	12.4	19.5
2 11	10 51.81	+ 1 28.3	1.698	2.635	8.4	19.3
2 21	10 44.36	+ 2 57.2	1.671	2.649	4.1	19.1
3 2	10 36.26	+ 4 35.4	1.673	2.662	1.8	19.0
3 12	10 28.56	+ 6 14.1	1.704	2.675	5.6	19.2
3 22	10 22.16	+ 7 44.8	1.763	2.688	9.7	19.5
4 1	10 17.77	+ 9 1.3	1.846	2.701	13.3	19.8
171959 2001 TG_{61}			2 27.5 118°.46	2°.2/24.9 18		
1 22	11 2.73	+14 15.7	2.635	3.441	10.8	20.8
2 1	10 58.00	+14 58.2	2.564	3.455	8.1	20.6
2 11	10 51.67	+15 45.1	2.518	3.468	5.2	20.4
2 21	10 44.23	+16 32.1	2.502	3.482	2.6	20.3
3 2	10 36.35	+17 14.1	2.516	3.495	3.0	20.3
3 12	10 28.80	+17 47.3	2.560	3.508	5.7	20.5
3 22	10 22.24	+18 9.0	2.632	3.520	8.5	20.7
4 1	10 17.18	+18 18.1	2.729	3.532	11.0	20.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
282145 2001 QJ_{333}			2 27.5 156°.02	4°.7/20.9 17		
	h m	° ′			°	m
1 22	11 2.82	+24 21.9	2.979	3.792	9.5	21.3
2 1	10 58.04	+25 33.3	2.913	3.800	7.4	21.2
2 11	10 51.69	+26 43.4	2.873	3.807	5.5	21.0
2 21	10 44.24	+27 46.7	2.863	3.814	4.7	21.0
3 2	10 36.34	+28 38.1	2.883	3.821	5.5	21.1
3 12	10 28.70	+29 14.0	2.931	3.827	7.4	21.2
3 22	10 21.97	+29 33.0	3.006	3.832	9.4	21.3
4 1	10 16.68	+29 35.2	3.104	3.837	11.3	21.5
169175 2001 QZ_{241}			2 27.5 154°.22	0°.4/27.1 18		
1 22	11 1.74	+ 7 35.8	2.779	3.567	10.8	21.3
2 1	10 57.21	+ 8 4.7	2.694	3.573	8.2	21.1
2 11	10 51.16	+ 8 42.0	2.634	3.580	5.3	20.9
2 21	10 44.03	+ 9 24.3	2.603	3.586	2.1	20.7
3 2	10 36.45	+10 7.6	2.603	3.591	1.3	20.6
3 12	10 29.11	+10 47.9	2.633	3.596	4.5	20.9
3 22	10 22.63	+11 21.6	2.692	3.601	7.5	21.1
4 1	10 17.53	+11 46.5	2.777	3.605	10.1	21.3
427755 2004 SQ_{53}			2 27.5 98°.74	4°.1/ 3.4 18		
1 22	11 2.01	− 8 36.9	2.260	2.986	14.7	22.0
2 1	10 57.68	− 8 11.8	2.184	3.009	12.1	21.8
2 11	10 51.56	− 7 25.5	2.130	3.032	9.0	21.7
2 21	10 44.21	− 6 19.5	2.102	3.055	6.0	21.5
3 2	10 36.37	− 4 58.1	2.102	3.077	4.1	21.4
3 12	10 28.91	− 3 27.7	2.133	3.098	5.2	21.5
3 22	10 22.55	− 1 55.6	2.192	3.119	8.0	21.7
4 1	10 17.86	− 0 28.3	2.278	3.140	10.8	22.0
423992 2006 VP_{80}			2 27.5 180°.48	3°.4/ 1.9 16		
1 22	11 3.15	− 4 21.8	2.093	2.845	15.0	22.2
2 1	10 58.87	− 4 12.3	2.000	2.846	12.1	22.0
2 11	10 52.53	− 3 43.3	1.928	2.847	8.8	21.8
2 21	10 44.67	− 2 56.1	1.883	2.847	5.4	21.6
3 2	10 36.09	− 1 54.2	1.865	2.846	3.4	21.5
3 12	10 27.75	− 0 43.6	1.877	2.846	5.5	21.6
3 22	10 20.52	+ 0 28.7	1.917	2.844	8.9	21.8
4 1	10 15.14	+ 1 36.3	1.982	2.843	12.3	22.0
191319 2003 JW_{7}			2 27.5 253°.00	6°.5/20.7 18		
1 22	11 5.40	+24 39.6	2.077	2.902	12.6	20.6
2 1	11 0.87	+25 59.5	1.996	2.889	9.9	20.4
2 11	10 53.97	+27 19.6	1.939	2.876	7.5	20.3
2 21	10 45.29	+28 31.3	1.909	2.862	6.5	20.2
3 2	10 35.76	+29 26.4	1.908	2.848	7.7	20.2
3 12	10 26.50	+29 59.0	1.933	2.834	10.2	20.4
3 22	10 18.54	+30 7.0	1.982	2.820	13.1	20.5
4 1	10 12.71	+29 51.4	2.053	2.805	15.7	20.7
460122 2014 PG_{35}			2 27.5 125°.03	0°.9/28.3 18		
1 22	11 6.13	+ 3 20.7	1.945	2.729	14.8	22.4
2 1	11 1.12	+ 3 46.2	1.870	2.744	11.5	22.2
2 11	10 53.93	+ 4 26.7	1.818	2.759	7.6	21.9
2 21	10 45.21	+ 5 18.3	1.793	2.773	3.4	21.7
3 2	10 35.86	+ 6 15.6	1.798	2.787	1.5	21.6
3 12	10 26.94	+ 7 11.9	1.831	2.800	5.6	21.9
3 22	10 19.36	+ 8 1.7	1.893	2.812	9.5	22.2
4 1	10 13.81	+ 8 40.7	1.979	2.824	12.9	22.4
226806 2004 RV_{216}			2 27.5 154°.85	5°.8/ 4.9 18		
1 22	11 2.20	−12 13.1	2.359	3.059	14.8	20.4
2 1	10 57.94	−12 25.8	2.266	3.065	12.6	20.3
2 11	10 51.83	−12 17.5	2.193	3.070	10.0	20.1
2 21	10 44.37	−11 47.7	2.145	3.075	7.5	19.9
3 2	10 36.29	−10 57.8	2.124	3.080	5.9	19.8
3 12	10 28.43	− 9 52.3	2.132	3.084	6.3	19.9
3 22	10 21.58	− 8 37.3	2.167	3.088	8.5	20.0
4 1	10 16.38	− 7 19.6	2.229	3.091	11.0	20.2
335850 2007 QO_{5}			2 27.5 85°.09	1°.5/29.1 18		
1 22	11 4.90	+ 1 45.9	2.496	3.261	12.5	21.4
2 1	10 59.57	+ 1 55.2	2.432	3.293	9.7	21.3
2 11	10 52.62	+ 2 16.2	2.392	3.325	6.5	21.1
2 21	10 44.59	+ 2 46.6	2.380	3.356	3.3	20.9
3 2	10 36.21	+ 3 22.7	2.398	3.386	1.6	20.9
3 12	10 28.25	+ 4 0.3	2.447	3.416	4.4	21.1
3 22	10 21.36	+ 4 35.4	2.525	3.445	7.4	21.3
4 1	10 16.05	+ 5 4.8	2.630	3.474	10.1	21.6
346198 2007 XR_{25}			2 27.5 80°.48	6°.2/ 5.3 18		
1 22	11 1.19	−12 38.6	2.402	3.101	14.6	20.6
2 1	10 57.13	−13 9.0	2.313	3.108	12.5	20.4
2 11	10 51.29	−13 19.8	2.244	3.115	10.1	20.3
2 21	10 44.14	−13 9.7	2.199	3.122	7.8	20.1
3 2	10 36.41	−12 39.7	2.181	3.130	6.3	20.1
3 12	10 28.90	−11 53.4	2.191	3.137	6.6	20.1
3 22	10 22.37	−10 55.9	2.228	3.144	8.5	20.2
4 1	10 17.44	− 9 53.6	2.290	3.152	10.8	20.4

131726 2001 YS_{86} 2 27.5 33°.88 2°.5/25.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 3.32	+10 23.2	1.258	2.096	18.3	19.4
2 1	11 0.08	+11 14.9	1.196	2.103	13.9	19.2
2 11	10 53.79	+12 21.8	1.154	2.111	8.8	18.9
2 21	10 45.27	+13 35.2	1.136	2.119	3.7	18.7
3 2	10 35.83	+14 44.6	1.143	2.128	4.0	18.7
3 12	10 27.02	+15 39.9	1.176	2.138	9.0	19.0
3 22	10 20.16	+16 15.0	1.232	2.148	13.8	19.3
4 1	10 16.14	+16 27.7	1.308	2.158	18.0	19.6

383807 2007 YQ_{69} 2 27.5 22°.71 0°.5/28.0 17

1 22	11 0.14	+ 4 52.3	2.189	2.983	13.1	21.3
2 1	10 56.43	+ 5 13.1	2.105	2.986	10.1	21.1
2 11	10 50.87	+ 5 46.3	2.044	2.989	6.6	20.9
2 21	10 43.98	+ 6 28.4	2.011	2.992	2.8	20.7
3 2	10 36.50	+ 7 14.9	2.006	2.996	1.3	20.6
3 12	10 29.31	+ 8 0.4	2.031	3.000	5.1	20.8
3 22	10 23.17	+ 8 40.3	2.083	3.004	8.7	21.1
4 1	10 18.72	+ 9 10.9	2.159	3.008	11.9	21.3

19772 2000 OU_{46} 2 27.5 166°.67 1°.1/28.8 18

1 22	11 1.61	+ 0 56.9	2.325	3.097	13.0	20.0
2 1	10 57.46	+ 1 43.4	2.235	3.101	10.2	19.8
2 11	10 51.50	+ 2 45.9	2.168	3.105	6.9	19.6
2 21	10 44.23	+ 4 0.9	2.130	3.108	3.2	19.3
3 2	10 36.37	+ 5 23.1	2.122	3.111	1.4	19.2
3 12	10 28.75	+ 6 45.9	2.144	3.113	4.9	19.4
3 22	10 22.12	+ 8 2.9	2.195	3.115	8.4	19.7
4 1	10 17.11	+ 9 9.5	2.273	3.116	11.6	19.9

53865 2000 FS_{29} 2 27.5 164°.20 1°.8/25.9 18

1 22	11 6.44	+11 47.9	2.065	2.871	13.3	19.5
2 1	11 1.35	+12 22.0	1.984	2.875	10.1	19.3
2 11	10 54.10	+13 4.1	1.928	2.878	6.5	19.1
2 21	10 45.30	+13 48.9	1.899	2.882	2.8	18.9
3 2	10 35.82	+14 30.7	1.900	2.884	2.8	18.9
3 12	10 26.70	+15 3.9	1.930	2.887	6.5	19.1
3 22	10 18.87	+15 25.0	1.988	2.889	10.2	19.4
4 1	10 13.01	+15 32.1	2.069	2.890	13.4	19.6

231650 2009 WZ_{8} 2 27.5 359°.86 4°.0/23.8 17

1 22	11 3.83	+16 56.2	1.891	2.716	13.6	20.6
2 1	10 59.63	+17 54.2	1.816	2.716	10.3	20.4
2 11	10 53.12	+18 57.6	1.765	2.716	6.9	20.2
2 21	10 44.93	+19 59.0	1.740	2.716	4.2	20.1
3 2	10 36.01	+20 51.0	1.744	2.716	5.1	20.1
3 12	10 27.47	+21 27.1	1.776	2.716	8.4	20.3
3 22	10 20.30	+21 44.4	1.833	2.716	11.9	20.5
4 1	10 15.25	+21 42.2	1.912	2.716	14.9	20.7

302487 2002 GD_{63} 2 27.5 12°.31 1°.8/26.3 18

1 22	11 1.99	+ 9 9.4	1.241	2.079	18.5	19.8
2 1	10 59.16	+ 9 48.5	1.174	2.081	14.1	19.5
2 11	10 53.27	+10 44.1	1.127	2.083	9.0	19.3
2 21	10 45.10	+11 48.9	1.103	2.087	3.6	19.0
3 2	10 35.93	+12 52.9	1.104	2.091	3.3	18.9
3 12	10 27.31	+13 46.2	1.130	2.096	8.6	19.3
3 22	10 20.61	+14 21.9	1.179	2.102	13.7	19.6
4 1	10 16.75	+14 36.7	1.248	2.109	18.0	19.8

332772 2009 VM 2 27.6 154°.72 0°.2/27.7 18

1 22	11 5.11	+ 6 30.2	1.991	2.787	14.1	21.0
2 1	11 0.42	+ 6 41.3	1.907	2.789	10.9	20.8
2 11	10 53.55	+ 7 4.0	1.845	2.791	7.1	20.6
2 21	10 45.10	+ 7 34.8	1.811	2.793	2.9	20.3
3 2	10 35.95	+ 8 8.9	1.805	2.794	1.5	20.2
3 12	10 27.12	+ 8 41.0	1.828	2.796	5.7	20.5
3 22	10 19.55	+ 9 6.6	1.879	2.797	9.7	20.7
4 1	10 13.96	+ 9 22.6	1.954	2.799	13.1	21.0

369331 2009 SN_{257} 2 27.6 218°.84 2°.9/ 1.2 17

1 22	11 5.48	− 1 29.5	2.287	3.042	13.7	21.9
2 1	11 0.56	− 1 38.0	2.183	3.034	11.1	21.7
2 11	10 53.62	− 1 31.7	2.102	3.025	7.9	21.5
2 21	10 45.15	− 1 11.5	2.047	3.015	4.7	21.3
3 2	10 35.90	− 0 39.9	2.022	3.005	2.9	21.1
3 12	10 26.80	− 0 1.3	2.026	2.994	5.2	21.2
3 22	10 18.72	+ 0 39.5	2.059	2.983	8.7	21.4
4 1	10 12.38	+ 1 17.5	2.118	2.971	11.9	21.6

79040 3196 T_{-2} 2 27.6 200°.17 1°.3/26.4 17

1 22	11 6.51	+ 9 31.9	2.012	2.813	13.8	21.2
2 1	11 1.56	+10 8.2	1.922	2.810	10.6	20.9
2 11	10 54.35	+10 55.3	1.857	2.806	6.8	20.7
2 21	10 45.47	+11 48.2	1.818	2.801	2.7	20.4
3 2	10 35.78	+12 40.5	1.810	2.796	2.4	20.4
3 12	10 26.36	+13 26.2	1.830	2.790	6.5	20.6
3 22	10 18.20	+14 0.3	1.878	2.784	10.4	20.9
4 1	10 12.06	+14 20.3	1.950	2.777	13.9	21.1

288425 2004 EE 2 27.6 24°.03 4°.0/24.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 8.69	+19 26.5	1.828	2.650	14.1	19.8
2 1	11 3.26	+19 39.6	1.760	2.657	10.8	19.6
2 11	10 55.39	+19 53.1	1.715	2.664	7.2	19.4
2 21	10 45.82	+20 1.0	1.696	2.672	4.4	19.3
3 2	10 35.64	+19 58.0	1.706	2.680	4.9	19.3
3 12	10 26.06	+19 40.7	1.744	2.689	8.1	19.5
3 22	10 18.09	+19 8.3	1.808	2.699	11.6	19.8
4 1	10 12.43	+18 22.1	1.894	2.709	14.7	20.0

212395 2006 JL_{12} 2 27.6 102°.57 2°.1/29.4 18

1 22	11 3.69	− 0 51.3	1.669	2.451	17.0	20.9
2 1	10 59.64	− 0 18.0	1.595	2.465	13.4	20.6
2 11	10 53.18	+ 0 37.2	1.543	2.478	9.2	20.4
2 21	10 44.99	+ 1 50.6	1.515	2.491	4.7	20.2
3 2	10 36.06	+ 3 15.3	1.516	2.504	2.2	20.1
3 12	10 27.59	+ 4 42.4	1.545	2.517	6.0	20.3
3 22	10 20.59	+ 6 3.3	1.601	2.529	10.3	20.6
4 1	10 15.82	+ 7 11.5	1.680	2.541	14.1	20.9

163652 2002 VQ_{68} 2 27.6 131°.63 0°.7/26.9 17

1 22	11 5.08	+ 9 49.2	2.303	3.100	12.4	19.9
2 1	11 0.08	+ 9 59.2	2.219	3.104	9.5	19.7
2 11	10 53.18	+10 16.6	2.160	3.108	6.1	19.5
2 21	10 44.93	+10 37.9	2.128	3.111	2.4	19.3
3 2	10 36.10	+10 59.0	2.126	3.114	1.7	19.2
3 12	10 27.59	+11 15.9	2.155	3.118	5.4	19.5
3 22	10 20.19	+11 25.5	2.211	3.121	8.9	19.7
4 1	10 14.54	+11 25.8	2.292	3.124	11.9	19.9

316738 1998 WB_{35} 2 27.6 169°.69 0°.2/27.7 17

1 22	11 2.54	+ 5 41.2	2.389	3.176	12.3	22.0
2 1	10 58.12	+ 6 5.7	2.301	3.179	9.5	21.8
2 11	10 51.91	+ 6 41.2	2.237	3.181	6.2	21.6
2 21	10 44.42	+ 7 24.3	2.201	3.182	2.6	21.4
3 2	10 36.36	+ 8 10.7	2.194	3.184	1.2	21.3
3 12	10 28.54	+ 8 55.3	2.218	3.185	5.0	21.6
3 22	10 21.73	+ 9 34.0	2.270	3.186	8.4	21.8
4 1	10 16.51	+10 3.3	2.348	3.186	11.4	22.0

83670 2001 TL_{30} 2 27.6 60°.58 1°.0/26.6 18

1 22	11 4.01	+10 33.5	2.201	3.005	12.7	19.8
2 1	10 59.33	+10 48.2	2.122	3.011	9.6	19.6
2 11	10 52.72	+11 10.3	2.068	3.017	6.2	19.4
2 21	10 44.74	+11 35.9	2.041	3.024	2.5	19.1
3 2	10 36.20	+12 0.4	2.043	3.030	2.0	19.1
3 12	10 28.02	+12 19.6	2.075	3.037	5.7	19.4
3 22	10 20.99	+12 30.3	2.134	3.043	9.2	19.6
4 1	10 15.75	+12 30.7	2.217	3.050	12.2	19.8

412776 2014 OS_{390} 2 27.6 139°.43 1°.3/26.4 18

1 22	11 6.10	+ 8 55.1	1.988	2.789	14.0	21.7
2 1	11 1.12	+ 9 41.4	1.913	2.801	10.6	21.5
2 11	10 53.97	+10 38.8	1.862	2.812	6.7	21.3
2 21	10 45.28	+11 41.8	1.839	2.822	2.7	21.1
3 2	10 35.94	+12 43.8	1.846	2.832	2.4	21.1
3 12	10 27.01	+13 38.1	1.882	2.842	6.4	21.3
3 22	10 19.40	+14 20.1	1.945	2.850	10.1	21.6
4 1	10 13.80	+14 47.2	2.032	2.858	13.4	21.8

242798 2006 BX_{12} 2 27.6 340°.19 2°.3/28.9 18

1 22	11 5.52	+ 3 3.6	1.330	2.140	19.0	19.9
2 1	11 1.84	+ 2 44.7	1.249	2.136	15.1	19.7
2 11	10 55.07	+ 2 44.0	1.187	2.131	10.4	19.4
2 21	10 45.91	+ 2 59.7	1.149	2.128	5.2	19.1
3 2	10 35.56	+ 3 27.3	1.136	2.124	2.6	18.9
3 12	10 25.61	+ 3 59.7	1.148	2.122	7.4	19.2
3 22	10 17.46	+ 4 29.7	1.185	2.119	12.5	19.4
4 1	10 12.16	+ 4 51.4	1.243	2.117	17.1	19.7

334613 2002 UD_{24} 2 27.6 109°.63 1°.3/26.2 18

1 22	11 3.41	+10 45.7	2.420	3.220	11.8	21.4
2 1	10 58.67	+11 19.2	2.347	3.235	8.9	21.2
2 11	10 52.19	+11 59.9	2.300	3.249	5.6	21.0
2 21	10 44.52	+12 43.4	2.281	3.263	2.3	20.8
3 2	10 36.37	+13 25.0	2.292	3.277	2.2	20.8
3 12	10 28.58	+14 0.0	2.333	3.291	5.5	21.1
3 22	10 21.85	+14 25.3	2.402	3.304	8.6	21.3
4 1	10 16.75	+14 39.1	2.495	3.317	11.4	21.5

52769 1998 OF_{4} 2 27.6 137°.59 1°.0/26.7 18

1 22	11 6.77	+ 7 0.6	1.674	2.479	16.0	20.0
2 1	11 2.03	+ 7 54.8	1.601	2.490	12.2	19.7
2 11	10 54.76	+ 9 4.5	1.551	2.501	7.8	19.5
2 21	10 45.65	+10 23.3	1.528	2.511	3.0	19.2
3 2	10 35.77	+11 42.8	1.533	2.521	2.4	19.2
3 12	10 26.35	+12 54.3	1.567	2.530	7.1	19.5
3 22	10 18.49	+13 51.2	1.627	2.538	11.4	19.8
4 1	10 12.99	+14 30.1	1.710	2.545	15.1	20.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
296345 2009 FR_4			2 27.6 271°.29		3°.0/25.3 17	
	h m	° ′			°	m
1 22	11 6.80	+13 47.4	1.687	2.508	15.2	21.0
2 1	11 2.38	+14 24.6	1.594	2.492	11.7	20.7
2 11	10 55.23	+15 10.7	1.524	2.476	7.6	20.4
2 21	10 45.94	+15 59.4	1.479	2.460	3.7	20.2
3 2	10 35.56	+16 42.8	1.463	2.444	4.2	20.1
3 12	10 25.42	+17 13.6	1.474	2.428	8.4	20.3
3 22	10 16.75	+17 27.4	1.510	2.411	12.8	20.6
4 1	10 10.54	+17 22.5	1.568	2.395	16.6	20.8
428011 2006 BM_{113}			2 27.6 79°.44		2°.6/24.9 18	
1 22	11 2.39	+11 45.4	1.890	2.708	13.9	20.7
2 1	10 58.38	+12 57.8	1.826	2.724	10.4	20.5
2 11	10 52.23	+14 20.0	1.787	2.740	6.6	20.3
2 21	10 44.58	+15 44.6	1.775	2.756	3.2	20.2
3 2	10 36.34	+17 3.3	1.792	2.772	3.8	20.2
3 12	10 28.55	+18 9.1	1.838	2.788	7.3	20.5
3 22	10 22.09	+18 57.3	1.909	2.804	10.9	20.7
4 1	10 17.63	+19 26.2	2.004	2.820	13.9	21.0
352704 2008 SW_{151}			2 27.6 1°.14		3°.1/29.4 18	
1 22	11 4.66	+ 1 26.2	1.245	2.057	20.0	21.1
2 1	11 1.31	+ 1 4.8	1.169	2.055	16.0	20.9
2 11	10 54.78	+ 1 4.6	1.112	2.055	11.1	20.6
2 21	10 45.81	+ 1 24.0	1.078	2.054	5.9	20.3
3 2	10 35.66	+ 1 58.5	1.067	2.055	3.2	20.1
3 12	10 25.97	+ 2 40.3	1.082	2.056	7.6	20.4
3 22	10 18.19	+ 3 21.0	1.120	2.058	12.8	20.7
4 1	10 13.36	+ 3 53.4	1.180	2.060	17.4	20.9
468417 1995 SB_{69}			2 27.6 169°.68		1°.3/29.2 17	
1 22	10 59.44	+ 0 20.0	2.811	3.574	11.2	22.4
2 1	10 55.52	+ 0 57.5	2.717	3.577	8.8	22.2
2 11	10 50.14	+ 1 48.3	2.647	3.580	6.0	22.1
2 21	10 43.71	+ 2 49.7	2.606	3.582	3.0	21.9
3 2	10 36.80	+ 3 57.7	2.596	3.584	1.4	21.7
3 12	10 30.07	+ 5 7.5	2.616	3.585	4.1	21.9
3 22	10 24.14	+ 6 14.1	2.666	3.587	7.1	22.1
4 1	10 19.51	+ 7 13.6	2.742	3.587	9.8	22.3
465072 2006 SR_{301}			2 27.6 161°.84		7°.8/14.7 18	
1 22	11 7.69	+41 4.6	3.225	4.006	9.6	21.3
2 1	11 1.91	+42 24.6	3.180	4.013	8.5	21.2
2 11	10 54.28	+43 33.9	3.161	4.019	7.8	21.2
2 21	10 45.37	+44 26.9	3.168	4.024	7.9	21.2
3 2	10 35.95	+44 58.9	3.201	4.029	8.7	21.2
3 12	10 26.89	+45 8.2	3.259	4.034	9.8	21.3
3 22	10 18.98	+44 55.4	3.339	4.038	11.1	21.4
4 1	10 12.80	+44 23.0	3.438	4.041	12.3	21.5
153041 2000 QZ_{10}			2 27.6 243°.29		1°.3/28.8 17	
1 22	11 4.93	+ 2 49.9	2.242	3.017	13.4	21.2
2 1	11 0.25	+ 2 58.1	2.133	3.002	10.6	21.0
2 11	10 53.50	+ 3 19.6	2.048	2.985	7.2	20.8
2 21	10 45.17	+ 3 52.1	1.991	2.969	3.5	20.5
3 2	10 36.00	+ 4 32.1	1.962	2.951	1.6	20.3
3 12	10 26.94	+ 5 14.5	1.964	2.933	5.2	20.5
3 22	10 18.88	+ 5 54.4	1.994	2.915	9.1	20.7
4 1	10 12.58	+ 6 27.4	2.049	2.896	12.5	20.9
258342 2001 VQ_{90}			2 27.6 70°.19		7°.3/20.5 18	
1 22	11 4.90	+23 53.7	1.695	2.530	14.4	20.2
2 1	11 0.68	+25 37.6	1.646	2.546	11.3	20.0
2 11	10 53.89	+27 20.2	1.621	2.561	8.5	19.9
2 21	10 45.29	+28 50.7	1.623	2.577	7.3	19.8
3 2	10 36.01	+29 59.3	1.652	2.593	8.6	19.9
3 12	10 27.35	+30 40.3	1.706	2.608	11.3	20.1
3 22	10 20.37	+30 52.6	1.783	2.624	14.2	20.4
4 1	10 15.80	+30 38.7	1.880	2.640	16.7	20.6
116991 2004 HK_{45}			2 27.6 243°.75		3°.1/ 2.3 17	
1 22	10 59.90	− 4 58.5	2.816	3.552	11.9	20.5
2 1	10 55.98	− 4 52.2	2.704	3.539	9.7	20.3
2 11	10 50.52	− 4 30.9	2.614	3.525	7.2	20.1
2 21	10 43.90	− 3 55.3	2.552	3.511	4.6	20.0
3 2	10 36.70	− 3 7.9	2.519	3.496	3.1	19.8
3 12	10 29.58	− 2 12.4	2.515	3.482	4.5	19.9
3 22	10 23.21	− 1 13.6	2.541	3.467	7.1	20.0
4 1	10 18.15	− 0 16.1	2.594	3.451	9.8	20.2
79511 1998 JR_4			2 27.6 234°.75		5°.7/23.1 18	
1 22	11 10.03	+19 26.0	1.613	2.439	15.5	19.9
2 1	11 5.04	+20 33.4	1.530	2.429	12.0	19.7
2 11	10 57.04	+21 46.3	1.469	2.417	8.3	19.4
2 21	10 46.71	+22 54.8	1.434	2.405	5.8	19.3
3 2	10 35.21	+23 48.8	1.427	2.392	7.0	19.3
3 12	10 24.06	+24 20.3	1.447	2.379	10.6	19.5
3 22	10 14.62	+24 26.1	1.490	2.365	14.6	19.7
4 1	10 7.93	+24 7.0	1.554	2.350	18.2	19.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
404217 2013 CC_{181}			2 27.6 7°.52		4°.3/ 1.4 18	
	h m	° ′			°	m
1 22	11 2.83	− 1 31.6	1.259	2.062	20.3	20.6
2 1	10 59.84	− 1 56.1	1.184	2.062	16.4	20.3
2 11	10 53.81	− 1 56.6	1.128	2.063	11.8	20.1
2 21	10 45.42	− 1 33.3	1.093	2.065	7.0	19.8
3 2	10 35.91	− 0 50.4	1.083	2.067	4.3	19.6
3 12	10 26.85	+ 0 4.1	1.097	2.071	7.6	19.8
3 22	10 19.62	+ 1 0.7	1.135	2.074	12.4	20.1
4 1	10 15.25	+ 1 50.7	1.194	2.079	16.9	20.4
55711 3122 T_{-3}			2 27.6 112°.78		2°.2/25.7 18	
1 22	11 5.45	+11 57.2	1.778	2.594	14.7	19.6
2 1	11 0.95	+12 36.3	1.703	2.599	11.2	19.4
2 11	10 54.03	+13 24.8	1.651	2.603	7.1	19.2
2 21	10 45.37	+14 16.4	1.625	2.608	3.1	19.0
3 2	10 35.97	+15 4.2	1.628	2.612	3.3	19.0
3 12	10 26.99	+15 41.5	1.659	2.616	7.3	19.2
3 22	10 19.46	+16 4.3	1.716	2.620	11.3	19.5
4 1	10 14.17	+16 10.8	1.796	2.624	14.8	19.7
258386 2001 XF_{61}			2 27.6 18°.79		9°.3/18.8 18	
1 22	11 3.10	+27 28.5	1.502	2.348	15.4	19.4
2 1	10 59.81	+29 22.2	1.451	2.352	12.4	19.2
2 11	10 53.59	+31 12.0	1.423	2.356	10.0	19.1
2 21	10 45.25	+32 45.0	1.419	2.361	9.4	19.0
3 2	10 36.04	+33 50.0	1.440	2.367	10.9	19.1
3 12	10 27.45	+34 21.0	1.485	2.373	13.6	19.3
3 22	10 20.73	+34 17.8	1.550	2.380	16.5	19.5
4 1	10 16.72	+33 44.1	1.633	2.388	19.1	19.7
417523 2006 SA_{411}			2 27.6 209°.36		0°.8/26.8 14	C
1 22	11 5.99	+ 8 29.6	2.134	2.930	13.3	22.7
2 1	11 1.08	+ 9 1.9	2.040	2.924	10.2	22.4
2 11	10 54.03	+ 9 45.1	1.970	2.917	6.6	22.2
2 21	10 45.38	+10 34.8	1.927	2.910	2.6	21.9
3 2	10 35.95	+11 25.4	1.914	2.902	2.0	21.9
3 12	10 26.74	+12 11.0	1.931	2.893	6.0	22.1
3 22	10 18.68	+12 46.9	1.976	2.884	9.9	22.3
4 1	10 12.52	+13 10.2	2.045	2.874	13.2	22.5
139882 2001 RB_{86}			2 27.6 133°.83		1°.6/29.5 18	
1 22	10 59.88	− 0 8.6	2.537	3.303	12.2	20.5
2 1	10 56.00	+ 0 22.1	2.449	3.310	9.6	20.3
2 11	10 50.51	+ 1 7.3	2.386	3.317	6.6	20.1
2 21	10 43.88	+ 2 4.2	2.349	3.324	3.4	19.9
3 2	10 36.75	+ 3 8.8	2.342	3.330	1.7	19.8
3 12	10 29.86	+ 4 15.7	2.366	3.336	4.4	20.0
3 22	10 23.86	+ 5 19.8	2.419	3.342	7.5	20.2
4 1	10 19.31	+ 6 16.5	2.497	3.348	10.4	20.4
148548 2001 QU_{144}			2 27.6 78°.18		0°.1/27.6 18	
1 22	11 8.62	+ 7 52.2	1.740	2.542	15.6	20.2
2 1	11 3.28	+ 7 49.9	1.669	2.554	12.0	20.0
2 11	10 55.48	+ 7 58.2	1.620	2.567	7.8	19.7
2 21	10 45.93	+ 8 13.6	1.597	2.579	3.2	19.5
3 2	10 35.70	+ 8 31.2	1.602	2.591	1.6	19.4
3 12	10 26.00	+ 8 46.1	1.636	2.604	6.3	19.7
3 22	10 17.88	+ 8 54.3	1.697	2.616	10.5	20.0
4 1	10 12.07	+ 8 53.4	1.781	2.629	14.1	20.3
494828 2007 TP_{229}			2 27.6 219°.04		0°.9/28.4 17	
1 22	11 5.67	+ 3 18.0	2.001	2.784	14.5	22.7
2 1	11 1.02	+ 3 42.8	1.902	2.775	11.4	22.5
2 11	10 54.11	+ 4 23.2	1.825	2.765	7.6	22.3
2 21	10 45.45	+ 5 16.1	1.775	2.755	3.4	22.0
3 2	10 35.91	+ 6 16.3	1.755	2.744	1.5	21.8
3 12	10 26.54	+ 7 17.1	1.764	2.732	5.8	22.1
3 22	10 18.35	+ 8 12.3	1.800	2.720	10.0	22.3
4 1	10 12.14	+ 8 56.9	1.862	2.707	13.7	22.5
297844 2002 CJ_3			2 27.6 15°.28		3°.2/25.7 18	
1 22	11 4.63	+13 31.8	1.085	1.936	19.6	19.8
2 1	11 1.55	+13 53.6	1.026	1.940	15.0	19.5
2 11	10 54.99	+14 25.8	0.987	1.946	9.7	19.2
2 21	10 45.88	+15 0.2	0.969	1.953	4.4	19.0
3 2	10 35.75	+15 27.1	0.976	1.961	4.6	19.0
3 12	10 26.41	+15 38.6	1.006	1.970	9.8	19.3
3 22	10 19.35	+15 31.1	1.058	1.981	14.9	19.6
4 1	10 15.53	+15 4.1	1.129	1.992	19.3	19.9
465374 2008 DC_{20}			2 27.6 337°.67		1°.9/26.4 16	
1 22	11 6.08	+12 15.9	1.391	2.222	17.3	21.5
2 1	11 2.21	+12 20.0	1.309	2.212	13.3	21.2
2 11	10 55.30	+12 33.1	1.248	2.203	8.6	20.9
2 21	10 46.03	+12 49.7	1.211	2.195	3.6	20.6
3 2	10 35.62	+13 3.3	1.200	2.187	3.2	20.5
3 12	10 25.64	+13 7.5	1.215	2.181	8.3	20.8
3 22	10 17.45	+12 58.4	1.254	2.175	13.3	21.1
4 1	10 12.09	+12 34.5	1.314	2.170	17.6	21.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
431451 2007 RF_{176}			2 27.6 207°.75		0°.4/27.9 17	
	h m	° ′			°	m
1 22	11 1.58	+ 4 53.5	2.443	3.228	12.1	22.2
2 1	10 57.42	+ 5 19.8	2.349	3.225	9.4	22.0
2 11	10 51.51	+ 5 57.6	2.279	3.221	6.2	21.8
2 21	10 44.33	+ 6 43.8	2.236	3.218	2.6	21.6
3 2	10 36.54	+ 7 34.1	2.224	3.214	1.2	21.4
3 12	10 28.96	+ 8 23.6	2.242	3.209	4.8	21.7
3 22	10 22.31	+ 9 7.5	2.288	3.205	8.3	21.9
4 1	10 17.20	+ 9 42.5	2.359	3.200	11.3	22.1
277727 2006 DL_{70}			2 27.6 102°.98		1°.0/26.7 18	
1 22	11 4.63	+ 9 38.0	2.000	2.805	13.7	20.9
2 1	11 0.06	+10 0.2	1.920	2.809	10.5	20.7
2 11	10 53.35	+10 31.8	1.863	2.813	6.7	20.5
2 21	10 45.09	+11 8.4	1.834	2.817	2.7	20.2
3 2	10 36.17	+11 44.6	1.833	2.821	2.1	20.2
3 12	10 27.61	+12 15.1	1.861	2.824	6.1	20.5
3 22	10 20.31	+12 35.8	1.917	2.828	9.9	20.7
4 1	10 14.98	+12 44.6	1.996	2.832	13.2	20.9
460760 2014 VH_{32}			2 27.6 194°.39		0°.8/26.8 16	
1 22	11 4.41	+ 7 41.1	2.088	2.886	13.5	21.9
2 1	10 59.89	+ 8 21.7	1.999	2.884	10.3	21.7
2 11	10 53.26	+ 9 14.2	1.934	2.882	6.6	21.4
2 21	10 45.08	+10 14.2	1.896	2.879	2.6	21.2
3 2	10 36.16	+11 15.7	1.888	2.876	1.9	21.1
3 12	10 27.50	+12 12.0	1.909	2.872	6.0	21.4
3 22	10 20.00	+12 58.1	1.958	2.868	9.9	21.6
4 1	10 14.39	+13 30.6	2.032	2.863	13.2	21.8
150332 1999 VR_{183}			2 27.6 72°.42		1°.1/28.3 18	
1 22	11 7.94	+ 3 18.2	1.274	2.085	19.7	20.6
2 1	11 3.42	+ 3 37.3	1.218	2.106	15.3	20.4
2 11	10 55.85	+ 4 17.4	1.181	2.128	10.1	20.2
2 21	10 46.14	+ 5 13.2	1.168	2.149	4.5	19.9
3 2	10 35.66	+ 6 16.4	1.181	2.170	1.9	19.8
3 12	10 25.97	+ 7 17.5	1.220	2.192	7.3	20.2
3 22	10 18.34	+ 8 8.4	1.283	2.213	12.3	20.5
4 1	10 13.57	+ 8 44.2	1.369	2.233	16.5	20.8
27633 4005 $P–L$			2 27.6 221°.34		0°.5/27.0 18	
1 22	11 3.38	+ 8 43.2	2.617	3.407	11.3	19.7
2 1	10 58.70	+ 9 3.0	2.519	3.400	8.6	19.6
2 11	10 52.30	+ 9 30.7	2.446	3.392	5.6	19.3
2 21	10 44.64	+10 3.3	2.401	3.384	2.2	19.1
3 2	10 36.40	+10 36.6	2.387	3.375	1.5	19.0
3 12	10 28.33	+11 6.6	2.403	3.366	4.9	19.3
3 22	10 21.17	+11 30.0	2.448	3.357	8.2	19.4
4 1	10 15.50	+11 44.3	2.519	3.347	11.0	19.6
38733 2000 QF_{141}			2 27.6 110°.54		3°.0/25.4 18	
1 22	11 9.60	+13 57.5	1.626	2.445	15.8	19.2
2 1	11 4.25	+14 34.5	1.560	2.456	12.0	18.9
2 11	10 56.22	+15 18.9	1.516	2.468	7.7	18.7
2 21	10 46.28	+16 3.8	1.499	2.479	3.7	18.5
3 2	10 35.60	+16 41.4	1.509	2.490	4.1	18.5
3 12	10 25.53	+17 5.6	1.547	2.501	8.1	18.8
3 22	10 17.20	+17 13.3	1.611	2.512	12.2	19.1
4 1	10 11.40	+17 3.9	1.697	2.522	15.7	19.3
110204 2001 SH_{204}			2 27.6 78°.44		2°.5/25.4 18	
1 22	11 5.05	+11 45.8	1.738	2.556	14.9	20.3
2 1	11 0.54	+12 43.1	1.679	2.576	11.2	20.1
2 11	10 53.68	+13 49.9	1.643	2.596	7.1	19.9
2 21	10 45.22	+14 59.1	1.634	2.616	3.2	19.7
3 2	10 36.16	+16 2.5	1.653	2.635	3.6	19.7
3 12	10 27.67	+16 53.3	1.700	2.655	7.5	20.0
3 22	10 20.69	+17 27.3	1.774	2.674	11.2	20.3
4 1	10 15.93	+17 43.1	1.869	2.693	14.5	20.5
464992 2006 BN_{136}			2 27.6 112°.58		1°.7/25.9 18	
1 22	11 3.24	+10 29.1	2.057	2.866	13.3	21.8
2 1	10 58.92	+11 17.4	1.983	2.875	10.0	21.6
2 11	10 52.57	+12 15.3	1.933	2.884	6.4	21.4
2 21	10 44.77	+13 17.2	1.911	2.893	2.7	21.2
3 2	10 36.37	+14 16.7	1.918	2.902	2.7	21.2
3 12	10 28.34	+15 7.6	1.954	2.911	6.4	21.5
3 22	10 21.53	+15 45.5	2.017	2.919	10.0	21.7
4 1	10 16.59	+16 8.3	2.103	2.927	13.1	21.9
286956 2002 PS_{177}			2 27.6 194°.71		3°.3/ 1.5 18	
1 22	11 5.13	− 2 44.9	2.040	2.798	15.1	21.7
2 1	11 0.52	− 2 47.0	1.945	2.796	12.2	21.5
2 11	10 53.72	− 2 31.1	1.872	2.794	8.8	21.3
2 21	10 45.30	− 1 58.4	1.824	2.791	5.3	21.1
3 2	10 36.08	− 1 11.9	1.805	2.788	3.3	20.9
3 12	10 27.07	− 0 17.1	1.815	2.784	5.6	21.1
3 22	10 19.23	+ 0 39.5	1.853	2.780	9.3	21.3
4 1	10 13.32	+ 1 32.2	1.916	2.775	12.7	21.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
114773 2003 KE_{4}			2 27.6 262°.92		15°.2/11.4 18	
	h m	° ′			°	m
1 22	11 5.31	−28 33.7	1.795	2.398	21.6	19.2
2 1	11 1.63	−30 21.5	1.698	2.386	20.2	19.0
2 11	10 55.06	−31 40.2	1.615	2.374	18.5	18.9
2 21	10 46.06	−32 21.8	1.548	2.362	16.9	18.7
3 2	10 35.61	−32 19.8	1.500	2.349	15.6	18.6
3 12	10 25.09	−31 33.2	1.473	2.337	15.2	18.5
3 22	10 15.94	−30 7.0	1.466	2.324	15.8	18.5
4 1	10 9.35	−28 11.5	1.479	2.311	17.3	18.6
48568 1994 CO_{14}			2 27.6 66°.48		3°.2/24.9 18	
1 22	11 6.85	+16 53.7	2.037	2.853	13.1	18.3
2 1	11 1.62	+17 21.0	1.971	2.866	9.9	18.1
2 11	10 54.25	+17 51.2	1.930	2.880	6.5	17.9
2 21	10 45.43	+18 18.8	1.916	2.894	3.6	17.8
3 2	10 36.08	+18 38.3	1.931	2.908	4.1	17.8
3 12	10 27.24	+18 45.7	1.975	2.922	7.2	18.0
3 22	10 19.79	+18 39.1	2.046	2.936	10.5	18.3
4 1	10 14.37	+18 18.6	2.139	2.950	13.3	18.5
323906 2005 TL_{35}			2 27.6 306°.71		1°.6/26.3 18	
1 22	11 2.88	+ 9 49.9	1.643	2.463	15.5	20.6
2 1	10 59.38	+10 24.5	1.553	2.451	11.9	20.3
2 11	10 53.29	+11 12.1	1.485	2.439	7.7	20.0
2 21	10 45.21	+12 7.0	1.443	2.427	3.1	19.7
3 2	10 36.12	+13 2.0	1.428	2.415	2.9	19.7
3 12	10 27.29	+13 49.0	1.441	2.404	7.5	19.9
3 22	10 19.88	+14 22.4	1.478	2.393	12.1	20.2
4 1	10 14.80	+14 38.7	1.537	2.382	16.1	20.4
82102 2001 FM_{21}			2 27.6 339°.32		2°.6/25.4 18	
1 22	11 0.40	+ 9 38.2	1.453	2.285	16.6	18.8
2 1	10 57.70	+10 50.6	1.376	2.280	12.6	18.5
2 11	10 52.29	+12 20.2	1.320	2.276	8.1	18.3
2 21	10 44.82	+13 58.8	1.289	2.272	3.5	18.0
3 2	10 36.34	+15 35.3	1.284	2.268	4.0	18.0
3 12	10 28.22	+16 58.8	1.307	2.265	8.7	18.3
3 22	10 21.68	+18 1.4	1.353	2.262	13.4	18.5
4 1	10 17.63	+18 39.5	1.420	2.260	17.4	18.7
426313 2012 TD_{224}			2 27.6 199°.12		7°.4/19.9 18	
1 22	11 10.67	+32 25.0	2.388	3.194	11.7	21.0
2 1	11 4.52	+33 17.2	2.322	3.193	9.7	20.9
2 11	10 56.13	+34 1.6	2.280	3.192	8.0	20.8
2 21	10 46.20	+34 31.0	2.265	3.190	7.4	20.7
3 2	10 35.68	+34 39.9	2.278	3.189	8.3	20.8
3 12	10 25.68	+34 25.4	2.317	3.187	10.1	20.9
3 22	10 17.11	+33 48.3	2.382	3.185	12.3	21.0
4 1	10 10.67	+32 51.5	2.467	3.183	14.3	21.2
66805 1999 TU_{284}			2 27.6 191°.67		2°.9/23.9 18	
1 22	11 3.32	+15 48.3	2.733	3.539	10.4	21.1
2 1	10 58.61	+16 49.4	2.646	3.537	7.9	20.9
2 11	10 52.22	+17 55.3	2.586	3.535	5.2	20.7
2 21	10 44.63	+19 0.8	2.556	3.531	3.0	20.6
3 2	10 36.47	+20 0.4	2.556	3.527	3.7	20.6
3 12	10 28.52	+20 49.2	2.586	3.523	6.3	20.8
3 22	10 21.46	+21 24.3	2.645	3.518	9.0	21.0
4 1	10 15.89	+21 44.3	2.728	3.512	11.5	21.1
349174 2007 RV_{56}			2 27.6 120°.64		1°.2/28.9 18	
1 22	11 2.39	+ 2 2.7	2.615	3.384	11.9	21.9
2 1	10 57.80	+ 2 20.4	2.535	3.399	9.3	21.7
2 11	10 51.63	+ 2 49.9	2.479	3.413	6.2	21.5
2 21	10 44.35	+ 3 28.6	2.451	3.428	3.0	21.3
3 2	10 36.63	+ 4 12.9	2.453	3.442	1.4	21.2
3 12	10 29.20	+ 4 58.5	2.486	3.455	4.3	21.5
3 22	10 22.70	+ 5 41.1	2.548	3.468	7.4	21.7
4 1	10 17.65	+ 6 17.2	2.636	3.481	10.1	21.9
322860 2001 UG_{105}			2 27.6 278°.85		7°.9/20.5 18	
1 22	11 8.16	+27 18.7	1.786	2.613	14.2	20.0
2 1	11 3.40	+28 33.3	1.712	2.603	11.4	19.8
2 11	10 55.85	+29 44.9	1.661	2.593	8.9	19.7
2 21	10 46.22	+30 43.6	1.636	2.583	7.9	19.6
3 2	10 35.64	+31 20.2	1.638	2.573	9.2	19.6
3 12	10 25.51	+31 29.1	1.665	2.563	11.8	19.8
3 22	10 17.03	+31 9.8	1.715	2.553	14.8	19.9
4 1	10 11.12	+30 24.9	1.785	2.543	17.6	20.1
70307 1999 RV_{134}			2 27.6 109°.04		1°.1/28.6 18	
1 22	11 6.06	+ 2 26.2	1.800	2.586	15.8	19.7
2 1	11 1.27	+ 2 52.1	1.729	2.604	12.3	19.5
2 11	10 54.17	+ 3 34.8	1.681	2.621	8.2	19.3
2 21	10 45.45	+ 4 30.4	1.658	2.637	3.8	19.1
3 2	10 36.09	+ 5 32.9	1.664	2.654	1.6	18.9
3 12	10 27.20	+ 6 35.0	1.699	2.669	5.8	19.2
3 22	10 19.75	+ 7 30.2	1.762	2.684	9.9	19.5
4 1	10 14.45	+ 8 14.1	1.848	2.699	13.5	19.8

433904 2015 BB_{454} 2 27.6 63°.55 0°.6/28.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 2.59	+ 4 48.6	2.003	2.798	14.1	21.3
2 1	10 58.51	+ 5 6.3	1.922	2.803	10.9	21.1
2 11	10 52.37	+ 5 37.2	1.864	2.808	7.2	20.9
2 21	10 44.74	+ 6 17.8	1.832	2.813	3.1	20.7
3 2	10 36.46	+ 7 3.3	1.829	2.818	1.4	20.5
3 12	10 28.50	+ 7 47.8	1.854	2.824	5.5	20.8
3 22	10 21.75	+ 8 26.3	1.907	2.829	9.3	21.1
4 1	10 16.88	+ 8 54.9	1.984	2.835	12.7	21.3

281065 2006 KJ_{83} 2 27.6 322°.80 1°.6/29.4 18

1 22	10 58.12	− 1 8.0	1.928	2.710	15.0	20.1
2 1	10 55.31	− 0 17.5	1.833	2.703	11.9	19.9
2 11	10 50.43	+ 0 54.8	1.761	2.697	8.2	19.7
2 21	10 44.00	+ 2 25.5	1.714	2.691	4.1	19.4
3 2	10 36.81	+ 4 8.2	1.696	2.685	1.8	19.2
3 12	10 29.83	+ 5 54.1	1.708	2.680	5.5	19.4
3 22	10 23.95	+ 7 34.5	1.746	2.674	9.6	19.7
4 1	10 19.92	+ 9 2.0	1.810	2.669	13.3	19.9

156440 2002 AY_{148} 2 27.6 43°.46 1°.7/26.2 18

1 22	11 3.20	+ 9 32.5	1.487	2.313	16.6	19.8
2 1	10 59.46	+10 17.6	1.431	2.332	12.6	19.6
2 11	10 53.15	+11 15.4	1.397	2.352	7.9	19.3
2 21	10 45.06	+12 18.9	1.388	2.372	3.2	19.1
3 2	10 36.33	+13 19.6	1.406	2.393	3.0	19.1
3 12	10 28.23	+14 9.6	1.451	2.414	7.5	19.5
3 22	10 21.83	+14 43.8	1.520	2.435	11.8	19.8
4 1	10 17.82	+15 0.1	1.612	2.457	15.4	20.0

246190 2007 RT_{82} 2 27.6 220°.01 0°.2/27.5 17

1 22	11 6.46	+ 6 1.9	1.956	2.748	14.5	22.5
2 1	11 1.72	+ 6 33.5	1.858	2.739	11.2	22.2
2 11	10 54.62	+ 7 19.2	1.783	2.729	7.3	22.0
2 21	10 45.73	+ 8 15.0	1.736	2.718	3.0	21.7
3 2	10 35.91	+ 9 15.0	1.717	2.707	1.6	21.5
3 12	10 26.29	+10 12.1	1.729	2.694	6.2	21.8
3 22	10 17.88	+11 0.6	1.767	2.681	10.4	22.0
4 1	10 11.54	+11 36.1	1.830	2.668	14.2	22.2

110511 2001 TO_{75} 2 27.6 148°.36 3°.8/22.8 18

1 22	11 3.62	+20 52.0	2.812	3.623	10.0	20.7
2 1	10 58.73	+21 45.0	2.741	3.632	7.7	20.5
2 11	10 52.23	+22 38.6	2.697	3.640	5.3	20.4
2 21	10 44.61	+23 27.5	2.681	3.647	3.9	20.3
3 2	10 36.55	+24 6.8	2.696	3.654	4.6	20.4
3 12	10 28.78	+24 33.1	2.740	3.661	6.8	20.5
3 22	10 21.96	+24 44.6	2.811	3.667	9.1	20.7
4 1	10 16.64	+24 41.2	2.906	3.673	11.3	20.8

417325 2006 CJ_{22} 2 27.6 76°.69 1°.4/26.3 17

1 22	11 3.57	+10 6.3	1.947	2.757	13.9	21.5
2 1	10 59.34	+10 39.6	1.868	2.761	10.5	21.3
2 11	10 52.94	+11 22.9	1.813	2.764	6.7	21.1
2 21	10 44.98	+12 11.0	1.785	2.768	2.7	20.9
3 2	10 36.35	+12 57.8	1.785	2.772	2.5	20.8
3 12	10 28.07	+13 37.4	1.815	2.776	6.4	21.1
3 22	10 21.07	+14 5.5	1.870	2.779	10.3	21.3
4 1	10 16.05	+14 19.6	1.949	2.783	13.6	21.6

264513 2001 QT_{227} 2 27.6 119°.32 3°.6/ 1.9 18

1 22	11 7.79	− 3 19.9	2.207	2.951	14.5	22.0
2 1	11 2.19	− 3 37.0	2.129	2.970	11.7	21.8
2 11	10 54.60	− 3 38.1	2.073	2.988	8.5	21.6
2 21	10 45.61	− 3 23.9	2.043	3.005	5.3	21.5
3 2	10 36.04	− 2 57.0	2.043	3.022	3.6	21.4
3 12	10 26.86	− 2 21.8	2.072	3.038	5.4	21.5
3 22	10 18.88	− 1 43.3	2.130	3.053	8.4	21.7
4 1	10 12.76	− 1 6.4	2.214	3.068	11.4	22.0

61262 2000 OJ_{28} 2 27.6 182°.41 2°.2/29.6 18

1 22	11 5.97	− 0 26.4	1.979	2.748	15.2	20.1
2 1	11 1.20	− 0 9.5	1.888	2.749	12.1	19.9
2 11	10 54.20	+ 0 25.3	1.818	2.749	8.4	19.7
2 21	10 45.53	+ 1 15.7	1.775	2.749	4.4	19.4
3 2	10 36.05	+ 2 17.2	1.761	2.748	2.3	19.3
3 12	10 26.84	+ 3 23.2	1.776	2.746	5.6	19.5
3 22	10 18.86	+ 4 26.8	1.819	2.744	9.5	19.7
4 1	10 12.87	+ 5 22.3	1.887	2.741	13.1	19.9

217077 2001 TT_{34} 2 27.6 114°.53 4°.3/23.9 18

1 22	11 9.72	+19 39.4	2.061	2.874	13.1	20.3
2 1	11 3.81	+20 22.8	1.999	2.891	10.0	20.2
2 11	10 55.67	+21 7.2	1.961	2.906	6.8	20.0
2 21	10 46.03	+21 46.0	1.950	2.922	4.4	19.9
3 2	10 35.85	+22 13.1	1.969	2.936	5.2	19.9
3 12	10 26.23	+22 24.4	2.017	2.951	8.0	20.1
3 22	10 18.07	+22 18.5	2.092	2.965	11.1	20.4
4 1	10 12.04	+21 56.3	2.189	2.978	13.8	20.6

498928 2009 BP_{32} 2 27.6 142°.88 1°.5/29.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 2.99	+ 1 26.9	2.816	3.577	11.3	22.5
2 1	10 58.18	+ 1 35.1	2.730	3.588	8.9	22.4
2 11	10 51.85	+ 1 54.3	2.668	3.598	6.1	22.2
2 21	10 44.47	+ 2 22.6	2.634	3.608	3.1	22.0
3 2	10 36.63	+ 2 56.8	2.630	3.618	1.6	21.9
3 12	10 29.04	+ 3 33.4	2.657	3.626	4.1	22.1
3 22	10 22.31	+ 4 8.5	2.714	3.635	7.0	22.3
4 1	10 16.95	+ 4 39.1	2.798	3.643	9.6	22.5

229099 2004 RM_{13} 2 27.6 150°.34 0°.5/28.1 16

1 22	11 2.65	+ 3 49.5	2.224	3.008	13.2	21.5
2 1	10 58.37	+ 4 24.0	2.139	3.015	10.2	21.3
2 11	10 52.19	+ 5 12.2	2.078	3.020	6.7	21.1
2 21	10 44.66	+ 6 10.4	2.045	3.026	2.9	20.9
3 2	10 36.53	+ 7 13.4	2.041	3.031	1.3	20.7
3 12	10 28.67	+ 8 15.1	2.067	3.035	5.1	21.0
3 22	10 21.89	+ 9 10.2	2.122	3.040	8.7	21.2
4 1	10 16.82	+ 9 54.8	2.201	3.044	11.9	21.5

426747 2013 TL_{89} 2 27.6 197°.22 1°.5/29.1 17

1 22	11 2.79	+ 1 41.4	2.175	2.952	13.7	21.6
2 1	10 58.58	+ 1 55.0	2.082	2.951	10.8	21.4
2 11	10 52.40	+ 2 23.2	2.013	2.949	7.4	21.2
2 21	10 44.77	+ 3 3.4	1.971	2.947	3.6	21.0
3 2	10 36.46	+ 3 51.7	1.957	2.945	1.7	20.8
3 12	10 28.38	+ 4 42.6	1.973	2.943	5.1	21.0
3 22	10 21.37	+ 5 30.6	2.017	2.941	8.8	21.3
4 1	10 16.12	+ 6 11.3	2.085	2.938	12.1	21.5

303691 2005 NA_{77} 2 27.6 236°.48 3°.8/ 3.0 17

1 22	11 0.59	− 6 41.2	2.743	3.469	12.4	21.3
2 1	10 56.58	− 6 46.3	2.634	3.460	10.2	21.2
2 11	10 50.97	− 6 35.9	2.548	3.450	7.8	21.0
2 21	10 44.17	− 6 10.2	2.488	3.439	5.3	20.8
3 2	10 36.77	− 5 31.0	2.456	3.429	3.8	20.7
3 12	10 29.48	− 4 42.0	2.455	3.418	4.9	20.7
3 22	10 22.97	− 3 47.7	2.482	3.406	7.3	20.9
4 1	10 17.82	− 2 53.0	2.536	3.395	10.0	21.0

208691 2002 GZ_{161} 2 27.6 268°.27 4°.6/24.1 18

1 22	11 7.40	+17 13.3	1.580	2.410	15.6	20.0
2 1	11 2.98	+18 5.2	1.500	2.402	12.0	19.7
2 11	10 55.68	+19 3.4	1.443	2.395	8.0	19.5
2 21	10 46.22	+19 59.6	1.411	2.387	4.9	19.3
3 2	10 35.71	+20 44.5	1.406	2.380	5.8	19.3
3 12	10 25.61	+21 11.0	1.428	2.372	9.7	19.5
3 22	10 17.19	+21 15.5	1.474	2.365	13.8	19.7
4 1	10 11.40	+20 58.2	1.541	2.357	17.4	19.9

6784 Bogatikov 2 27.6 117°.48 2°.5/25.1 18 R

1 22	11 4.40	+13 36.1	2.125	2.937	12.8	17.7
2 1	10 59.76	+14 22.9	2.053	2.947	9.7	17.5
2 11	10 53.10	+15 16.3	2.005	2.957	6.2	17.3
2 21	10 45.03	+16 10.5	1.986	2.966	3.0	17.2
3 2	10 36.37	+16 59.4	1.995	2.975	3.5	17.2
3 12	10 28.09	+17 37.5	2.034	2.984	6.8	17.4
3 22	10 21.04	+18 1.5	2.099	2.993	10.1	17.6
4 1	10 15.86	+18 10.2	2.188	3.001	13.0	17.8

250155 2002 TT_{28} 2 27.6 105°.47 0°.4/27.9 18

1 22	11 6.15	+ 4 1.7	2.031	2.815	14.3	21.9
2 1	11 1.02	+ 4 39.6	1.965	2.840	11.0	21.7
2 11	10 53.86	+ 5 31.5	1.922	2.864	7.2	21.5
2 21	10 45.31	+ 6 32.9	1.907	2.888	3.0	21.3
3 2	10 36.25	+ 7 37.8	1.921	2.911	1.3	21.2
3 12	10 27.65	+ 8 39.7	1.965	2.933	5.4	21.5
3 22	10 20.37	+ 9 33.3	2.038	2.954	9.1	21.8
4 1	10 15.02	+10 14.9	2.135	2.975	12.3	22.1

502281 2015 BR_{136} 2 27.6 157°.95 5°.1/ 2.3 17

1 22	11 10.58	− 4 45.3	2.159	2.892	15.1	21.1
2 1	11 4.57	− 5 45.8	2.065	2.894	12.5	20.9
2 11	10 56.32	− 6 31.9	1.993	2.896	9.5	20.7
2 21	10 46.39	− 7 2.2	1.947	2.897	6.6	20.6
3 2	10 35.64	− 7 16.7	1.931	2.899	5.1	20.5
3 12	10 25.12	− 7 17.6	1.944	2.901	6.5	20.5
3 22	10 15.81	− 7 8.8	1.985	2.902	9.3	20.7
4 1	10 8.47	− 6 55.0	2.052	2.903	12.3	20.9

303224 2004 NZ_{29} 2 27.6 220°.89 1°.8/29.2 17

1 22	11 6.38	+ 0 47.4	1.909	2.684	15.4	22.6
2 1	11 1.74	+ 1 4.7	1.808	2.674	12.2	22.4
2 11	10 54.70	+ 1 39.9	1.729	2.663	8.5	22.1
2 21	10 45.80	+ 2 30.9	1.676	2.652	4.3	21.8
3 2	10 35.93	+ 3 32.7	1.652	2.640	2.0	21.6
3 12	10 26.21	+ 4 38.7	1.657	2.627	5.9	21.9
3 22	10 17.71	+ 5 41.6	1.690	2.613	10.2	22.1
4 1	10 11.30	+ 6 35.4	1.747	2.599	14.1	22.3

306666 2000 SW_{283} 2 27.6 117°.86 3°.1/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 5.10	− 2 18.6	1.690	2.463	17.2	21.0
2 1	11 0.79	− 2 7.9	1.612	2.474	13.7	20.8
2 11	10 54.03	− 1 35.5	1.556	2.484	9.7	20.6
2 21	10 45.48	− 0 43.7	1.524	2.495	5.5	20.3
3 2	10 36.15	+ 0 22.5	1.519	2.504	3.1	20.2
3 12	10 27.23	+ 1 35.3	1.542	2.514	6.1	20.4
3 22	10 19.78	+ 2 46.5	1.593	2.523	10.2	20.7
4 1	10 14.58	+ 3 49.3	1.667	2.532	14.0	20.9

265648 2005 TX_{103} 2 27.6 192°.70 1°.2/28.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.96	+ 2 47.2	2.376	3.148	12.8	21.8
2 1	11 0.07	+ 3 1.8	2.280	3.146	10.0	21.6
2 11	10 53.30	+ 3 29.0	2.207	3.144	6.8	21.4
2 21	10 45.14	+ 4 6.5	2.163	3.141	3.2	21.2
3 2	10 36.32	+ 4 50.3	2.148	3.137	1.4	21.0
3 12	10 27.70	+ 5 35.5	2.164	3.132	4.9	21.3
3 22	10 20.09	+ 6 17.5	2.208	3.127	8.4	21.5
4 1	10 14.14	+ 6 52.4	2.278	3.122	11.5	21.7

66374 1999 JO_{120} 2 27.6 263°.96 5°.4/23.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 7.00	+18 33.1	1.626	2.456	15.2	19.4
2 1	11 2.72	+19 40.0	1.541	2.443	11.7	19.2
2 11	10 55.58	+20 53.3	1.479	2.430	8.1	18.9
2 21	10 46.22	+22 3.8	1.443	2.416	5.5	18.8
3 2	10 35.74	+23 1.5	1.434	2.402	6.6	18.8
3 12	10 25.55	+23 38.3	1.452	2.388	10.3	19.0
3 22	10 16.97	+23 50.4	1.493	2.373	14.3	19.2
4 1	10 10.98	+23 38.0	1.555	2.359	17.9	19.4

350972 2003 EL_{30} 2 27.6 330°.54 1°.2/28.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 59.57	+ 2 59.7	1.189	2.017	19.8	20.6
2 1	10 57.69	+ 3 18.2	1.106	2.004	15.6	20.3
2 11	10 52.68	+ 4 1.5	1.041	1.992	10.6	20.0
2 21	10 45.14	+ 5 6.0	0.999	1.981	4.8	19.6
3 2	10 36.27	+ 6 23.7	0.980	1.970	2.0	19.4
3 12	10 27.67	+ 7 43.2	0.986	1.960	8.0	19.7
3 22	10 20.86	+ 8 53.2	1.014	1.951	13.8	20.0
4 1	10 17.00	+ 9 45.5	1.062	1.944	18.8	20.2

360518 2003 QX_{33} 2 27.6 211°.40 1°.0/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 7.41	+ 3 49.0	2.037	2.818	14.4	21.5
2 1	11 2.33	+ 4 0.5	1.939	2.811	11.3	21.3
2 11	10 54.97	+ 4 25.8	1.864	2.803	7.6	21.0
2 21	10 45.88	+ 5 2.2	1.816	2.795	3.5	20.8
3 2	10 35.92	+ 5 45.2	1.797	2.786	1.5	20.6
3 12	10 26.16	+ 6 29.1	1.807	2.776	5.7	20.9
3 22	10 17.60	+ 7 8.5	1.846	2.766	9.8	21.1
4 1	10 11.03	+ 7 39.2	1.910	2.754	13.4	21.3

53879 2000 FE_{36} 2 27.6 164°.47 6°.4/21.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 10.33	+26 42.1	2.238	3.050	12.2	19.0
2 1	11 4.34	+27 46.9	2.172	3.055	9.7	18.8
2 11	10 56.09	+28 48.2	2.131	3.060	7.4	18.7
2 21	10 46.25	+29 38.4	2.117	3.065	6.4	18.7
3 2	10 35.79	+30 10.7	2.133	3.068	7.3	18.7
3 12	10 25.80	+30 21.3	2.176	3.071	9.6	18.9
3 22	10 17.22	+30 9.8	2.245	3.074	12.1	19.0
4 1	10 10.77	+29 38.2	2.335	3.076	14.4	19.2

273989 2007 MU_{7} 2 27.6 225°.13 2°.3/25.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.56	+12 36.4	2.119	2.931	12.8	21.0
2 1	10 59.26	+13 20.5	2.033	2.927	9.7	20.8
2 11	10 52.89	+14 12.6	1.971	2.922	6.2	20.6
2 21	10 45.00	+15 7.3	1.937	2.918	2.9	20.4
3 2	10 36.41	+15 58.5	1.931	2.913	3.2	20.4
3 12	10 28.07	+16 40.1	1.955	2.908	6.7	20.6
3 22	10 20.89	+17 8.4	2.006	2.903	10.3	20.8
4 1	10 15.57	+17 21.2	2.080	2.898	13.4	21.0

100496 1996 WJ 2 27.6 164°.16 0°.7/28.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.32	+ 3 44.3	2.015	2.798	14.4	20.8
2 1	11 1.38	+ 4 9.6	1.930	2.804	11.2	20.6
2 11	10 54.26	+ 4 49.4	1.868	2.809	7.4	20.3
2 21	10 45.56	+ 5 40.3	1.833	2.814	3.3	20.1
3 2	10 36.13	+ 6 36.8	1.828	2.817	1.4	19.9
3 12	10 27.02	+ 7 32.6	1.852	2.820	5.6	20.2
3 22	10 19.17	+ 8 22.1	1.904	2.823	9.5	20.5
4 1	10 13.29	+ 9 1.0	1.981	2.824	13.0	20.7

73975 1998 BD_{34} 2 27.6 31°.76 1°.6/25.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 59.11	+ 8 37.4	1.969	2.783	13.6	19.4
2 1	10 55.93	+ 9 42.5	1.894	2.789	10.3	19.2
2 11	10 50.75	+11 0.3	1.843	2.795	6.5	19.0
2 21	10 44.13	+12 24.6	1.819	2.802	2.6	18.7
3 2	10 36.88	+13 47.9	1.824	2.809	2.7	18.7
3 12	10 29.95	+15 2.5	1.857	2.817	6.5	19.0
3 22	10 24.20	+16 3.0	1.917	2.824	10.2	19.2
4 1	10 20.26	+16 46.0	2.001	2.832	13.4	19.4

101491 1998 XA 2 27.6 85°.37 7°.0/21.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 9.80	+24 25.2	1.816	2.639	14.1	20.2
2 1	11 4.12	+26 4.1	1.779	2.671	11.0	20.1
2 11	10 55.96	+27 39.6	1.766	2.702	8.2	20.0
2 21	10 46.17	+29 1.5	1.781	2.733	7.0	20.0
3 2	10 35.90	+30 1.5	1.824	2.763	8.1	20.1
3 12	10 26.38	+30 35.1	1.894	2.793	10.6	20.3
3 22	10 18.60	+30 42.2	1.987	2.821	13.2	20.5
4 1	10 13.22	+30 25.8	2.101	2.850	15.6	20.7

506819 2007 RZ_{294} 2 27.6 137°.86 2°.0/ 1.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 0.47	− 1 31.8	2.489	3.249	12.6	22.3
2 1	10 56.53	− 1 5.4	2.400	3.256	10.0	22.1
2 11	10 50.93	− 0 23.6	2.335	3.263	7.0	21.9
2 21	10 44.16	+ 0 31.3	2.298	3.269	3.8	21.7
3 2	10 36.87	+ 1 35.3	2.289	3.276	2.0	21.6
3 12	10 29.81	+ 2 43.0	2.311	3.282	4.4	21.8
3 22	10 23.68	+ 3 49.1	2.362	3.287	7.6	22.0
4 1	10 19.02	+ 4 48.7	2.439	3.293	10.5	22.2

312017 2007 RQ_{36} 2 27.6 177°.36 0°.3/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 7.05	+ 6 44.2	1.996	2.788	14.2	21.4
2 1	11 2.00	+ 7 15.0	1.909	2.790	11.0	21.2
2 11	10 54.70	+ 7 58.4	1.846	2.792	7.1	21.0
2 21	10 45.75	+ 8 50.2	1.811	2.793	2.8	20.7
3 2	10 36.05	+ 9 44.3	1.805	2.793	1.7	20.6
3 12	10 26.65	+10 34.6	1.828	2.793	6.0	20.9
3 22	10 18.52	+11 15.8	1.879	2.792	10.0	21.1
4 1	10 12.42	+11 44.5	1.955	2.790	13.5	21.4

403310 2009 CA_{29} 2 27.6 37°.93 1°.0/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.06	+ 8 17.5	1.268	2.098	18.7	21.2
2 1	11 1.41	+ 8 40.9	1.207	2.108	14.3	20.9
2 11	10 54.72	+ 9 19.9	1.165	2.119	9.2	20.7
2 21	10 45.82	+10 8.1	1.147	2.131	3.6	20.4
3 2	10 36.05	+10 57.2	1.155	2.144	2.5	20.3
3 12	10 26.95	+11 38.3	1.188	2.156	8.0	20.7
3 22	10 19.81	+12 5.5	1.245	2.170	12.9	21.0
4 1	10 15.51	+12 15.7	1.322	2.184	17.1	21.3

132847 2002 RS_{46} 2 27.6 153°.16 0°.8/26.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.93	+ 8 17.6	2.296	3.095	12.4	20.1
2 1	10 57.80	+ 8 55.5	2.212	3.098	9.4	19.9
2 11	10 51.84	+ 9 43.5	2.152	3.101	6.0	19.7
2 21	10 44.56	+10 37.3	2.120	3.103	2.4	19.5
3 2	10 36.69	+11 31.8	2.118	3.106	1.8	19.4
3 12	10 29.09	+12 21.3	2.146	3.108	5.5	19.7
3 22	10 22.53	+13 1.5	2.201	3.110	8.9	19.9
4 1	10 17.61	+13 29.7	2.281	3.112	11.9	20.1

386539 2009 CT_{57} 2 27.6 325°.67 2°.7/29.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.45	+ 1 35.8	1.942	2.725	14.9	20.3
2 1	10 59.46	+ 1 8.0	1.840	2.710	11.9	20.1
2 11	10 53.21	+ 0 53.2	1.761	2.695	8.4	19.9
2 21	10 45.22	+ 0 50.7	1.707	2.680	4.6	19.6
3 2	10 36.32	+ 0 58.4	1.680	2.666	2.7	19.4
3 12	10 27.56	+ 1 12.4	1.682	2.653	5.8	19.6
3 22	10 19.96	+ 1 28.3	1.710	2.640	9.7	19.8
4 1	10 14.33	+ 1 41.5	1.763	2.628	13.4	20.0

400569 2008 XN_{50} 2 27.6 109°.09 0°.3/27.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 9.15	+ 6 14.7	1.653	2.451	16.4	21.1
2 1	11 3.88	+ 6 23.3	1.581	2.464	12.7	20.9
2 11	10 56.02	+ 6 45.4	1.532	2.477	8.3	20.7
2 21	10 46.30	+ 7 16.9	1.508	2.490	3.5	20.4
3 2	10 35.83	+ 7 52.2	1.512	2.502	1.6	20.3
3 12	10 25.89	+ 8 25.0	1.545	2.514	6.5	20.6
3 22	10 17.60	+ 8 50.2	1.605	2.525	10.9	20.9
4 1	10 11.73	+ 9 4.5	1.687	2.536	14.6	21.2

408751 1987 SF_{3} 2 27.6 224°.49 0°.7/28.3 14 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 7.83	+ 3 4.6	2.594	3.356	12.1	24.4
2 1	11 2.27	+ 3 38.0	2.477	3.339	9.5	24.2
2 11	10 54.79	+ 4 24.7	2.384	3.320	6.4	24.0
2 21	10 45.81	+ 5 21.9	2.321	3.300	2.9	23.7
3 2	10 36.03	+ 6 25.3	2.290	3.279	1.2	23.6
3 12	10 26.28	+ 7 29.4	2.290	3.256	4.9	23.8
3 22	10 17.41	+ 8 29.0	2.321	3.232	8.5	24.0
4 1	10 10.10	+ 9 19.9	2.379	3.207	11.6	24.1

309043 2006 UW_{241} 2 27.6 351°.74 3°.4/25.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.30	+14 46.9	1.478	2.309	16.4	20.4
2 1	11 2.19	+15 16.6	1.403	2.307	12.5	20.2
2 11	10 55.20	+15 53.7	1.350	2.304	8.2	19.9
2 21	10 46.05	+16 31.3	1.322	2.303	4.1	19.7
3 2	10 35.94	+17 1.2	1.320	2.301	4.5	19.7
3 12	10 26.32	+17 16.8	1.344	2.300	8.8	19.9
3 22	10 18.46	+17 14.7	1.393	2.300	13.2	20.2
4 1	10 13.26	+16 54.3	1.462	2.300	17.1	20.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
161141 2002 RD_{152}			2 27.6 120°.94	1°.7/29.5 16		
	h m	° ′			°	m
1 22	11 4.47	+ 1 2.5	2.643	3.402	12.0	21.4
2 1	10 59.38	+ 1 4.2	2.562	3.419	9.4	21.2
2 11	10 52.67	+ 1 17.4	2.506	3.435	6.5	21.1
2 21	10 44.85	+ 1 40.4	2.477	3.451	3.4	20.9
3 2	10 36.59	+ 2 10.1	2.479	3.466	1.8	20.8
3 12	10 28.61	+ 2 42.7	2.512	3.481	4.3	21.0
3 22	10 21.60	+ 3 14.5	2.574	3.495	7.3	21.2
4 1	10 16.07	+ 3 42.1	2.662	3.509	10.0	21.4
210766 2000 WU_{188}			2 27.6 57°.80	2°.7/25.8 18		
1 22	11 8.99	+12 37.6	1.324	2.154	18.0	20.3
2 1	11 4.16	+13 10.8	1.272	2.174	13.7	20.1
2 11	10 56.33	+13 53.7	1.241	2.195	8.7	19.9
2 21	10 46.42	+14 38.4	1.234	2.216	3.9	19.6
3 2	10 35.82	+15 16.3	1.253	2.238	4.0	19.7
3 12	10 26.08	+15 40.4	1.299	2.259	8.6	20.0
3 22	10 18.42	+15 47.4	1.369	2.281	13.1	20.3
4 1	10 13.61	+15 36.7	1.460	2.303	16.8	20.6
6853 Silvanomassaglia			2 27.6 36°.20	2°.5/26.2 18		
1 22	11 8.58	+12 25.0	1.195	2.032	19.1	17.4
2 1	11 4.34	+12 41.4	1.134	2.040	14.6	17.1
2 11	10 56.73	+13 8.4	1.093	2.049	9.4	16.9
2 21	10 46.68	+13 38.7	1.075	2.058	4.0	16.6
3 2	10 35.66	+14 3.9	1.082	2.068	3.8	16.6
3 12	10 25.43	+14 16.6	1.114	2.079	9.0	16.9
3 22	10 17.41	+14 13.1	1.170	2.090	14.1	17.2
4 1	10 12.53	+13 52.5	1.245	2.101	18.3	17.5
140663 2001 UN_{44}			2 27.6 292°.00	0°.3/27.9 18		
1 22	11 2.69	+ 5 0.9	1.783	2.585	15.3	19.9
2 1	10 58.97	+ 5 28.1	1.695	2.581	11.9	19.6
2 11	10 52.91	+ 6 11.1	1.630	2.577	7.8	19.4
2 21	10 45.10	+ 7 5.6	1.591	2.573	3.3	19.1
3 2	10 36.43	+ 8 5.6	1.579	2.569	1.5	18.9
3 12	10 28.05	+ 9 3.8	1.596	2.565	6.2	19.2
3 22	10 20.97	+ 9 53.7	1.639	2.561	10.6	19.5
4 1	10 16.00	+10 30.8	1.705	2.558	14.3	19.7
101113 1998 RM_{51}			2 27.6 205°.13	0°.7/26.9 17		
1 22	11 5.14	+ 7 37.0	2.190	2.983	13.1	21.1
2 1	11 0.44	+ 8 17.2	2.095	2.978	10.1	20.9
2 11	10 53.67	+ 9 9.2	2.025	2.972	6.5	20.7
2 21	10 45.36	+10 8.5	1.982	2.965	2.6	20.4
3 2	10 36.30	+11 9.5	1.970	2.958	1.9	20.4
3 12	10 27.45	+12 5.8	1.988	2.950	5.8	20.6
3 22	10 19.70	+12 52.5	2.033	2.942	9.6	20.8
4 1	10 13.75	+13 26.1	2.104	2.932	12.9	21.0
251688 1995 UX_{59}			2 27.6 237°.99	0°.2/27.8 14 C		
1 22	11 5.24	+ 5 9.8	1.949	2.741	14.5	22.7
2 1	11 0.84	+ 5 36.5	1.849	2.729	11.3	22.4
2 11	10 54.12	+ 6 17.9	1.772	2.716	7.5	22.2
2 21	10 45.61	+ 7 10.3	1.721	2.703	3.1	21.9
3 2	10 36.17	+ 8 8.3	1.699	2.689	1.5	21.7
3 12	10 26.88	+ 9 5.0	1.706	2.674	6.1	22.0
3 22	10 18.77	+ 9 54.3	1.741	2.659	10.3	22.2
4 1	10 12.69	+10 31.7	1.800	2.643	14.1	22.4
303968 2006 AP_{63}			2 27.6 339°.58	0°.8/28.0 18		
1 22	11 6.12	+ 7 5.4	1.211	2.039	19.5	19.7
2 1	11 2.70	+ 6 45.1	1.131	2.030	15.3	19.4
2 11	10 55.92	+ 6 39.1	1.071	2.022	10.2	19.1
2 21	10 46.49	+ 6 44.7	1.033	2.015	4.4	18.8
3 2	10 35.72	+ 6 56.4	1.019	2.009	2.0	18.6
3 12	10 25.36	+ 7 7.7	1.030	2.003	8.0	18.9
3 22	10 16.98	+ 7 12.7	1.064	1.999	13.6	19.2
4 1	10 11.72	+ 7 7.1	1.119	1.995	18.5	19.5
333441 2003 SL_{325}			2 27.6 193°.80	0°.4/28.0 17		
1 22	11 4.56	+ 5 42.2	2.367	3.151	12.5	21.6
2 1	10 59.78	+ 5 54.0	2.274	3.149	9.7	21.4
2 11	10 53.13	+ 6 16.2	2.206	3.148	6.4	21.2
2 21	10 45.12	+ 6 45.9	2.164	3.145	2.7	21.0
3 2	10 36.47	+ 7 19.4	2.153	3.143	1.2	20.8
3 12	10 28.05	+ 7 52.0	2.172	3.140	5.0	21.1
3 22	10 20.65	+ 8 19.7	2.220	3.137	8.5	21.3
4 1	10 14.91	+ 8 39.6	2.293	3.133	11.6	21.5
253197 2002 XN_{57}			2 27.6 134°.11	1°.1/28.7 18		
1 22	11 4.24	+ 1 57.4	2.073	2.851	14.2	21.0
2 1	10 59.70	+ 2 29.7	1.993	2.863	11.1	20.8
2 11	10 53.13	+ 3 17.9	1.936	2.874	7.4	20.6
2 21	10 45.12	+ 4 18.2	1.906	2.885	3.5	20.3
3 2	10 36.48	+ 5 25.2	1.906	2.895	1.5	20.2
3 12	10 28.19	+ 6 32.4	1.935	2.905	5.2	20.5
3 22	10 21.09	+ 7 33.7	1.993	2.914	9.0	20.7
4 1	10 15.85	+ 8 24.4	2.075	2.923	12.3	21.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
283502 2001 SJ_{290}			2 27.6 167°.12	4°.2/ 1.9 18		
	h m	° ′			°	m
1 22	11 7.90	− 3 49.0	1.786	2.543	17.0	21.2
2 1	11 2.94	− 4 4.7	1.699	2.547	13.8	21.0
2 11	10 55.49	− 4 0.2	1.632	2.551	10.1	20.7
2 21	10 46.16	− 3 35.9	1.590	2.554	6.3	20.5
3 2	10 35.93	− 2 54.8	1.576	2.556	4.2	20.4
3 12	10 26.01	− 2 2.6	1.590	2.558	6.4	20.5
3 22	10 17.50	− 1 6.5	1.631	2.559	10.2	20.8
4 1	10 11.25	− 0 13.4	1.697	2.560	13.9	21.0
499074 2009 EE_{24}			2 27.6 9°.51	0°.1/27.7 17		
1 22	10 59.08	+ 4 37.9	2.268	3.061	12.7	21.5
2 1	10 55.70	+ 5 23.2	2.180	3.062	9.8	21.3
2 11	10 50.53	+ 6 22.0	2.117	3.062	6.4	21.0
2 21	10 44.07	+ 7 30.3	2.080	3.062	2.6	20.8
3 2	10 37.02	+ 8 42.7	2.074	3.063	1.3	20.7
3 12	10 30.20	+ 9 52.8	2.096	3.064	5.1	21.0
3 22	10 24.35	+10 55.1	2.147	3.065	8.7	21.2
4 1	10 20.10	+11 45.5	2.223	3.065	11.8	21.4
356612 2011 UC_{6}			2 27.6 243°.95	2°.9/29.9 17		
1 22	11 5.00	− 1 18.5	1.756	2.531	16.5	21.7
2 1	11 0.95	− 1 11.2	1.654	2.518	13.3	21.5
2 11	10 54.36	− 0 43.4	1.574	2.505	9.5	21.2
2 21	10 45.77	+ 0 3.7	1.519	2.491	5.3	20.9
3 2	10 36.11	+ 1 5.8	1.491	2.477	2.9	20.7
3 12	10 26.57	+ 2 15.7	1.491	2.462	6.3	20.9
3 22	10 18.31	+ 3 25.6	1.518	2.447	10.7	21.1
4 1	10 12.27	+ 4 27.9	1.569	2.432	14.8	21.3
264568 2001 TK_{37}			2 27.6 117°.07	4°.6/ 3.4 18		
1 22	11 6.20	− 8 2.9	2.361	3.078	14.4	20.9
2 1	11 0.90	− 8 15.9	2.283	3.100	11.9	20.8
2 11	10 53.76	− 8 10.6	2.226	3.122	9.0	20.6
2 21	10 45.34	− 7 47.3	2.196	3.142	6.3	20.5
3 2	10 36.40	− 7 8.3	2.194	3.162	4.6	20.4
3 12	10 27.80	− 6 18.1	2.221	3.181	5.6	20.5
3 22	10 20.32	− 5 22.0	2.278	3.199	8.1	20.7
4 1	10 14.54	− 4 25.9	2.360	3.217	10.7	20.9
145045 2005 FP_{7}			2 27.6 234°.03	4°.3/23.6 18		
1 22	11 6.14	+17 8.0	1.935	2.755	13.5	20.5
2 1	11 1.60	+18 15.6	1.847	2.744	10.4	20.3
2 11	10 54.64	+19 29.7	1.784	2.733	7.0	20.1
2 21	10 45.83	+20 42.8	1.747	2.721	4.5	19.9
3 2	10 36.11	+21 46.4	1.740	2.709	5.5	19.9
3 12	10 26.62	+22 33.5	1.761	2.697	8.8	20.1
3 22	10 18.45	+23 0.0	1.807	2.683	12.4	20.3
4 1	10 12.44	+23 5.2	1.875	2.670	15.6	20.5
93208 2000 SQ_{123}			2 27.6 104°.66	1°.2/26.5 18		
1 22	11 3.12	+ 8 29.9	1.987	2.793	13.8	19.8
2 1	10 58.94	+ 9 18.6	1.913	2.803	10.5	19.6
2 11	10 52.68	+10 18.9	1.864	2.814	6.7	19.4
2 21	10 44.95	+11 25.3	1.841	2.824	2.6	19.2
3 2	10 36.59	+12 31.2	1.847	2.834	2.3	19.2
3 12	10 28.61	+13 29.9	1.883	2.844	6.2	19.4
3 22	10 21.88	+14 16.3	1.945	2.854	10.0	19.7
4 1	10 17.05	+14 47.6	2.031	2.863	13.2	19.9
396602 2001 QU_{164}			2 27.6 215°.00	2°.7/25.4 18		
1 22	11 7.62	+11 57.2	1.800	2.611	14.8	21.9
2 1	11 2.85	+12 53.7	1.710	2.604	11.3	21.6
2 11	10 55.52	+14 1.5	1.644	2.596	7.3	21.4
2 21	10 46.21	+15 13.9	1.606	2.587	3.4	21.1
3 2	10 35.92	+16 22.5	1.596	2.577	3.8	21.1
3 12	10 25.88	+17 19.3	1.614	2.567	7.9	21.3
3 22	10 17.24	+17 59.0	1.659	2.556	12.1	21.6
4 1	10 10.91	+18 19.1	1.726	2.544	15.7	21.8
462315 2008 GG_{145}			2 27.6 322°.91	3°.1/29.8 17		
1 22	10 59.24	− 0 6.6	1.403	2.209	18.4	21.0
2 1	10 57.15	− 0 12.7	1.302	2.185	14.9	20.7
2 11	10 52.25	+ 0 3.6	1.221	2.161	10.6	20.4
2 21	10 45.03	+ 0 42.0	1.163	2.138	5.9	20.0
3 2	10 36.48	+ 1 38.2	1.129	2.116	3.2	19.8
3 12	10 27.98	+ 2 44.4	1.120	2.095	7.2	20.0
3 22	10 20.91	+ 3 51.1	1.135	2.075	12.4	20.2
4 1	10 16.44	+ 4 49.2	1.171	2.056	17.2	20.4
523524 2017 OA_{51}			2 27.6 244°.10	1°.5/28.9 17		
1 22	11 4.25	+ 2 24.6	2.164	2.941	13.7	22.3
2 1	10 59.84	+ 2 32.4	2.060	2.929	10.9	22.1
2 11	10 53.36	+ 2 54.2	1.980	2.917	7.4	21.8
2 21	10 45.29	+ 3 27.8	1.926	2.904	3.6	21.6
3 2	10 36.40	+ 4 9.4	1.902	2.890	1.7	21.4
3 12	10 27.66	+ 4 53.7	1.907	2.877	5.3	21.6
3 22	10 19.96	+ 5 35.7	1.940	2.863	9.1	21.8
4 1	10 14.05	+ 6 10.6	1.998	2.849	12.6	22.0

85413 1996 VK_{11} 2 27.6 187°.59 0°.7/26.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 4.21	+ 9 32.2	2.596	3.388	11.3	20.7
2 1	10 59.34	+ 9 48.4	2.505	3.387	8.6	20.5
2 11	10 52.76	+10 11.7	2.440	3.386	5.5	20.3
2 21	10 44.96	+10 38.8	2.403	3.385	2.2	20.1
3 2	10 36.60	+11 6.0	2.396	3.384	1.6	20.1
3 12	10 28.49	+11 29.3	2.420	3.382	5.0	20.3
3 22	10 21.31	+11 45.7	2.473	3.380	8.1	20.5
4 1	10 15.67	+11 53.2	2.551	3.378	10.9	20.7

500021 2011 QZ_{86} 2 27.6 173°.00 1°.5/29.5 17

1 22	10 59.63	+ 0 8.1	2.650	3.416	11.8	21.5
2 1	10 55.85	+ 0 35.3	2.556	3.417	9.3	21.3
2 11	10 50.50	+ 1 16.2	2.486	3.418	6.4	21.1
2 21	10 44.04	+ 2 8.3	2.444	3.419	3.3	20.9
3 2	10 37.07	+ 3 7.9	2.432	3.419	1.6	20.8
3 12	10 30.28	+ 4 10.1	2.450	3.420	4.2	21.0
3 22	10 24.33	+ 5 10.0	2.496	3.420	7.3	21.2
4 1	10 19.75	+ 6 3.4	2.570	3.420	10.1	21.4

452331 2000 WC_{159} 2 27.6 103°.23 1°.3/26.6 18

1 22	11 8.09	+ 9 5.2	1.691	2.498	15.7	21.7
2 1	11 2.97	+ 9 45.4	1.627	2.517	12.0	21.5
2 11	10 55.38	+10 37.4	1.585	2.536	7.6	21.3
2 21	10 46.06	+11 35.1	1.571	2.554	3.0	21.0
3 2	10 36.08	+12 31.2	1.584	2.571	2.5	21.0
3 12	10 26.67	+13 18.5	1.626	2.588	6.9	21.3
3 22	10 18.88	+13 52.2	1.695	2.605	11.1	21.6
4 1	10 13.43	+14 10.2	1.786	2.621	14.6	21.9

412051 2013 ED_{10} 2 27.6 247°.89 4°.0/ 1.8 18

1 22	11 4.60	− 3 25.2	1.713	2.481	17.2	21.0
2 1	11 0.67	− 3 32.8	1.615	2.472	14.0	20.8
2 11	10 54.19	− 3 19.0	1.538	2.462	10.3	20.5
2 21	10 45.71	− 2 44.1	1.485	2.452	6.3	20.3
3 2	10 36.18	− 1 51.3	1.459	2.442	4.0	20.1
3 12	10 26.81	− 0 47.0	1.461	2.431	6.5	20.2
3 22	10 18.76	+ 0 20.6	1.488	2.420	10.7	20.5
4 1	10 12.98	+ 1 23.8	1.540	2.409	14.7	20.7

203838 2002 VP_{46} 2 27.6 148°.19 0°.8/26.7 17

1 22	11 2.19	+ 8 46.6	2.812	3.602	10.6	21.5
2 1	10 57.64	+ 9 25.2	2.730	3.612	8.0	21.3
2 11	10 51.57	+10 11.7	2.674	3.621	5.1	21.2
2 21	10 44.45	+11 2.2	2.647	3.629	2.0	21.0
3 2	10 36.88	+11 52.5	2.650	3.638	1.6	20.9
3 12	10 29.56	+12 38.4	2.685	3.645	4.7	21.2
3 22	10 23.09	+13 16.2	2.749	3.652	7.6	21.4
4 1	10 17.99	+13 44.0	2.838	3.659	10.1	21.5

413897 2006 VO_{169} 2 27.6 137°.75 1°.4/26.3 18

1 22	11 5.86	+ 9 53.5	2.095	2.896	13.3	21.5
2 1	11 0.92	+10 36.5	2.020	2.908	10.1	21.3
2 11	10 53.92	+11 29.0	1.969	2.919	6.4	21.1
2 21	10 45.45	+12 25.9	1.946	2.929	2.6	20.9
3 2	10 36.37	+13 21.1	1.953	2.939	2.4	20.9
3 12	10 27.68	+14 8.5	1.989	2.948	6.2	21.1
3 22	10 20.22	+14 44.1	2.053	2.957	9.8	21.4
4 1	10 14.68	+15 5.5	2.141	2.965	12.9	21.6

412070 2013 EM_{111} 2 27.6 252°.43 3°.4/24.8 16

1 22	11 7.13	+14 25.3	1.826	2.642	14.4	21.6
2 1	11 2.56	+15 17.3	1.729	2.626	11.0	21.4
2 11	10 55.39	+16 18.2	1.657	2.608	7.2	21.1
2 21	10 46.20	+17 21.4	1.611	2.590	3.8	20.9
3 2	10 35.94	+18 18.6	1.594	2.572	4.5	20.9
3 12	10 25.84	+19 2.4	1.605	2.553	8.4	21.0
3 22	10 17.10	+19 27.9	1.641	2.534	12.5	21.2
4 1	10 10.64	+19 33.5	1.700	2.514	16.1	21.4

498958 2009 BM_{90} 2 27.6 95°.20 2°.1/29.6 17

1 22	11 3.92	+ 1 15.5	2.296	3.066	13.3	21.3
2 1	10 59.32	+ 1 5.2	2.207	3.069	10.5	21.1
2 11	10 52.85	+ 1 7.4	2.141	3.073	7.3	20.9
2 21	10 45.02	+ 1 20.7	2.103	3.076	3.9	20.7
3 2	10 36.59	+ 1 42.2	2.093	3.080	2.2	20.6
3 12	10 28.41	+ 2 8.0	2.113	3.083	4.9	20.8
3 22	10 21.28	+ 2 33.9	2.162	3.087	8.2	21.0
4 1	10 15.84	+ 2 56.0	2.235	3.090	11.3	21.2

63673 2001 QL_{135} 2 27.6 153°.30 1°.9/29.1 18

1 22	11 8.41	+ 1 55.3	1.723	2.506	16.5	19.6
2 1	11 3.36	+ 1 57.7	1.641	2.512	13.0	19.3
2 11	10 55.76	+ 2 17.0	1.581	2.518	8.9	19.1
2 21	10 46.28	+ 2 50.7	1.546	2.523	4.4	18.8
3 2	10 35.95	+ 3 33.9	1.540	2.528	2.1	18.7
3 12	10 26.00	+ 4 20.2	1.562	2.532	6.1	19.0
3 22	10 17.56	+ 5 3.2	1.611	2.536	10.5	19.2
4 1	10 11.44	+ 5 37.8	1.684	2.539	14.3	19.5

251691 1995 VW_{17} 2 27.6 85°.51 3°.4/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 4.01	− 2 23.7	1.668	2.444	17.2	21.0
2 1	11 0.06	− 2 23.8	1.588	2.451	13.9	20.7
2 11	10 53.66	− 2 2.6	1.529	2.457	9.9	20.5
2 21	10 45.44	− 1 21.8	1.494	2.464	5.8	20.3
3 2	10 36.39	− 0 25.6	1.486	2.471	3.4	20.2
3 12	10 27.72	+ 0 38.6	1.506	2.477	6.2	20.3
3 22	10 20.50	+ 1 43.0	1.552	2.484	10.3	20.6
4 1	10 15.52	+ 2 40.6	1.621	2.490	14.1	20.8

101943 1999 RS_{24} 2 27.6 222°.71 2°.9/ 1.6 18

1 22	11 4.13	− 3 34.8	2.171	2.922	14.5	20.3
2 1	10 59.78	− 3 12.7	2.064	2.911	11.8	20.1
2 11	10 53.35	− 2 30.9	1.978	2.899	8.5	19.9
2 21	10 45.31	− 1 30.7	1.919	2.886	5.0	19.6
3 2	10 36.43	− 0 16.2	1.889	2.873	2.9	19.5
3 12	10 27.65	+ 1 6.4	1.889	2.858	5.3	19.6
3 22	10 19.90	+ 2 29.7	1.917	2.843	9.0	19.8
4 1	10 13.93	+ 3 46.9	1.972	2.827	12.6	20.0

48809 1997 VX_{4} 2 27.6 60°.82 0°.7/27.0 18

1 22	11 3.95	+ 7 47.6	1.952	2.754	14.1	19.3
2 1	10 59.43	+ 8 21.4	1.894	2.781	10.7	19.1
2 11	10 52.90	+ 9 6.1	1.859	2.808	6.8	18.9
2 21	10 45.01	+ 9 56.6	1.852	2.835	2.7	18.7
3 2	10 36.66	+10 47.1	1.873	2.861	1.8	18.7
3 12	10 28.82	+11 31.7	1.923	2.888	5.8	19.0
3 22	10 22.31	+12 6.1	2.001	2.915	9.4	19.3
4 1	10 17.73	+12 27.9	2.102	2.941	12.5	19.5

39326 2001 XL_{37} 2 27.6 327°.52 7°.6/ 5.3 18 R

1 22	11 2.19	−13 10.8	2.198	2.898	15.8	18.3
2 1	10 58.35	−14 11.2	2.095	2.887	13.7	18.1
2 11	10 52.46	−14 52.3	2.012	2.878	11.3	17.9
2 21	10 44.96	−15 11.4	1.953	2.868	9.1	17.7
3 2	10 36.61	−15 7.6	1.919	2.859	7.7	17.6
3 12	10 28.35	−14 43.0	1.911	2.850	8.0	17.6
3 22	10 21.09	−14 2.1	1.930	2.842	9.8	17.7
4 1	10 15.59	−13 11.6	1.972	2.834	12.3	17.9

276204 2002 QT_{66} 2 27.6 237°.78 1°.3/26.6 18

1 22	11 4.65	+ 6 58.0	1.419	2.239	17.6	21.6
2 1	11 1.14	+ 7 53.7	1.337	2.234	13.6	21.4
2 11	10 54.70	+ 9 9.1	1.276	2.229	8.8	21.1
2 21	10 45.98	+10 37.5	1.240	2.223	3.5	20.7
3 2	10 36.11	+12 8.8	1.230	2.218	2.8	20.7
3 12	10 26.58	+13 31.8	1.247	2.212	8.2	21.0
3 22	10 18.71	+14 37.7	1.289	2.206	13.3	21.2
4 1	10 13.53	+15 21.7	1.352	2.200	17.6	21.5

236738 2007 JD_{23} 2 27.6 308°.07 1°.4/26.7 18

1 22	11 3.29	+ 8 31.0	1.261	2.094	18.5	20.6
2 1	11 0.59	+ 9 0.3	1.172	2.076	14.4	20.2
2 11	10 54.66	+ 9 47.8	1.102	2.057	9.4	19.9
2 21	10 46.08	+10 47.7	1.055	2.039	3.8	19.5
3 2	10 36.02	+11 51.0	1.034	2.022	3.0	19.4
3 12	10 26.15	+12 46.9	1.037	2.005	8.9	19.7
3 22	10 18.05	+13 27.0	1.063	1.988	14.6	19.9
4 1	10 12.94	+13 46.3	1.108	1.973	19.5	20.2

451469 2011 UV_{27} 2 27.6 100°.74 1°.5/26.4 18

1 22	11 7.76	+ 9 3.5	1.673	2.482	15.8	21.5
2 1	11 2.76	+ 9 49.0	1.610	2.502	12.0	21.3
2 11	10 55.26	+10 46.7	1.570	2.521	7.6	21.0
2 21	10 46.04	+11 50.2	1.557	2.540	3.0	20.8
3 2	10 36.16	+12 51.6	1.572	2.558	2.7	20.8
3 12	10 26.86	+13 43.6	1.615	2.576	7.1	21.1
3 22	10 19.18	+14 21.3	1.684	2.594	11.2	21.4
4 1	10 13.85	+14 42.2	1.777	2.611	14.7	21.7

97827 2000 OB_{61} 2 27.6 166°.29 3°.4/ 1.5 18

1 22	11 6.65	− 2 33.4	1.891	2.652	16.0	20.0
2 1	11 1.86	− 2 36.0	1.803	2.656	12.9	19.8
2 11	10 54.73	− 2 19.6	1.737	2.660	9.3	19.5
2 21	10 45.87	− 1 45.4	1.696	2.663	5.5	19.3
3 2	10 36.20	− 0 57.0	1.683	2.666	3.4	19.2
3 12	10 26.83	− 0 0.4	1.699	2.668	5.9	19.3
3 22	10 18.76	+ 0 57.5	1.742	2.670	9.7	19.6
4 1	10 12.79	+ 1 50.5	1.810	2.670	13.3	19.8

266924 2010 DK_{52} 2 27.6 124°.57 6°.0/19.2 18

1 22	11 3.04	+28 11.2	2.730	3.546	10.1	20.9
2 1	10 58.51	+29 37.5	2.674	3.557	8.1	20.8
2 11	10 52.25	+31 0.1	2.646	3.568	6.5	20.7
2 21	10 44.77	+32 12.3	2.645	3.579	6.0	20.7
3 2	10 36.79	+33 8.4	2.674	3.590	7.0	20.7
3 12	10 29.13	+33 44.8	2.730	3.600	8.8	20.9
3 22	10 22.50	+34 0.5	2.810	3.610	10.7	21.0
4 1	10 17.47	+33 56.5	2.912	3.620	12.5	21.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V
502724 2015 DY_{31}			2 27.6 151°.49		1°.6/25.8 17	
	h m	° ′			°	m
1 22	11 1.35	+10 10.7	2.465	3.267	11.5	21.6
2 1	10 57.27	+11 7.5	2.384	3.273	8.7	21.5
2 11	10 51.49	+12 13.2	2.328	3.278	5.5	21.3
2 21	10 44.48	+13 22.9	2.300	3.283	2.3	21.1
3 2	10 36.94	+14 30.8	2.303	3.287	2.5	21.1
3 12	10 29.64	+15 31.3	2.336	3.291	5.7	21.3
3 22	10 23.30	+16 20.2	2.397	3.295	8.8	21.5
4 1	10 18.50	+16 55.2	2.483	3.299	11.6	21.7
470925 2009 EO_{28}			2 27.6 301°.67		7°.0/20.5 17	
1 22	11 7.28	+29 21.3	2.261	3.077	12.0	21.2
2 1	11 2.24	+30 15.1	2.180	3.062	9.7	21.1
2 11	10 54.92	+31 3.9	2.123	3.047	7.8	20.9
2 21	10 45.94	+31 40.5	2.093	3.032	7.0	20.8
3 2	10 36.20	+31 58.3	2.090	3.017	8.0	20.9
3 12	10 26.81	+31 53.6	2.114	3.002	10.1	21.0
3 22	10 18.74	+31 25.8	2.162	2.988	12.6	21.1
4 1	10 12.73	+30 37.1	2.232	2.974	14.9	21.2
417023 2005 UK_{82}			2 27.6 58°.90		1°.1/28.6 18	
1 22	11 3.12	+ 3 6.7	1.757	2.553	15.7	21.6
2 1	10 59.25	+ 3 25.1	1.679	2.559	12.3	21.4
2 11	10 53.06	+ 4 0.0	1.623	2.566	8.2	21.2
2 21	10 45.19	+ 4 47.9	1.593	2.573	3.8	20.9
3 2	10 36.58	+ 5 43.2	1.590	2.579	1.6	20.8
3 12	10 28.35	+ 6 38.7	1.615	2.586	5.9	21.1
3 22	10 21.48	+ 7 28.2	1.667	2.593	10.1	21.3
4 1	10 16.73	+ 8 6.7	1.742	2.600	13.8	21.6
435883 2008 YE_{157}			2 27.6 55°.66		0°.9/26.7 17	
1 22	11 0.99	+ 8 2.4	2.056	2.862	13.4	21.2
2 1	10 57.27	+ 8 46.4	1.982	2.872	10.2	21.0
2 11	10 51.59	+ 9 41.7	1.933	2.883	6.5	20.8
2 21	10 44.55	+10 43.4	1.910	2.893	2.5	20.6
3 2	10 36.92	+11 45.3	1.916	2.904	2.0	20.6
3 12	10 29.65	+12 41.1	1.952	2.915	5.9	20.8
3 22	10 23.53	+13 26.0	2.014	2.926	9.5	21.1
4 1	10 19.20	+13 57.1	2.100	2.937	12.6	21.3
346156 2007 VH_{281}			2 27.6 27°.62		3°.3/ 1.7 18	
1 22	11 0.71	− 2 32.8	1.989	2.758	15.1	20.3
2 1	10 57.15	− 2 37.7	1.907	2.765	12.1	20.1
2 11	10 51.59	− 2 24.8	1.847	2.772	8.7	19.9
2 21	10 44.57	− 1 55.4	1.812	2.779	5.3	19.7
3 2	10 36.90	− 1 12.9	1.804	2.787	3.3	19.6
3 12	10 29.54	− 0 22.8	1.824	2.795	5.4	19.8
3 22	10 23.34	+ 0 28.9	1.872	2.804	8.8	20.0
4 1	10 18.96	+ 1 16.6	1.944	2.813	12.1	20.2
240495 2004 DW_{42}			2 27.6 322°.16		5°.6/ 4.2 17	
1 22	11 0.15	− 9 36.0	2.154	2.881	15.3	20.1
2 1	10 56.73	− 9 55.2	2.055	2.876	12.9	19.9
2 11	10 51.36	− 9 53.8	1.977	2.870	10.1	19.7
2 21	10 44.51	− 9 31.0	1.923	2.865	7.4	19.5
3 2	10 36.92	− 8 48.4	1.895	2.860	5.6	19.4
3 12	10 29.49	− 7 50.1	1.895	2.855	6.4	19.5
3 22	10 23.08	− 6 42.6	1.922	2.850	8.9	19.6
4 1	10 18.39	− 5 32.8	1.974	2.845	11.9	19.8
322449 2011 UR_{9}			2 27.6 155°.89		1°.5/28.9 18	
1 22	11 5.69	+ 1 46.6	1.762	2.547	16.1	21.2
2 1	11 1.26	+ 2 7.6	1.679	2.552	12.6	21.0
2 11	10 54.41	+ 2 46.7	1.618	2.557	8.6	20.8
2 21	10 45.77	+ 3 40.6	1.583	2.561	4.1	20.5
3 2	10 36.30	+ 4 43.6	1.576	2.565	1.8	20.4
3 12	10 27.19	+ 5 48.1	1.597	2.568	6.0	20.6
3 22	10 19.47	+ 6 47.1	1.646	2.571	10.3	20.9
4 1	10 13.95	+ 7 35.2	1.718	2.573	14.1	21.1
95536 2002 EB_{83}			2 27.6 108°.77		0°.6/28.2 18	
1 22	11 4.00	+ 4 13.0	2.087	2.874	13.9	20.5
2 1	10 59.51	+ 4 36.2	2.010	2.886	10.7	20.3
2 11	10 53.02	+ 5 12.7	1.956	2.898	7.1	20.1
2 21	10 45.13	+ 5 58.8	1.930	2.910	3.1	19.9
3 2	10 36.65	+ 6 49.6	1.932	2.922	1.3	19.7
3 12	10 28.52	+ 7 39.3	1.964	2.933	5.3	20.0
3 22	10 21.59	+ 8 22.8	2.024	2.945	9.0	20.3
4 1	10 16.49	+ 8 56.5	2.109	2.955	12.2	20.5
17052 1999 FS_{51}			2 27.7 191°.15		0°.8/28.5 18	
1 22	11 4.45	+ 3 35.9	2.252	3.032	13.2	18.7
2 1	10 59.84	+ 3 56.3	2.159	3.030	10.3	18.5
2 11	10 53.27	+ 4 29.8	2.089	3.029	6.9	18.3
2 21	10 45.26	+ 5 13.5	2.047	3.027	3.1	18.1
3 2	10 36.57	+ 6 2.9	2.034	3.024	1.3	17.9
3 12	10 28.10	+ 6 52.6	2.052	3.021	5.1	18.2
3 22	10 20.69	+ 7 37.7	2.098	3.017	8.8	18.4
4 1	10 15.01	+ 8 14.1	2.169	3.013	12.0	18.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
350646 2001 TC_{136}			2 27.7 60°.76		3°.4/29.9 18	
	h m	° ′			°	m
1 22	11 11.28	− 0 2.4	1.263	2.057	20.8	20.0
2 1	11 5.90	− 0 22.5	1.214	2.088	16.4	19.8
2 11	10 57.46	− 0 19.9	1.184	2.119	11.4	19.6
2 21	10 46.95	+ 0 2.8	1.177	2.151	6.2	19.4
3 2	10 35.80	+ 0 40.3	1.196	2.182	3.5	19.3
3 12	10 25.59	+ 1 24.2	1.241	2.213	7.1	19.6
3 22	10 17.56	+ 2 6.6	1.311	2.244	11.7	20.0
4 1	10 12.48	+ 2 41.2	1.403	2.275	15.7	20.3
363359 2002 RB_{220}			2 27.7 186°.70		1°.2/26.5 18	
1 22	11 4.37	+ 8 13.4	2.000	2.802	13.8	21.7
2 1	11 0.03	+ 9 6.6	1.914	2.802	10.6	21.5
2 11	10 53.52	+10 12.6	1.852	2.801	6.8	21.3
2 21	10 45.40	+11 26.1	1.817	2.800	2.7	21.0
3 2	10 36.52	+12 39.9	1.812	2.799	2.4	21.0
3 12	10 27.91	+13 46.7	1.836	2.797	6.4	21.2
3 22	10 20.51	+14 41.0	1.887	2.794	10.3	21.5
4 1	10 15.05	+15 19.3	1.963	2.791	13.7	21.7
503598 2016 GA_{78}			2 27.7 192°.30		0°.6/27.0 17	
1 22	11 3.32	+ 7 39.0	2.416	3.207	12.1	22.7
2 1	10 58.85	+ 8 16.3	2.324	3.206	9.2	22.5
2 11	10 52.57	+ 9 3.9	2.257	3.204	5.9	22.3
2 21	10 44.97	+ 9 57.9	2.219	3.201	2.3	22.0
3 2	10 36.74	+10 53.2	2.210	3.198	1.6	22.0
3 12	10 28.73	+11 44.4	2.232	3.195	5.3	22.2
3 22	10 21.70	+12 27.3	2.282	3.191	8.7	22.4
4 1	10 16.27	+12 58.8	2.358	3.187	11.7	22.6
238424 2004 GU_{3}			2 27.7 226°.97		3°.1/ 2.9 17	
1 22	10 59.63	− 6 46.2	3.083	3.804	11.2	21.3
2 1	10 55.74	− 6 28.8	2.969	3.792	9.2	21.2
2 11	10 50.43	− 5 56.2	2.878	3.780	6.9	21.0
2 21	10 44.08	− 5 9.1	2.814	3.768	4.6	20.8
3 2	10 37.21	− 4 10.0	2.779	3.755	3.1	20.7
3 12	10 30.42	− 3 2.6	2.776	3.741	4.2	20.8
3 22	10 24.31	− 1 51.7	2.802	3.727	6.6	20.9
4 1	10 19.37	− 0 42.0	2.856	3.713	9.1	21.0
331934 2004 TN_{25}			2 27.7 270°.31		4°.2/ 2.8 17	
1 22	11 0.57	− 6 40.6	2.029	2.776	15.5	20.8
2 1	10 57.25	− 6 28.2	1.922	2.762	12.8	20.6
2 11	10 51.82	− 5 53.2	1.836	2.748	9.6	20.3
2 21	10 44.76	− 4 56.0	1.775	2.734	6.3	20.1
3 2	10 36.84	− 3 39.8	1.741	2.720	4.2	20.0
3 12	10 29.03	− 2 11.0	1.736	2.705	5.8	20.0
3 22	10 22.26	− 0 37.7	1.759	2.691	9.3	20.2
4 1	10 17.32	+ 0 52.0	1.806	2.676	12.9	20.4
491066 2011 QZ_{84}			2 27.7 218°.29		0°.1/27.7 17	
1 22	11 3.28	+ 7 9.4	2.546	3.333	11.6	22.0
2 1	10 58.71	+ 7 18.7	2.452	3.330	9.0	21.8
2 11	10 52.43	+ 7 36.5	2.383	3.327	5.8	21.6
2 21	10 44.91	+ 8 0.1	2.342	3.324	2.4	21.3
3 2	10 36.81	+ 8 26.0	2.332	3.321	1.2	21.2
3 12	10 28.93	+ 8 50.2	2.351	3.318	4.7	21.5
3 22	10 21.97	+ 9 9.5	2.399	3.314	8.0	21.7
4 1	10 16.54	+ 9 21.3	2.472	3.311	10.9	21.8
157687 2005 YD_{209}			2 27.7 204°.11		3°.3/ 1.8 18	
1 22	11 2.72	− 3 11.8	2.097	2.855	14.7	20.1
2 1	10 58.69	− 3 13.4	2.003	2.854	11.9	19.9
2 11	10 52.62	− 2 57.2	1.931	2.852	8.7	19.7
2 21	10 45.04	− 2 24.2	1.885	2.851	5.3	19.5
3 2	10 36.73	− 1 37.5	1.867	2.849	3.3	19.4
3 12	10 28.64	− 0 42.6	1.878	2.847	5.4	19.5
3 22	10 21.64	+ 0 14.7	1.916	2.845	8.8	19.7
4 1	10 16.44	+ 1 8.3	1.979	2.843	12.2	19.9
505008 2011 OY_{12}			2 27.7 230°.28		2°.7/24.0 17	
1 22	11 0.91	+13 58.7	2.759	3.566	10.3	22.2
2 1	10 56.92	+15 14.0	2.662	3.554	7.8	22.0
2 11	10 51.30	+16 36.6	2.592	3.542	5.1	21.8
2 21	10 44.47	+18 1.1	2.552	3.529	2.8	21.7
3 2	10 37.02	+19 21.4	2.543	3.516	3.5	21.7
3 12	10 29.69	+20 31.9	2.564	3.503	6.2	21.8
3 22	10 23.15	+21 28.6	2.614	3.489	9.0	22.0
4 1	10 18.00	+22 9.4	2.688	3.474	11.6	22.2
65824 1996 VJ_{11}			2 27.7 231°.75		2°.8/29.9 18	
1 22	11 6.85	− 0 25.3	1.893	2.663	15.7	19.9
2 1	11 2.19	− 0 31.6	1.792	2.653	12.6	19.6
2 11	10 55.10	− 0 20.8	1.713	2.642	9.0	19.4
2 21	10 46.13	+ 0 6.0	1.659	2.630	5.0	19.1
3 2	10 36.16	+ 0 45.5	1.633	2.618	2.9	19.0
3 12	10 26.33	+ 1 32.1	1.636	2.606	6.0	19.1
3 22	10 17.74	+ 2 19.6	1.666	2.593	10.1	19.3
4 1	10 11.25	+ 3 1.9	1.720	2.579	13.9	19.5

394804 2008 RS_{68} 2 27.7 145°.76 0°.9/26.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 8.07	+ 7 18.6	1.932	2.726	14.6	22.6
2 1	11 2.80	+ 8 10.7	1.857	2.740	11.1	22.4
2 11	10 55.26	+ 9 16.0	1.805	2.752	7.1	22.2
2 21	10 46.09	+10 28.8	1.781	2.764	2.8	22.0
3 2	10 36.23	+11 41.9	1.787	2.775	2.1	21.9
3 12	10 26.79	+12 47.8	1.823	2.785	6.4	22.2
3 22	10 18.71	+13 41.1	1.886	2.793	10.3	22.5
4 1	10 12.74	+14 18.7	1.974	2.801	13.7	22.7

30814 1990 QW 2 27.7 188°.27 0°.8/27.0 18

1 22	11 9.88	+ 8 58.9	1.832	2.631	15.0	18.8
2 1	11 4.45	+ 9 17.3	1.746	2.631	11.6	18.5
2 11	10 56.49	+ 9 46.5	1.682	2.630	7.5	18.3
2 21	10 46.65	+10 22.0	1.645	2.628	3.0	18.0
3 2	10 35.94	+10 58.0	1.638	2.626	2.1	17.9
3 12	10 25.56	+11 28.4	1.659	2.623	6.6	18.2
3 22	10 16.63	+11 48.8	1.708	2.620	10.9	18.4
4 1	10 9.99	+11 56.7	1.780	2.616	14.6	18.7

312100 2007 TW_{133} 2 27.7 34°.35 5°.4/23.9 18

1 22	11 7.19	+18 18.5	1.400	2.238	16.8	20.9
2 1	11 3.01	+19 13.5	1.337	2.243	12.8	20.6
2 11	10 55.80	+20 13.2	1.296	2.249	8.7	20.4
2 21	10 46.40	+21 8.0	1.280	2.255	5.6	20.3
3 2	10 36.11	+21 48.3	1.290	2.261	6.6	20.3
3 12	10 26.47	+22 6.9	1.325	2.268	10.3	20.5
3 22	10 18.78	+22 1.8	1.383	2.276	14.4	20.8
4 1	10 13.90	+21 34.1	1.462	2.283	17.9	21.0

97938 2000 QO_{116} 2 27.7 201°.43 2°.2/25.7 18

1 22	11 6.92	+11 11.1	1.868	2.677	14.4	20.6
2 1	11 2.20	+12 1.6	1.781	2.674	11.0	20.4
2 11	10 55.05	+13 3.0	1.719	2.670	7.1	20.1
2 21	10 46.08	+14 9.1	1.683	2.665	3.1	19.9
3 2	10 36.24	+15 12.4	1.676	2.660	3.3	19.9
3 12	10 26.68	+16 5.5	1.698	2.654	7.3	20.1
3 22	10 18.47	+16 43.5	1.747	2.648	11.4	20.3
4 1	10 12.44	+17 3.8	1.819	2.641	14.9	20.5

501148 2013 TO_{64} 2 27.7 174°.90 1°.0/26.7 17

1 22	11 4.77	+ 9 31.3	2.178	2.978	12.9	22.2
2 1	11 0.13	+ 9 58.8	2.093	2.980	9.9	22.0
2 11	10 53.48	+10 35.5	2.032	2.981	6.3	21.8
2 21	10 45.37	+11 17.0	1.999	2.981	2.5	21.6
3 2	10 36.61	+11 58.3	1.995	2.982	2.0	21.5
3 12	10 28.14	+12 34.0	2.020	2.982	5.8	21.8
3 22	10 20.81	+13 0.3	2.073	2.982	9.4	22.0
4 1	10 15.28	+13 14.6	2.151	2.982	12.6	22.2

227677 2006 CT_{19} 2 27.7 103°.03 0°.5/28.2 18

1 22	11 3.48	+ 4 21.7	2.027	2.817	14.1	21.1
2 1	10 59.21	+ 4 46.8	1.948	2.827	10.9	20.9
2 11	10 52.90	+ 5 25.6	1.894	2.837	7.2	20.7
2 21	10 45.14	+ 6 14.4	1.865	2.846	3.1	20.4
3 2	10 36.75	+ 7 7.9	1.866	2.856	1.3	20.3
3 12	10 28.71	+ 8 0.1	1.896	2.865	5.4	20.6
3 22	10 21.87	+ 8 45.6	1.953	2.874	9.2	20.9
4 1	10 16.90	+ 9 20.6	2.035	2.883	12.5	21.1

465698 2009 SZ_{341} 2 27.7 142°.78 3°.2/ 1.9 16

1 22	11 2.63	− 3 57.5	2.107	2.862	14.8	21.8
2 1	10 58.56	− 3 46.2	2.020	2.868	12.0	21.6
2 11	10 52.50	− 3 15.9	1.954	2.873	8.7	21.4
2 21	10 44.99	− 2 28.1	1.913	2.878	5.2	21.2
3 2	10 36.81	− 1 26.5	1.901	2.883	3.2	21.1
3 12	10 28.91	− 0 17.4	1.918	2.888	5.3	21.3
3 22	10 22.11	+ 0 52.8	1.963	2.892	8.7	21.5
4 1	10 17.10	+ 1 57.8	2.034	2.896	11.9	21.7

68129 2001 AH_{17} 2 27.7 88°.35 2°.5/29.4 18

1 22	11 12.05	+ 1 36.9	1.687	2.463	17.1	18.3
2 1	11 5.95	+ 1 17.4	1.623	2.489	13.4	18.1
2 11	10 57.30	+ 1 13.9	1.581	2.514	9.2	17.9
2 21	10 46.91	+ 1 24.5	1.564	2.538	4.8	17.7
3 2	10 35.90	+ 1 45.2	1.576	2.563	2.6	17.6
3 12	10 25.53	+ 2 10.6	1.616	2.586	6.1	17.9
3 22	10 16.87	+ 2 35.5	1.684	2.610	10.1	18.2
4 1	10 10.64	+ 2 55.3	1.776	2.632	13.7	18.4

258222 2001 TH_{60} 2 27.7 92°.83 1°.5/26.3 18

1 22	11 6.75	+10 5.9	1.914	2.719	14.3	21.5
2 1	11 1.70	+10 45.5	1.851	2.741	10.8	21.3
2 11	10 54.46	+11 34.6	1.812	2.762	6.8	21.1
2 21	10 45.74	+12 27.5	1.801	2.784	2.8	20.9
3 2	10 36.48	+13 17.9	1.818	2.804	2.5	20.9
3 12	10 27.73	+13 59.7	1.865	2.825	6.4	21.2
3 22	10 20.41	+14 29.0	1.939	2.845	10.1	21.5
4 1	10 15.14	+14 44.0	2.036	2.864	13.3	21.7

363475 2003 SS_{285} 2 27.7 105°.19 1°.6/29.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 8.06	+ 1 47.5	1.829	2.608	15.8	21.9
2 1	11 2.79	+ 2 0.4	1.760	2.629	12.4	21.7
2 11	10 55.24	+ 2 29.6	1.714	2.650	8.4	21.5
2 21	10 46.08	+ 3 11.9	1.694	2.671	4.1	21.2
3 2	10 36.31	+ 4 2.0	1.702	2.691	1.9	21.1
3 12	10 27.04	+ 4 53.5	1.739	2.710	5.6	21.4
3 22	10 19.25	+ 5 40.4	1.805	2.728	9.6	21.7
4 1	10 13.61	+ 6 18.2	1.894	2.746	13.1	21.9

428136 2006 SJ_{109} 2 27.7 189°.97 4°.4/21.9 17

1 22	11 5.25	+24 36.0	3.055	3.862	9.4	21.6
2 1	11 0.00	+25 24.6	2.976	3.860	7.4	21.4
2 11	10 53.15	+26 11.6	2.924	3.858	5.4	21.3
2 21	10 45.19	+26 51.9	2.901	3.856	4.4	21.2
3 2	10 36.75	+27 21.2	2.909	3.853	5.2	21.3
3 12	10 28.55	+27 36.4	2.946	3.850	7.0	21.4
3 22	10 21.27	+27 36.2	3.009	3.846	9.1	21.5
4 1	10 15.43	+27 21.1	3.097	3.842	11.1	21.7

470894 2009 BT_{187} 2 27.7 346°.34 0°.2/27.8 17

1 22	11 4.24	+ 7 22.8	2.187	2.982	13.1	20.7
2 1	10 59.72	+ 7 23.1	2.098	2.980	10.1	20.5
2 11	10 53.22	+ 7 32.7	2.033	2.978	6.6	20.3
2 21	10 45.29	+ 7 48.6	1.995	2.977	2.7	20.1
3 2	10 36.69	+ 8 7.2	1.986	2.975	1.3	19.9
3 12	10 28.36	+ 8 24.2	2.006	2.974	5.3	20.2
3 22	10 21.14	+ 8 36.0	2.054	2.973	8.9	20.4
4 1	10 15.70	+ 8 40.2	2.127	2.973	12.2	20.6

290624 2005 UE_{234} 2 27.7 93°.80 1°.1/28.5 18

1 22	11 6.10	+ 2 8.2	1.455	2.255	18.2	21.3
2 1	11 1.91	+ 2 42.0	1.389	2.271	14.2	21.1
2 11	10 54.98	+ 3 37.2	1.342	2.286	9.5	20.9
2 21	10 46.06	+ 4 48.6	1.321	2.301	4.3	20.6
3 2	10 36.33	+ 6 8.2	1.326	2.316	1.7	20.5
3 12	10 27.16	+ 7 26.3	1.359	2.330	6.7	20.8
3 22	10 19.73	+ 8 34.4	1.417	2.344	11.5	21.1
4 1	10 14.85	+ 9 26.7	1.498	2.358	15.6	21.4

429908 2012 TN_{138} 2 27.7 205°.01 3°.0/ 1.8 17

1 22	11 1.74	− 2 44.9	2.411	3.164	13.2	21.0
2 1	10 57.67	− 2 48.0	2.315	3.163	10.6	20.8
2 11	10 51.84	− 2 35.9	2.242	3.162	7.7	20.6
2 21	10 44.72	− 2 9.8	2.195	3.160	4.7	20.4
3 2	10 36.98	− 1 32.2	2.177	3.159	3.0	20.3
3 12	10 29.43	− 0 47.5	2.189	3.157	4.8	20.4
3 22	10 22.81	− 0 0.6	2.228	3.156	7.9	20.6
4 1	10 17.74	+ 0 43.8	2.294	3.154	10.8	20.8

85949 1999 EX_{14} 2 27.7 167°.58 1°.1/28.8 18

1 22	11 1.86	+ 0 52.2	2.044	2.824	14.4	20.0
2 1	10 58.06	+ 1 38.6	1.956	2.826	11.3	19.8
2 11	10 52.23	+ 2 43.3	1.890	2.828	7.6	19.6
2 21	10 44.91	+ 4 2.4	1.852	2.830	3.6	19.3
3 2	10 36.89	+ 5 29.9	1.842	2.832	1.5	19.2
3 12	10 29.12	+ 6 58.0	1.863	2.833	5.3	19.4
3 22	10 22.47	+ 8 19.5	1.911	2.834	9.3	19.7
4 1	10 17.64	+ 9 28.9	1.984	2.834	12.7	19.9

378719 2008 QJ_{10} 2 27.7 189°.04 0°.3/28.1 17

1 22	11 2.10	+ 3 35.4	2.731	3.504	11.3	22.1
2 1	10 57.74	+ 4 20.1	2.634	3.503	8.8	21.9
2 11	10 51.78	+ 5 17.0	2.562	3.501	5.8	21.7
2 21	10 44.67	+ 6 22.8	2.519	3.499	2.5	21.5
3 2	10 37.01	+ 7 32.9	2.506	3.496	1.1	21.4
3 12	10 29.52	+ 8 42.1	2.526	3.492	4.4	21.6
3 22	10 22.85	+ 9 45.6	2.574	3.488	7.6	21.8
4 1	10 17.56	+10 39.5	2.649	3.483	10.4	22.0

348813 2006 QK_{186} 2 27.7 250°.19 1°.4/29.3 17

1 22	10 59.90	+ 0 43.8	2.469	3.241	12.4	21.6
2 1	10 56.29	+ 1 14.4	2.367	3.231	9.8	21.4
2 11	10 50.97	+ 1 59.8	2.288	3.222	6.7	21.1
2 21	10 44.38	+ 2 57.6	2.236	3.212	3.3	20.9
3 2	10 37.15	+ 4 3.5	2.214	3.202	1.5	20.8
3 12	10 30.07	+ 5 12.0	2.222	3.192	4.6	21.0
3 22	10 23.85	+ 6 17.6	2.258	3.182	8.0	21.1
4 1	10 19.10	+ 7 15.6	2.321	3.172	11.1	21.3

271859 2004 TN_{277} 2 27.7 101°.83 4°.5/ 3.4 18

1 22	11 1.56	− 7 43.8	2.095	2.833	15.4	21.2
2 1	10 57.75	− 7 39.1	2.010	2.842	12.7	21.0
2 11	10 51.98	− 7 12.9	1.946	2.850	9.6	20.9
2 21	10 44.79	− 6 26.1	1.906	2.859	6.5	20.7
3 2	10 36.97	− 5 21.8	1.894	2.868	4.5	20.6
3 12	10 29.42	− 4 6.2	1.910	2.876	5.7	20.7
3 22	10 22.99	− 2 46.2	1.954	2.885	8.6	20.8
4 1	10 18.34	− 1 29.0	2.024	2.893	11.7	21.1

206701 2004 BD_3 2 27.7 51°.80 2°.4/25.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 0.67	+11 24.6	1.968	2.787	13.4	19.8
2 1	10 57.17	+12 32.6	1.899	2.797	10.1	19.6
2 11	10 51.62	+13 50.4	1.855	2.808	6.4	19.4
2 21	10 44.64	+15 11.5	1.837	2.819	3.0	19.2
3 2	10 37.05	+16 28.1	1.849	2.830	3.5	19.2
3 12	10 29.83	+17 33.2	1.889	2.842	7.0	19.5
3 22	10 23.83	+18 22.2	1.955	2.853	10.5	19.7
4 1	10 19.69	+18 52.8	2.045	2.865	13.5	19.9

30956 1994 QP 2 27.7 183°.13 7°.6/16.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.53	+37 10.6	2.970	3.766	9.9	19.2
2 1	11 1.26	+38 30.6	2.914	3.766	8.6	19.1
2 11	10 54.11	+39 42.0	2.883	3.766	7.7	19.0
2 21	10 45.62	+40 38.4	2.880	3.765	7.7	19.0
3 2	10 36.57	+41 14.7	2.903	3.764	8.5	19.1
3 12	10 27.85	+41 28.4	2.952	3.763	9.9	19.2
3 22	10 20.23	+41 19.6	3.024	3.761	11.4	19.3
4 1	10 14.35	+40 50.5	3.115	3.759	12.8	19.4

36051 1999 RO_{19} 2 27.7 210°.05 0°.5/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.28	+ 7 46.1	2.400	3.190	12.2	19.8
2 1	10 59.65	+ 8 13.8	2.304	3.185	9.3	19.5
2 11	10 53.15	+ 8 51.3	2.233	3.179	6.0	19.3
2 21	10 45.27	+ 9 35.1	2.189	3.172	2.4	19.1
3 2	10 36.73	+10 20.4	2.176	3.165	1.5	19.0
3 12	10 28.38	+11 2.4	2.193	3.157	5.3	19.2
3 22	10 21.01	+11 36.8	2.239	3.149	8.7	19.4
4 1	10 15.28	+12 0.7	2.309	3.141	11.8	19.6

384170 2009 BK_{31} 2 27.7 156°.55 2°.7/24.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.43	+14 20.3	2.495	3.306	11.1	21.3
2 1	10 57.38	+15 23.9	2.416	3.310	8.4	21.1
2 11	10 51.61	+16 33.7	2.363	3.313	5.4	20.9
2 21	10 44.61	+17 44.0	2.338	3.317	3.0	20.8
3 2	10 37.07	+18 48.9	2.344	3.320	3.6	20.8
3 12	10 29.77	+19 43.1	2.380	3.322	6.4	21.0
3 22	10 23.43	+20 23.2	2.442	3.325	9.3	21.2
4 1	10 18.64	+20 47.4	2.529	3.327	11.9	21.3

5985 1942 RJ 2 27.7 172°.17 2°.8/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 8.89	− 1 6.1	1.950	2.711	15.6	17.8
2 1	11 3.54	− 1 4.3	1.861	2.716	12.5	17.6
2 11	10 55.85	− 0 44.9	1.793	2.719	8.8	17.3
2 21	10 46.41	− 0 9.6	1.752	2.722	4.9	17.1
3 2	10 36.15	+ 0 37.8	1.739	2.724	2.8	17.0
3 12	10 26.19	+ 1 31.4	1.756	2.725	5.7	17.2
3 22	10 17.53	+ 2 24.8	1.801	2.725	9.6	17.4
4 1	10 10.97	+ 3 12.3	1.871	2.725	13.2	17.6

502692 2015 DG_8 2 27.7 170°.88 1°.4/29.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.50	+ 2 9.2	2.218	2.994	13.5	22.1
2 1	10 59.14	+ 2 21.9	2.128	2.996	10.6	21.9
2 11	10 52.85	+ 2 48.5	2.062	2.998	7.2	21.7
2 21	10 45.15	+ 3 26.3	2.022	2.999	3.5	21.5
3 2	10 36.80	+ 4 11.5	2.011	3.000	1.6	21.3
3 12	10 28.69	+ 4 58.6	2.031	3.001	5.0	21.5
3 22	10 21.65	+ 5 42.7	2.078	3.001	8.6	21.8
4 1	10 16.33	+ 6 19.6	2.150	3.001	11.8	22.0

379440 2010 CW_{67} 2 27.7 63°.26 1°.8/29.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.21	+ 2 28.7	1.941	2.724	14.9	20.9
2 1	11 0.57	+ 2 22.5	1.867	2.738	11.7	20.8
2 11	10 53.79	+ 2 30.2	1.817	2.753	8.0	20.6
2 21	10 45.52	+ 2 49.7	1.792	2.768	4.0	20.3
3 2	10 36.64	+ 3 17.0	1.795	2.783	2.0	20.2
3 12	10 28.18	+ 3 47.2	1.828	2.799	5.3	20.5
3 22	10 21.03	+ 4 15.3	1.887	2.814	9.1	20.7
4 1	10 15.85	+ 4 37.4	1.971	2.829	12.5	21.0

405834 2006 BM_{159} 2 27.7 323°.76 0°.2/27.6 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 58.24	+ 4 29.7	1.204	2.038	19.2	20.9
2 1	10 56.78	+ 5 9.4	1.115	2.018	15.1	20.6
2 11	10 52.25	+ 6 14.7	1.045	2.000	10.0	20.2
2 21	10 45.19	+ 7 40.9	0.998	1.981	4.1	19.9
3 2	10 36.71	+ 9 18.3	0.975	1.964	2.2	19.7
3 12	10 28.39	+10 53.7	0.976	1.948	8.5	20.0
3 22	10 21.77	+12 15.1	0.999	1.933	14.4	20.2
4 1	10 18.05	+13 13.8	1.042	1.919	19.5	20.5

325252 2008 GB_{90} 2 27.7 259°.26 1°.8/26.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.86	+10 40.7	1.964	2.773	13.8	22.2
2 1	11 0.62	+11 19.8	1.866	2.758	10.6	21.9
2 11	10 54.07	+12 9.6	1.791	2.742	6.8	21.7
2 21	10 45.74	+13 5.0	1.744	2.726	2.9	21.4
3 2	10 36.48	+13 59.4	1.725	2.710	2.8	21.3
3 12	10 27.38	+14 46.1	1.734	2.693	6.9	21.6
3 22	10 19.46	+15 20.1	1.771	2.676	11.0	21.8
4 1	10 13.57	+15 38.4	1.831	2.659	14.5	22.0

434808 2006 RP_{81} 2 27.7 349°.50 3°.7/24.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 6.51	+18 59.0	2.236	3.051	12.1	21.0
2 1	11 1.43	+19 26.2	2.157	3.050	9.3	20.8
2 11	10 54.31	+19 54.8	2.102	3.049	6.3	20.6
2 21	10 45.73	+20 19.4	2.075	3.049	3.9	20.5
3 2	10 36.53	+20 35.0	2.077	3.048	4.5	20.5
3 12	10 27.70	+20 37.6	2.108	3.048	7.3	20.7
3 22	10 20.09	+20 25.7	2.165	3.048	10.3	20.9
4 1	10 14.37	+19 59.4	2.247	3.047	13.1	21.0

523544 2017 SC_{37} 2 27.7 208°.87 3°.6/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.56	− 4 12.0	2.550	3.289	12.9	22.1
2 1	10 58.99	− 4 29.8	2.450	3.285	10.5	21.9
2 11	10 52.68	− 4 33.4	2.372	3.282	7.8	21.7
2 21	10 45.08	− 4 23.0	2.320	3.278	5.1	21.5
3 2	10 36.84	− 4 0.2	2.297	3.274	3.6	21.4
3 12	10 28.75	− 3 28.6	2.305	3.269	5.0	21.5
3 22	10 21.56	− 2 52.4	2.340	3.265	7.7	21.7
4 1	10 15.88	− 2 16.0	2.402	3.260	10.5	21.8

189343 2007 WW_{57} 2 27.7 340°.16 1°.3/28.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.25	+ 3 58.3	1.345	2.163	18.4	20.5
2 1	10 59.44	+ 3 59.3	1.262	2.155	14.5	20.2
2 11	10 53.71	+ 4 19.4	1.199	2.147	9.8	19.9
2 21	10 45.69	+ 4 55.5	1.159	2.140	4.5	19.6
3 2	10 36.51	+ 5 41.7	1.144	2.134	1.9	19.4
3 12	10 27.65	+ 6 29.5	1.155	2.128	7.2	19.7
3 22	10 20.47	+ 7 11.2	1.189	2.124	12.5	20.0
4 1	10 15.98	+ 7 40.6	1.244	2.120	17.0	20.2

12588 1999 RR_{98} 2 27.7 134°.99 1°.4/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.15	− 0 11.2	1.986	2.759	15.0	19.1
2 1	10 59.78	+ 0 37.9	1.906	2.772	11.7	18.9
2 11	10 53.32	+ 1 46.2	1.849	2.784	8.0	18.7
2 21	10 45.36	+ 3 9.7	1.819	2.796	3.9	18.5
3 2	10 36.73	+ 4 41.9	1.818	2.807	1.6	18.3
3 12	10 28.46	+ 6 14.6	1.847	2.817	5.4	18.6
3 22	10 21.41	+ 7 40.3	1.904	2.827	9.3	18.9
4 1	10 16.27	+ 8 53.2	1.987	2.836	12.7	19.1

193931 2001 RM_{25} 2 27.7 74°.43 0°.8/28.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 7.75	+ 5 18.0	1.415	2.224	18.2	20.0
2 1	11 3.41	+ 5 21.7	1.340	2.228	14.2	19.8
2 11	10 56.12	+ 5 41.8	1.285	2.232	9.4	19.5
2 21	10 46.62	+ 6 14.8	1.254	2.235	4.1	19.2
3 2	10 36.10	+ 6 54.3	1.249	2.239	1.8	19.1
3 12	10 26.06	+ 7 32.8	1.272	2.243	7.1	19.4
3 22	10 17.81	+ 8 3.8	1.319	2.247	12.1	19.7
4 1	10 12.29	+ 8 22.6	1.388	2.251	16.4	20.0

216532 2001 QW_{193} 2 27.7 158°.50 3°.7/ 2.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.51	− 5 44.0	2.484	3.212	13.5	21.1
2 1	11 0.45	− 5 49.8	2.392	3.220	11.0	20.9
2 11	10 53.59	− 5 39.2	2.322	3.228	8.2	20.7
2 21	10 45.44	− 5 12.8	2.279	3.235	5.4	20.6
3 2	10 36.70	− 4 32.9	2.266	3.241	3.8	20.5
3 12	10 28.18	− 3 43.7	2.282	3.246	5.1	20.6
3 22	10 20.66	− 2 50.4	2.328	3.251	7.8	20.8
4 1	10 14.73	− 1 58.1	2.400	3.255	10.6	20.9

244930 2003 XC_{20} 2 27.7 118°.31 2°.3/29.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.57	+ 0 5.4	2.371	3.133	13.1	20.5
2 1	10 59.77	− 0 1.5	2.287	3.143	10.4	20.3
2 11	10 53.15	+ 0 4.7	2.225	3.153	7.3	20.2
2 21	10 45.25	+ 0 22.5	2.191	3.162	4.1	20.0
3 2	10 36.80	+ 0 49.2	2.186	3.171	2.3	19.9
3 12	10 28.63	+ 1 20.5	2.211	3.180	4.7	20.0
3 22	10 21.49	+ 1 52.2	2.264	3.189	7.9	20.3
4 1	10 15.99	+ 2 20.4	2.344	3.198	10.9	20.5

144363 2004 DX_{46} 2 27.7 289°.89 2°.5/ 1.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.14	− 0 6.3	2.271	3.037	13.5	20.1
2 1	10 58.86	− 0 17.0	2.176	3.034	10.8	19.9
2 11	10 52.69	− 0 14.0	2.104	3.031	7.6	19.7
2 21	10 45.11	+ 0 1.4	2.058	3.028	4.3	19.5
3 2	10 36.86	+ 0 26.7	2.041	3.026	2.5	19.3
3 12	10 28.81	+ 0 57.7	2.053	3.023	5.0	19.5
3 22	10 21.77	+ 1 29.8	2.093	3.020	8.3	19.7
4 1	10 16.40	+ 1 58.8	2.158	3.017	11.5	19.9

99794 2002 KS_5 2 27.7 228°.85 0°.1/27.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.51	+ 5 39.4	1.991	2.783	14.3	20.5
2 1	11 1.05	+ 6 11.3	1.892	2.772	11.1	20.3
2 11	10 54.32	+ 6 57.5	1.816	2.761	7.3	20.0
2 21	10 45.85	+ 7 54.2	1.767	2.749	3.0	19.7
3 2	10 36.47	+ 8 55.4	1.747	2.737	1.5	19.6
3 12	10 27.25	+ 9 54.5	1.757	2.724	6.0	19.9
3 22	10 19.20	+10 45.3	1.794	2.710	10.2	20.1
4 1	10 13.14	+11 23.6	1.855	2.696	13.9	20.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
188272 2003 AO_{42}			2 27.7 359°.39	7°.4/ 2.3 18		
	h m	° ′			°	m
1 22	10 47.69	+ 0 1.3	0.763	1.630	24.2	17.4
2 1	10 49.47	− 1 43.0	0.704	1.618	19.9	17.1
2 11	10 47.82	− 3 3.8	0.661	1.610	15.0	16.8
2 21	10 43.42	− 3 56.1	0.634	1.606	10.1	16.5
3 2	10 37.68	− 4 18.5	0.625	1.607	7.4	16.3
3 12	10 32.50	− 4 16.0	0.634	1.613	9.8	16.5
3 22	10 29.52	− 3 58.1	0.662	1.623	14.6	16.8
4 1	10 29.87	− 3 36.0	0.705	1.637	19.4	17.1
353785 2012 KW_{30}			2 27.7 202°.40	3°.8/23.3 18		R
1 22	11 4.06	+17 31.9	2.343	3.157	11.6	20.8
2 1	10 59.59	+18 40.4	2.259	3.154	8.9	20.6
2 11	10 53.16	+19 53.6	2.202	3.150	6.0	20.4
2 21	10 45.31	+21 5.0	2.173	3.145	3.9	20.2
3 2	10 36.77	+22 7.9	2.173	3.140	4.8	20.3
3 12	10 28.48	+22 56.6	2.203	3.135	7.6	20.4
3 22	10 21.24	+23 27.9	2.260	3.129	10.5	20.6
4 1	10 15.75	+23 40.9	2.339	3.122	13.2	20.8
246340 2007 TK_{282}			2 27.7 87°.34	0°.5/27.2 17		
1 22	11 2.25	+ 7 8.6	2.206	3.003	12.9	21.2
2 1	10 58.12	+ 7 43.4	2.130	3.014	9.8	21.0
2 11	10 52.14	+ 8 29.0	2.079	3.026	6.3	20.8
2 21	10 44.86	+ 9 21.3	2.055	3.037	2.5	20.5
3 2	10 37.04	+10 14.9	2.060	3.049	1.6	20.5
3 12	10 29.54	+11 4.3	2.095	3.060	5.3	20.8
3 22	10 23.14	+11 45.0	2.158	3.071	8.8	21.0
4 1	10 18.45	+12 14.0	2.245	3.083	11.9	21.2
411426 2010 VK_{209}			2 27.7 35°.96	4°.4/24.7 18		
1 22	11 7.70	+17 12.5	1.448	2.282	16.5	20.9
2 1	11 3.23	+17 49.1	1.388	2.292	12.6	20.7
2 11	10 55.87	+18 30.3	1.349	2.302	8.3	20.4
2 21	10 46.46	+19 7.9	1.334	2.312	4.8	20.3
3 2	10 36.27	+19 33.7	1.347	2.323	5.5	20.3
3 12	10 26.77	+19 41.8	1.385	2.335	9.3	20.6
3 22	10 19.16	+19 30.4	1.447	2.347	13.4	20.8
4 1	10 14.25	+19 0.2	1.531	2.359	16.9	21.1
193956 2001 RU_{68}			2 27.7 217°.79	4°.0/ 2.0 18		
1 22	11 6.21	− 4 29.2	1.864	2.618	16.5	20.7
2 1	11 1.77	− 4 29.8	1.764	2.610	13.5	20.5
2 11	10 54.90	− 4 9.1	1.684	2.601	9.9	20.3
2 21	10 46.13	− 3 27.5	1.628	2.592	6.2	20.0
3 2	10 36.36	− 2 28.0	1.601	2.582	4.0	19.8
3 12	10 26.73	− 1 17.2	1.602	2.571	6.2	20.0
3 22	10 18.34	− 0 2.8	1.630	2.559	10.1	20.2
4 1	10 12.07	+ 1 7.5	1.684	2.547	13.9	20.4
98507 2000 VK_{18}			2 27.7 81°.66	1°.5/26.5 18		
1 22	11 6.95	+ 8 24.0	1.531	2.345	16.8	19.5
2 1	11 2.37	+ 9 15.1	1.473	2.367	12.7	19.3
2 11	10 55.16	+10 20.3	1.437	2.388	8.1	19.0
2 21	10 46.13	+11 32.3	1.426	2.410	3.2	18.8
3 2	10 36.44	+12 42.3	1.444	2.431	2.7	18.8
3 12	10 27.38	+13 41.9	1.488	2.451	7.4	19.1
3 22	10 20.05	+14 25.7	1.559	2.472	11.7	19.4
4 1	10 15.19	+14 51.0	1.652	2.492	15.3	19.7
404793 2014 JT_{59}			2 27.7 206°.87	4°.1/24.0 18		
1 22	11 7.87	+15 13.4	1.783	2.601	14.6	21.7
2 1	11 3.15	+16 28.6	1.699	2.596	11.1	21.4
2 11	10 55.82	+17 53.0	1.640	2.590	7.4	21.2
2 21	10 46.50	+19 18.3	1.607	2.584	4.4	21.0
3 2	10 36.20	+20 34.8	1.603	2.576	5.3	21.0
3 12	10 26.18	+21 34.4	1.628	2.568	9.0	21.2
3 22	10 17.62	+22 12.1	1.678	2.559	12.9	21.4
4 1	10 11.41	+22 27.0	1.749	2.550	16.3	21.6
135324 2001 SZ_{313}			2 27.7 195°.44	2°.7/24.2 18		
1 22	11 1.89	+15 28.8	2.853	3.660	10.0	20.7
2 1	10 57.57	+16 26.3	2.766	3.657	7.6	20.6
2 11	10 51.68	+17 28.4	2.706	3.654	4.9	20.4
2 21	10 44.67	+18 30.4	2.674	3.651	2.8	20.2
3 2	10 37.14	+19 27.3	2.674	3.647	3.4	20.3
3 12	10 29.78	+20 14.4	2.703	3.642	5.9	20.4
3 22	10 23.26	+20 48.9	2.761	3.638	8.6	20.6
4 1	10 18.10	+21 9.3	2.843	3.632	10.9	20.8
389237 2009 ED_{22}			2 27.7 215°.65	4°.8/22.5 17		
1 22	11 4.99	+23 1.8	2.435	3.252	11.2	21.0
2 1	11 0.18	+23 48.6	2.361	3.252	8.7	20.8
2 11	10 53.47	+24 34.4	2.311	3.252	6.3	20.7
2 21	10 45.41	+25 13.6	2.290	3.251	4.8	20.6
3 2	10 36.78	+25 40.6	2.297	3.251	5.6	20.6
3 12	10 28.50	+25 51.6	2.332	3.250	7.9	20.8
3 22	10 21.33	+25 45.4	2.394	3.250	10.5	20.9
4 1	10 15.92	+25 22.5	2.479	3.249	12.9	21.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
378736 2008 RB_{16}			2 27.7 164°.51	1°.7/29.4 17		
	h m	° ′			°	m
1 22	11 2.96	+ 1 0.2	2.235	3.007	13.5	21.6
2 1	10 58.73	+ 1 14.4	2.145	3.009	10.7	21.4
2 11	10 52.60	+ 1 43.2	2.078	3.012	7.3	21.2
2 21	10 45.09	+ 2 24.2	2.038	3.014	3.7	21.0
3 2	10 36.94	+ 3 13.5	2.027	3.015	1.8	20.9
3 12	10 29.03	+ 4 5.8	2.046	3.017	4.9	21.1
3 22	10 22.16	+ 4 55.6	2.093	3.018	8.5	21.3
4 1	10 16.99	+ 5 38.5	2.166	3.019	11.7	21.5
186896 2004 KX_{4}			2 27.7 225°.27	7°.0/19.9 17		
1 22	11 6.66	+26 21.1	2.138	2.959	12.4	20.5
2 1	11 1.96	+27 51.6	2.062	2.951	9.9	20.4
2 11	10 54.91	+29 21.1	2.011	2.942	7.8	20.2
2 21	10 46.10	+30 40.6	1.988	2.932	7.0	20.1
3 2	10 36.44	+31 41.6	1.993	2.922	8.2	20.2
3 12	10 27.06	+32 18.6	2.024	2.912	10.5	20.3
3 22	10 18.99	+32 29.9	2.079	2.901	13.2	20.5
4 1	10 13.02	+32 16.7	2.155	2.890	15.6	20.6
64487 2001 VL_{50}			2 27.7 88°.13	1°.0/26.7 18		
1 22	11 4.41	+10 34.0	2.329	3.129	12.2	19.4
2 1	10 59.69	+10 50.6	2.249	3.136	9.3	19.3
2 11	10 53.13	+11 14.3	2.194	3.143	5.9	19.1
2 21	10 45.28	+11 41.3	2.167	3.150	2.4	18.8
3 2	10 36.88	+12 7.3	2.170	3.157	1.9	18.8
3 12	10 28.81	+12 28.0	2.202	3.164	5.4	19.1
3 22	10 21.82	+12 40.4	2.262	3.171	8.8	19.3
4 1	10 16.53	+12 42.9	2.347	3.178	11.7	19.5
250121 2002 PQ_{17}			2 27.7 173°.10	2°.0/29.5 17		
1 22	11 7.31	+ 0 48.7	2.237	3.000	13.8	22.1
2 1	11 2.05	+ 0 51.6	2.145	3.003	10.9	21.9
2 11	10 54.76	+ 1 8.7	2.077	3.006	7.6	21.7
2 21	10 45.99	+ 1 37.9	2.035	3.009	4.0	21.5
3 2	10 36.52	+ 2 15.7	2.023	3.010	2.1	21.4
3 12	10 27.31	+ 2 57.4	2.042	3.011	5.0	21.6
3 22	10 19.21	+ 3 38.0	2.089	3.011	8.6	21.8
4 1	10 12.92	+ 4 13.0	2.162	3.011	11.9	22.0
175609 2006 VM_{11}			2 27.7 137°.34	0°.1/27.6 17		
1 22	11 1.59	+ 6 42.8	2.874	3.657	10.5	21.7
2 1	10 57.21	+ 7 10.4	2.791	3.667	8.1	21.5
2 11	10 51.38	+ 7 46.3	2.733	3.677	5.2	21.3
2 21	10 44.53	+ 8 27.7	2.704	3.686	2.1	21.1
3 2	10 37.26	+ 9 10.7	2.706	3.695	1.1	21.1
3 12	10 30.22	+ 9 51.4	2.738	3.703	4.2	21.3
3 22	10 24.00	+10 26.3	2.800	3.712	7.1	21.5
4 1	10 19.09	+10 53.1	2.888	3.720	9.7	21.7
283023 2007 VJ_{253}			2 27.7 53°.04	5°.2/ 3.9 17		
1 22	11 1.90	− 8 31.8	2.154	2.884	15.2	20.2
2 1	10 57.99	− 8 55.2	2.070	2.894	12.7	20.0
2 11	10 52.16	− 8 58.9	2.007	2.903	9.8	19.9
2 21	10 44.93	− 8 42.6	1.968	2.913	7.0	19.7
3 2	10 37.07	− 8 8.3	1.956	2.922	5.3	19.6
3 12	10 29.48	− 7 20.2	1.972	2.932	6.1	19.7
3 22	10 22.98	− 6 24.2	2.015	2.942	8.6	19.9
4 1	10 18.22	− 5 26.7	2.084	2.952	11.4	20.0
495391 2014 QK_{250}			2 27.7 155°.60	4°.1/23.9 18		
1 22	11 7.20	+16 29.9	1.882	2.701	13.9	21.9
2 1	11 2.36	+17 35.2	1.810	2.706	10.6	21.7
2 11	10 55.13	+18 46.4	1.762	2.712	7.0	21.5
2 21	10 46.17	+19 55.8	1.741	2.716	4.3	21.4
3 2	10 36.46	+20 55.3	1.749	2.721	5.1	21.4
3 12	10 27.17	+21 38.2	1.785	2.725	8.4	21.6
3 22	10 19.30	+22 1.4	1.847	2.728	11.9	21.8
4 1	10 13.63	+22 4.5	1.931	2.731	15.0	22.0
334930 2004 BD_{9}			2 27.7 6°.69	0°.7/27.3 18		
1 22	11 7.50	+10 51.3	1.706	2.518	15.4	19.7
2 1	11 2.74	+10 35.4	1.627	2.519	11.9	19.5
2 11	10 55.45	+10 26.7	1.570	2.521	7.7	19.2
2 21	10 46.32	+10 21.7	1.540	2.523	3.1	19.0
3 2	10 36.40	+10 16.3	1.537	2.526	1.9	18.9
3 12	10 26.92	+10 6.6	1.563	2.530	6.5	19.2
3 22	10 18.98	+ 9 49.8	1.614	2.535	10.8	19.4
4 1	10 13.38	+ 9 24.6	1.689	2.540	14.5	19.7
369105 2008 HP_{54}			2 27.7 74°.36	5°.5/ 3.9 18		
1 22	11 1.77	− 8 59.2	1.835	2.575	17.2	21.0
2 1	10 58.27	− 9 3.8	1.749	2.580	14.3	20.8
2 11	10 52.54	− 8 43.8	1.682	2.584	11.0	20.6
2 21	10 45.14	− 7 59.0	1.639	2.589	7.7	20.4
3 2	10 36.96	− 6 52.4	1.623	2.594	5.5	20.3
3 12	10 29.07	− 5 30.7	1.634	2.599	6.6	20.3
3 22	10 22.44	− 4 2.2	1.671	2.604	9.7	20.5
4 1	10 17.83	− 2 35.7	1.734	2.609	13.0	20.7

16386 1981 ET_{34} 2 27.7 173°.15 3°.6/ 3.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 3.15	− 7 21.5	2.727	3.444	12.6	20.1
2 1	10 58.56	− 7 11.4	2.628	3.448	10.4	19.9
2 11	10 52.36	− 6 44.3	2.552	3.452	7.8	19.8
2 21	10 44.98	− 6 1.3	2.503	3.454	5.2	19.6
3 2	10 37.06	− 5 4.7	2.483	3.456	3.7	19.5
3 12	10 29.32	− 3 59.0	2.493	3.457	4.7	19.6
3 22	10 22.43	− 2 49.4	2.534	3.458	7.2	19.7
4 1	10 16.95	− 1 41.2	2.601	3.457	9.9	19.9

503349 2016 BX_{59} 2 27.7 286°.39 1°.4/28.7 17

1 22	11 5.84	+ 4 4.8	1.657	2.455	16.4	21.4
2 1	11 1.82	+ 4 1.2	1.558	2.439	13.0	21.2
2 11	10 55.13	+ 4 12.7	1.481	2.424	8.8	20.9
2 21	10 46.32	+ 4 37.3	1.428	2.408	4.1	20.6
3 2	10 36.36	+ 5 10.5	1.403	2.392	1.8	20.4
3 12	10 26.54	+ 5 46.1	1.405	2.376	6.5	20.6
3 22	10 18.10	+ 6 17.8	1.433	2.361	11.3	20.8
4 1	10 12.02	+ 6 40.6	1.484	2.345	15.6	21.1

108914 2001 PR_{12} 2 27.7 124°.64 4°.1/22.9 18

1 22	11 2.79	+19 19.5	2.461	3.279	11.1	19.7
2 1	10 58.46	+20 26.3	2.393	3.287	8.4	19.6
2 11	10 52.35	+21 35.3	2.350	3.295	5.8	19.4
2 21	10 44.98	+22 40.5	2.335	3.304	4.1	19.3
3 2	10 37.09	+23 35.6	2.350	3.311	5.0	19.4
3 12	10 29.51	+24 16.2	2.394	3.319	7.4	19.5
3 22	10 22.97	+24 39.8	2.464	3.326	10.0	19.7
4 1	10 18.06	+24 46.1	2.557	3.333	12.4	19.9

269053 2007 GT_{19} 2 27.7 341°.63 7°.6/21.8 18

1 22	11 8.47	+26 15.0	1.665	2.496	14.9	19.8
2 1	11 3.81	+27 12.8	1.596	2.491	11.8	19.6
2 11	10 56.30	+28 7.2	1.550	2.487	9.0	19.4
2 21	10 46.71	+28 48.6	1.528	2.483	7.6	19.3
3 2	10 36.23	+29 8.6	1.533	2.479	8.7	19.4
3 12	10 26.31	+29 2.1	1.563	2.476	11.5	19.5
3 22	10 18.16	+28 29.1	1.617	2.473	14.6	19.7
4 1	10 12.65	+27 32.7	1.690	2.471	17.6	19.9

461722 2005 SO_{216} 2 27.7 281°.88 1°.8/26.3 17

1 22	11 5.44	+11 7.3	1.806	2.619	14.6	21.4
2 1	11 1.31	+11 36.0	1.709	2.603	11.3	21.1
2 11	10 54.67	+12 15.1	1.635	2.587	7.3	20.9
2 21	10 46.10	+12 59.3	1.588	2.570	3.1	20.6
3 2	10 36.50	+13 42.2	1.568	2.554	2.9	20.5
3 12	10 27.09	+14 17.0	1.577	2.538	7.3	20.7
3 22	10 18.99	+14 38.9	1.611	2.521	11.6	21.0
4 1	10 13.09	+14 45.3	1.668	2.505	15.4	21.2

163439 2002 RK_{90} 2 27.7 179°.46 1°.2/29.1 17

1 22	11 0.66	+ 1 8.7	2.324	3.099	13.0	20.5
2 1	10 56.95	+ 1 42.9	2.232	3.100	10.2	20.4
2 11	10 51.45	+ 2 32.3	2.164	3.100	6.9	20.1
2 21	10 44.65	+ 3 34.1	2.123	3.100	3.3	19.9
3 2	10 37.25	+ 4 43.3	2.111	3.100	1.4	19.8
3 12	10 30.06	+ 5 54.1	2.129	3.100	4.7	20.0
3 22	10 23.82	+ 7 0.6	2.176	3.100	8.3	20.2
4 1	10 19.16	+ 7 58.0	2.248	3.099	11.4	20.4

34070 2000 OK_{57} 2 27.7 96°.18 2°.4/24.7 18

1 22	11 1.33	+13 9.2	2.438	3.248	11.4	19.4
2 1	10 57.30	+14 13.5	2.369	3.262	8.6	19.2
2 11	10 51.57	+15 24.3	2.325	3.276	5.5	19.1
2 21	10 44.66	+16 36.1	2.311	3.290	2.8	18.9
3 2	10 37.28	+17 42.7	2.326	3.304	3.3	19.0
3 12	10 30.19	+18 38.9	2.371	3.318	6.2	19.2
3 22	10 24.11	+19 21.2	2.444	3.331	9.1	19.4
4 1	10 19.59	+19 48.0	2.540	3.344	11.7	19.6

165675 2001 OD_{29} 2 27.7 180°.06 2°.9/24.6 17

1 22	11 5.31	+16 44.7	2.536	3.344	11.1	20.5
2 1	11 0.32	+17 19.8	2.454	3.344	8.4	20.4
2 11	10 53.54	+17 58.1	2.397	3.345	5.5	20.2
2 21	10 45.48	+18 34.7	2.369	3.345	3.2	20.0
3 2	10 36.87	+19 4.8	2.370	3.345	3.7	20.0
3 12	10 28.54	+19 24.4	2.402	3.344	6.3	20.2
3 22	10 21.23	+19 31.3	2.461	3.344	9.2	20.4
4 1	10 15.56	+19 24.9	2.544	3.343	11.8	20.6

318660 2005 NE_{18} 2 27.7 180°.26 1°.1/28.7 14 C

1 22	11 5.23	+ 2 59.3	2.097	2.877	14.0	21.7
2 1	11 0.63	+ 3 16.0	2.007	2.878	11.0	21.5
2 11	10 53.93	+ 3 46.8	1.940	2.879	7.4	21.3
2 21	10 45.71	+ 4 29.0	1.900	2.879	3.5	21.0
3 2	10 36.75	+ 5 17.9	1.889	2.879	1.5	20.9
3 12	10 28.06	+ 6 7.9	1.908	2.878	5.3	21.1
3 22	10 20.51	+ 6 53.5	1.955	2.877	9.1	21.4
4 1	10 14.82	+ 7 30.4	2.026	2.875	12.5	21.6

371647 2007 BS_{55} 2 27.7 207°.74 3°.0/29.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 9.09	+ 0 43.9	1.976	2.743	15.2	20.9
2 1	11 3.75	+ 0 12.4	1.882	2.741	12.2	20.7
2 11	10 56.07	− 0 5.7	1.811	2.739	8.6	20.5
2 21	10 46.62	− 0 11.0	1.766	2.736	4.9	20.2
3 2	10 36.31	− 0 5.5	1.749	2.734	3.0	20.1
3 12	10 26.25	+ 0 7.1	1.762	2.731	5.8	20.3
3 22	10 17.45	+ 0 22.3	1.803	2.728	9.6	20.5
4 1	10 10.73	+ 0 35.8	1.868	2.725	13.1	20.7

15401 1997 VE_{4} 2 27.7 173°.81 4°.2/ 3.6 18

1 22	11 4.32	− 8 27.0	2.649	3.359	13.1	19.5
2 1	10 59.52	− 8 26.5	2.550	3.363	10.9	19.3
2 11	10 53.03	− 8 8.4	2.473	3.367	8.3	19.2
2 21	10 45.30	− 7 33.4	2.423	3.369	5.8	19.0
3 2	10 36.98	− 6 43.3	2.402	3.371	4.2	18.9
3 12	10 28.85	− 5 42.4	2.411	3.372	5.1	19.0
3 22	10 21.60	− 4 36.1	2.449	3.372	7.5	19.1
4 1	10 15.84	− 3 29.8	2.515	3.371	10.2	19.3

376540 2012 TR_{207} 2 27.7 40°.71 2°.4/ 1.1 17

1 22	11 1.82	− 0 34.5	2.254	3.021	13.6	20.4
2 1	10 57.87	− 0 35.9	2.165	3.024	10.8	20.3
2 11	10 52.07	− 0 22.6	2.099	3.027	7.6	20.1
2 21	10 44.93	+ 0 3.7	2.059	3.030	4.3	19.9
3 2	10 37.18	+ 0 40.0	2.048	3.034	2.5	19.7
3 12	10 29.67	+ 1 21.6	2.066	3.037	4.9	19.9
3 22	10 23.18	+ 2 3.5	2.112	3.040	8.2	20.1
4 1	10 18.33	+ 2 41.2	2.183	3.044	11.3	20.3

148846 2001 VK_{22} 2 27.7 200°.58 1°.8/26.0 18

1 22	11 5.74	+11 28.2	2.078	2.883	13.3	20.3
2 1	11 1.08	+12 5.1	1.991	2.881	10.1	20.0
2 11	10 54.27	+12 50.8	1.928	2.878	6.5	19.8
2 21	10 45.87	+13 40.0	1.893	2.875	2.8	19.6
3 2	10 36.73	+14 26.7	1.887	2.872	2.8	19.6
3 12	10 27.86	+15 5.2	1.911	2.868	6.5	19.8
3 22	10 20.20	+15 31.4	1.961	2.864	10.2	20.0
4 1	10 14.46	+15 43.3	2.036	2.859	13.5	20.2

14660 1999 BO_{1} 2 27.7 250°.19 3°.6/24.0 18 R

1 22	11 4.28	+14 58.9	2.023	2.841	13.1	17.6
2 1	11 0.20	+16 9.4	1.930	2.826	10.0	17.3
2 11	10 53.85	+17 28.9	1.860	2.811	6.6	17.1
2 21	10 45.76	+18 50.1	1.819	2.796	3.9	16.9
3 2	10 36.76	+20 4.9	1.806	2.780	4.7	16.9
3 12	10 27.91	+21 5.8	1.823	2.764	8.1	17.1
3 22	10 20.23	+21 48.1	1.865	2.747	11.7	17.3
4 1	10 14.54	+22 9.7	1.929	2.730	15.0	17.4

233169 2005 VF_{15} 2 27.7 98°.28 4°.3/24.7 18

1 22	11 11.79	+16 6.7	1.476	2.300	16.8	20.7
2 1	11 6.27	+16 59.4	1.419	2.318	12.8	20.5
2 11	10 57.81	+17 58.2	1.385	2.336	8.4	20.3
2 21	10 47.31	+18 53.9	1.376	2.354	4.7	20.2
3 2	10 36.08	+19 37.7	1.394	2.371	5.4	20.2
3 12	10 25.61	+20 2.8	1.440	2.387	9.3	20.5
3 22	10 17.12	+20 6.9	1.510	2.404	13.3	20.8
4 1	10 11.42	+19 50.8	1.602	2.419	16.8	21.0

399976 2006 BM_{174} 2 27.7 203°.10 2°.6/25.5 18

1 22	11 8.08	+12 22.7	1.860	2.670	14.4	21.7
2 1	11 3.18	+13 14.2	1.773	2.666	11.0	21.5
2 11	10 55.80	+14 15.7	1.711	2.661	7.1	21.2
2 21	10 46.55	+15 20.6	1.675	2.656	3.3	21.0
3 2	10 36.39	+16 21.3	1.668	2.650	3.7	21.0
3 12	10 26.52	+17 10.4	1.690	2.643	7.6	21.2
3 22	10 18.02	+17 43.3	1.738	2.635	11.6	21.4
4 1	10 11.74	+17 57.9	1.810	2.627	15.1	21.6

407866 2012 BJ_{73} 2 27.7 130°.05 2°.9/ 1.3 18

1 22	11 5.32	− 1 53.0	1.838	2.606	16.1	21.1
2 1	11 0.93	− 1 46.3	1.756	2.615	12.9	20.9
2 11	10 54.24	− 1 20.1	1.696	2.623	9.2	20.7
2 21	10 45.87	− 0 36.3	1.661	2.631	5.2	20.4
3 2	10 36.75	+ 0 20.5	1.654	2.639	2.9	20.3
3 12	10 27.97	+ 1 23.8	1.675	2.646	5.7	20.5
3 22	10 20.52	+ 2 26.4	1.724	2.653	9.6	20.7
4 1	10 15.16	+ 3 22.0	1.797	2.660	13.2	21.0

322136 2010 VH_{192} 2 27.7 230°.62 5°.1/23.1 18

1 22	11 8.37	+20 33.2	1.970	2.789	13.4	20.8
2 1	11 3.36	+21 31.2	1.886	2.780	10.4	20.6
2 11	10 55.89	+22 31.8	1.827	2.771	7.3	20.4
2 21	10 46.58	+23 27.2	1.794	2.762	5.2	20.2
3 2	10 36.39	+24 9.6	1.790	2.752	6.2	20.2
3 12	10 26.52	+24 33.3	1.815	2.742	9.2	20.4
3 22	10 18.03	+24 35.9	1.864	2.732	12.5	20.6
4 1	10 11.75	+24 17.9	1.935	2.721	15.5	20.8

205241 2000 QV_{177} 2 27.7 175°.12 0°.8/28.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 7.46	+ 3 46.2	2.002	2.783	14.6	21.4
2 1	11 2.43	+ 4 8.4	1.913	2.786	11.4	21.2
2 11	10 55.17	+ 4 45.2	1.848	2.788	7.6	21.0
2 21	10 46.25	+ 5 33.2	1.810	2.790	3.4	20.7
3 2	10 36.56	+ 6 27.1	1.801	2.791	1.4	20.6
3 12	10 27.16	+ 7 20.7	1.822	2.791	5.6	20.9
3 22	10 19.01	+ 8 8.3	1.871	2.791	9.6	21.1
4 1	10 12.86	+ 8 45.6	1.945	2.789	13.2	21.3

201410 2002 WB 2 27.7 42°.83 2°.9/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 11.48	+ 2 3.9	1.719	2.496	16.8	19.0
2 1	11 5.39	+ 1 19.6	1.664	2.529	13.2	18.8
2 11	10 56.91	+ 0 49.7	1.631	2.562	9.1	18.6
2 21	10 46.87	+ 0 33.1	1.624	2.596	5.0	18.4
3 2	10 36.34	+ 0 27.5	1.645	2.630	2.9	18.4
3 12	10 26.54	+ 0 28.8	1.695	2.664	5.9	18.6
3 22	10 18.41	+ 0 32.7	1.772	2.699	9.6	18.9
4 1	10 12.62	+ 0 35.2	1.873	2.733	12.9	19.2

14477 1994 CN 2 27.7 79°.06 4°.6/23.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.18	+20 25.7	2.123	2.944	12.5	18.1
2 1	11 0.58	+21 18.9	2.054	2.949	9.6	17.9
2 11	10 53.87	+22 13.5	2.009	2.955	6.6	17.8
2 21	10 45.68	+23 2.6	1.992	2.961	4.7	17.7
3 2	10 36.89	+23 39.9	2.004	2.967	5.6	17.7
3 12	10 28.49	+24 0.7	2.044	2.972	8.2	17.9
3 22	10 21.38	+24 3.2	2.109	2.978	11.2	18.1
4 1	10 16.20	+23 47.8	2.197	2.984	13.8	18.3

419009 2009 PO_{16} 2 27.7 150°.97 1°.1/26.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 8.82	+10 43.3	2.485	3.273	11.9	21.9
2 1	11 2.94	+11 1.5	2.404	3.284	9.0	21.7
2 11	10 55.21	+11 26.1	2.348	3.293	5.8	21.5
2 21	10 46.20	+11 53.5	2.320	3.303	2.4	21.3
3 2	10 36.65	+12 19.4	2.324	3.311	1.9	21.3
3 12	10 27.44	+12 39.8	2.359	3.319	5.3	21.5
3 22	10 19.32	+12 52.1	2.423	3.326	8.5	21.7
4 1	10 12.91	+12 54.6	2.513	3.332	11.3	21.9

417343 2006 DP_{133} 2 27.7 49°.72 1°.9/26.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.25	+10 21.6	1.699	2.518	15.1	21.1
2 1	10 59.44	+11 8.9	1.635	2.532	11.5	20.9
2 11	10 53.28	+12 7.4	1.594	2.546	7.3	20.7
2 21	10 45.47	+13 10.4	1.578	2.561	3.1	20.4
3 2	10 37.01	+14 10.4	1.591	2.576	3.0	20.5
3 12	10 29.04	+15 0.1	1.631	2.592	7.1	20.8
3 22	10 22.54	+15 34.8	1.698	2.607	11.1	21.0
4 1	10 18.20	+15 52.4	1.786	2.623	14.5	21.3

320689 2008 CS_{214} 2 27.7 138°.08 1°.5/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.20	+ 0 42.3	2.245	3.011	13.6	21.3
2 1	11 0.38	+ 1 6.8	2.163	3.024	10.7	21.2
2 11	10 53.66	+ 1 46.4	2.105	3.037	7.3	21.0
2 21	10 45.59	+ 2 38.2	2.074	3.050	3.7	20.8
3 2	10 36.94	+ 3 37.7	2.073	3.061	1.7	20.6
3 12	10 28.61	+ 4 39.0	2.102	3.072	4.8	20.9
3 22	10 21.38	+ 5 36.6	2.160	3.082	8.4	21.1
4 1	10 15.89	+ 6 26.1	2.243	3.092	11.5	21.3

264425 2000 RU_{28} 2 27.7 187°.43 2°.1/29.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 7.37	+ 1 9.1	2.343	3.104	13.3	21.2
2 1	11 2.07	+ 0 58.6	2.247	3.104	10.6	21.0
2 11	10 54.81	+ 1 0.5	2.174	3.103	7.4	20.8
2 21	10 46.09	+ 1 13.3	2.129	3.102	4.0	20.6
3 2	10 36.69	+ 1 34.5	2.113	3.100	2.2	20.4
3 12	10 27.50	+ 2 0.1	2.128	3.097	4.9	20.6
3 22	10 19.35	+ 2 26.0	2.172	3.094	8.3	20.8
4 1	10 12.92	+ 2 48.4	2.241	3.091	11.5	21.0

496551 2014 WD_{353} 2 27.7 115°.72 7°.0/20.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 7.70	+25 53.5	2.019	2.840	13.0	21.2
2 1	11 2.66	+27 26.7	1.966	2.856	10.3	21.0
2 11	10 55.28	+28 56.9	1.939	2.870	7.9	20.9
2 21	10 46.28	+30 15.1	1.939	2.885	7.0	20.9
3 2	10 36.64	+31 13.2	1.966	2.899	8.1	20.9
3 12	10 27.52	+31 46.5	2.021	2.912	10.4	21.1
3 22	10 19.88	+31 54.2	2.100	2.925	12.9	21.3
4 1	10 14.43	+31 38.6	2.198	2.938	15.2	21.5

188701 2005 TD_{50} 2 27.7 192°.51 0°.7/26.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.35	+ 7 45.5	2.453	3.242	12.0	21.1
2 1	10 59.71	+ 8 28.8	2.360	3.240	9.2	20.9
2 11	10 53.25	+ 9 22.7	2.292	3.238	5.9	20.7
2 21	10 45.45	+10 22.8	2.252	3.235	2.3	20.5
3 2	10 37.02	+11 24.1	2.243	3.231	1.7	20.4
3 12	10 28.77	+12 20.9	2.264	3.226	5.3	20.7
3 22	10 21.49	+13 8.7	2.314	3.221	8.7	20.9
4 1	10 15.81	+13 44.5	2.390	3.215	11.7	21.0

198450 Scattolin 2 27.7 118°.64 3°.6/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 4.04	− 4 57.6	2.314	3.054	14.0	20.8
2 1	10 59.47	− 5 2.1	2.231	3.068	11.4	20.7
2 11	10 53.06	− 4 49.5	2.170	3.081	8.4	20.5
2 21	10 45.36	− 4 20.8	2.135	3.094	5.4	20.3
3 2	10 37.08	− 3 38.8	2.129	3.106	3.6	20.2
3 12	10 29.10	− 2 48.2	2.152	3.118	5.1	20.4
3 22	10 22.17	− 1 54.3	2.203	3.130	8.0	20.6
4 1	10 16.90	− 1 2.5	2.280	3.141	10.9	20.8

518962 2010 HT_{40} 2 27.7 295°.33 3°.5/ 2.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 59.22	− 5 28.5	2.355	3.101	13.6	21.2
2 1	10 55.95	− 5 20.5	2.250	3.090	11.2	21.0
2 11	10 50.91	− 4 54.3	2.166	3.079	8.3	20.8
2 21	10 44.52	− 4 10.6	2.108	3.068	5.4	20.6
3 2	10 37.46	− 3 12.2	2.078	3.057	3.6	20.5
3 12	10 30.52	− 2 4.1	2.077	3.046	5.0	20.5
3 22	10 24.46	− 0 52.4	2.104	3.035	8.1	20.7
4 1	10 19.93	+ 0 16.9	2.157	3.024	11.2	20.9

419153 2009 SB_{329} 2 27.7 157°.45 2°.0/25.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.45	+12 15.6	2.485	3.283	11.5	22.1
2 1	11 0.45	+13 6.8	2.405	3.292	8.7	21.9
2 11	10 53.66	+14 4.9	2.351	3.300	5.6	21.7
2 21	10 45.59	+15 4.9	2.327	3.307	2.6	21.5
3 2	10 36.98	+16 1.3	2.333	3.314	2.8	21.5
3 12	10 28.65	+16 48.8	2.369	3.320	5.9	21.7
3 22	10 21.35	+17 24.2	2.434	3.325	9.0	21.9
4 1	10 15.67	+17 45.7	2.523	3.330	11.7	22.1

374165 2004 VG_{40} 2 27.7 78°.56 8°.1/19.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 8.20	+29 33.5	1.937	2.759	13.4	20.7
2 1	11 3.23	+30 52.2	1.882	2.767	10.9	20.6
2 11	10 55.74	+32 4.7	1.850	2.774	8.8	20.4
2 21	10 46.49	+33 1.9	1.845	2.781	8.1	20.4
3 2	10 36.56	+33 36.2	1.866	2.788	9.2	20.5
3 12	10 27.20	+33 43.6	1.913	2.795	11.4	20.6
3 22	10 19.46	+33 24.5	1.983	2.802	13.8	20.8
4 1	10 14.06	+32 41.9	2.073	2.809	16.1	21.0

494667 2001 WX_1 2 27.7 169°.64 3°.1/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 58.54	−11 58.4	5.286	5.947	7.5	23.8
2 1	10 54.33	−12 6.3	5.180	5.952	6.3	23.7
2 11	10 49.31	−12 4.8	5.098	5.957	5.1	23.6
2 21	10 43.73	−11 54.0	5.043	5.961	3.9	23.5
3 2	10 37.89	−11 34.5	5.019	5.964	3.1	23.5
3 12	10 32.14	−11 8.0	5.025	5.967	3.3	23.5
3 22	10 26.78	−10 36.4	5.061	5.969	4.3	23.6
4 1	10 22.12	−10 1.9	5.127	5.971	5.5	23.7

288746 2004 RL_{64} 2 27.7 133°.44 0°.3/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 8.46	+ 5 23.7	1.702	2.497	16.2	21.3
2 1	11 3.49	+ 5 43.5	1.626	2.507	12.5	21.1
2 11	10 55.98	+ 6 18.1	1.572	2.517	8.2	20.9
2 21	10 46.62	+ 7 3.3	1.544	2.526	3.5	20.6
3 2	10 36.48	+ 7 53.0	1.545	2.535	1.5	20.5
3 12	10 26.77	+ 8 40.1	1.574	2.543	6.3	20.8
3 22	10 18.60	+ 9 18.8	1.630	2.550	10.7	21.1
4 1	10 12.77	+ 9 45.3	1.709	2.557	14.5	21.3

370972 2005 SC_{193} 2 27.7 213°.75 3°.4/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.48	− 4 54.0	2.350	3.090	13.8	22.0
2 1	10 59.19	− 4 43.9	2.245	3.083	11.3	21.8
2 11	10 53.01	− 4 15.7	2.162	3.075	8.3	21.6
2 21	10 45.40	− 3 30.4	2.105	3.066	5.2	21.4
3 2	10 37.05	− 2 30.8	2.077	3.057	3.4	21.2
3 12	10 28.83	− 1 22.3	2.079	3.047	5.1	21.3
3 22	10 21.55	− 0 10.9	2.110	3.037	8.3	21.5
4 1	10 15.90	+ 0 57.3	2.167	3.026	11.4	21.7

269536 2009 VG_{83} 2 27.7 324°.12 6°.0/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.15	− 7 0.1	1.718	2.473	17.6	20.0
2 1	10 58.90	− 7 36.2	1.621	2.463	14.7	19.7
2 11	10 53.21	− 7 50.4	1.545	2.452	11.4	19.5
2 21	10 45.58	− 7 41.4	1.491	2.443	8.0	19.3
3 2	10 36.94	− 7 10.2	1.462	2.433	6.0	19.1
3 12	10 28.44	− 6 21.3	1.460	2.425	7.3	19.2
3 22	10 21.20	− 5 22.1	1.483	2.416	10.6	19.3
4 1	10 16.15	− 4 20.7	1.530	2.408	14.2	19.5

500466 2012 TO_{221} 2 27.7 4°.39 3°.7/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 56.68	− 4 59.9	1.706	2.482	16.9	20.2
2 1	10 54.55	− 4 40.5	1.622	2.482	13.8	20.0
2 11	10 50.24	− 3 56.3	1.558	2.483	10.1	19.8
2 21	10 44.30	− 2 49.0	1.518	2.485	6.2	19.6
3 2	10 37.60	− 1 23.8	1.504	2.487	3.7	19.4
3 12	10 31.18	+ 0 11.1	1.518	2.491	5.9	19.6
3 22	10 26.00	+ 1 46.1	1.557	2.496	9.7	19.8
4 1	10 22.80	+ 3 12.8	1.621	2.501	13.5	20.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
145646 4170 *P–L*			2 27.7 189°.60		2°.6/ 1.1 18	
	h m	° ′			°	m
1 22	11 5.20	− 1 24.3	2.039	2.802	14.9	20.8
2 1	11 0.73	− 1 14.9	1.945	2.801	12.0	20.6
2 11	10 54.10	− 0 47.9	1.873	2.800	8.5	20.4
2 21	10 45.86	− 0 4.8	1.828	2.798	4.7	20.2
3 2	10 36.83	+ 0 50.2	1.811	2.796	2.6	20.0
3 12	10 28.03	+ 1 51.3	1.823	2.793	5.4	20.2
3 22	10 20.37	+ 2 52.0	1.863	2.790	9.2	20.4
4 1	10 14.63	+ 3 46.5	1.928	2.786	12.7	20.6
168905 2000 XT_1			2 27.7 60°.99		2°.0/29.2 18	
1 22	11 7.16	+ 1 32.1	1.387	2.186	19.0	20.1
2 1	11 2.78	+ 1 38.5	1.329	2.209	14.9	19.9
2 11	10 55.59	+ 2 5.5	1.292	2.232	10.1	19.7
2 21	10 46.46	+ 2 49.4	1.278	2.256	5.0	19.4
3 2	10 36.61	+ 3 43.6	1.290	2.279	2.3	19.3
3 12	10 27.46	+ 4 39.5	1.330	2.303	6.6	19.6
3 22	10 20.17	+ 5 29.6	1.394	2.326	11.2	20.0
4 1	10 15.49	+ 6 8.3	1.481	2.350	15.2	20.2
5353 1989 *YT*			2 27.7 177°.10		1°.4/26.2 18	
1 22	11 6.32	+10 38.6	2.515	3.307	11.6	19.0
2 1	11 1.13	+11 17.7	2.427	3.310	8.8	18.8
2 11	10 54.12	+12 4.6	2.365	3.312	5.7	18.6
2 21	10 45.80	+12 54.8	2.332	3.314	2.4	18.4
3 2	10 36.90	+13 43.4	2.329	3.314	2.2	18.4
3 12	10 28.23	+14 25.4	2.358	3.314	5.5	18.6
3 22	10 20.57	+14 57.4	2.414	3.313	8.7	18.8
4 1	10 14.52	+15 17.1	2.497	3.311	11.6	19.0
87280 2000 PF_{12}			2 27.7 249°.28		5°.6/21.3 18	
1 22	11 5.12	+21 42.0	2.186	3.007	12.2	19.7
2 1	11 0.82	+23 12.0	2.096	2.990	9.5	19.5
2 11	10 54.27	+24 45.8	2.031	2.972	6.9	19.3
2 21	10 45.98	+26 15.1	1.994	2.954	5.6	19.2
3 2	10 36.78	+27 31.3	1.986	2.935	6.8	19.2
3 12	10 27.72	+28 27.7	2.006	2.915	9.5	19.4
3 22	10 19.78	+29 0.8	2.052	2.895	12.5	19.5
4 1	10 13.79	+29 10.2	2.118	2.874	15.2	19.7
497961 2007 AC_8			2 27.7 1°.24		11°.9/ 2.6 18	
1 22	11 18.55	− 9 42.5	1.445	2.171	21.6	19.2
2 1	11 12.27	−12 36.7	1.360	2.169	18.8	19.0
2 11	11 2.40	−15 16.3	1.295	2.168	15.8	18.8
2 21	10 49.55	−17 31.3	1.254	2.168	13.1	18.6
3 2	10 34.99	−19 12.9	1.238	2.169	11.9	18.6
3 12	10 20.54	−20 17.4	1.249	2.172	12.8	18.6
3 22	10 7.97	−20 48.0	1.283	2.175	15.3	18.8
4 1	9 58.62	−20 53.2	1.339	2.179	18.2	19.0
201882 2004 AC_7			2 27.7 138°.04		4°.6/ 3.6 18	
1 22	11 3.16	− 7 45.2	2.446	3.169	13.8	20.2
2 1	10 58.80	− 8 4.6	2.354	3.174	11.5	20.1
2 11	10 52.65	− 8 6.9	2.284	3.180	8.8	19.9
2 21	10 45.22	− 7 52.0	2.239	3.185	6.2	19.7
3 2	10 37.19	− 7 21.6	2.222	3.190	4.6	19.7
3 12	10 29.36	− 6 39.3	2.235	3.195	5.5	19.7
3 22	10 22.49	− 5 50.2	2.275	3.199	7.9	19.9
4 1	10 17.19	− 4 59.6	2.342	3.204	10.6	20.0
55866 1997 PV_4			2 27.7 218°.49		0°.5/27.3 18	
1 22	11 5.38	+ 5 16.1	1.854	2.650	15.0	19.6
2 1	11 1.18	+ 6 9.9	1.759	2.642	11.7	19.3
2 11	10 54.58	+ 7 21.0	1.686	2.633	7.6	19.1
2 21	10 46.13	+ 8 44.6	1.641	2.623	3.1	18.8
3 2	10 36.72	+10 13.0	1.624	2.613	1.8	18.7
3 12	10 27.48	+11 37.5	1.637	2.602	6.5	18.9
3 22	10 19.49	+12 50.5	1.677	2.591	10.9	19.2
4 1	10 13.61	+13 46.9	1.740	2.578	14.8	19.4
387395 2013 CC_{202}			2 27.7 96°.22		1°.6/26.5 18	
1 22	11 6.25	+ 8 2.5	1.500	2.315	17.0	21.6
2 1	11 2.06	+ 9 1.0	1.435	2.330	12.9	21.4
2 11	10 55.16	+10 15.3	1.392	2.344	8.3	21.1
2 21	10 46.32	+11 37.9	1.374	2.357	3.3	20.9
3 2	10 36.68	+12 59.1	1.384	2.371	2.9	20.9
3 12	10 27.58	+14 9.6	1.421	2.384	7.7	21.2
3 22	10 20.19	+15 2.9	1.484	2.397	12.2	21.5
4 1	10 15.31	+15 35.9	1.569	2.410	16.0	21.8
89722 2001 YY_{126}			2 27.7 234°.49		4°.4/ 3.5 18	
1 22	11 3.49	− 7 47.5	2.807	3.520	12.4	19.8
2 1	10 58.92	− 8 14.4	2.697	3.510	10.4	19.6
2 11	10 52.71	− 8 26.9	2.609	3.500	8.1	19.5
2 21	10 45.26	− 8 24.6	2.547	3.489	5.8	19.3
3 2	10 37.17	− 8 8.3	2.514	3.478	4.4	19.2
3 12	10 29.17	− 7 40.5	2.511	3.467	5.2	19.2
3 22	10 21.93	− 7 5.0	2.536	3.456	7.4	19.4
4 1	10 16.05	− 6 26.4	2.588	3.444	9.9	19.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
208248 2000 UF_{34}			2 27.7 123°.03		3°.2/ 1.5 18	
	h m	° ′			°	m
1 22	11 6.06	− 2 42.1	1.761	2.527	16.8	20.6
2 1	11 1.59	− 2 34.1	1.682	2.539	13.5	20.4
2 11	10 54.73	− 2 5.1	1.625	2.550	9.6	20.2
2 21	10 46.14	− 1 17.1	1.592	2.561	5.6	20.0
3 2	10 36.77	− 0 14.6	1.587	2.572	3.2	19.9
3 12	10 27.80	+ 0 54.9	1.611	2.582	5.9	20.1
3 22	10 20.24	+ 2 3.7	1.662	2.592	9.9	20.3
4 1	10 14.86	+ 3 5.2	1.737	2.601	13.5	20.6
344249 2001 SS_{241}			2 27.7 106°.12		4°.0/23.6 18	
1 22	11 6.01	+20 13.5	2.425	3.238	11.4	21.2
2 1	11 0.91	+20 55.3	2.357	3.249	8.7	21.0
2 11	10 53.95	+21 37.6	2.315	3.259	6.0	20.9
2 21	10 45.72	+22 15.0	2.301	3.270	4.1	20.8
3 2	10 37.00	+22 42.4	2.316	3.281	4.8	20.8
3 12	10 28.67	+22 56.0	2.361	3.291	7.2	21.0
3 22	10 21.50	+22 54.4	2.432	3.301	9.9	21.2
4 1	10 16.05	+22 37.9	2.527	3.311	12.3	21.3
296157 2009 BC_{115}			2 27.7 23°.77		0°.1/27.7 18	
1 22	11 2.89	+ 5 33.7	1.259	2.086	19.0	19.6
2 1	10 59.99	+ 5 59.5	1.193	2.091	14.7	19.3
2 11	10 54.09	+ 6 44.9	1.146	2.098	9.6	19.0
2 21	10 45.97	+ 7 44.4	1.121	2.105	4.0	18.7
3 2	10 36.86	+ 8 49.2	1.123	2.112	1.9	18.6
3 12	10 28.30	+ 9 49.4	1.149	2.121	7.6	19.0
3 22	10 21.60	+10 37.0	1.199	2.130	12.8	19.3
4 1	10 17.66	+11 7.0	1.270	2.140	17.2	19.6
473041 2015 HA_{79}			2 27.7 308°.35		1°.8/29.4 17	
1 22	11 0.80	+ 1 23.7	2.102	2.884	13.9	21.4
2 1	10 57.43	+ 1 30.8	1.996	2.867	11.1	21.2
2 11	10 52.02	+ 1 53.1	1.913	2.849	7.7	20.9
2 21	10 45.07	+ 2 28.7	1.856	2.832	4.0	20.7
3 2	10 37.28	+ 3 13.8	1.827	2.816	1.9	20.5
3 12	10 29.61	+ 4 3.2	1.827	2.799	5.2	20.7
3 22	10 22.93	+ 4 51.1	1.854	2.783	9.1	20.9
4 1	10 17.99	+ 5 32.5	1.905	2.767	12.7	21.1
364733 2007 VS_{148}			2 27.7 80°.51		1°.5/26.5 18	
1 22	11 7.20	+ 9 8.8	1.570	2.384	16.4	21.1
2 1	11 2.59	+ 9 52.7	1.509	2.403	12.5	20.9
2 11	10 55.40	+10 49.4	1.471	2.423	8.0	20.7
2 21	10 46.39	+11 52.1	1.459	2.442	3.2	20.5
3 2	10 36.71	+12 52.6	1.474	2.461	2.7	20.5
3 12	10 27.64	+13 43.3	1.517	2.480	7.3	20.8
3 22	10 20.24	+14 19.0	1.586	2.499	11.5	21.1
4 1	10 15.28	+14 37.5	1.677	2.517	15.1	21.4
420618 2012 HJ_{65}			2 27.7 359°.78		2°.1/26.2 18	
1 22	11 2.28	+10 31.1	1.408	2.240	17.0	20.7
2 1	10 59.34	+11 6.4	1.334	2.238	13.0	20.4
2 11	10 53.61	+11 54.9	1.281	2.237	8.4	20.2
2 21	10 45.77	+12 50.1	1.253	2.236	3.5	19.9
3 2	10 36.97	+13 43.4	1.250	2.237	3.3	19.9
3 12	10 28.60	+14 26.2	1.274	2.238	8.1	20.1
3 22	10 21.90	+14 52.9	1.321	2.240	12.8	20.4
4 1	10 17.76	+15 0.8	1.389	2.243	16.9	20.7
217758 2000 QP_{15}			2 27.7 65°.43		1°.2/28.7 18	
1 22	11 9.52	+ 3 40.1	1.740	2.526	16.2	19.9
2 1	11 3.91	+ 3 43.8	1.686	2.560	12.6	19.7
2 11	10 55.99	+ 4 2.1	1.655	2.595	8.3	19.5
2 21	10 46.56	+ 4 31.4	1.650	2.629	3.8	19.3
3 2	10 36.66	+ 5 6.6	1.673	2.662	1.6	19.3
3 12	10 27.44	+ 5 41.7	1.725	2.696	5.7	19.6
3 22	10 19.84	+ 6 11.8	1.805	2.729	9.6	19.9
4 1	10 14.47	+ 6 33.3	1.908	2.762	13.0	20.2
284083 2005 JS_{79}			2 27.7 189°.46		4°.5/ 3.7 17	
1 22	11 1.28	− 8 4.6	2.430	3.155	13.8	20.8
2 1	10 57.42	− 8 12.9	2.333	3.155	11.5	20.6
2 11	10 51.82	− 8 3.0	2.257	3.154	8.8	20.5
2 21	10 44.91	− 7 35.2	2.207	3.154	6.2	20.3
3 2	10 37.39	− 6 51.3	2.184	3.153	4.5	20.2
3 12	10 30.04	− 5 55.6	2.190	3.152	5.4	20.2
3 22	10 23.60	− 4 53.6	2.225	3.151	7.9	20.4
4 1	10 18.70	− 3 51.0	2.285	3.150	10.7	20.6
450402 2005 SY_{209}			2 27.7 198°.10		2°.9/29.9 18	
1 22	11 7.58	− 0 57.6	1.673	2.448	17.2	21.7
2 1	11 3.07	− 0 55.4	1.582	2.446	13.9	21.4
2 11	10 55.92	− 0 32.8	1.512	2.443	9.8	21.2
2 21	10 46.73	+ 0 8.5	1.467	2.440	5.4	20.9
3 2	10 36.51	+ 1 4.3	1.450	2.436	3.0	20.7
3 12	10 26.54	+ 2 7.1	1.460	2.432	6.3	20.9
3 22	10 18.01	+ 3 9.3	1.497	2.427	10.8	21.2
4 1	10 11.85	+ 4 3.7	1.558	2.421	14.9	21.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
164583 2007 BO_{27}			2 27.7	101°.26	1°.7/26.2	18
	h m	° ′			°	m
1 22	11 4.97	+10 6.2	1.877	2.687	14.3	20.8
2 1	11 0.60	+10 54.2	1.807	2.699	10.9	20.6
2 11	10 54.00	+11 52.9	1.760	2.710	6.9	20.4
2 21	10 45.83	+12 56.3	1.739	2.722	2.9	20.2
3 2	10 36.99	+13 57.2	1.748	2.733	2.8	20.2
3 12	10 28.58	+14 48.9	1.785	2.745	6.7	20.5
3 22	10 21.51	+15 26.8	1.849	2.756	10.5	20.7
4 1	10 16.50	+15 48.6	1.937	2.766	13.8	20.9
114643 2003 EY_{39}			2 27.8	200°.49	6°.1/19.2	18
1 22	11 3.45	+28 42.8	2.778	3.592	10.0	19.8
2 1	10 59.01	+30 2.3	2.708	3.589	8.1	19.7
2 11	10 52.80	+31 18.6	2.665	3.587	6.6	19.6
2 21	10 45.31	+32 25.0	2.651	3.583	6.1	19.6
3 2	10 37.24	+33 15.9	2.664	3.580	7.0	19.6
3 12	10 29.41	+33 47.4	2.705	3.576	8.8	19.7
3 22	10 22.57	+33 58.5	2.771	3.573	10.8	19.9
4 1	10 17.31	+33 50.0	2.858	3.568	12.6	20.0
243354 2008 UK_{304}			2 27.8	57°.48	8°.1/20.5	18
1 22	11 9.41	+30 2.7	1.894	2.715	13.7	19.8
2 1	11 4.04	+31 13.3	1.851	2.735	11.1	19.7
2 11	10 56.17	+32 16.0	1.833	2.755	8.9	19.6
2 21	10 46.67	+33 2.1	1.840	2.776	8.1	19.6
3 2	10 36.65	+33 24.6	1.874	2.796	9.1	19.7
3 12	10 27.36	+33 20.8	1.933	2.817	11.2	19.9
3 22	10 19.81	+32 51.9	2.016	2.838	13.5	20.1
4 1	10 14.63	+32 1.4	2.118	2.858	15.7	20.3
504022 2005 ND_{125}			2 27.8	209°.51	1°.6/29.6	17
1 22	11 2.84	+ 1 8.8	2.996	3.752	10.8	22.3
2 1	10 58.26	+ 1 11.0	2.891	3.746	8.5	22.2
2 11	10 52.19	+ 1 23.6	2.812	3.740	5.9	22.0
2 21	10 45.05	+ 1 45.0	2.760	3.733	3.1	21.8
3 2	10 37.37	+ 2 12.9	2.739	3.726	1.6	21.7
3 12	10 29.83	+ 2 44.0	2.749	3.718	3.9	21.8
3 22	10 23.02	+ 3 14.8	2.789	3.710	6.7	22.0
4 1	10 17.48	+ 3 42.1	2.855	3.702	9.4	22.1
413869 2006 UZ_{150}			2 27.8	125°.38	2°.6/ 1.4	18
1 22	11 6.45	− 2 3.8	2.209	2.961	14.2	23.2
2 1	11 1.35	− 1 51.9	2.131	2.980	11.4	23.0
2 11	10 54.32	− 1 23.4	2.075	2.998	8.0	22.8
2 21	10 45.93	− 0 40.4	2.047	3.016	4.6	22.6
3 2	10 36.97	+ 0 13.1	2.047	3.032	2.6	22.5
3 12	10 28.37	+ 1 11.6	2.078	3.048	4.9	22.7
3 22	10 20.93	+ 2 9.3	2.138	3.063	8.3	23.0
4 1	10 15.27	+ 3 1.3	2.224	3.077	11.4	23.2
92575 2000 OJ_{59}			2 27.8	99°.91	0°.1/27.8	18
1 22	11 6.95	+ 4 33.2	1.640	2.438	16.6	19.5
2 1	11 2.32	+ 5 16.9	1.575	2.458	12.7	19.3
2 11	10 55.21	+ 6 17.6	1.532	2.477	8.3	19.1
2 21	10 46.34	+ 7 29.8	1.514	2.496	3.4	18.8
3 2	10 36.78	+ 8 45.5	1.525	2.515	1.6	18.7
3 12	10 27.76	+ 9 56.3	1.565	2.533	6.4	19.1
3 22	10 20.32	+10 55.3	1.630	2.550	10.8	19.4
4 1	10 15.20	+11 38.5	1.720	2.567	14.5	19.6
224365 2005 UV_{141}			2 27.8	75°.33	5°.4/ 4.4	18
1 22	11 0.72	−10 23.5	1.914	2.645	16.8	20.2
2 1	10 57.48	−10 14.6	1.822	2.646	14.1	20.0
2 11	10 52.10	− 9 39.7	1.749	2.646	11.0	19.8
2 21	10 45.11	− 8 38.8	1.700	2.647	7.7	19.6
3 2	10 37.34	− 7 15.1	1.678	2.648	5.5	19.5
3 12	10 29.80	− 5 35.7	1.684	2.649	6.4	19.5
3 22	10 23.44	− 3 49.6	1.717	2.650	9.4	19.7
4 1	10 18.99	− 2 6.0	1.775	2.651	12.7	19.9
496547 2014 WR_{310}			2 27.8	326°.08	4°.3/ 2.2	17
1 22	11 3.97	− 3 44.1	1.759	2.525	16.9	21.4
2 1	11 0.17	− 4 4.9	1.669	2.522	13.8	21.2
2 11	10 53.97	− 4 5.8	1.599	2.519	10.2	21.0
2 21	10 45.92	− 3 46.8	1.553	2.516	6.5	20.8
3 2	10 36.96	− 3 10.5	1.534	2.514	4.3	20.6
3 12	10 28.23	− 2 22.3	1.542	2.511	6.4	20.7
3 22	10 20.80	− 1 29.3	1.576	2.509	10.1	20.9
4 1	10 15.53	− 0 38.5	1.634	2.507	13.8	21.2
417091 2005 UP_{306}			2 27.8	78°.71	2°.5/25.7	18
1 22	11 6.22	+12 55.1	1.800	2.617	14.5	21.2
2 1	11 1.67	+13 32.9	1.731	2.626	11.0	21.0
2 11	10 54.76	+14 18.7	1.684	2.636	7.1	20.8
2 21	10 46.16	+15 6.2	1.664	2.645	3.3	20.5
3 2	10 36.89	+15 48.7	1.672	2.655	3.5	20.6
3 12	10 28.07	+16 20.0	1.709	2.665	7.3	20.8
3 22	10 20.70	+16 36.8	1.771	2.674	11.1	21.1
4 1	10 15.52	+16 37.5	1.856	2.684	14.4	21.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
456823 2007 TN_{413}			2 27.8	199°.67	1°.0/26.9	17
	h m	° ′			°	m
1 22	11 7.84	+ 8 39.3	2.033	2.829	13.9	22.5
2 1	11 2.81	+ 9 14.2	1.941	2.825	10.7	22.3
2 11	10 55.51	+10 0.3	1.874	2.821	6.9	22.0
2 21	10 46.52	+10 53.1	1.833	2.816	2.8	21.8
3 2	10 36.69	+11 46.5	1.822	2.810	2.1	21.7
3 12	10 27.10	+12 34.1	1.841	2.803	6.3	21.9
3 22	10 18.73	+13 11.1	1.888	2.796	10.2	22.2
4 1	10 12.37	+13 34.4	1.958	2.788	13.7	22.4
113088 2002 RA_{70}			2 27.8	107°.07	0°.6/28.4	18
1 22	11 3.28	+ 4 26.5	2.267	3.051	13.0	20.4
2 1	10 58.95	+ 4 46.2	2.186	3.061	10.1	20.2
2 11	10 52.79	+ 5 17.9	2.130	3.071	6.6	20.0
2 21	10 45.32	+ 5 58.4	2.100	3.080	2.9	19.8
3 2	10 37.29	+ 6 43.3	2.100	3.089	1.2	19.6
3 12	10 29.56	+ 7 27.5	2.129	3.099	4.9	19.9
3 22	10 22.90	+ 8 6.4	2.187	3.108	8.4	20.1
4 1	10 17.90	+ 8 36.7	2.270	3.116	11.5	20.4
147398 2003 FX_{8}			2 27.8	314°.88	13°.3/10.3	17
1 22	11 2.08	−27 55.6	2.191	2.781	18.4	19.3
2 1	10 58.91	−29 34.3	2.073	2.752	17.2	19.1
2 11	10 53.36	−30 49.8	1.971	2.723	15.9	18.9
2 21	10 45.80	−31 35.7	1.887	2.694	14.6	18.7
3 2	10 36.95	−31 46.9	1.822	2.665	13.6	18.6
3 12	10 27.89	−31 21.8	1.779	2.637	13.3	18.5
3 22	10 19.76	−30 23.2	1.758	2.609	13.9	18.5
4 1	10 13.58	−28 57.9	1.758	2.582	15.2	18.5
330415 2007 CT_{7}			2 27.8	31°.98	1°.5/26.5	18
1 22	11 2.96	+ 8 44.7	1.615	2.434	15.8	20.9
2 1	10 59.48	+ 9 29.9	1.542	2.438	12.1	20.7
2 11	10 53.51	+10 29.0	1.490	2.443	7.7	20.5
2 21	10 45.72	+11 35.9	1.464	2.448	3.1	20.2
3 2	10 37.11	+12 42.4	1.466	2.453	2.7	20.2
3 12	10 28.91	+13 40.4	1.495	2.459	7.2	20.5
3 22	10 22.18	+14 23.9	1.549	2.464	11.6	20.7
4 1	10 17.73	+14 49.6	1.625	2.471	15.3	21.0
468187 2015 AT_{174}			2 27.8	234°.55	2°.3/25.4	17
1 22	11 4.64	+13 3.2	2.310	3.116	12.1	22.0
2 1	11 0.16	+13 47.3	2.214	3.105	9.2	21.8
2 11	10 53.70	+14 38.9	2.144	3.094	6.0	21.6
2 21	10 45.76	+15 32.8	2.102	3.082	2.9	21.4
3 2	10 37.08	+16 23.3	2.089	3.070	3.2	21.4
3 12	10 28.57	+17 4.7	2.106	3.058	6.5	21.5
3 22	10 21.09	+17 33.4	2.150	3.045	9.8	21.7
4 1	10 15.33	+17 47.3	2.219	3.031	12.9	21.9
333510 2005 MD			2 27.8	54°.73	10°.0/ 7.3	13 C
1 22	11 39.53	−26 9.2	0.818	1.497	37.6	20.7
2 1	11 26.79	−24 12.9	0.804	1.585	30.9	20.6
2 11	11 10.17	−21 11.4	0.803	1.669	23.5	20.4
2 21	10 51.88	−17 11.6	0.821	1.750	16.2	20.4
3 2	10 34.58	−12 37.2	0.865	1.828	10.8	20.4
3 12	10 20.49	− 8 2.9	0.939	1.902	10.6	20.6
3 22	10 10.67	− 3 57.3	1.040	1.972	14.1	21.1
4 1	10 5.29	− 0 35.5	1.166	2.039	18.1	21.5
86791 2000 GN_{100}			2 27.8	278°.91	2°.0/26.5	18
1 22	11 9.44	+11 32.4	1.446	2.267	17.2	19.5
2 1	11 5.00	+11 48.3	1.361	2.258	13.3	19.2
2 11	10 57.44	+12 15.0	1.296	2.248	8.7	18.9
2 21	10 47.46	+12 46.6	1.256	2.239	3.7	18.6
3 2	10 36.25	+13 15.7	1.242	2.229	3.2	18.5
3 12	10 25.37	+13 35.1	1.256	2.219	8.3	18.8
3 22	10 16.25	+13 40.1	1.293	2.210	13.3	19.1
4 1	10 9.95	+13 28.8	1.352	2.200	17.6	19.3
467871 2011 BX_{106}			2 27.8	234°.02	2°.8/29.9	17
1 22	11 7.13	+ 0 30.4	1.959	2.730	15.2	21.7
2 1	11 2.33	+ 0 7.9	1.866	2.727	12.2	21.5
2 11	10 55.25	− 0 0.3	1.795	2.724	8.6	21.2
2 21	10 46.43	+ 0 4.9	1.750	2.721	4.9	21.0
3 2	10 36.77	+ 0 21.2	1.733	2.718	2.9	20.9
3 12	10 27.34	+ 0 44.2	1.745	2.715	5.7	21.0
3 22	10 19.13	+ 1 9.0	1.784	2.711	9.5	21.2
4 1	10 12.96	+ 1 30.8	1.848	2.708	13.1	21.5
414767 2010 MC_{27}			2 27.8	202°.94	2°.5/ 1.1	18
1 22	11 7.23	− 0 51.0	2.265	3.020	13.9	21.7
2 1	11 2.15	− 0 50.2	2.163	3.015	11.1	21.5
2 11	10 55.00	− 0 34.3	2.084	3.009	7.9	21.2
2 21	10 46.31	− 0 4.6	2.032	3.002	4.4	21.0
3 2	10 36.83	+ 0 35.8	2.009	2.995	2.5	20.9
3 12	10 27.51	+ 1 22.0	2.017	2.986	5.1	21.0
3 22	10 19.22	+ 2 8.8	2.053	2.977	8.7	21.2
4 1	10 12.71	+ 2 51.3	2.116	2.967	12.0	21.4

159988 2006 DJ_5 2 27.8 307°.24 0°.7/27.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 6.10	+ 9 29.3	1.810	2.618	14.8	19.6
2 1	11 1.84	+ 9 32.2	1.713	2.603	11.5	19.4
2 11	10 55.09	+ 9 44.6	1.639	2.588	7.5	19.1
2 21	10 46.42	+10 2.8	1.590	2.573	3.1	18.8
3 2	10 36.76	+10 22.1	1.570	2.558	1.9	18.6
3 12	10 27.30	+10 37.0	1.577	2.544	6.5	18.9
3 22	10 19.13	+10 43.4	1.611	2.530	10.9	19.1
4 1	10 13.17	+10 38.7	1.668	2.516	14.8	19.3

404995 2000 QA_{210} 2 27.8 144°.00 0°.8/28.5 18

1 22	11 7.65	+ 3 5.2	2.070	2.846	14.3	22.5
2 1	11 2.45	+ 3 36.5	1.991	2.860	11.1	22.3
2 11	10 55.14	+ 4 22.6	1.935	2.873	7.4	22.1
2 21	10 46.32	+ 5 19.7	1.906	2.885	3.3	21.8
3 2	10 36.86	+ 6 22.3	1.907	2.896	1.3	21.7
3 12	10 27.75	+ 7 24.0	1.938	2.906	5.3	22.0
3 22	10 19.89	+ 8 19.1	1.997	2.916	9.2	22.2
4 1	10 13.96	+ 9 3.3	2.082	2.924	12.5	22.5

70432 1999 TO_3 2 27.8 181°.90 0°.5/28.2 18

1 22	11 6.58	+ 4 31.6	2.047	2.831	14.2	20.2
2 1	11 1.79	+ 4 56.6	1.957	2.832	11.0	20.0
2 11	10 54.82	+ 5 35.5	1.891	2.833	7.3	19.8
2 21	10 46.24	+ 6 24.8	1.852	2.833	3.2	19.5
3 2	10 36.90	+ 7 19.1	1.842	2.832	1.3	19.4
3 12	10 27.81	+ 8 12.3	1.862	2.830	5.6	19.7
3 22	10 19.92	+ 8 58.8	1.910	2.828	9.5	19.9
4 1	10 13.97	+ 9 34.7	1.982	2.826	13.0	20.1

109727 2001 RD_{58} 2 27.8 174°.51 1°.7/25.6 17

1 22	11 1.82	+11 32.8	2.676	3.477	10.8	20.4
2 1	10 57.66	+12 24.1	2.591	3.479	8.1	20.2
2 11	10 51.89	+13 22.6	2.531	3.480	5.2	20.1
2 21	10 44.97	+14 23.7	2.500	3.482	2.3	19.9
3 2	10 37.52	+15 22.5	2.500	3.482	2.5	19.9
3 12	10 30.28	+16 14.1	2.530	3.483	5.4	20.1
3 22	10 23.91	+16 54.8	2.588	3.483	8.4	20.3
4 1	10 18.97	+17 22.5	2.672	3.483	11.0	20.4

288711 2004 RG_{12} 2 27.8 121°.34 0°.2/27.6 18

1 22	11 7.62	+ 5 5.5	1.841	2.632	15.3	21.6
2 1	11 2.62	+ 5 53.6	1.772	2.651	11.7	21.4
2 11	10 55.33	+ 6 57.0	1.725	2.670	7.6	21.2
2 21	10 46.42	+ 8 10.3	1.705	2.688	3.1	20.9
3 2	10 36.85	+ 9 26.0	1.715	2.704	1.6	20.8
3 12	10 27.75	+10 36.6	1.754	2.721	6.1	21.2
3 22	10 20.07	+11 35.8	1.821	2.736	10.1	21.4
4 1	10 14.53	+12 19.9	1.912	2.751	13.6	21.7

376952 2002 EM_{162} 2 27.8 225°.50 4°.3/ 3.2 17

1 22	11 1.67	− 7 6.8	2.205	2.942	14.7	21.0
2 1	10 57.96	− 7 4.3	2.105	2.937	12.2	20.8
2 11	10 52.32	− 6 41.7	2.027	2.933	9.2	20.6
2 21	10 45.22	− 5 59.4	1.974	2.928	6.2	20.4
3 2	10 37.39	− 5 0.0	1.949	2.923	4.3	20.3
3 12	10 29.73	− 3 49.0	1.952	2.918	5.5	20.3
3 22	10 23.06	− 2 32.8	1.983	2.913	8.5	20.5
4 1	10 18.08	− 1 18.4	2.040	2.908	11.7	20.7

259942 2004 ER_{55} 2 27.8 189°.24 4°.2/23.7 18

1 22	11 8.30	+18 55.0	2.173	2.985	12.5	20.0
2 1	11 3.04	+19 50.0	2.093	2.985	9.6	19.8
2 11	10 55.59	+20 48.0	2.038	2.983	6.6	19.6
2 21	10 46.54	+21 42.4	2.010	2.981	4.4	19.5
3 2	10 36.78	+22 26.4	2.013	2.979	5.2	19.5
3 12	10 27.33	+22 54.8	2.044	2.976	8.0	19.7
3 22	10 19.14	+23 5.1	2.101	2.972	11.1	19.9
4 1	10 12.92	+22 57.3	2.182	2.968	13.9	20.1

148610 2001 RF_{98} 2 27.8 106°.71 0°.7/28.4 18

1 22	11 4.46	+ 3 47.7	1.869	2.661	15.1	20.8
2 1	11 0.27	+ 4 12.1	1.791	2.669	11.7	20.6
2 11	10 53.87	+ 4 51.9	1.735	2.677	7.8	20.4
2 21	10 45.85	+ 5 43.3	1.704	2.685	3.4	20.1
3 2	10 37.12	+ 6 40.5	1.703	2.693	1.4	20.0
3 12	10 28.75	+ 7 36.9	1.730	2.700	5.7	20.3
3 22	10 21.67	+ 8 26.3	1.784	2.708	9.8	20.6
4 1	10 16.62	+ 9 4.5	1.862	2.715	13.3	20.8

495095 2011 SR_{93} 2 27.8 180°.83 1°.5/26.7 18

1 22	11 10.92	+10 45.8	1.773	2.577	15.3	22.0
2 1	11 5.44	+11 5.9	1.690	2.578	11.7	21.8
2 11	10 57.36	+11 35.4	1.630	2.578	7.6	21.6
2 21	10 47.33	+12 9.3	1.596	2.579	3.1	21.3
3 2	10 36.42	+12 41.4	1.591	2.578	2.6	21.2
3 12	10 25.88	+13 5.7	1.615	2.577	7.0	21.5
3 22	10 16.87	+13 18.3	1.666	2.576	11.3	21.8
4 1	10 10.23	+13 17.2	1.740	2.573	15.0	22.0

70073 1999 JN_{54} 2 27.8 276°.11 2°.4/25.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 7.75	+11 56.7	1.638	2.455	15.7	19.4
2 1	11 3.55	+12 31.2	1.537	2.433	12.2	19.1
2 11	10 56.50	+13 17.3	1.458	2.410	8.0	18.8
2 21	10 47.13	+14 8.9	1.405	2.387	3.6	18.5
3 2	10 36.46	+14 58.2	1.380	2.364	3.6	18.4
3 12	10 25.87	+15 37.0	1.381	2.340	8.3	18.6
3 22	10 16.71	+15 59.9	1.408	2.317	13.0	18.8
4 1	10 10.05	+16 4.0	1.457	2.293	17.3	19.0

426556 2013 RR_{89} 2 27.8 141°.71 1°.2/28.9 16 R

1 22	11 4.23	+ 2 27.4	2.210	2.987	13.5	21.7
2 1	10 59.78	+ 2 43.2	2.125	2.994	10.6	21.5
2 11	10 53.40	+ 3 12.6	2.063	3.000	7.2	21.3
2 21	10 45.64	+ 3 52.9	2.028	3.006	3.4	21.1
3 2	10 37.25	+ 4 39.9	2.023	3.012	1.5	20.9
3 12	10 29.14	+ 5 28.3	2.047	3.017	4.9	21.2
3 22	10 22.12	+ 6 13.0	2.099	3.023	8.5	21.4
4 1	10 16.82	+ 6 49.8	2.177	3.027	11.7	21.6

328253 2008 FX_{111} 2 27.8 354°.57 7°.7/ 5.7 16

1 22	10 54.78	−12 8.8	1.309	2.074	21.6	20.4
2 1	10 53.87	−12 18.9	1.225	2.067	18.5	20.2
2 11	10 50.26	−11 52.5	1.159	2.062	14.8	19.9
2 21	10 44.54	−10 47.2	1.111	2.058	10.8	19.7
3 2	10 37.74	− 9 5.7	1.087	2.056	8.0	19.5
3 12	10 31.22	− 6 57.7	1.086	2.055	8.5	19.5
3 22	10 26.24	− 4 37.6	1.109	2.055	11.9	19.7
4 1	10 23.79	− 2 20.7	1.154	2.057	16.0	19.9

98276 2000 SF_{211} 2 27.8 2°.39 5°.6/23.6 18

1 22	11 3.61	+16 34.4	1.276	2.123	17.5	18.7
2 1	11 0.74	+17 51.4	1.210	2.122	13.4	18.4
2 11	10 54.74	+19 18.0	1.166	2.121	9.0	18.2
2 21	10 46.36	+20 42.8	1.145	2.122	5.8	18.0
3 2	10 36.90	+21 53.7	1.150	2.123	7.0	18.1
3 12	10 27.98	+22 40.7	1.179	2.124	11.1	18.3
3 22	10 20.99	+22 59.4	1.230	2.126	15.5	18.5
4 1	10 16.89	+22 50.3	1.300	2.129	19.3	18.8

230698 2003 UB_{72} 2 27.8 173°.82 2°.7/24.9 18

1 22	11 3.23	+13 43.9	2.220	3.032	12.3	20.8
2 1	10 59.09	+14 40.0	2.139	3.033	9.3	20.6
2 11	10 53.00	+15 43.3	2.083	3.034	6.0	20.4
2 21	10 45.48	+16 47.9	2.055	3.035	3.1	20.2
3 2	10 37.33	+17 47.4	2.057	3.035	3.6	20.2
3 12	10 29.45	+18 36.0	2.087	3.035	6.8	20.4
3 22	10 22.65	+19 9.9	2.145	3.036	10.0	20.6
4 1	10 17.61	+19 27.5	2.226	3.035	12.9	20.8

430744 2004 JG_{42} 2 27.8 276°.86 0°.9/26.6 16

1 22	11 0.76	+ 7 17.7	2.651	3.442	11.1	22.1
2 1	10 57.08	+ 8 17.1	2.532	3.414	8.6	21.9
2 11	10 51.70	+ 9 28.8	2.437	3.384	5.5	21.6
2 21	10 44.99	+10 48.9	2.372	3.355	2.2	21.4
3 2	10 37.54	+12 12.0	2.338	3.325	1.8	21.3
3 12	10 30.08	+13 32.0	2.334	3.294	5.3	21.5
3 22	10 23.34	+14 43.4	2.359	3.263	8.7	21.6
4 1	10 17.99	+15 42.0	2.410	3.232	11.7	21.8

519989 2013 TT_{168} 2 27.8 130°.77 5°.2/22.5 18

1 22	11 8.14	+23 10.8	2.254	3.068	12.1	21.3
2 1	11 2.76	+24 7.5	2.189	3.078	9.4	21.2
2 11	10 55.30	+25 3.2	2.149	3.088	6.8	21.0
2 21	10 46.40	+25 50.9	2.138	3.098	5.3	20.9
3 2	10 36.93	+26 24.6	2.155	3.107	6.1	21.0
3 12	10 27.90	+26 40.1	2.201	3.116	8.5	21.2
3 22	10 20.17	+26 36.5	2.272	3.124	11.1	21.3
4 1	10 14.39	+26 14.8	2.366	3.132	13.5	21.5

134857 2000 OD_{27} 2 27.8 146°.18 1°.6/29.8 18

1 22	11 2.63	+ 0 23.8	3.024	3.777	10.8	20.4
2 1	10 58.02	+ 0 31.5	2.934	3.787	8.5	20.2
2 11	10 52.01	+ 0 49.9	2.870	3.796	5.9	20.1
2 21	10 45.01	+ 1 17.5	2.833	3.805	3.2	19.9
3 2	10 37.59	+ 1 51.4	2.827	3.814	1.7	19.8
3 12	10 30.36	+ 2 28.3	2.852	3.822	3.8	19.9
3 22	10 23.91	+ 3 4.7	2.907	3.829	6.5	20.1
4 1	10 18.71	+ 3 37.3	2.989	3.836	9.0	20.3

408861 2001 SH_{269} 2 27.8 124°.17 0°.6/28.4 18

1 22	11 4.64	+ 3 58.6	1.919	2.709	14.8	21.7
2 1	11 0.38	+ 4 23.0	1.838	2.715	11.5	21.5
2 11	10 53.94	+ 5 2.4	1.780	2.722	7.6	21.3
2 21	10 45.90	+ 5 52.9	1.748	2.728	3.4	21.0
3 2	10 37.16	+ 6 49.0	1.745	2.735	1.3	20.9
3 12	10 28.75	+ 7 44.2	1.771	2.741	5.6	21.2
3 22	10 21.60	+ 8 32.7	1.824	2.746	9.6	21.4
4 1	10 16.43	+ 9 10.1	1.901	2.752	13.2	21.7

199919 2007 GJ_{27} 2 27.8 113°.39 2°.7/25.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 4.35	+13 27.4	2.043	2.856	13.2	20.4
2 1	11 0.05	+14 19.7	1.969	2.863	10.0	20.2
2 11	10 53.66	+15 19.4	1.919	2.870	6.4	20.0
2 21	10 45.77	+16 20.5	1.897	2.877	3.2	19.8
3 2	10 37.24	+17 16.0	1.904	2.884	3.7	19.8
3 12	10 29.06	+18 0.1	1.940	2.890	7.0	20.1
3 22	10 22.11	+18 29.1	2.002	2.897	10.4	20.3
4 1	10 17.07	+18 41.4	2.087	2.903	13.5	20.5

222267 2000 QB_{214} 2 27.8 153°.37 2°.6/25.6 16

1 22	11 9.92	+15 16.5	2.190	2.993	12.8	21.1
2 1	11 4.13	+15 39.4	2.111	2.999	9.7	20.9
2 11	10 56.22	+16 6.3	2.057	3.005	6.3	20.7
2 21	10 46.80	+16 32.2	2.031	3.010	3.2	20.5
3 2	10 36.76	+16 52.2	2.035	3.015	3.4	20.6
3 12	10 27.10	+17 1.9	2.068	3.019	6.6	20.8
3 22	10 18.73	+16 59.2	2.130	3.023	10.0	21.0
4 1	10 12.32	+16 43.7	2.215	3.027	12.9	21.2

307517 2003 AH_{43} 2 27.8 124°.78 4°.2/ 2.6 18

1 22	11 8.97	− 5 15.2	2.231	2.962	14.7	20.2
2 1	11 3.32	− 5 37.5	2.150	2.980	12.0	20.1
2 11	10 55.66	− 5 43.0	2.092	2.998	9.0	19.9
2 21	10 46.57	− 5 31.8	2.060	3.014	5.9	19.7
3 2	10 36.88	− 5 6.1	2.056	3.030	4.2	19.6
3 12	10 27.52	− 4 29.9	2.083	3.046	5.6	19.8
3 22	10 19.36	− 3 48.6	2.138	3.060	8.4	20.0
4 1	10 13.04	− 3 7.3	2.219	3.074	11.3	20.2

341691 2007 VT_{133} 2 27.8 127°.08 0°.1/27.8 17

1 22	11 5.23	+ 7 19.9	2.572	3.355	11.6	21.0
2 1	11 0.22	+ 7 30.6	2.490	3.366	8.9	20.8
2 11	10 53.53	+ 7 49.5	2.434	3.377	5.8	20.6
2 21	10 45.66	+ 8 13.7	2.405	3.387	2.4	20.4
3 2	10 37.31	+ 8 39.6	2.407	3.397	1.1	20.3
3 12	10 29.24	+ 9 3.4	2.440	3.406	4.6	20.6
3 22	10 22.15	+ 9 22.0	2.501	3.415	7.8	20.8
4 1	10 16.60	+ 9 33.1	2.588	3.424	10.6	21.0

468384 2016 GP_{13} 2 27.8 195°.56 2°.6/25.0 17

1 22	11 4.90	+14 16.1	2.426	3.232	11.6	22.0
2 1	11 0.23	+15 3.7	2.340	3.230	8.8	21.8
2 11	10 53.68	+15 57.3	2.278	3.227	5.7	21.6
2 21	10 45.78	+16 51.6	2.245	3.224	3.0	21.4
3 2	10 37.24	+17 41.1	2.242	3.220	3.4	21.4
3 12	10 28.93	+18 20.6	2.269	3.216	6.4	21.6
3 22	10 21.64	+18 47.0	2.323	3.211	9.5	21.8
4 1	10 16.00	+18 58.8	2.402	3.206	12.3	22.0

382261 2012 TQ_{94} 2 27.8 18°.01 4°.0/ 2.6 17 R

1 22	11 3.39	− 4 32.8	2.260	3.005	14.2	20.5
2 1	10 59.18	− 4 57.1	2.167	3.006	11.6	20.3
2 11	10 53.07	− 5 5.4	2.096	3.007	8.7	20.1
2 21	10 45.54	− 4 57.9	2.051	3.008	5.7	19.9
3 2	10 37.34	− 4 36.3	2.033	3.009	4.0	19.8
3 12	10 29.35	− 4 4.4	2.045	3.010	5.4	19.9
3 22	10 22.36	− 3 27.0	2.084	3.011	8.3	20.1
4 1	10 17.06	− 2 49.1	2.148	3.012	11.3	20.3

341563 2007 UG_{40} 2 27.8 22°.58 5°.2/22.1 18

1 22	11 2.69	+21 9.4	2.128	2.954	12.2	20.1
2 1	10 58.83	+22 24.1	2.057	2.955	9.4	19.9
2 11	10 52.90	+23 40.7	2.012	2.957	6.7	19.8
2 21	10 45.48	+24 51.6	1.994	2.958	5.2	19.7
3 2	10 37.39	+25 49.5	2.005	2.960	6.2	19.7
3 12	10 29.64	+26 28.9	2.043	2.962	8.8	19.9
3 22	10 23.08	+26 47.4	2.106	2.964	11.6	20.1
4 1	10 18.40	+26 45.1	2.190	2.966	14.2	20.3

147821 2005 ST_{170} 2 27.8 163°.98 2°.9/ 2.2 18

1 22	11 0.89	− 3 48.6	2.719	3.462	12.1	20.4
2 1	10 56.94	− 3 45.5	2.624	3.464	9.8	20.2
2 11	10 51.44	− 3 27.9	2.551	3.466	7.2	20.1
2 21	10 44.83	− 2 57.1	2.505	3.467	4.5	19.9
3 2	10 37.70	− 2 15.6	2.489	3.469	2.9	19.8
3 12	10 30.74	− 1 27.3	2.502	3.470	4.3	19.9
3 22	10 24.60	− 0 36.6	2.544	3.471	7.0	20.1
4 1	10 19.80	+ 0 11.8	2.613	3.472	9.7	20.2

109834 2001 RC_{122} 2 27.8 71°.70 1°.4/26.7 18

1 22	11 8.42	+10 3.5	1.691	2.501	15.6	20.0
2 1	11 3.32	+10 32.3	1.634	2.525	11.9	19.8
2 11	10 55.80	+11 11.1	1.599	2.549	7.6	19.6
2 21	10 46.63	+11 54.3	1.590	2.573	3.1	19.4
3 2	10 36.89	+12 35.1	1.610	2.597	2.5	19.4
3 12	10 27.79	+13 7.5	1.658	2.621	6.7	19.7
3 22	10 20.30	+13 27.6	1.732	2.644	10.7	20.0
4 1	10 15.12	+13 33.7	1.830	2.668	14.1	20.2

457715 2009 FD_{49} 2 27.8 310°.61 6°.7/20.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	10 58.08	+14 3.7	1.353	2.201	16.6	20.3
2 1	10 56.76	+16 46.8	1.257	2.172	12.7	19.9
2 11	10 52.47	+19 56.4	1.186	2.142	8.7	19.6
2 21	10 45.64	+23 18.2	1.141	2.113	6.7	19.4
3 2	10 37.21	+26 32.1	1.124	2.085	9.2	19.5
3 12	10 28.70	+29 18.6	1.133	2.056	13.8	19.6
3 22	10 21.65	+31 24.8	1.165	2.029	18.6	19.8
4 1	10 17.41	+32 46.1	1.213	2.002	22.7	20.0

265695 2005 UJ_{131} 2 27.8 141°.77 0°.8/26.8 18

1 22	11 4.13	+ 7 6.8	2.435	3.223	12.1	21.0
2 1	10 59.51	+ 8 7.0	2.356	3.236	9.2	20.8
2 11	10 53.14	+ 9 18.2	2.303	3.249	5.9	20.6
2 21	10 45.53	+10 35.7	2.278	3.261	2.3	20.4
3 2	10 37.39	+11 53.4	2.285	3.272	1.8	20.4
3 12	10 29.52	+13 5.3	2.322	3.283	5.3	20.6
3 22	10 22.66	+14 6.5	2.389	3.293	8.6	20.9
4 1	10 17.39	+14 54.1	2.480	3.302	11.4	21.1

281629 2008 UG_{291} 2 27.8 85°.15 3°.5/ 2.6 18

1 22	11 1.64	− 5 20.7	2.091	2.841	15.0	21.1
2 1	10 57.92	− 5 6.5	2.009	2.853	12.2	20.9
2 11	10 52.25	− 4 32.1	1.949	2.864	9.0	20.7
2 21	10 45.21	− 3 39.1	1.914	2.876	5.6	20.6
3 2	10 37.55	− 2 31.6	1.907	2.887	3.6	20.4
3 12	10 30.19	− 1 15.7	1.929	2.899	5.2	20.6
3 22	10 23.94	+ 0 1.4	1.979	2.910	8.5	20.8
4 1	10 19.44	+ 1 13.3	2.054	2.921	11.6	21.0

457121 2008 FS_{33} 2 27.8 344°.30 1°.2/28.7 17

1 22	10 59.99	+ 2 15.3	1.425	2.237	17.9	21.7
2 1	10 57.65	+ 2 43.3	1.342	2.231	14.1	21.5
2 11	10 52.62	+ 3 33.8	1.278	2.225	9.5	21.2
2 21	10 45.52	+ 4 42.9	1.239	2.219	4.4	20.9
3 2	10 37.37	+ 6 3.3	1.225	2.215	1.7	20.7
3 12	10 29.51	+ 7 24.8	1.237	2.211	6.8	21.0
3 22	10 23.17	+ 8 37.9	1.274	2.208	11.9	21.3
4 1	10 19.29	+ 9 35.3	1.333	2.206	16.3	21.5

150781 2001 QO_{282} 2 27.8 104°.01 5°.2/23.1 18

1 22	11 12.17	+22 43.8	2.130	2.940	12.8	19.7
2 1	11 5.77	+23 37.9	2.078	2.965	9.9	19.6
2 11	10 57.19	+24 30.2	2.051	2.990	7.0	19.5
2 21	10 47.16	+25 13.7	2.052	3.014	5.3	19.4
3 2	10 36.68	+25 42.2	2.083	3.037	6.1	19.5
3 12	10 26.82	+25 52.2	2.142	3.060	8.5	19.7
3 22	10 18.48	+25 43.1	2.227	3.083	11.2	19.9
4 1	10 12.28	+25 16.7	2.335	3.104	13.6	20.1

383693 2007 TG_{382} 2 27.8 121°.15 1°.9/ 1.1 18

1 22	10 0.89	− 1 14.9	2.518	3.278	12.5	21.4
2 1	10 57.02	− 0 47.5	2.432	3.287	9.9	21.3
2 11	10 51.52	− 0 5.1	2.369	3.296	6.9	21.1
2 21	10 44.88	+ 0 50.0	2.334	3.305	3.8	20.9
3 2	10 37.72	+ 1 53.6	2.328	3.314	1.9	20.8
3 12	10 30.80	+ 3 0.6	2.352	3.323	4.3	20.9
3 22	10 24.78	+ 4 5.6	2.405	3.331	7.4	21.2
4 1	10 20.21	+ 5 4.0	2.484	3.339	10.3	21.4

214183 2005 EC_{7} 2 27.8 298°.19 0°.3/28.1 18

1 22	11 0.89	+ 3 2.1	1.537	2.346	17.0	20.2
2 1	10 58.33	+ 3 49.6	1.439	2.327	13.4	19.9
2 11	10 53.12	+ 5 0.4	1.361	2.309	8.9	19.6
2 21	10 45.77	+ 6 30.3	1.309	2.290	3.9	19.2
3 2	10 37.24	+ 8 11.1	1.282	2.272	1.7	19.0
3 12	10 28.80	+ 9 52.0	1.284	2.254	7.1	19.3
3 22	10 21.71	+11 22.3	1.310	2.237	12.3	19.6
4 1	10 17.01	+12 34.4	1.358	2.219	16.8	19.8

138768 2000 SM_{314} 2 27.8 107°.50 4°.7/ 3.5 17

1 22	11 4.03	− 7 26.0	2.495	3.217	13.6	19.8
2 1	10 59.49	− 7 58.0	2.403	3.222	11.3	19.6
2 11	10 53.19	− 8 14.2	2.332	3.226	8.7	19.5
2 21	10 45.59	− 8 14.1	2.287	3.231	6.2	19.3
3 2	10 37.39	− 7 58.8	2.270	3.236	4.7	19.2
3 12	10 29.39	− 7 31.4	2.283	3.241	5.6	19.3
3 22	10 22.32	− 6 56.3	2.323	3.245	7.9	19.4
4 1	10 16.80	− 6 18.3	2.389	3.250	10.5	19.6

247668 2002 XE_{103} 2 27.8 142°.59 3°.2/ 2.4 18

1 22	11 2.39	− 4 26.9	2.569	3.308	12.8	20.9
2 1	10 58.16	− 4 28.0	2.477	3.314	10.4	20.7
2 11	10 52.28	− 4 13.7	2.409	3.320	7.7	20.6
2 21	10 45.21	− 3 45.2	2.367	3.326	4.9	20.4
3 2	10 37.59	− 3 4.8	2.353	3.332	3.2	20.3
3 12	10 30.18	− 2 16.7	2.370	3.337	4.6	20.4
3 22	10 23.67	− 1 25.8	2.415	3.342	7.4	20.6
4 1	10 18.62	− 0 36.6	2.487	3.347	10.1	20.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
258702 2002 GV_{40}			2 27.8 301.°48		0.°3/28.0 18	
	h m	° ′			°	m
1 22	11 4.89	+ 5 52.5	1.458	2.272	17.5	20.4
2 1	11 1.55	+ 6 2.7	1.365	2.256	13.7	20.1
2 11	10 55.30	+ 6 29.7	1.291	2.240	9.2	19.8
2 21	10 46.71	+ 7 10.0	1.242	2.224	3.9	19.5
3 2	10 36.83	+ 7 57.2	1.219	2.209	1.7	19.3
3 12	10 27.11	+ 8 43.3	1.222	2.193	7.3	19.6
3 22	10 18.93	+ 9 20.9	1.249	2.178	12.6	19.8
4 1	10 13.36	+ 9 44.8	1.299	2.164	17.2	20.1
456597 2007 EF_{82}			2 27.8 323.°02		9.°0/21.8 17	
1 22	11 12.66	+29 2.3	1.531	2.360	16.1	20.1
2 1	11 7.65	+29 49.0	1.451	2.341	13.1	19.8
2 11	10 59.27	+30 29.2	1.392	2.323	10.4	19.6
2 21	10 48.30	+30 52.1	1.357	2.306	9.0	19.5
3 2	10 36.12	+30 48.1	1.348	2.289	10.1	19.5
3 12	10 24.46	+30 12.1	1.363	2.273	13.0	19.6
3 22	10 14.84	+29 5.4	1.400	2.258	16.4	19.8
4 1	10 8.32	+27 32.9	1.458	2.244	19.7	20.0
325145 2008 ED_{157}			2 27.8 90.°89		3.°8/ 2.8 18	
1 22	11 3.35	− 6 48.7	1.857	2.605	16.7	21.3
2 1	10 59.40	− 6 16.6	1.784	2.626	13.6	21.1
2 11	10 53.29	− 5 20.0	1.731	2.646	10.0	20.9
2 21	10 45.66	− 4 1.2	1.703	2.665	6.2	20.8
3 2	10 37.40	− 2 25.8	1.704	2.685	3.8	20.7
3 12	10 29.56	− 0 42.5	1.733	2.704	5.6	20.8
3 22	10 23.02	+ 0 59.8	1.790	2.722	9.1	21.1
4 1	10 18.47	+ 2 33.0	1.873	2.740	12.5	21.3
467203 2016 EY_{137}			2 27.8 6.°15		1.°7/29.4 18	
1 22	10 59.75	− 0 28.0	1.574	2.370	17.2	21.2
2 1	10 57.18	+ 0 14.4	1.492	2.370	13.7	20.9
2 11	10 52.15	+ 1 21.1	1.431	2.371	9.4	20.7
2 21	10 45.29	+ 2 48.1	1.394	2.371	4.6	20.4
3 2	10 37.55	+ 4 27.8	1.384	2.373	1.9	20.2
3 12	10 30.12	+ 6 9.9	1.401	2.375	6.2	20.5
3 22	10 24.07	+ 7 44.5	1.444	2.377	10.8	20.8
4 1	10 20.23	+ 9 3.7	1.511	2.380	14.9	21.0
315442 2007 WJ_{15}			2 27.8 70.°97		2.°2/26.0 18	
1 22	11 6.92	+10 27.0	1.501	2.322	16.7	21.1
2 1	11 2.55	+11 18.9	1.444	2.341	12.7	20.9
2 11	10 55.51	+12 22.9	1.408	2.361	8.1	20.7
2 21	10 46.60	+13 31.4	1.398	2.381	3.4	20.4
3 2	10 36.99	+14 35.4	1.416	2.401	3.4	20.5
3 12	10 28.03	+15 26.8	1.460	2.420	7.8	20.8
3 22	10 20.80	+16 0.9	1.530	2.440	12.1	21.1
4 1	10 16.07	+16 15.8	1.622	2.459	15.7	21.4
249445 2009 FE_{68}			2 27.8 253.°21		1.°1/26.5 17	
1 22	11 1.47	+ 9 46.1	2.683	3.480	10.9	21.1
2 1	10 57.50	+10 22.3	2.582	3.467	8.3	20.9
2 11	10 51.90	+11 6.7	2.506	3.454	5.3	20.7
2 21	10 45.09	+11 55.6	2.459	3.441	2.2	20.5
3 2	10 37.67	+12 44.6	2.442	3.428	1.9	20.4
3 12	10 30.38	+13 28.8	2.455	3.415	5.1	20.6
3 22	10 23.90	+14 4.7	2.496	3.401	8.2	20.8
4 1	10 18.82	+14 29.6	2.563	3.387	11.0	21.0
224385 2005 UY_{199}			2 27.8 157.°60		0.°7/28.4 18	
1 22	11 4.33	+ 3 46.2	2.094	2.879	13.9	21.3
2 1	11 0.02	+ 4 12.6	2.008	2.883	10.8	21.1
2 11	10 53.68	+ 4 53.1	1.946	2.887	7.2	20.9
2 21	10 45.85	+ 5 44.2	1.910	2.890	3.2	20.6
3 2	10 37.34	+ 6 40.9	1.903	2.893	1.3	20.5
3 12	10 29.10	+ 7 37.0	1.926	2.896	5.3	20.8
3 22	10 21.99	+ 8 27.0	1.977	2.898	9.1	21.0
4 1	10 16.71	+ 9 6.8	2.053	2.901	12.4	21.2
482439 2012 DM_{8}			2 27.8 103.°08		0.°2/27.8 16	
1 22	11 25.76	+11 7.6	1.142	1.950	21.7	20.7
2 1	11 17.94	+10 19.7	1.077	1.965	16.9	20.4
2 11	11 6.01	+ 9 39.2	1.031	1.979	11.1	20.1
2 21	10 51.05	+ 9 2.5	1.010	1.992	4.6	19.8
3 2	10 34.95	+ 8 26.0	1.016	2.006	2.2	19.7
3 12	10 19.96	+ 7 46.7	1.049	2.018	8.6	20.1
3 22	10 7.86	+ 7 3.3	1.108	2.031	14.4	20.5
4 1	9 59.72	+ 6 15.3	1.187	2.043	19.1	20.8
435934 2009 BT_{168}			2 27.8 44.°07		2.°8/ 1.5 18	
1 22	11 2.12	− 1 32.9	1.962	2.733	15.2	21.1
2 1	10 58.38	− 1 33.0	1.887	2.747	12.1	20.9
2 11	10 52.61	− 1 15.7	1.833	2.761	8.6	20.7
2 21	10 45.40	− 0 42.8	1.805	2.775	4.9	20.5
3 2	10 37.58	+ 0 1.9	1.805	2.789	2.8	20.4
3 12	10 30.11	+ 0 52.5	1.832	2.804	5.2	20.6
3 22	10 23.85	+ 1 43.1	1.887	2.819	8.8	20.8
4 1	10 19.43	+ 2 28.4	1.967	2.835	12.1	21.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
499192 2009 SR_{350}			2 27.8 162.°40		2.°0/25.6 17	
	h m	° ′			°	m
1 22	11 5.73	+12 21.3	2.478	3.277	11.6	22.6
2 1	11 0.77	+13 9.5	2.397	3.284	8.8	22.4
2 11	10 54.00	+14 4.6	2.341	3.290	5.6	22.2
2 21	10 45.94	+15 1.7	2.315	3.295	2.6	22.0
3 2	10 37.32	+15 55.1	2.318	3.300	2.8	22.0
3 12	10 28.97	+16 40.0	2.353	3.304	5.9	22.2
3 22	10 21.64	+17 12.9	2.415	3.308	9.0	22.4
4 1	10 15.93	+17 32.1	2.502	3.311	11.7	22.6
473841 2016 EO_{126}			2 27.8 130.°68		0.°6/28.4 18	
1 22	11 5.19	+ 4 8.7	2.017	2.803	14.3	21.6
2 1	11 0.72	+ 4 30.8	1.936	2.811	11.1	21.4
2 11	10 54.14	+ 5 6.8	1.878	2.819	7.4	21.2
2 21	10 46.05	+ 5 53.1	1.847	2.827	3.3	20.9
3 2	10 37.29	+ 6 44.7	1.844	2.834	1.3	20.8
3 12	10 28.85	+ 7 35.4	1.871	2.841	5.4	21.1
3 22	10 21.63	+ 8 19.9	1.926	2.848	9.3	21.3
4 1	10 16.30	+ 8 54.2	2.005	2.854	12.7	21.5
122152 2000 JA_{53}			2 27.8 291.°50		3.°6/ 1.3 17	
1 22	11 4.07	− 1 23.1	1.450	2.241	18.7	20.2
2 1	11 1.06	− 1 31.7	1.348	2.220	15.3	19.9
2 11	10 55.11	− 1 17.4	1.265	2.199	11.0	19.6
2 21	10 46.72	− 0 40.3	1.205	2.177	6.4	19.3
3 2	10 36.89	+ 0 16.1	1.170	2.156	3.6	19.1
3 12	10 27.06	+ 1 24.3	1.161	2.135	7.2	19.2
3 22	10 18.66	+ 2 34.7	1.177	2.114	12.3	19.4
4 1	10 12.88	+ 3 38.1	1.215	2.093	17.2	19.6
419917 2011 BA_{14}			2 27.8 42.°90		1.°0/28.5 18	
1 22	11 9.32	+ 6 16.1	1.576	2.378	17.0	20.3
2 1	11 4.34	+ 5 55.0	1.506	2.390	13.2	20.1
2 11	10 56.68	+ 5 46.1	1.459	2.403	8.8	19.8
2 21	10 47.13	+ 5 46.7	1.436	2.416	3.9	19.6
3 2	10 36.81	+ 5 52.9	1.441	2.430	1.6	19.4
3 12	10 27.06	+ 5 59.7	1.473	2.445	6.3	19.8
3 22	10 18.99	+ 6 3.0	1.532	2.459	10.8	20.1
4 1	10 13.40	+ 5 59.5	1.613	2.474	14.6	20.3
265712 2005 UE_{258}			2 27.8 60.°64		1.°3/28.9 18	
1 22	11 2.94	+ 1 59.6	1.790	2.581	15.7	21.1
2 1	10 59.28	+ 2 23.1	1.710	2.586	12.3	20.9
2 11	10 53.36	+ 3 4.4	1.651	2.591	8.3	20.6
2 21	10 45.77	+ 4 0.0	1.618	2.596	4.0	20.4
3 2	10 37.43	+ 5 4.0	1.612	2.602	1.6	20.2
3 12	10 29.40	+ 6 9.1	1.635	2.607	5.7	20.5
3 22	10 22.68	+ 7 8.5	1.684	2.613	9.9	20.8
4 1	10 18.01	+ 7 56.8	1.758	2.618	13.6	21.0
303344 2004 TB_{213}			2 27.8 226.°72		3.°4/24.9 18	
1 22	11 10.07	+15 2.9	1.953	2.761	13.9	21.0
2 1	11 4.83	+15 52.5	1.858	2.749	10.7	20.7
2 11	10 57.07	+16 49.5	1.787	2.736	7.0	20.5
2 21	10 47.36	+17 47.4	1.744	2.722	3.8	20.2
3 2	10 36.66	+18 38.5	1.730	2.707	4.4	20.2
3 12	10 26.14	+19 16.3	1.745	2.691	8.0	20.4
3 22	10 16.94	+19 36.6	1.787	2.675	11.9	20.6
4 1	10 9.93	+19 38.2	1.851	2.658	15.3	20.8
315924 2008 SX_{85}			2 27.8 322.°99		2.°3/ 1.5 17	
1 22	10 59.69	− 1 2.3	2.851	3.607	11.3	20.7
2 1	10 56.04	− 1 8.4	2.747	3.598	9.1	20.5
2 11	10 50.90	− 1 2.8	2.667	3.590	6.5	20.3
2 21	10 44.69	− 0 46.5	2.614	3.582	3.8	20.1
3 2	10 37.95	− 0 21.8	2.591	3.574	2.3	20.0
3 12	10 31.33	+ 0 8.3	2.597	3.566	4.1	20.1
3 22	10 25.43	+ 0 40.0	2.631	3.559	6.8	20.3
4 1	10 20.80	+ 1 9.8	2.692	3.551	9.5	20.4
453804 2011 SH_{35}			2 27.8 78.°92		1.°3/26.9 18	
1 22	11 8.61	+ 8 40.9	1.491	2.305	17.2	21.2
2 1	11 3.86	+ 9 16.7	1.432	2.325	13.1	21.0
2 11	10 56.38	+10 6.0	1.394	2.345	8.4	20.8
2 21	10 47.00	+11 2.2	1.382	2.365	3.4	20.5
3 2	10 36.90	+11 57.2	1.397	2.385	2.5	20.5
3 12	10 27.47	+12 43.2	1.439	2.404	7.3	20.8
3 22	10 19.82	+13 15.0	1.507	2.423	11.7	21.1
4 1	10 14.72	+13 30.3	1.597	2.443	15.5	21.4
431525 2007 TZ_{256}			2 27.8 134.°80		2.°9/ 2.2 17	
1 22	11 0.83	− 4 13.6	2.438	3.185	13.2	21.7
2 1	10 57.09	− 3 53.9	2.347	3.190	10.7	21.5
2 11	10 51.66	− 3 16.9	2.279	3.196	7.7	21.4
2 21	10 45.02	− 2 24.4	2.236	3.201	4.7	21.2
3 2	10 37.81	− 1 20.0	2.223	3.205	2.9	21.1
3 12	10 30.81	− 0 9.0	2.240	3.210	4.6	21.2
3 22	10 24.73	+ 1 2.8	2.285	3.215	7.6	21.4
4 1	10 20.14	+ 2 9.8	2.357	3.219	10.5	21.6

16056 1999 JN_{75} 2 27.8 356.°57 9.°3/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 2.47	−15 3.7	1.684	2.395	19.5	17.2
2 1	10 59.32	−16 3.2	1.596	2.394	17.0	17.0
2 11	10 53.64	−16 35.8	1.526	2.392	14.2	16.8
2 21	10 45.99	−16 37.6	1.476	2.391	11.4	16.6
3 2	10 37.32	−16 7.6	1.450	2.391	9.6	16.5
3 12	10 28.85	−15 9.5	1.448	2.391	9.6	16.5
3 22	10 21.73	−13 51.2	1.470	2.391	11.6	16.6
4 1	10 16.89	−12 23.0	1.515	2.392	14.5	16.8

426720 2013 TJ_{47} 2 27.8 127.°61 0.°7/27.1 17

1 22	11 4.69	+ 8 20.8	2.222	3.017	12.8	21.7
2 1	11 0.15	+ 8 51.8	2.142	3.026	9.8	21.5
2 11	10 53.68	+ 9 32.6	2.088	3.035	6.3	21.3
2 21	10 45.86	+10 18.9	2.061	3.043	2.5	21.1
3 2	10 37.45	+11 5.8	2.063	3.051	1.7	21.0
3 12	10 29.35	+11 47.7	2.095	3.059	5.5	21.3
3 22	10 22.36	+12 20.7	2.155	3.067	9.0	21.5
4 1	10 17.11	+12 42.2	2.240	3.074	12.0	21.7

18517 1996 VG_{2} 2 27.8 91.°82 0.°7/28.4 18

1 22	11 7.65	+ 3 33.0	1.664	2.456	16.6	18.4
2 1	11 2.87	+ 4 3.1	1.600	2.478	12.9	18.2
2 11	10 55.63	+ 4 50.2	1.558	2.500	8.5	18.0
2 21	10 46.69	+ 5 49.5	1.541	2.522	3.7	17.8
3 2	10 37.08	+ 6 54.1	1.553	2.543	1.5	17.7
3 12	10 28.03	+ 7 56.3	1.593	2.563	6.1	18.0
3 22	10 20.55	+ 8 49.4	1.660	2.584	10.4	18.3
4 1	10 15.37	+ 9 29.3	1.751	2.603	14.0	18.6

112474 2002 OB_{21} 2 27.8 218.°87 0.°5/28.3 18

1 22	11 6.40	+ 4 32.9	2.048	2.832	14.2	20.4
2 1	11 1.80	+ 4 54.8	1.950	2.825	11.1	20.2
2 11	10 54.99	+ 5 30.8	1.875	2.816	7.4	19.9
2 21	10 46.49	+ 6 17.5	1.826	2.807	3.2	19.7
3 2	10 37.13	+ 7 9.9	1.808	2.797	1.3	19.5
3 12	10 27.93	+ 8 1.9	1.818	2.787	5.6	19.8
3 22	10 19.88	+ 8 47.8	1.857	2.776	9.7	20.0
4 1	10 13.75	+ 9 23.3	1.920	2.765	13.3	20.2

287402 2002 VS_{103} 2 27.8 106.°65 1.°6/29.6 18

1 22	11 3.58	+ 1 1.9	2.510	3.274	12.4	21.1
2 1	10 59.02	+ 1 15.4	2.432	3.291	9.8	21.0
2 11	10 52.82	+ 1 41.7	2.378	3.309	6.7	20.8
2 21	10 45.47	+ 2 18.2	2.351	3.326	3.4	20.6
3 2	10 37.65	+ 3 1.5	2.354	3.342	1.6	20.5
3 12	10 30.12	+ 3 46.9	2.388	3.358	4.3	20.7
3 22	10 23.57	+ 4 30.2	2.450	3.374	7.4	20.9
4 1	10 18.52	+ 5 7.5	2.539	3.390	10.3	21.1

212470 2006 QU_{44} 2 27.8 257.°28 0.°1/27.9 16

1 22	11 5.05	+ 5 12.2	1.815	2.612	15.2	21.1
2 1	11 1.14	+ 5 44.5	1.714	2.597	11.9	20.9
2 11	10 54.78	+ 6 33.1	1.635	2.581	7.9	20.6
2 21	10 46.47	+ 7 34.3	1.582	2.564	3.3	20.3
3 2	10 37.12	+ 8 41.6	1.558	2.547	1.6	20.1
3 12	10 27.87	+ 9 47.3	1.562	2.530	6.4	20.4
3 22	10 19.84	+10 44.4	1.592	2.512	11.0	20.6
4 1	10 13.95	+11 27.6	1.646	2.494	15.0	20.8

425484 2010 FQ_{19} 2 27.8 52.°49 3.°8/24.4 17

1 22	11 6.31	+18 0.8	2.079	2.896	12.8	21.0
2 1	11 1.59	+18 38.0	2.004	2.899	9.8	20.8
2 11	10 54.71	+19 18.0	1.954	2.903	6.6	20.6
2 21	10 46.31	+19 54.8	1.931	2.906	4.0	20.4
3 2	10 37.27	+20 22.6	1.937	2.910	4.6	20.5
3 12	10 28.61	+20 36.6	1.972	2.913	7.6	20.6
3 22	10 21.24	+20 34.9	2.032	2.917	10.8	20.8
4 1	10 15.83	+20 17.2	2.115	2.921	13.7	21.0

120468 1991 VO_{9} 2 27.8 126.°03 0.°1/27.9 18

1 22	11 3.84	+ 5 23.9	2.047	2.840	13.9	20.8
2 1	10 59.69	+ 5 57.0	1.966	2.846	10.7	20.6
2 11	10 53.50	+ 6 43.5	1.908	2.853	7.0	20.4
2 21	10 45.83	+ 7 39.2	1.877	2.859	2.9	20.1
3 2	10 37.49	+ 8 38.5	1.876	2.865	1.3	20.0
3 12	10 29.46	+ 9 35.0	1.903	2.871	5.5	20.3
3 22	10 22.59	+10 23.4	1.958	2.877	9.3	20.6
4 1	10 17.57	+10 59.9	2.037	2.882	12.7	20.8

255867 2006 SA_{186} 2 27.8 80.°01 3.°6/25.1 18

1 22	11 8.73	+15 33.3	1.671	2.492	15.3	20.8
2 1	11 3.84	+16 13.1	1.605	2.502	11.6	20.6
2 11	10 56.35	+16 58.8	1.562	2.513	7.6	20.4
2 21	10 47.03	+17 43.2	1.546	2.524	4.1	20.2
3 2	10 36.97	+18 18.7	1.557	2.535	4.5	20.3
3 12	10 27.47	+18 39.6	1.595	2.546	8.2	20.5
3 22	10 19.61	+18 43.0	1.659	2.557	12.1	20.8
4 1	10 14.16	+18 28.9	1.746	2.568	15.4	21.0

282584 2005 EV_{145} 2 27.8 191.°16 1.°0/28.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 0.73	+ 1 26.9	2.331	3.107	12.9	21.3
2 1	10 57.14	+ 2 7.7	2.238	3.107	10.1	21.1
2 11	10 51.78	+ 3 4.0	2.169	3.106	6.8	20.9
2 21	10 45.11	+ 4 12.5	2.127	3.105	3.2	20.6
3 2	10 37.83	+ 5 28.2	2.115	3.104	1.3	20.5
3 12	10 30.74	+ 6 44.7	2.133	3.103	4.7	20.7
3 22	10 24.59	+ 7 56.1	2.179	3.102	8.3	20.9
4 1	10 19.99	+ 8 57.6	2.251	3.101	11.4	21.1

466413 2013 SA_{81} 2 27.8 69.°85 2.°8/ 1.7 18

1 22	11 0.89	− 3 40.2	1.927	2.693	15.6	21.3
2 1	10 57.61	− 3 8.4	1.841	2.697	12.6	21.1
2 11	10 52.24	− 2 14.6	1.776	2.701	9.0	20.9
2 21	10 45.34	− 1 1.3	1.736	2.705	5.2	20.7
3 2	10 37.72	+ 0 26.2	1.724	2.709	2.8	20.5
3 12	10 30.37	+ 2 0.1	1.741	2.713	5.3	20.7
3 22	10 24.17	+ 3 31.9	1.785	2.718	9.2	20.9
4 1	10 19.84	+ 4 54.6	1.855	2.722	12.7	21.2

258212 2001 SQ_{354} 2 27.8 84.°67 2.°9/25.3 18

1 22	11 7.61	+13 23.1	1.817	2.631	14.5	20.8
2 1	11 2.66	+14 14.8	1.759	2.653	11.0	20.6
2 11	10 55.41	+15 13.8	1.725	2.676	7.0	20.4
2 21	10 46.59	+16 13.2	1.717	2.697	3.5	20.3
3 2	10 37.19	+17 5.6	1.739	2.719	3.8	20.3
3 12	10 28.36	+17 44.9	1.788	2.740	7.4	20.6
3 22	10 21.03	+18 8.0	1.864	2.761	11.0	20.8
4 1	10 15.86	+18 13.9	1.963	2.782	14.1	21.1

103742 2000 CP_{112} 2 27.8 81.°17 0.°2/27.7 18

1 22	11 8.22	+ 5 33.7	1.348	2.161	18.7	20.2
2 1	11 3.89	+ 6 5.8	1.287	2.178	14.4	20.0
2 11	10 56.59	+ 6 56.3	1.246	2.195	9.4	19.7
2 21	10 47.17	+ 7 59.1	1.229	2.211	3.9	19.4
3 2	10 36.91	+ 9 5.5	1.238	2.228	1.9	19.3
3 12	10 27.30	+10 6.1	1.275	2.245	7.3	19.7
3 22	10 19.61	+10 53.6	1.336	2.261	12.2	20.0
4 1	10 14.66	+11 24.1	1.419	2.277	16.4	20.3

189799 2002 GL_{139} 2 27.8 102.°95 1.°4/29.2 18

1 22	11 3.26	+ 1 30.5	2.019	2.800	14.5	20.7
2 1	10 59.27	+ 1 52.1	1.937	2.807	11.4	20.5
2 11	10 53.24	+ 2 29.7	1.878	2.815	7.7	20.3
2 21	10 45.73	+ 3 20.3	1.845	2.822	3.8	20.0
3 2	10 37.56	+ 4 18.9	1.841	2.830	1.6	19.9
3 12	10 29.70	+ 5 19.1	1.865	2.837	5.2	20.1
3 22	10 22.99	+ 6 15.1	1.918	2.844	9.0	20.4
4 1	10 18.13	+ 7 1.9	1.994	2.851	12.4	20.6

202894 1994 WB_{5} 2 27.8 60.°90 1.°2/27.1 17

1 22	11 8.65	+ 8 2.6	1.266	2.089	19.1	21.5
2 1	11 4.25	+ 8 37.4	1.215	2.112	14.6	21.3
2 11	10 56.80	+ 9 28.0	1.183	2.136	9.3	21.0
2 21	10 47.23	+10 27.0	1.176	2.159	3.7	20.8
3 2	10 36.92	+11 25.3	1.194	2.183	2.6	20.8
3 12	10 27.43	+12 13.8	1.239	2.207	7.9	21.1
3 22	10 20.01	+12 46.6	1.308	2.230	12.7	21.5
4 1	10 15.44	+13 1.4	1.398	2.254	16.7	21.8

337527 2001 SZ_{176} 2 27.8 146.°80 2.°8/ 2.7 18

1 22	11 0.58	− 5 52.4	2.946	3.673	11.6	21.3
2 1	10 56.60	− 5 24.9	2.853	3.682	9.4	21.1
2 11	10 51.21	− 4 41.7	2.783	3.691	6.9	21.0
2 21	10 44.83	− 3 44.7	2.741	3.699	4.4	20.8
3 2	10 38.00	− 2 36.8	2.728	3.707	2.8	20.7
3 12	10 31.35	− 1 22.7	2.747	3.715	4.0	20.8
3 22	10 25.47	− 0 7.4	2.795	3.722	6.5	21.0
4 1	10 20.83	+ 1 4.4	2.871	3.728	9.0	21.2

39390 4839 $P–L$ 2 27.8 241.°76 0.°2/27.9 17

1 22	11 6.22	+ 4 53.8	1.893	2.685	14.9	20.5
2 1	11 1.95	+ 5 25.2	1.791	2.670	11.7	20.2
2 11	10 55.27	+ 6 12.6	1.711	2.655	7.8	19.9
2 21	10 46.69	+ 7 12.2	1.657	2.639	3.3	19.6
3 2	10 37.08	+ 8 18.0	1.633	2.622	1.5	19.5
3 12	10 27.58	+ 9 22.5	1.637	2.605	6.2	19.7
3 22	10 19.26	+10 19.2	1.668	2.587	10.6	19.9
4 1	10 13.02	+11 2.8	1.724	2.569	14.6	20.1

210578 1999 VN_{64} 2 27.8 79.°42 3.°1/25.4 18

1 22	11 8.15	+13 18.8	1.581	2.402	16.0	19.8
2 1	11 3.44	+14 10.8	1.523	2.421	12.1	19.6
2 11	10 56.10	+15 11.4	1.487	2.439	7.8	19.4
2 21	10 46.92	+16 12.8	1.476	2.457	3.8	19.2
3 2	10 37.06	+17 6.6	1.494	2.475	4.2	19.2
3 12	10 27.82	+17 45.7	1.539	2.493	8.1	19.5
3 22	10 20.29	+18 6.6	1.609	2.511	12.1	19.8
4 1	10 15.21	+18 8.4	1.701	2.528	15.6	20.0

171457 2007 TS_{12} 2 27.8 184°.87 0°.1/27.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 2.60	+ 6 20.9	2.644	3.428	11.3	20.8
2 1	10 58.34	+ 6 51.4	2.552	3.428	8.7	20.6
2 11	10 52.44	+ 7 31.9	2.484	3.428	5.7	20.4
2 21	10 45.37	+ 8 19.0	2.445	3.427	2.3	20.2
3 2	10 37.75	+ 9 8.5	2.437	3.426	1.2	20.1
3 12	10 30.32	+ 9 55.8	2.458	3.424	4.6	20.3
3 22	10 23.75	+10 36.8	2.509	3.423	7.8	20.5
4 1	10 18.60	+11 8.6	2.585	3.420	10.6	20.7

206225 2002 VJ_{88} 2 27.8 104°.88 3°.7/ 2.8 18

1 22	11 2.83	− 5 21.7	2.349	3.089	13.8	20.4
2 1	10 58.67	− 5 27.9	2.263	3.098	11.3	20.2
2 11	10 52.73	− 5 17.1	2.199	3.108	8.4	20.1
2 21	10 45.51	− 4 50.2	2.160	3.117	5.5	19.9
3 2	10 37.70	− 4 9.5	2.150	3.126	3.8	19.8
3 12	10 30.15	− 3 19.7	2.168	3.135	5.1	19.9
3 22	10 23.58	− 2 26.1	2.215	3.144	7.9	20.1
4 1	10 18.61	− 1 33.9	2.288	3.152	10.7	20.3

246406 2007 UO_{99} 2 27.8 122°.27 4°.4/22.8 18

1 22	11 4.35	+20 40.7	2.393	3.210	11.4	20.3
2 1	10 59.86	+21 41.5	2.324	3.217	8.7	20.2
2 11	10 53.49	+22 43.6	2.280	3.224	6.1	20.0
2 21	10 45.81	+23 40.6	2.265	3.231	4.5	19.9
3 2	10 37.57	+24 26.5	2.279	3.237	5.3	20.0
3 12	10 29.66	+24 57.0	2.321	3.244	7.7	20.1
3 22	10 22.86	+25 9.9	2.389	3.250	10.3	20.3
4 1	10 17.76	+25 5.4	2.481	3.256	12.7	20.5

437013 2012 TV_{265} 2 27.8 82°.86 5°.2/22.5 18

1 22	11 6.53	+23 44.0	2.330	3.146	11.7	21.2
2 1	11 1.51	+24 35.4	2.269	3.159	9.1	21.1
2 11	10 54.53	+25 25.0	2.233	3.171	6.6	20.9
2 21	10 46.22	+26 6.5	2.225	3.184	5.2	20.9
3 2	10 37.40	+26 34.4	2.245	3.196	6.0	21.0
3 12	10 29.03	+26 45.0	2.294	3.209	8.2	21.1
3 22	10 21.89	+26 37.5	2.369	3.221	10.7	21.3
4 1	10 16.58	+26 12.9	2.466	3.233	13.0	21.5

383746 2007 VA_{93} 2 27.8 88°.51 6°.9/ 7.3 18

1 22	11 3.60	−16 44.5	2.509	3.171	14.8	21.1
2 1	10 59.16	−17 14.3	2.431	3.194	12.9	21.0
2 11	10 52.99	−17 22.8	2.373	3.215	10.7	20.9
2 21	10 45.60	−17 8.7	2.337	3.237	8.5	20.8
3 2	10 37.69	−16 32.9	2.328	3.258	7.1	20.7
3 12	10 30.06	−15 39.0	2.346	3.279	7.1	20.8
3 22	10 23.43	−14 32.5	2.392	3.300	8.4	20.9
4 1	10 18.38	−13 19.8	2.464	3.320	10.3	21.0

258968 2002 SQ_{32} 2 27.8 39°.27 12°.3/23.3 16

1 22	11 29.24	+37 16.7	1.278	2.087	19.7	19.5
2 1	11 20.13	+37 45.8	1.242	2.109	16.6	19.4
2 11	11 6.91	+37 53.9	1.225	2.132	13.8	19.3
2 21	10 51.21	+37 28.6	1.232	2.156	12.4	19.3
3 2	10 35.28	+36 23.5	1.262	2.181	12.9	19.4
3 12	10 21.35	+34 41.4	1.318	2.206	15.0	19.6
3 22	10 10.85	+32 31.5	1.396	2.232	17.7	19.8
4 1	10 4.36	+30 4.9	1.493	2.258	20.2	20.0

498299 2007 VO_{104} 2 27.8 154°.42 3°.6/ 3.2 17

1 22	11 2.21	− 6 24.8	2.730	3.455	12.4	22.3
2 1	10 57.99	− 6 25.8	2.636	3.461	10.2	22.2
2 11	10 52.19	− 6 11.1	2.564	3.467	7.7	22.0
2 21	10 45.28	− 5 41.5	2.519	3.472	5.1	21.8
3 2	10 37.84	− 4 59.3	2.503	3.477	3.6	21.7
3 12	10 30.58	− 4 8.3	2.517	3.481	4.6	21.8
3 22	10 24.15	− 3 13.2	2.559	3.485	7.1	22.0
4 1	10 19.10	− 2 18.7	2.629	3.489	9.6	22.1

272870 2006 BS_{80} 2 27.8 173°.96 2°.0/25.9 17

1 22	11 8.19	+13 47.8	2.380	3.179	12.0	20.9
2 1	11 2.75	+14 9.4	2.295	3.181	9.1	20.7
2 11	10 55.37	+14 35.7	2.235	3.182	5.9	20.5
2 21	10 46.61	+15 2.7	2.203	3.184	2.8	20.3
3 2	10 37.23	+15 25.5	2.202	3.185	2.8	20.3
3 12	10 28.15	+15 40.2	2.231	3.185	6.0	20.5
3 22	10 20.18	+15 44.2	2.288	3.185	9.2	20.7
4 1	10 13.97	+15 36.7	2.370	3.185	12.1	20.9

499732 2011 BT_{25} 2 27.8 283°.50 0°.6/27.4 17

1 22	11 4.29	+ 7 33.2	1.839	2.644	14.7	21.6
2 1	11 0.47	+ 7 58.8	1.745	2.633	11.4	21.3
2 11	10 54.28	+ 8 37.5	1.673	2.622	7.5	21.0
2 21	10 46.28	+ 9 25.0	1.627	2.610	3.0	20.7
3 2	10 37.34	+10 15.3	1.610	2.598	1.8	20.6
3 12	10 28.60	+11 1.8	1.620	2.587	6.4	20.9
3 22	10 21.09	+11 38.7	1.657	2.576	10.7	21.1
4 1	10 15.66	+12 2.3	1.717	2.564	14.5	21.3

470914 2009 DN_{80} 2 27.8 314°.04 1°.7/26.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 6.24	+12 41.5	2.050	2.858	13.3	20.1
2 1	11 1.75	+12 47.5	1.950	2.841	10.3	19.9
2 11	10 55.00	+12 59.4	1.875	2.824	6.7	19.6
2 21	10 46.55	+13 13.3	1.826	2.808	2.9	19.3
3 2	10 37.23	+13 24.5	1.806	2.792	2.5	19.3
3 12	10 28.10	+13 28.7	1.814	2.776	6.4	19.5
3 22	10 20.12	+13 22.8	1.850	2.760	10.3	19.7
4 1	10 14.12	+13 5.4	1.910	2.745	13.7	19.9

345653 2006 TH_{31} 2 27.8 215°.09 4°.5/ 4.5 17

1 22	11 0.32	−10 17.4	2.744	3.450	12.8	21.4
2 1	10 56.63	−10 14.2	2.639	3.445	10.8	21.3
2 11	10 51.38	− 9 52.9	2.555	3.440	8.4	21.1
2 21	10 44.97	− 9 13.7	2.496	3.435	6.1	20.9
3 2	10 37.98	− 8 18.4	2.466	3.430	4.5	20.8
3 12	10 31.12	− 7 11.0	2.465	3.424	5.1	20.9
3 22	10 25.04	− 5 56.9	2.493	3.418	7.3	21.0
4 1	10 20.29	− 4 41.7	2.547	3.412	9.8	21.1

148630 2001 RU_{155} 2 27.8 42°.86 0°.7/27.2 18

1 22	11 0.45	+ 3 25.6	1.416	2.232	17.8	19.8
2 1	10 57.79	+ 4 51.1	1.358	2.252	13.6	19.6
2 11	10 52.56	+ 6 39.0	1.322	2.272	8.7	19.4
2 21	10 45.52	+ 8 40.8	1.310	2.294	3.5	19.1
3 2	10 37.76	+10 44.7	1.326	2.315	2.1	19.1
3 12	10 30.55	+12 38.2	1.370	2.338	7.2	19.5
3 22	10 24.94	+14 12.2	1.439	2.360	11.8	19.8
4 1	10 21.68	+15 21.6	1.530	2.383	15.7	20.1

7206 Shiki 2 27.8 166°.96 2°.7/24.6 18

1 22	11 2.14	+14 5.1	2.472	3.282	11.3	17.8
2 1	10 58.14	+15 8.9	2.391	3.284	8.5	17.7
2 11	10 52.40	+16 19.3	2.336	3.286	5.5	17.5
2 21	10 45.39	+17 30.6	2.310	3.288	3.0	17.3
3 2	10 37.82	+18 36.8	2.314	3.290	3.6	17.3
3 12	10 30.47	+19 32.3	2.347	3.291	6.4	17.5
3 22	10 24.07	+20 13.6	2.408	3.292	9.3	17.7
4 1	10 19.22	+20 39.0	2.492	3.293	12.0	17.9

173350 1999 XX_{154} 2 27.8 129°.42 0°.1/27.9 18

1 22	11 6.87	+ 5 3.7	2.012	2.798	14.3	20.7
2 1	11 1.99	+ 5 40.7	1.936	2.813	11.0	20.5
2 11	10 54.98	+ 6 31.3	1.885	2.828	7.2	20.3
2 21	10 46.47	+ 7 31.3	1.860	2.842	3.0	20.0
3 2	10 37.33	+ 8 34.5	1.865	2.855	1.4	19.9
3 12	10 28.57	+ 9 34.3	1.900	2.867	5.6	20.2
3 22	10 21.07	+10 25.3	1.963	2.879	9.4	20.5
4 1	10 15.52	+11 3.9	2.050	2.890	12.7	20.7

318472 2005 EA_{55} 2 27.8 59°.12 1°.0/28.6 18

1 22	11 4.14	+ 2 46.4	1.527	2.329	17.4	21.3
2 1	11 0.60	+ 3 13.6	1.452	2.335	13.6	21.0
2 11	10 54.45	+ 4 0.7	1.398	2.342	9.1	20.8
2 21	10 46.35	+ 5 3.4	1.368	2.348	4.1	20.5
3 2	10 37.37	+ 6 14.5	1.365	2.355	1.6	20.3
3 12	10 28.80	+ 7 25.0	1.389	2.361	6.5	20.7
3 22	10 21.77	+ 8 27.1	1.439	2.368	11.2	21.0
4 1	10 17.13	+ 9 14.9	1.511	2.375	15.2	21.2

423394 2005 KH_{2} 2 27.8 256°.50 1°.3/29.3 17

1 22	11 1.37	+ 1 28.0	2.480	3.251	12.4	22.1
2 1	10 57.62	+ 1 51.5	2.373	3.238	9.8	21.9
2 11	10 52.13	+ 2 28.9	2.290	3.225	6.7	21.6
2 21	10 45.32	+ 3 17.9	2.234	3.211	3.3	21.4
3 2	10 37.84	+ 4 14.7	2.208	3.197	1.4	21.2
3 12	10 30.46	+ 5 14.1	2.212	3.183	4.6	21.4
3 22	10 23.92	+ 6 11.0	2.244	3.169	8.0	21.6
4 1	10 18.85	+ 7 0.8	2.303	3.154	11.1	21.8

180025 2003 AU_{20} 2 27.8 1°.96 4°.3/24.6 18

1 22	11 4.25	+15 30.5	1.466	2.303	16.2	19.4
2 1	11 0.91	+16 24.6	1.396	2.302	12.4	19.2
2 11	10 54.76	+17 27.0	1.347	2.301	8.2	18.9
2 21	10 46.51	+18 29.3	1.323	2.302	4.6	18.7
3 2	10 37.32	+19 21.8	1.325	2.302	5.4	18.8
3 12	10 28.59	+19 56.7	1.353	2.304	9.4	19.0
3 22	10 21.54	+20 10.0	1.405	2.306	13.6	19.2
4 1	10 17.06	+20 1.1	1.477	2.308	17.3	19.5

22801 1999 NP_{39} 2 27.8 104°.71 0°.5/27.4 18

1 22	11 10.47	+ 7 40.7	1.859	2.652	15.1	19.4
2 1	11 4.78	+ 8 7.0	1.795	2.677	11.5	19.2
2 11	10 56.78	+ 8 44.6	1.754	2.700	7.4	19.0
2 21	10 47.20	+ 9 28.7	1.741	2.723	3.0	18.8
3 2	10 37.05	+10 13.3	1.756	2.745	1.7	18.7
3 12	10 27.45	+10 52.4	1.801	2.767	6.0	19.1
3 22	10 19.35	+11 21.6	1.874	2.787	10.0	19.3
4 1	10 13.43	+11 38.5	1.970	2.807	13.3	19.6

23946 Marcelleroux 2 27.8 16°.93 4°.4/23.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 1.67	+17 18.5	2.010	2.837	12.8	17.4
2 1	10 58.22	+18 39.4	1.938	2.838	9.8	17.2
2 11	10 52.67	+20 6.2	1.890	2.840	6.6	17.0
2 21	10 45.57	+21 30.9	1.869	2.841	4.5	16.9
3 2	10 37.77	+22 45.4	1.877	2.843	5.5	17.0
3 12	10 30.27	+23 43.0	1.913	2.845	8.4	17.2
3 22	10 23.97	+24 20.0	1.974	2.847	11.6	17.4
4 1	10 19.56	+24 35.5	2.057	2.850	14.4	17.6

202266 2005 AH_{69} 2 27.8 86°.34 0°.3/28.1 18

1 22	11 2.98	+ 4 50.8	2.063	2.855	13.8	20.5
2 1	10 59.05	+ 5 18.4	1.981	2.860	10.7	20.3
2 11	10 53.12	+ 5 59.4	1.923	2.866	7.1	20.1
2 21	10 45.73	+ 6 50.0	1.891	2.872	3.0	19.9
3 2	10 37.70	+ 7 45.0	1.888	2.878	1.2	19.8
3 12	10 29.96	+ 8 38.3	1.914	2.883	5.3	20.0
3 22	10 23.36	+ 9 24.5	1.968	2.889	9.1	20.3
4 1	10 18.56	+ 9 59.9	2.046	2.895	12.4	20.5

27148 1998 YT_2 2 27.8 213°.21 3°.0/24.3 18

1 22	11 2.02	+14 34.7	2.415	3.227	11.4	18.1
2 1	10 58.15	+15 42.0	2.330	3.224	8.7	17.9
2 11	10 52.47	+16 56.0	2.270	3.220	5.7	17.7
2 21	10 45.46	+18 11.1	2.239	3.216	3.2	17.5
3 2	10 37.82	+19 20.6	2.238	3.212	3.9	17.5
3 12	10 30.38	+20 18.8	2.266	3.208	6.7	17.7
3 22	10 23.89	+21 1.9	2.321	3.203	9.7	17.9
4 1	10 18.99	+21 28.1	2.400	3.198	12.5	18.1

55734 1986 WD_6 2 27.9 81°.48 8°.3/ 6.1 18

1 22	11 8.70	−13 57.5	1.803	2.503	18.7	18.4
2 1	11 3.70	−14 55.0	1.733	2.526	16.1	18.3
2 11	10 56.27	−15 27.0	1.682	2.548	13.1	18.1
2 21	10 47.06	−15 30.9	1.653	2.570	10.3	18.0
3 2	10 37.11	−15 6.9	1.649	2.592	8.5	17.9
3 12	10 27.59	−14 19.5	1.671	2.614	8.7	18.0
3 22	10 19.55	−13 16.3	1.720	2.635	10.6	18.2
4 1	10 13.76	−12 6.0	1.792	2.656	13.2	18.4

291114 2005 YS_{179} 2 27.9 1°.21 3°.1/25.6 18

1 22	10 57.14	+ 9 9.3	1.012	1.870	20.2	20.0
2 1	10 56.37	+10 20.4	0.948	1.866	15.4	19.7
2 11	10 52.29	+11 54.2	0.904	1.865	9.9	19.4
2 21	10 45.63	+13 40.2	0.881	1.865	4.3	19.1
3 2	10 37.75	+15 23.7	0.881	1.866	4.7	19.1
3 12	10 30.39	+16 49.7	0.904	1.869	10.3	19.4
3 22	10 25.07	+17 48.4	0.947	1.874	15.8	19.7
4 1	10 22.84	+18 16.0	1.009	1.880	20.5	20.0

495910 2005 TA_{118} 2 27.9 212°.13 0°.1/27.8 17

1 22	11 5.94	+ 6 14.7	2.292	3.077	12.8	22.8
2 1	11 1.23	+ 6 40.6	2.194	3.070	10.0	22.6
2 11	10 54.54	+ 7 17.9	2.120	3.063	6.5	22.4
2 21	10 46.36	+ 8 3.4	2.073	3.055	2.7	22.1
3 2	10 37.43	+ 8 52.0	2.056	3.046	1.3	22.0
3 12	10 28.67	+ 9 38.6	2.070	3.036	5.3	22.2
3 22	10 20.92	+10 18.3	2.112	3.027	9.0	22.4
4 1	10 14.89	+10 47.8	2.179	3.016	12.2	22.6

360183 2013 CS_{176} 2 27.9 343°.72 2°.2/29.2 18

1 22	11 7.40	+ 3 19.3	1.361	2.167	18.9	20.7
2 1	11 3.57	+ 2 59.5	1.280	2.164	15.0	20.4
2 11	10 56.68	+ 2 57.0	1.218	2.161	10.3	20.2
2 21	10 47.40	+ 3 10.1	1.180	2.158	5.2	19.9
3 2	10 36.94	+ 3 34.5	1.167	2.156	2.4	19.7
3 12	10 26.83	+ 4 3.3	1.180	2.154	7.1	19.9
3 22	10 18.49	+ 4 29.9	1.218	2.153	12.2	20.2
4 1	10 12.94	+ 4 48.4	1.277	2.152	16.8	20.5

205526 2001 SE_{114} 2 27.9 184°.00 2°.9/25.2 18

1 22	11 7.92	+16 58.2	2.330	3.137	12.0	19.9
2 1	11 2.63	+17 18.1	2.247	3.137	9.1	19.8
2 11	10 55.35	+17 40.5	2.189	3.136	6.0	19.6
2 21	10 46.65	+18 0.8	2.159	3.136	3.3	19.4
3 2	10 37.34	+18 14.2	2.159	3.136	3.6	19.4
3 12	10 28.36	+18 17.0	2.189	3.136	6.5	19.6
3 22	10 20.53	+18 7.5	2.246	3.136	9.7	19.8
4 1	10 14.51	+17 45.3	2.327	3.135	12.5	20.0

244029 2001 SC_{210} 2 27.9 133°.77 1°.9/25.8 17

1 22	11 4.79	+13 16.2	2.581	3.382	11.1	21.6
2 1	11 0.00	+13 47.9	2.503	3.390	8.4	21.4
2 11	10 53.52	+14 24.7	2.451	3.399	5.4	21.2
2 21	10 45.86	+15 2.5	2.427	3.407	2.5	21.1
3 2	10 37.71	+15 36.6	2.433	3.415	2.6	21.1
3 12	10 29.84	+16 3.1	2.469	3.423	5.5	21.3
3 22	10 22.95	+16 19.3	2.534	3.430	8.5	21.5
4 1	10 17.60	+16 23.9	2.623	3.437	11.1	21.7

84609 2002 VE_{36} 2 27.9 29°.86 5°.1/23.1 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 2.95	+16 16.8	1.550	2.386	15.5	19.2
2 1	10 59.78	+17 49.6	1.484	2.390	11.8	19.0
2 11	10 53.97	+19 31.3	1.441	2.394	7.9	18.7
2 21	10 46.19	+21 11.4	1.424	2.399	5.2	18.6
3 2	10 37.54	+22 38.7	1.435	2.403	6.5	18.7
3 12	10 29.32	+23 44.3	1.471	2.408	10.0	18.9
3 22	10 22.68	+24 23.6	1.531	2.414	13.8	19.1
4 1	10 18.45	+24 36.2	1.611	2.419	17.1	19.4

179903 2002 VK_7 2 27.9 77°.84 4°.4/24.2 18

1 22	11 7.12	+16 44.7	1.659	2.485	15.1	19.8
2 1	11 2.68	+17 46.5	1.597	2.497	11.5	19.6
2 11	10 55.68	+18 54.0	1.558	2.509	7.6	19.4
2 21	10 46.84	+19 58.7	1.545	2.520	4.7	19.3
3 2	10 37.27	+20 51.9	1.559	2.532	5.5	19.3
3 12	10 28.24	+21 27.1	1.601	2.544	8.9	19.6
3 22	10 20.83	+21 41.3	1.668	2.556	12.6	19.8
4 1	10 15.80	+21 34.7	1.756	2.567	15.8	20.0

346094 2007 VG_{32} 2 27.9 183°.34 4°.6/ 4.1 17

1 22	11 2.14	− 8 59.3	2.546	3.261	13.5	21.6
2 1	10 58.14	− 9 9.9	2.448	3.261	11.3	21.4
2 11	10 52.42	− 9 2.9	2.370	3.261	8.8	21.2
2 21	10 45.46	− 8 38.1	2.319	3.261	6.3	21.1
3 2	10 37.88	− 7 57.2	2.295	3.260	4.7	21.0
3 12	10 30.46	− 7 4.1	2.300	3.260	5.4	21.0
3 22	10 23.91	− 6 3.9	2.333	3.259	7.7	21.2
4 1	10 18.83	− 5 2.3	2.393	3.257	10.3	21.3

212126 2005 EJ_{217} 2 27.9 297°.81 2°.3/29.9 17

1 22	11 0.77	− 1 28.6	1.571	2.361	17.5	20.8
2 1	10 58.22	− 0 55.2	1.473	2.346	14.1	20.5
2 11	10 53.10	+ 0 4.0	1.395	2.331	9.9	20.2
2 21	10 45.93	+ 1 26.7	1.340	2.316	5.2	19.9
3 2	10 37.62	+ 3 6.7	1.313	2.301	2.3	19.7
3 12	10 29.43	+ 4 53.6	1.312	2.287	6.4	19.9
3 22	10 22.55	+ 6 36.5	1.338	2.272	11.4	20.1
4 1	10 17.98	+ 8 6.1	1.386	2.258	15.8	20.3

498603 2008 RZ_{44} 2 27.9 261°.31 1°.5/26.5 17

1 22	11 5.11	+10 44.9	2.006	2.813	13.6	21.6
2 1	11 0.81	+11 13.2	1.921	2.812	10.4	21.4
2 11	10 54.35	+11 50.4	1.861	2.811	6.7	21.2
2 21	10 46.30	+12 32.0	1.827	2.810	2.8	20.9
3 2	10 37.51	+13 12.0	1.822	2.808	2.5	20.9
3 12	10 29.01	+13 45.0	1.846	2.807	6.3	21.2
3 22	10 21.72	+14 6.8	1.897	2.806	10.1	21.4
4 1	10 16.38	+14 15.3	1.971	2.805	13.4	21.6

166104 2002 CZ_{168} 2 27.9 279°.44 3°.3/25.6 18

1 22	11 9.21	+14 27.7	1.533	2.356	16.3	19.7
2 1	11 4.74	+14 59.1	1.450	2.349	12.6	19.4
2 11	10 57.33	+15 38.7	1.389	2.341	8.2	19.1
2 21	10 47.65	+16 19.5	1.353	2.334	4.1	18.9
3 2	10 36.87	+16 53.3	1.345	2.327	4.4	18.9
3 12	10 26.45	+17 13.0	1.363	2.319	8.7	19.1
3 22	10 17.72	+17 14.8	1.406	2.312	13.2	19.3
4 1	10 11.66	+16 58.0	1.470	2.305	17.2	19.6

309317 2007 RF_{311} 2 27.9 179°.32 7°.0/20.9 18

1 22	11 11.12	+25 47.1	2.039	2.854	13.1	21.4
2 1	11 5.57	+27 14.1	1.971	2.856	10.4	21.2
2 11	10 57.51	+28 39.6	1.927	2.858	8.0	21.1
2 21	10 47.62	+29 54.1	1.911	2.858	7.0	21.0
3 2	10 36.92	+30 49.2	1.924	2.858	8.1	21.1
3 12	10 26.61	+31 19.4	1.963	2.857	10.5	21.2
3 22	10 17.78	+31 23.8	2.027	2.855	13.2	21.4
4 1	10 11.23	+31 4.2	2.112	2.853	15.7	21.6

178614 2000 EZ_{114} 2 27.9 57°.13 0°.3/28.1 18

1 22	11 6.29	+ 5 46.8	1.589	2.394	16.7	20.5
2 1	11 2.14	+ 5 59.5	1.516	2.403	12.9	20.3
2 11	10 55.40	+ 6 27.1	1.465	2.411	8.5	20.0
2 21	10 46.77	+ 7 5.5	1.438	2.420	3.6	19.8
3 2	10 37.32	+ 7 48.5	1.439	2.428	1.5	19.6
3 12	10 28.32	+ 8 29.3	1.467	2.437	6.4	20.0
3 22	10 20.88	+ 9 1.9	1.521	2.446	11.0	20.2
4 1	10 15.81	+ 9 22.4	1.597	2.456	14.8	20.5

369997 1999 TT_{23} 2 27.9 134°.58 0°.4/28.3 17

1 22	11 3.57	+ 4 8.9	2.211	2.996	13.3	21.9
2 1	10 59.37	+ 4 41.0	2.129	3.003	10.3	21.7
2 11	10 53.28	+ 5 26.3	2.069	3.011	6.8	21.5
2 21	10 45.82	+ 6 21.2	2.037	3.018	3.0	21.2
3 2	10 37.75	+ 7 20.6	2.035	3.025	1.2	21.1
3 12	10 29.96	+ 8 18.7	2.062	3.031	5.0	21.4
3 22	10 23.23	+ 9 10.2	2.118	3.037	8.7	21.6
4 1	10 18.20	+ 9 51.3	2.198	3.043	11.8	21.8

96114 5088 T_{-2} 2 27.9 262°.19 0°.6/28.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 9.57	+ 6 49.8	2.053	2.839	14.1	19.6
2 1	11 4.32	+ 6 37.6	1.950	2.826	11.0	19.4
2 11	10 56.73	+ 6 34.6	1.870	2.812	7.4	19.1
2 21	10 47.34	+ 6 38.7	1.818	2.798	3.3	18.9
3 2	10 37.02	+ 6 46.4	1.794	2.784	1.3	18.7
3 12	10 26.85	+ 6 53.9	1.801	2.770	5.6	18.9
3 22	10 17.85	+ 6 57.3	1.835	2.755	9.8	19.2
4 1	10 10.85	+ 6 54.1	1.894	2.740	13.4	19.4

292126 2006 RT_{72} 2 27.9 190°.65 0°.1/27.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.61	+ 6 40.4	2.793	3.576	10.8	21.6
2 1	10 58.29	+ 7 6.1	2.699	3.574	8.3	21.4
2 11	10 52.43	+ 7 40.7	2.630	3.573	5.4	21.2
2 21	10 45.44	+ 8 21.2	2.589	3.571	2.2	21.0
3 2	10 37.93	+ 9 4.0	2.579	3.569	1.1	20.9
3 12	10 30.59	+ 9 44.7	2.600	3.566	4.4	21.1
3 22	10 24.06	+10 19.8	2.650	3.563	7.4	21.3
4 1	10 18.88	+10 46.5	2.725	3.560	10.1	21.5

294956 2008 DB_{83} 2 27.9 252°.70 1°.4/26.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.28	+ 9 19.2	1.835	2.643	14.6	21.1
2 1	11 1.24	+ 9 55.5	1.745	2.636	11.3	20.8
2 11	10 54.80	+10 43.9	1.678	2.628	7.3	20.6
2 21	10 46.55	+11 39.3	1.638	2.620	3.0	20.3
3 2	10 37.40	+12 34.9	1.625	2.612	2.5	20.2
3 12	10 28.47	+13 23.7	1.641	2.604	6.8	20.5
3 22	10 20.83	+14 0.1	1.684	2.596	11.0	20.7
4 1	10 15.30	+14 21.2	1.749	2.588	14.7	20.9

337844 2001 VA_{84} 2 27.9 112°.44 4°.2/ 3.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.12	− 8 26.8	2.820	3.527	12.5	21.2
2 1	10 59.35	− 8 44.2	2.736	3.545	10.4	21.1
2 11	10 53.05	− 8 46.1	2.675	3.563	8.0	21.0
2 21	10 45.68	− 8 32.9	2.639	3.580	5.7	20.8
3 2	10 37.85	− 8 6.0	2.633	3.597	4.3	20.8
3 12	10 30.25	− 7 28.7	2.657	3.614	4.9	20.8
3 22	10 23.52	− 6 45.2	2.709	3.630	7.0	21.0
4 1	10 18.17	− 6 0.1	2.789	3.646	9.2	21.2

493551 2015 HC_{175} 2 27.9 332°.44 5°.5/22.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.59	+23 20.7	2.080	2.902	12.7	20.7
2 1	11 1.99	+24 5.8	2.003	2.896	9.9	20.5
2 11	10 55.13	+24 50.0	1.950	2.891	7.2	20.3
2 21	10 46.63	+25 26.3	1.924	2.886	5.6	20.2
3 2	10 37.42	+25 48.4	1.926	2.881	6.4	20.2
3 12	10 28.57	+25 51.9	1.955	2.877	9.0	20.4
3 22	10 21.03	+25 35.6	2.009	2.872	11.9	20.5
4 1	10 15.55	+25 0.5	2.085	2.868	14.6	20.7

150047 2005 YB_{17} 2 27.9 287°.61 0°.8/27.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.47	+ 7 36.4	1.832	2.639	14.7	20.5
2 1	10 59.88	+ 8 10.6	1.738	2.628	11.4	20.3
2 11	10 53.95	+ 8 58.6	1.668	2.617	7.4	20.0
2 21	10 46.22	+ 9 55.7	1.623	2.606	3.0	19.7
3 2	10 37.58	+10 55.5	1.606	2.595	2.0	19.6
3 12	10 29.12	+11 50.7	1.618	2.584	6.5	19.9
3 22	10 21.88	+12 35.1	1.656	2.573	10.8	20.1
4 1	10 16.71	+13 5.0	1.716	2.562	14.6	20.3

174127 2002 LB_{19} 2 27.9 205°.28 2°.2/25.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.52	+11 28.0	2.125	2.928	13.1	20.8
2 1	11 1.88	+12 25.1	2.034	2.922	10.0	20.6
2 11	10 55.07	+13 32.2	1.967	2.916	6.4	20.4
2 21	10 46.64	+14 43.6	1.929	2.910	3.0	20.1
3 2	10 37.40	+15 52.1	1.920	2.902	3.2	20.1
3 12	10 28.36	+16 51.1	1.941	2.894	6.8	20.4
3 22	10 20.46	+17 35.7	1.990	2.886	10.4	20.6
4 1	10 14.44	+18 3.4	2.062	2.876	13.7	20.8

42916 1999 RH_{238} 2 27.9 228°.09 3°.4/24.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.14	+13 38.1	1.827	2.644	14.3	19.7
2 1	11 1.96	+14 43.5	1.741	2.637	11.0	19.5
2 11	10 55.33	+15 59.1	1.678	2.629	7.2	19.2
2 21	10 46.80	+17 17.6	1.642	2.621	3.8	19.0
3 2	10 37.33	+18 30.1	1.634	2.612	4.5	19.0
3 12	10 28.09	+19 28.8	1.655	2.603	8.2	19.2
3 22	10 20.18	+20 8.5	1.701	2.593	12.1	19.5
4 1	10 14.46	+20 27.4	1.770	2.583	15.6	19.7

42269 2001 QB_{117} 2 27.9 114°.00 0°.9/28.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 10.79	+ 5 27.0	2.006	2.787	14.6	18.8
2 1	11 4.99	+ 5 18.3	1.929	2.801	11.3	18.6
2 11	10 56.96	+ 5 20.5	1.875	2.814	7.6	18.4
2 21	10 47.36	+ 5 31.0	1.849	2.828	3.4	18.1
3 2	10 37.11	+ 5 46.3	1.851	2.841	1.4	18.0
3 12	10 27.29	+ 6 1.8	1.884	2.854	5.4	18.3
3 22	10 18.82	+ 6 13.9	1.945	2.866	9.3	18.5
4 1	10 12.41	+ 6 19.6	2.031	2.878	12.6	18.8

491006 2011 GG_{58} 2 27.9 241°.07 3°.0/24.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 4.79	+15 29.8	2.358	3.168	11.7	21.6
2 1	11 0.38	+16 18.5	2.265	3.157	9.0	21.4
2 11	10 54.02	+17 12.8	2.196	3.145	5.9	21.2
2 21	10 46.19	+18 7.5	2.156	3.133	3.3	21.0
3 2	10 37.63	+18 56.4	2.145	3.121	3.9	21.0
3 12	10 29.25	+19 34.3	2.163	3.108	6.8	21.1
3 22	10 21.87	+19 57.8	2.209	3.095	10.0	21.3
4 1	10 16.19	+20 5.5	2.279	3.081	12.9	21.5

109961 2001 SE_{49} 2 27.9 164°.31 1°.8/25.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.86	+12 18.5	2.719	3.519	10.6	20.4
2 1	10 58.52	+13 3.3	2.635	3.523	8.1	20.2
2 11	10 52.59	+13 54.4	2.577	3.526	5.2	20.0
2 21	10 45.53	+14 47.3	2.549	3.529	2.4	19.8
3 2	10 37.96	+15 37.4	2.550	3.532	2.5	19.8
3 12	10 30.60	+16 20.2	2.582	3.535	5.4	20.0
3 22	10 24.12	+16 52.4	2.642	3.537	8.2	20.2
4 1	10 19.05	+17 12.4	2.728	3.539	10.8	20.4

107434 2001 DA_{15} 2 27.9 334°.78 0°.6/28.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.99	+ 4 41.5	1.395	2.211	18.0	19.3
2 1	11 0.16	+ 4 56.5	1.311	2.203	14.1	19.0
2 11	10 54.46	+ 5 30.5	1.247	2.196	9.4	18.7
2 21	10 46.53	+ 6 19.5	1.207	2.189	4.2	18.4
3 2	10 37.46	+ 7 16.8	1.193	2.183	1.6	18.2
3 12	10 28.68	+ 8 13.4	1.204	2.177	7.1	18.5
3 22	10 21.49	+ 9 1.3	1.240	2.172	12.3	18.8
4 1	10 16.91	+ 9 34.7	1.297	2.168	16.8	19.0

80992 2000 EK_{25} 2 27.9 211°.86 0°.6/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.36	+ 7 49.4	2.124	2.917	13.4	20.6
2 1	11 1.72	+ 8 18.3	2.030	2.912	10.4	20.4
2 11	10 54.96	+ 8 58.5	1.960	2.906	6.7	20.2
2 21	10 46.60	+ 9 45.7	1.917	2.899	2.7	19.9
3 2	10 37.45	+10 34.8	1.903	2.892	1.7	19.8
3 12	10 28.50	+11 19.7	1.919	2.884	5.8	20.1
3 22	10 20.67	+11 55.7	1.963	2.876	9.6	20.3
4 1	10 14.70	+12 19.8	2.032	2.868	13.0	20.5

522478 2016 DN_{35} 2 27.9 311°.59 0°.6/27.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.75	+ 6 24.2	1.568	2.384	16.3	21.8
2 1	10 59.01	+ 7 0.1	1.472	2.366	12.7	21.6
2 11	10 53.65	+ 7 53.8	1.398	2.349	8.4	21.3
2 21	10 46.20	+ 9 0.7	1.349	2.332	3.4	20.9
3 2	10 37.60	+10 13.2	1.326	2.315	2.0	20.8
3 12	10 29.14	+11 22.1	1.330	2.298	7.2	21.1
3 22	10 22.03	+12 19.4	1.358	2.283	12.1	21.3
4 1	10 17.27	+12 59.5	1.409	2.267	16.5	21.5

371218 2006 AH_{101} 2 27.9 133°.21 0°.7/28.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.67	+ 4 45.2	2.122	2.907	13.7	21.2
2 1	11 1.07	+ 4 55.3	2.038	2.912	10.7	21.0
2 11	10 54.45	+ 5 17.5	1.977	2.918	7.1	20.8
2 21	10 46.35	+ 5 48.9	1.943	2.923	3.2	20.6
3 2	10 37.59	+ 6 25.1	1.938	2.928	1.2	20.4
3 12	10 29.13	+ 7 1.0	1.963	2.933	5.2	20.7
3 22	10 21.81	+ 7 32.2	2.015	2.937	8.9	21.0
4 1	10 16.31	+ 7 55.1	2.092	2.941	12.2	21.2

468033 2013 PR_{73} 2 27.9 99°.76 5°.8/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.19	−10 52.6	2.183	2.891	15.6	21.4
2 1	11 0.65	−11 16.0	2.103	2.909	13.2	21.2
2 11	10 54.13	−11 18.3	2.044	2.926	10.4	21.0
2 21	10 46.21	−10 59.1	2.009	2.943	7.6	20.9
3 2	10 37.67	−10 20.0	2.001	2.960	5.9	20.8
3 12	10 29.44	− 9 25.5	2.021	2.976	6.4	20.9
3 22	10 22.35	− 8 22.0	2.069	2.992	8.7	21.1
4 1	10 17.05	− 7 16.1	2.143	3.008	11.3	21.2

432065 2008 YB_{71} 2 27.9 115°.95 2°.9/ 1.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.70	− 1 26.4	2.358	3.110	13.4	21.4
2 1	11 0.90	− 1 45.5	2.269	3.117	10.8	21.2
2 11	10 54.25	− 1 51.1	2.203	3.124	7.8	21.0
2 21	10 46.26	− 1 43.9	2.164	3.130	4.7	20.9
3 2	10 37.65	− 1 26.2	2.154	3.136	2.9	20.8
3 12	10 29.28	− 1 1.5	2.174	3.142	4.9	20.9
3 22	10 21.93	− 0 34.1	2.222	3.148	8.0	21.1
4 1	10 16.23	− 0 8.2	2.296	3.154	10.9	21.3

192639 1999 RR_{20} 2 27.9 231°.00 3°.7/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.31	− 8 43.1	2.312	3.037	14.4	20.6
2 1	10 57.76	− 8 1.5	2.203	3.028	12.0	20.4
2 11	10 52.34	− 6 56.3	2.116	3.019	9.0	20.2
2 21	10 45.52	− 5 28.6	2.054	3.010	5.9	20.0
3 2	10 37.96	− 3 42.6	2.022	3.000	3.8	19.9
3 12	10 30.53	− 1 45.2	2.021	2.990	5.1	19.9
3 22	10 24.01	+ 0 15.0	2.049	2.979	8.3	20.1
4 1	10 19.08	+ 2 9.7	2.104	2.969	11.5	20.3

417022 2005 UY_{80} 2 27.9 113°.01 7°.8/20.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 9.91	+29 7.2	2.003	2.821	13.2	20.6
2 1	11 4.59	+30 29.3	1.950	2.832	10.7	20.5
2 11	10 56.82	+31 45.6	1.921	2.844	8.6	20.4
2 21	10 47.33	+32 47.0	1.919	2.855	7.8	20.3
3 2	10 37.19	+33 26.1	1.945	2.866	8.9	20.4
3 12	10 27.61	+33 39.0	1.996	2.877	11.0	20.6
3 22	10 19.62	+33 25.8	2.071	2.887	13.4	20.8
4 1	10 13.92	+32 49.4	2.165	2.897	15.6	20.9

274307 2008 QX_{36} 2 27.9 150°.22 0°.8/28.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.51	+ 3 0.7	2.281	3.059	13.1	21.3
2 1	10 59.30	+ 3 28.6	2.194	3.065	10.2	21.1
2 11	10 53.25	+ 4 10.0	2.131	3.070	6.8	20.9
2 21	10 45.85	+ 5 1.9	2.096	3.075	3.1	20.7
3 2	10 37.84	+ 5 59.4	2.090	3.079	1.2	20.5
3 12	10 30.08	+ 6 57.1	2.114	3.084	4.8	20.8
3 22	10 23.33	+ 7 49.6	2.166	3.088	8.4	21.0
4 1	10 18.24	+ 8 32.9	2.243	3.091	11.5	21.2

156491 2002 CN_{101} 2 27.9 56°.08 1°.6/26.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.08	+10 55.4	1.814	2.626	14.7	19.9
2 1	11 1.72	+11 21.7	1.739	2.631	11.2	19.7
2 11	10 55.02	+11 57.2	1.686	2.637	7.2	19.5
2 21	10 46.63	+12 36.9	1.660	2.643	3.0	19.2
3 2	10 37.50	+13 14.6	1.662	2.649	2.6	19.2
3 12	10 28.76	+13 44.2	1.693	2.655	6.7	19.5
3 22	10 21.42	+14 1.9	1.749	2.661	10.7	19.7
4 1	10 16.21	+14 5.6	1.829	2.667	14.1	19.9

385057 2012 UR_{45} 2 27.9 30°.11 2°.6/ 1.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 0.13	− 2 23.9	2.144	2.909	14.2	20.8
2 1	10 56.86	− 2 7.2	2.057	2.914	11.4	20.6
2 11	10 51.72	− 1 32.5	1.993	2.919	8.1	20.4
2 21	10 45.24	− 0 42.1	1.955	2.924	4.7	20.2
3 2	10 38.13	+ 0 20.0	1.944	2.929	2.6	20.1
3 12	10 31.26	+ 1 27.9	1.963	2.935	4.9	20.2
3 22	10 25.41	+ 2 35.2	2.009	2.941	8.3	20.4
4 1	10 21.23	+ 3 36.3	2.080	2.947	11.5	20.6

158164 2001 QL_{73} 2 27.9 151°.03 6°.6/20.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 8.77	+21 14.7	1.926	2.746	13.6	20.0
2 1	11 3.88	+23 32.0	1.864	2.757	10.5	19.8
2 11	10 56.51	+25 53.0	1.829	2.768	7.8	19.7
2 21	10 47.28	+28 5.9	1.823	2.777	6.6	19.6
3 2	10 37.19	+29 59.4	1.847	2.786	8.0	19.7
3 12	10 27.45	+31 25.5	1.899	2.794	10.7	19.9
3 22	10 19.15	+32 21.4	1.975	2.801	13.6	20.1
4 1	10 13.10	+32 48.0	2.072	2.806	16.2	20.3

38792 2000 RA_{49} 2 27.9 147°.29 3°.3/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.03	− 5 5.5	2.432	3.168	13.5	19.7
2 1	10 59.58	− 4 58.0	2.342	3.177	11.0	19.5
2 11	10 53.38	− 4 33.4	2.275	3.186	8.1	19.4
2 21	10 45.89	− 3 53.0	2.235	3.194	5.1	19.2
3 2	10 37.84	− 2 59.8	2.223	3.202	3.3	19.1
3 12	10 30.01	− 1 58.6	2.241	3.209	4.8	19.2
3 22	10 23.14	− 0 55.0	2.288	3.216	7.7	19.4
4 1	10 17.84	+ 0 5.5	2.362	3.222	10.6	19.6

469140 2015 FA_{121} 2 27.9 214°.32 1°.1/26.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 0.84	+ 7 27.4	2.216	3.017	12.7	20.8
2 1	10 57.39	+ 8 28.5	2.129	3.016	9.7	20.6
2 11	10 52.08	+ 9 42.2	2.067	3.015	6.2	20.4
2 21	10 45.40	+11 3.5	2.032	3.015	2.5	20.1
3 2	10 38.06	+12 25.9	2.027	3.014	2.1	20.1
3 12	10 30.94	+13 42.2	2.052	3.013	5.8	20.3
3 22	10 24.81	+14 47.1	2.104	3.013	9.3	20.5
4 1	10 20.33	+15 36.7	2.181	3.012	12.4	20.7

370760 2004 RQ_{255} 2 27.9 146°.48 5°.4/21.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 7.56	+24 34.1	2.503	3.315	11.1	21.7
2 1	11 2.31	+25 47.5	2.440	3.326	8.7	21.5
2 11	10 55.13	+26 59.2	2.403	3.336	6.5	21.4
2 21	10 46.61	+28 2.6	2.395	3.346	5.4	21.4
3 2	10 37.54	+28 51.4	2.415	3.355	6.3	21.4
3 12	10 28.82	+29 21.7	2.465	3.364	8.4	21.6
3 22	10 21.25	+29 32.0	2.540	3.372	10.7	21.7
4 1	10 15.44	+29 23.4	2.637	3.379	12.9	21.9

839 Valborg 2 27.9 205°.73 0°.1/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 9.07	+ 7 26.4	2.212	2.997	13.3	15.5
2 1	11 3.69	+ 7 30.0	2.117	2.993	10.3	15.3
2 11	10 56.20	+ 7 42.9	2.045	2.988	6.8	15.0
2 21	10 47.13	+ 8 2.1	2.001	2.983	2.8	14.8
3 2	10 37.29	+ 8 23.8	1.987	2.977	1.3	14.6
3 12	10 27.67	+ 8 43.4	2.004	2.971	5.4	14.9
3 22	10 19.18	+ 8 57.5	2.049	2.964	9.1	15.1
4 1	10 12.55	+ 9 3.2	2.118	2.957	12.5	15.3

70486 1999 TV_{52} 2 27.9 163°.23 0°.1/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 6.73	+ 5 3.9	2.064	2.850	14.0	20.1
2 1	11 1.98	+ 5 42.1	1.980	2.856	10.9	19.9
2 11	10 55.10	+ 6 34.3	1.919	2.861	7.1	19.7
2 21	10 46.66	+ 7 36.2	1.885	2.866	3.0	19.5
3 2	10 37.51	+ 8 41.8	1.881	2.870	1.3	19.3
3 12	10 28.64	+ 9 44.5	1.907	2.874	5.6	19.6
3 22	10 20.96	+10 38.7	1.960	2.876	9.5	19.9
4 1	10 15.19	+11 20.3	2.039	2.879	12.9	20.1

428400 2007 TA_{3} 2 27.9 118°.22 1°.3/29.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.37	+ 2 59.4	2.372	3.144	12.8	21.3
2 1	11 0.61	+ 3 0.7	2.289	3.154	10.1	21.1
2 11	10 54.03	+ 3 13.5	2.229	3.163	6.8	21.0
2 21	10 46.17	+ 3 35.6	2.196	3.173	3.3	20.7
3 2	10 37.75	+ 4 3.8	2.193	3.182	1.5	20.6
3 12	10 29.60	+ 4 33.8	2.220	3.190	4.6	20.8
3 22	10 22.49	+ 5 1.6	2.276	3.199	8.0	21.1
4 1	10 17.00	+ 5 23.9	2.357	3.207	11.0	21.3

368613 2004 RD_{309} 2 27.9 87°.66 0°.9/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.54	+ 6 55.0	2.034	2.831	13.8	21.6
2 1	11 0.16	+ 7 51.5	1.970	2.854	10.5	21.4
2 11	10 53.80	+ 9 0.3	1.930	2.878	6.7	21.2
2 21	10 46.07	+10 15.8	1.918	2.901	2.7	21.0
3 2	10 37.82	+11 31.1	1.935	2.923	1.9	21.0
3 12	10 29.98	+12 39.3	1.982	2.946	5.8	21.3
3 22	10 23.38	+13 35.4	2.057	2.968	9.4	21.6
4 1	10 18.63	+14 16.4	2.156	2.989	12.5	21.8

278585 2008 KM_{26} 2 27.9 128°.53 2°.8/24.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.06	+13 25.8	2.227	3.035	12.4	21.2
2 1	11 0.52	+14 35.9	2.158	3.049	9.4	21.0
2 11	10 54.04	+15 53.2	2.113	3.063	6.0	20.8
2 21	10 46.19	+17 11.4	2.097	3.075	3.2	20.7
3 2	10 37.76	+18 23.4	2.111	3.088	3.7	20.7
3 12	10 29.66	+19 23.2	2.154	3.100	6.8	20.9
3 22	10 22.70	+20 6.9	2.225	3.111	10.0	21.1
4 1	10 17.51	+20 33.1	2.320	3.122	12.7	21.4

341580 2007 UE_{77} 2 27.9 130°.92 0°.1/28.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.50	+ 5 48.7	2.644	3.424	11.4	22.1
2 1	10 59.00	+ 6 12.9	2.562	3.435	8.8	21.9
2 11	10 52.90	+ 6 46.8	2.505	3.446	5.8	21.7
2 21	10 45.69	+ 7 27.1	2.476	3.457	2.4	21.5
3 2	10 37.99	+ 8 10.0	2.477	3.467	1.0	21.4
3 12	10 30.55	+ 8 51.1	2.509	3.476	4.4	21.7
3 22	10 24.01	+ 9 26.7	2.570	3.486	7.5	21.9
4 1	10 18.90	+ 9 54.0	2.657	3.495	10.2	22.1

20449 1999 JM_{108} 2 27.9 138°.59 0°.4/28.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 8.62	+ 4 27.7	1.981	2.763	14.7	19.4
2 1	11 3.42	+ 4 54.3	1.904	2.777	11.4	19.2
2 11	10 56.02	+ 5 34.9	1.849	2.790	7.5	19.0
2 21	10 47.04	+ 6 25.5	1.822	2.802	3.3	18.8
3 2	10 37.38	+ 7 20.5	1.824	2.814	1.3	18.6
3 12	10 28.10	+ 8 13.7	1.856	2.825	5.5	18.9
3 22	10 20.13	+ 8 59.5	1.916	2.835	9.5	19.2
4 1	10 14.17	+ 9 34.3	2.000	2.844	12.9	19.4

461062 2014 YG_{17} 2 27.9 193°.50 5°.9/21.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 7.23	+22 43.0	2.050	2.871	12.8	20.9
2 1	11 2.57	+24 1.3	1.977	2.870	10.0	20.7
2 11	10 55.59	+25 20.6	1.929	2.868	7.3	20.5
2 21	10 46.90	+26 32.6	1.907	2.866	5.9	20.5
3 2	10 37.43	+27 29.2	1.915	2.864	7.0	20.5
3 12	10 28.29	+28 4.7	1.949	2.861	9.6	20.7
3 22	10 20.48	+28 16.9	2.009	2.858	12.5	20.8
4 1	10 14.75	+28 6.8	2.090	2.855	15.1	21.0

253111 2002 UG_{17} 2 27.9 112°.50 0°.9/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 7.10	+ 3 1.5	1.987	2.766	14.7	21.3
2 1	11 2.21	+ 3 25.0	1.914	2.785	11.5	21.1
2 11	10 55.19	+ 4 3.2	1.864	2.802	7.7	20.9
2 21	10 46.68	+ 4 52.6	1.841	2.820	3.5	20.7
3 2	10 37.57	+ 5 47.7	1.847	2.836	1.4	20.6
3 12	10 28.85	+ 6 42.4	1.882	2.853	5.3	20.9
3 22	10 21.43	+ 7 31.0	1.946	2.868	9.1	21.1
4 1	10 15.96	+ 8 9.6	2.034	2.884	12.5	21.4

353628 2011 UU_{54} 2 27.9 12°.20 4°.1/22.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.95	+21 6.1	2.591	3.407	10.6	20.1
2 1	10 58.75	+21 55.1	2.515	3.408	8.2	19.9
2 11	10 52.83	+22 44.7	2.465	3.409	5.7	19.8
2 21	10 45.69	+23 29.7	2.443	3.409	4.2	19.7
3 2	10 38.02	+24 4.8	2.451	3.410	4.9	19.7
3 12	10 30.62	+24 26.1	2.486	3.411	7.2	19.9
3 22	10 24.20	+24 31.9	2.549	3.412	9.7	20.0
4 1	10 19.33	+24 21.9	2.634	3.413	12.0	20.2

343945 2011 KG_{25} 2 27.9 196°.14 1°.3/26.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 3.49	+ 9 59.5	2.374	3.174	12.0	21.3
2 1	10 59.30	+10 37.8	2.286	3.172	9.2	21.1
2 11	10 53.27	+11 24.8	2.222	3.171	5.9	20.9
2 21	10 45.91	+12 16.3	2.186	3.169	2.5	20.7
3 2	10 37.92	+13 7.0	2.180	3.167	2.1	20.6
3 12	10 30.15	+13 51.7	2.204	3.164	5.6	20.9
3 22	10 23.36	+14 26.4	2.256	3.162	8.9	21.1
4 1	10 18.18	+14 48.7	2.332	3.159	11.9	21.3

408422 2013 HQ_{1} 2 27.9 292°.99 3°.5/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.61	− 3 16.6	1.550	2.330	18.2	21.5
2 1	10 59.66	− 3 5.8	1.458	2.322	14.8	21.3
2 11	10 54.07	− 2 29.8	1.386	2.314	10.7	21.0
2 21	10 46.41	− 1 29.7	1.337	2.307	6.3	20.7
3 2	10 37.66	− 0 10.5	1.314	2.299	3.5	20.5
3 12	10 29.09	+ 1 19.1	1.317	2.291	6.5	20.7
3 22	10 21.92	+ 2 48.9	1.347	2.284	11.1	20.9
4 1	10 17.12	+ 4 9.7	1.399	2.276	15.4	21.2

468055 2013 RC_{67} 2 27.9 104°.37 1°.3/29.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.95	+ 1 46.7	2.039	2.818	14.4	22.1
2 1	10 59.84	+ 2 8.0	1.959	2.828	11.3	21.9
2 11	10 53.70	+ 2 44.9	1.901	2.838	7.7	21.7
2 21	10 46.10	+ 3 34.1	1.870	2.847	3.7	21.5
3 2	10 37.85	+ 4 31.0	1.868	2.857	1.5	21.3
3 12	10 29.91	+ 5 29.2	1.894	2.866	5.1	21.6
3 22	10 23.14	+ 6 22.9	1.949	2.875	8.9	21.8
4 1	10 18.19	+ 7 7.5	2.028	2.884	12.2	22.1

119819 2002 AE_{173} 2 27.9 307°.02 0°.1/27.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.48	+ 6 27.4	2.286	3.081	12.6	20.0
2 1	10 57.89	+ 6 49.6	2.188	3.070	9.7	19.8
2 11	10 52.44	+ 7 23.0	2.114	3.059	6.4	19.5
2 21	10 45.60	+ 8 4.2	2.066	3.048	2.7	19.3
3 2	10 38.06	+ 8 48.8	2.048	3.038	1.2	19.1
3 12	10 30.67	+ 9 31.6	2.059	3.027	5.1	19.4
3 22	10 24.23	+10 8.1	2.098	3.017	8.8	19.6
4 1	10 19.40	+10 34.8	2.161	3.007	12.0	19.8

12885 1998 QM_{34} 2 27.9 308°.03 1°.8/26.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.03	+ 8 58.2	1.821	2.637	14.4	18.0
2 1	10 58.08	+ 9 56.0	1.728	2.623	11.1	17.8
2 11	10 52.85	+11 8.4	1.657	2.609	7.1	17.5
2 21	10 45.85	+12 29.5	1.613	2.596	3.0	17.2
3 2	10 37.93	+13 51.5	1.596	2.582	2.9	17.2
3 12	10 30.17	+15 5.7	1.608	2.569	7.1	17.4
3 22	10 23.58	+16 5.4	1.646	2.556	11.3	17.6
4 1	10 19.02	+16 46.4	1.706	2.544	15.0	17.8

85614 1998 HR_{36} 2 27.9 349°.61 4°.5/24.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.57	+19 2.4	1.847	2.675	13.7	18.7
2 1	11 0.70	+19 41.3	1.769	2.669	10.6	18.4
2 11	10 54.45	+20 22.9	1.715	2.664	7.2	18.2
2 21	10 46.46	+21 0.6	1.686	2.660	4.7	18.1
3 2	10 37.69	+21 27.3	1.686	2.656	5.4	18.1
3 12	10 29.28	+21 37.9	1.712	2.653	8.5	18.3
3 22	10 22.24	+21 30.2	1.763	2.651	12.0	18.5
4 1	10 17.35	+21 4.2	1.836	2.649	15.1	18.7

286709 2002 GG_{61} 2 27.9 329°.45 0°.2/27.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.63	+ 5 47.6	1.324	2.148	18.4	20.4
2 1	11 0.08	+ 6 11.0	1.241	2.138	14.3	20.1
2 11	10 54.56	+ 6 54.0	1.177	2.128	9.5	19.8
2 21	10 46.68	+ 7 51.9	1.136	2.118	4.0	19.5
3 2	10 37.56	+ 8 56.6	1.120	2.110	1.9	19.3
3 12	10 28.71	+ 9 58.4	1.130	2.102	7.7	19.6
3 22	10 21.52	+10 48.6	1.163	2.094	13.0	19.9
4 1	10 17.05	+11 21.3	1.217	2.088	17.7	20.1

384168 2009 BR_{29} 2 27.9 102°.82 2°.7/24.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.48	+14 14.9	2.415	3.224	11.5	21.4
2 1	10 59.15	+15 17.3	2.349	3.241	8.7	21.2
2 11	10 53.08	+16 25.2	2.308	3.258	5.6	21.0
2 21	10 45.79	+17 33.0	2.296	3.274	3.0	20.9
3 2	10 38.02	+18 34.8	2.314	3.290	3.6	20.9
3 12	10 30.57	+19 25.2	2.362	3.306	6.3	21.1
3 22	10 24.17	+20 1.3	2.437	3.322	9.2	21.4
4 1	10 19.36	+20 21.7	2.536	3.337	11.8	21.6

170110 2002 XH_{95} 2 27.9 105°.54 0°.6/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.88	+ 7 50.7	2.441	3.232	12.0	21.0
2 1	10 59.41	+ 8 23.5	2.367	3.248	9.1	20.8
2 11	10 53.22	+ 9 5.3	2.318	3.263	5.9	20.7
2 21	10 45.85	+ 9 52.4	2.297	3.279	2.4	20.4
3 2	10 38.00	+10 40.1	2.305	3.294	1.5	20.4
3 12	10 30.46	+11 23.5	2.344	3.309	4.9	20.7
3 22	10 23.93	+11 58.8	2.412	3.323	8.2	20.9
4 1	10 18.95	+12 23.6	2.504	3.337	11.0	21.1

109707 2001 RK_{44} 2 27.9 103°.55 7°.0/21.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 9.77	+26 14.1	1.964	2.784	13.4	19.5
2 1	11 4.45	+27 36.0	1.913	2.801	10.6	19.3
2 11	10 56.72	+28 54.2	1.887	2.818	8.1	19.2
2 21	10 47.34	+29 59.7	1.888	2.835	7.0	19.2
3 2	10 37.35	+30 44.9	1.917	2.852	8.1	19.3
3 12	10 27.94	+31 5.5	1.972	2.868	10.4	19.4
3 22	10 20.09	+31 1.2	2.051	2.883	12.9	19.6
4 1	10 14.51	+30 34.5	2.151	2.899	15.3	19.8

68622 2002 BQ 2 27.9 347°.84 0°.7/27.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.32	+ 5 29.1	1.378	2.199	17.9	18.9
2 1	10 59.65	+ 6 18.5	1.299	2.196	13.9	18.7
2 11	10 54.15	+ 7 29.0	1.242	2.193	9.1	18.4
2 21	10 46.46	+ 8 54.4	1.208	2.191	3.7	18.1
3 2	10 37.69	+10 25.0	1.200	2.190	2.2	17.9
3 12	10 29.27	+11 49.6	1.219	2.188	7.7	18.3
3 22	10 22.47	+12 58.9	1.262	2.187	12.8	18.6
4 1	10 18.25	+13 47.5	1.326	2.187	17.1	18.8

222628 2001 XG_{108} 2 27.9 166°.57 4°.9/ 3.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.00	− 8 53.3	2.439	3.149	14.1	20.6
2 1	11 1.18	− 9 12.0	2.343	3.154	11.8	20.5
2 11	10 54.50	− 9 12.9	2.270	3.159	9.2	20.3
2 21	10 46.44	− 8 55.4	2.221	3.162	6.6	20.1
3 2	10 37.72	− 8 21.2	2.201	3.166	4.9	20.0
3 12	10 29.18	− 7 34.0	2.210	3.168	5.7	20.1
3 22	10 21.62	− 6 39.0	2.248	3.170	8.1	20.2
4 1	10 15.68	− 5 42.1	2.312	3.172	10.8	20.4

9125 1998 FT_{62} 2 27.9 109°.23 0°.4/28.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 10.90	+ 4 53.6	1.487	2.286	17.9	18.2
2 1	11 5.79	+ 5 16.7	1.421	2.303	13.9	18.0
2 11	10 57.86	+ 5 57.0	1.376	2.321	9.2	17.7
2 21	10 47.89	+ 6 49.4	1.356	2.337	3.9	17.5
3 2	10 37.10	+ 7 46.8	1.363	2.353	1.6	17.3
3 12	10 26.90	+ 8 40.6	1.399	2.369	6.8	17.7
3 22	10 18.51	+ 9 24.5	1.460	2.384	11.5	18.0
4 1	10 12.76	+ 9 54.1	1.544	2.398	15.5	18.3

349930 2009 XH_{17} 2 27.9 128°.69 0°.8/28.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 11.53	+ 3 25.2	1.773	2.553	16.2	22.3
2 1	11 5.85	+ 3 49.6	1.701	2.572	12.6	22.1
2 11	10 57.70	+ 4 30.1	1.652	2.591	8.4	21.8
2 21	10 47.79	+ 5 22.6	1.629	2.609	3.8	21.6
3 2	10 37.15	+ 6 20.9	1.635	2.625	1.4	21.5
3 12	10 27.02	+ 7 17.8	1.671	2.641	5.9	21.8
3 22	10 18.43	+ 8 7.2	1.735	2.655	10.2	22.1
4 1	10 12.13	+ 8 44.7	1.822	2.669	13.8	22.3

227846 2007 DQ_{31} 2 27.9 200°.98 0°.5/27.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.41	+ 6 59.2	2.047	2.844	13.8	21.0
2 1	11 0.31	+ 7 34.4	1.958	2.842	10.6	20.8
2 11	10 54.10	+ 8 22.3	1.894	2.840	6.9	20.6
2 21	10 46.32	+ 9 18.3	1.855	2.838	2.8	20.3
3 2	10 37.80	+10 16.7	1.847	2.835	1.6	20.2
3 12	10 29.51	+11 11.1	1.867	2.833	5.8	20.5
3 22	10 22.36	+11 56.2	1.914	2.830	9.7	20.7
4 1	10 17.07	+12 28.5	1.986	2.827	13.1	20.9

72418 2001 CO_{33} 2 27.9 306°.33 6°.7/22.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 8.81	+24 49.9	1.836	2.661	13.9	19.0
2 1	11 4.17	+25 42.8	1.755	2.648	11.1	18.8
2 11	10 56.85	+26 34.4	1.697	2.635	8.3	18.6
2 21	10 47.53	+27 16.0	1.664	2.622	6.7	18.5
3 2	10 37.25	+27 39.6	1.659	2.609	7.7	18.5
3 12	10 27.33	+27 39.9	1.680	2.597	10.5	18.7
3 22	10 18.94	+27 15.9	1.725	2.584	13.7	18.8
4 1	10 12.94	+26 29.4	1.790	2.573	16.7	19.0

116975 2004 HC_{25} 2 27.9 256°.95 0°.2/27.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.90	+ 6 25.0	2.483	3.272	11.8	20.5
2 1	10 58.06	+ 6 54.1	2.384	3.263	9.2	20.3
2 11	10 52.49	+ 7 33.9	2.309	3.253	6.0	20.0
2 21	10 45.62	+ 8 21.1	2.262	3.243	2.5	19.8
3 2	10 38.11	+ 9 11.4	2.244	3.233	1.2	19.7
3 12	10 30.75	+ 9 59.5	2.256	3.223	4.9	19.9
3 22	10 24.25	+10 41.3	2.297	3.213	8.3	20.1
4 1	10 19.24	+11 13.4	2.363	3.203	11.3	20.3

233687 2008 RF_{134} 2 27.9 123°.67 0°.8/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 8.04	+ 6 3.0	1.698	2.496	16.1	20.7
2 1	11 3.33	+ 7 0.4	1.628	2.513	12.3	20.5
2 11	10 56.14	+ 8 14.1	1.581	2.528	7.9	20.3
2 21	10 47.17	+ 9 37.5	1.561	2.543	3.2	20.0
3 2	10 37.45	+11 2.2	1.569	2.558	2.0	20.0
3 12	10 28.19	+12 19.3	1.606	2.571	6.7	20.3
3 22	10 20.45	+13 22.2	1.671	2.584	11.0	20.6
4 1	10 14.99	+14 7.1	1.758	2.596	14.6	20.8

498410 2007 YZ_{63} 2 27.9 114°.82 4°.4/ 3.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 7.57	− 8 31.5	2.997	3.691	12.0	21.8
2 1	11 1.91	− 9 5.8	2.911	3.711	10.0	21.7
2 11	10 54.72	− 9 26.2	2.850	3.731	7.8	21.6
2 21	10 46.47	− 9 32.4	2.815	3.750	5.7	21.5
3 2	10 37.76	− 9 25.2	2.809	3.768	4.4	21.4
3 12	10 29.28	− 9 7.1	2.835	3.786	5.0	21.5
3 22	10 21.66	− 8 41.6	2.890	3.804	6.9	21.6
4 1	10 15.40	− 8 12.4	2.972	3.821	9.0	21.8

453372 2009 BN_{57} 2 27.9 67°.73 1°.0/27.2 18

1 22	11 9.35	+ 8 17.6	1.381	2.197	18.1	21.1
2 1	11 4.71	+ 8 45.8	1.324	2.218	13.9	20.9
2 11	10 57.17	+ 9 28.3	1.288	2.239	8.9	20.7
2 21	10 47.60	+10 18.7	1.277	2.260	3.6	20.4
3 2	10 37.29	+11 8.7	1.293	2.281	2.3	20.4
3 12	10 27.70	+11 50.5	1.335	2.302	7.4	20.8
3 22	10 20.03	+12 18.7	1.402	2.323	12.1	21.1
4 1	10 15.06	+12 30.6	1.491	2.344	16.0	21.4

357988 2006 DT_{6} 2 27.9 331°.03 4°.2/25.1 18

1 22	11 5.41	+14 28.5	1.268	2.110	17.9	20.2
2 1	11 2.42	+15 16.4	1.192	2.101	13.8	19.9
2 11	10 56.17	+16 15.5	1.136	2.092	9.1	19.6
2 21	10 47.38	+17 17.0	1.104	2.084	4.8	19.3
3 2	10 37.32	+18 10.0	1.096	2.077	5.5	19.3
3 12	10 27.66	+18 44.9	1.113	2.070	10.1	19.6
3 22	10 19.89	+18 56.6	1.153	2.064	15.0	19.8
4 1	10 15.10	+18 43.9	1.212	2.059	19.3	20.1

433581 2013 YW_{32} 2 27.9 32°.40 4°.0/24.0 18

1 22	11 4.20	+17 33.8	1.991	2.813	13.1	20.7
2 1	11 0.19	+18 28.1	1.919	2.817	10.0	20.5
2 11	10 54.01	+19 26.5	1.872	2.821	6.7	20.3
2 21	10 46.27	+20 22.4	1.851	2.825	4.2	20.2
3 2	10 37.87	+21 8.7	1.859	2.830	5.0	20.2
3 12	10 29.82	+21 39.9	1.895	2.834	8.0	20.4
3 22	10 23.05	+21 53.2	1.956	2.839	11.2	20.6
4 1	10 18.25	+21 48.2	2.039	2.844	14.1	20.8

297154 2010 UE_{60} 2 27.9 104°.42 1°.6/29.4 18

1 22	11 7.02	+ 1 24.9	1.976	2.750	15.0	20.9
2 1	11 2.17	+ 1 40.1	1.904	2.770	11.8	20.7
2 11	10 55.20	+ 2 11.1	1.854	2.789	8.0	20.5
2 21	10 46.74	+ 2 54.8	1.831	2.807	4.0	20.3
3 2	10 37.67	+ 3 46.2	1.837	2.825	1.7	20.2
3 12	10 29.02	+ 4 39.3	1.872	2.843	5.2	20.5
3 22	10 21.66	+ 5 28.4	1.935	2.860	9.0	20.7
4 1	10 16.25	+ 6 8.9	2.022	2.877	12.3	21.0

337665 2001 TN_{176} 2 27.9 110°.63 0°.5/27.4 17

1 22	11 3.64	+ 7 56.1	2.521	3.310	11.7	21.7
2 1	10 59.20	+ 8 23.5	2.443	3.323	8.9	21.5
2 11	10 53.10	+ 8 59.7	2.390	3.335	5.7	21.4
2 21	10 45.84	+ 9 40.9	2.365	3.348	2.3	21.2
3 2	10 38.08	+10 23.0	2.371	3.360	1.4	21.1
3 12	10 30.61	+11 1.3	2.406	3.371	4.8	21.4
3 22	10 24.10	+11 32.3	2.471	3.383	8.0	21.6
4 1	10 19.10	+11 53.6	2.560	3.394	10.7	21.8

458176 2010 MM_{71} 2 27.9 258°.95 2°.6/29.9 17

1 22	11 6.83	− 0 7.6	1.876	2.647	15.8	22.2
2 1	11 2.61	− 0 8.1	1.766	2.628	12.7	22.0
2 11	10 55.92	+ 0 9.1	1.677	2.608	9.0	21.7
2 21	10 47.23	+ 0 42.8	1.614	2.587	5.0	21.4
3 2	10 37.40	+ 1 29.7	1.579	2.566	2.6	21.2
3 12	10 27.57	+ 2 23.8	1.572	2.544	6.0	21.4
3 22	10 18.89	+ 3 18.3	1.593	2.522	10.3	21.6
4 1	10 12.29	+ 4 6.8	1.637	2.499	14.4	21.8

88150 2000 XZ_{3} 2 27.9 115°.69 4°.2/ 3.0 18

1 22	11 7.45	− 5 52.0	2.308	3.037	14.4	20.1
2 1	11 2.26	− 6 12.2	2.228	3.055	11.8	20.0
2 11	10 55.17	− 6 15.5	2.169	3.072	8.8	19.8
2 21	10 46.73	− 6 2.3	2.136	3.089	5.9	19.7
3 2	10 37.70	− 5 34.5	2.132	3.105	4.2	19.6
3 12	10 28.99	− 4 56.3	2.158	3.121	5.4	19.7
3 22	10 21.37	− 4 12.8	2.212	3.136	8.1	19.9
4 1	10 15.49	− 3 29.2	2.292	3.151	10.9	20.1

190148 2005 SS_{197} 2 27.9 222°.67 3°.2/25.4 18

1 22	11 9.66	+12 56.4	1.640	2.456	15.8	20.8
2 1	11 5.03	+13 49.7	1.553	2.448	12.1	20.5
2 11	10 57.57	+14 54.2	1.488	2.439	7.9	20.3
2 21	10 47.91	+16 2.5	1.450	2.430	3.9	20.0
3 2	10 37.13	+17 5.5	1.439	2.420	4.3	20.0
3 12	10 26.60	+17 54.8	1.456	2.410	8.6	20.2
3 22	10 17.60	+18 25.1	1.499	2.399	13.0	20.4
4 1	10 11.13	+18 34.4	1.563	2.387	16.8	20.7

334325 2001 WG_{102} 2 27.9 131°.27 3°.4/23.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 3.94	+17 48.5	2.528	3.340	11.0	21.1
2 1	10 59.52	+18 40.4	2.454	3.347	8.4	21.0
2 11	10 53.36	+19 35.3	2.406	3.353	5.6	20.8
2 21	10 45.97	+20 27.6	2.386	3.359	3.6	20.7
3 2	10 38.05	+21 12.2	2.396	3.365	4.2	20.7
3 12	10 30.42	+21 44.4	2.436	3.371	6.7	20.9
3 22	10 23.79	+22 2.1	2.502	3.377	9.4	21.1
4 1	10 18.73	+22 4.6	2.592	3.383	11.8	21.2

441471 2008 RS_{73} 2 27.9 61°.58 3°.0/26.9 18

1 22	11 28.27	+17 38.5	1.251	2.060	20.1	20.3
2 1	11 19.28	+17 2.7	1.198	2.086	15.5	20.0
2 11	11 6.58	+16 26.6	1.166	2.113	10.1	19.8
2 21	10 51.44	+15 44.7	1.160	2.140	4.7	19.6
3 2	10 35.73	+14 52.9	1.182	2.167	3.9	19.6
3 12	10 21.48	+13 50.6	1.233	2.194	8.8	20.0
3 22	10 10.14	+12 39.8	1.310	2.221	13.6	20.3
4 1	10 2.49	+11 23.4	1.409	2.248	17.6	20.6

214871 2007 PH_{35} 2 27.9 128°.66 0°.6/27.4 18

1 22	11 10.46	+ 8 1.0	2.007	2.796	14.3	21.1
2 1	11 4.78	+ 8 28.0	1.935	2.814	10.9	20.9
2 11	10 56.90	+ 9 5.7	1.886	2.831	7.1	20.7
2 21	10 47.46	+ 9 49.5	1.865	2.847	2.9	20.4
3 2	10 37.41	+10 33.6	1.874	2.862	1.7	20.4
3 12	10 27.79	+11 12.5	1.913	2.877	5.8	20.7
3 22	10 19.54	+11 41.9	1.979	2.891	9.6	20.9
4 1	10 13.34	+11 59.3	2.071	2.904	12.9	21.2

221311 2005 VW_{16} 2 27.9 108°.10 4°.0/ 3.3 18

1 22	11 2.52	− 7 22.5	2.018	2.758	15.8	20.2
2 1	10 58.84	− 7 0.6	1.933	2.768	13.0	20.0
2 11	10 53.12	− 6 15.6	1.870	2.779	9.7	19.8
2 21	10 45.93	− 5 9.0	1.831	2.789	6.3	19.6
3 2	10 38.07	− 3 45.2	1.821	2.799	4.1	19.5
3 12	10 30.50	− 2 11.3	1.839	2.808	5.5	19.6
3 22	10 24.07	− 0 35.5	1.885	2.818	8.7	19.8
4 1	10 19.46	+ 0 54.4	1.957	2.827	12.0	20.0

380371 2002 TM_{217} 2 27.9 170°.71 3°.6/24.2 17

1 22	11 6.59	+18 41.4	2.414	3.224	11.5	21.0
2 1	11 1.65	+19 22.3	2.335	3.226	8.8	20.8
2 11	10 54.80	+20 5.4	2.282	3.227	6.0	20.6
2 21	10 46.59	+20 45.2	2.256	3.229	3.8	20.5
3 2	10 37.80	+21 16.3	2.260	3.230	4.4	20.5
3 12	10 29.30	+21 34.7	2.294	3.230	7.0	20.7
3 22	10 21.90	+21 38.3	2.354	3.231	9.9	20.8
4 1	10 16.22	+21 26.8	2.439	3.231	12.4	21.0

268607 2006 BJ_{260} 2 27.9 250°.58 1°.1/26.8 17

1 22	11 3.04	+ 8 16.2	2.186	2.985	12.9	20.8
2 1	10 59.23	+ 9 2.1	2.089	2.975	9.9	20.6
2 11	10 53.42	+ 9 59.9	2.016	2.964	6.4	20.4
2 21	10 46.09	+11 5.0	1.970	2.952	2.6	20.1
3 2	10 38.00	+12 11.5	1.954	2.941	2.0	20.0
3 12	10 30.04	+13 12.8	1.967	2.929	5.9	20.3
3 22	10 23.10	+14 3.6	2.008	2.917	9.6	20.5
4 1	10 17.87	+14 40.4	2.073	2.905	12.9	20.7

202844 2008 TK_{7} 2 27.9 225°.12 1°.2/29.1 18

1 22	11 2.95	+ 2 1.8	2.119	2.899	13.9	20.7
2 1	10 59.15	+ 2 24.3	2.026	2.896	11.0	20.5
2 11	10 53.34	+ 3 2.1	1.956	2.893	7.5	20.3
2 21	10 46.05	+ 3 52.4	1.912	2.890	3.6	20.1
3 2	10 38.03	+ 4 50.6	1.897	2.886	1.4	19.9
3 12	10 30.21	+ 5 50.5	1.912	2.883	5.1	20.1
3 22	10 23.43	+ 6 46.3	1.954	2.880	8.9	20.4
4 1	10 18.41	+ 7 33.2	2.021	2.876	12.3	20.6

32728 4517 $T\text{-}_{3}$ 2 27.9 258°.45 0°.3/28.2 18

1 22	11 4.28	+ 3 20.7	1.559	2.362	17.1	19.8
2 1	11 0.99	+ 4 4.4	1.467	2.352	13.4	19.6
2 11	10 55.01	+ 5 9.7	1.396	2.341	9.0	19.3
2 21	10 46.89	+ 6 32.2	1.349	2.331	3.9	18.9
3 2	10 37.63	+ 8 3.9	1.330	2.320	1.6	18.8
3 12	10 28.53	+ 9 34.5	1.338	2.309	6.9	19.1
3 22	10 20.85	+10 54.5	1.372	2.297	11.9	19.3
4 1	10 15.58	+11 57.2	1.428	2.286	16.3	19.5

169245 2001 SM_{94} 2 27.9 209°.43 1°.1/28.9 17

1 22	11 4.97	+ 4 2.4	2.354	3.131	12.8	20.1
2 1	11 0.45	+ 4 1.5	2.261	3.130	10.0	19.9
2 11	10 54.07	+ 4 11.4	2.191	3.129	6.8	19.7
2 21	10 46.32	+ 4 30.1	2.149	3.127	3.2	19.5
3 2	10 37.94	+ 4 54.3	2.137	3.126	1.3	19.3
3 12	10 29.75	+ 5 19.8	2.154	3.125	4.7	19.5
3 22	10 22.57	+ 5 42.9	2.200	3.123	8.2	19.8
4 1	10 17.01	+ 6 0.2	2.271	3.122	11.3	20.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
274367 2008 RW_{72}			2 27.9 156°.11		0°.3/28.2 17	
	h m	° ′			°	m
1 22	11 5.23	+ 5 28.0	2.273	3.057	13.0	21.6
2 1	11 0.68	+ 5 47.6	2.187	3.062	10.0	21.4
2 11	10 54.22	+ 6 18.7	2.124	3.066	6.6	21.2
2 21	10 46.39	+ 6 57.9	2.089	3.070	2.8	20.9
3 2	10 37.92	+ 7 40.7	2.084	3.073	1.1	20.8
3 12	10 29.71	+ 8 22.1	2.108	3.077	5.0	21.1
3 22	10 22.56	+ 8 57.7	2.161	3.080	8.6	21.3
4 1	10 17.10	+ 9 24.3	2.239	3.082	11.7	21.5
87111 2000 LJ_{23}			2 27.9 191°.74		4°.0/ 3.4 18	
1 22	11 3.63	− 7 29.4	2.382	3.107	14.0	20.1
2 1	10 59.48	− 7 20.8	2.281	3.105	11.6	20.0
2 11	10 53.48	− 6 52.8	2.202	3.103	8.8	19.8
2 21	10 46.11	− 6 6.2	2.148	3.101	5.9	19.6
3 2	10 38.05	− 5 3.5	2.123	3.098	4.1	19.5
3 12	10 30.14	− 3 49.9	2.128	3.094	5.2	19.5
3 22	10 23.17	− 2 31.7	2.162	3.090	8.0	19.7
4 1	10 17.79	− 1 15.4	2.222	3.085	11.0	19.9
174580 2003 QR_{18}			2 27.9 239°.27		1°.2/26.9 17	
1 22	11 10.02	+ 9 48.8	1.916	2.714	14.5	20.9
2 1	11 4.97	+10 10.8	1.815	2.700	11.2	20.6
2 11	10 57.39	+10 43.2	1.737	2.685	7.3	20.4
2 21	10 47.85	+11 21.6	1.687	2.669	3.1	20.1
3 2	10 37.26	+12 0.0	1.665	2.652	2.2	20.0
3 12	10 26.79	+12 32.4	1.672	2.635	6.7	20.2
3 22	10 17.59	+12 54.1	1.707	2.618	11.0	20.4
4 1	10 10.56	+13 2.2	1.765	2.599	14.8	20.6
399586 2003 TQ_{7}			2 27.9 104°.73		4°.5/24.0 18	
1 22	11 9.41	+16 54.9	1.755	2.574	14.7	20.9
2 1	11 4.33	+18 7.0	1.697	2.593	11.2	20.7
2 11	10 56.77	+19 24.1	1.664	2.612	7.5	20.5
2 21	10 47.47	+20 37.7	1.657	2.631	4.7	20.4
3 2	10 37.51	+21 38.9	1.679	2.649	5.5	20.5
3 12	10 28.12	+22 21.4	1.728	2.666	8.8	20.7
3 22	10 20.33	+22 42.5	1.803	2.683	12.2	21.0
4 1	10 14.86	+22 42.5	1.900	2.700	15.2	21.2
1824 Haworth			2 27.9 67°.89		0°.6/27.4 18	
1 22	11 4.29	+ 8 0.5	2.029	2.830	13.7	16.0
2 1	11 0.20	+ 8 26.4	1.948	2.834	10.5	15.8
2 11	10 54.02	+ 9 3.2	1.891	2.838	6.8	15.6
2 21	10 46.34	+ 9 46.7	1.860	2.842	2.8	15.3
3 2	10 37.98	+10 31.4	1.858	2.846	1.7	15.2
3 12	10 29.92	+11 11.8	1.884	2.851	5.7	15.5
3 22	10 23.04	+11 43.1	1.938	2.855	9.5	15.7
4 1	10 18.02	+12 2.6	2.016	2.859	12.8	16.0
423259 2004 TF_{293}			2 27.9 162°.32		1°.1/26.9 17	
1 22	11 5.88	+ 9 36.4	2.247	3.044	12.7	21.9
2 1	11 1.22	+10 6.0	2.163	3.047	9.7	21.7
2 11	10 54.60	+10 44.4	2.103	3.051	6.3	21.5
2 21	10 46.57	+11 27.5	2.071	3.054	2.6	21.3
3 2	10 37.89	+12 10.1	2.069	3.056	2.0	21.2
3 12	10 29.49	+12 47.0	2.096	3.059	5.6	21.5
3 22	10 22.18	+13 14.5	2.152	3.061	9.1	21.7
4 1	10 16.62	+13 30.2	2.232	3.062	12.2	21.9
436367 2010 LP_{35}			2 27.9 195°.63		1°.7/ 1.1 17	
1 22	11 0.81	− 0 54.5	2.817	3.572	11.4	22.3
2 1	10 57.01	− 0 28.5	2.717	3.570	9.1	22.1
2 11	10 51.72	+ 0 11.0	2.642	3.568	6.4	22.0
2 21	10 45.35	+ 1 2.0	2.593	3.565	3.5	21.8
3 2	10 38.45	+ 2 1.1	2.575	3.562	1.7	21.6
3 12	10 31.68	+ 3 3.8	2.588	3.559	4.0	21.8
3 22	10 25.68	+ 4 5.2	2.630	3.556	6.9	22.0
4 1	10 20.95	+ 5 1.2	2.699	3.552	9.6	22.1
481238 2005 WG_{108}			2 27.9 162°.66		14°.5/ 8.2 18	
1 22	11 13.47	−20 49.5	1.424	2.097	24.0	20.7
2 1	11 8.72	−22 53.8	1.345	2.101	21.6	20.5
2 11	11 0.48	−24 28.0	1.280	2.105	19.0	20.3
2 21	10 49.36	−25 23.0	1.234	2.108	16.5	20.2
3 2	10 36.60	−25 32.2	1.208	2.110	14.8	20.1
3 12	10 23.97	−24 56.0	1.205	2.112	14.6	20.0
3 22	10 13.19	−23 42.5	1.222	2.113	16.0	20.1
4 1	10 5.57	−22 5.0	1.261	2.114	18.3	20.3
277023 2005 AA_{81}			2 27.9 100°.25		4°.0/23.4 18	
1 22	11 2.78	+16 15.5	2.085	2.906	12.7	20.7
2 1	10 59.08	+17 37.9	2.013	2.911	9.6	20.5
2 11	10 53.32	+19 6.7	1.965	2.915	6.4	20.3
2 21	10 46.07	+20 34.4	1.946	2.919	4.1	20.1
3 2	10 38.15	+21 53.0	1.955	2.924	5.0	20.2
3 12	10 30.51	+22 55.7	1.993	2.928	8.0	20.4
3 22	10 24.03	+23 38.7	2.057	2.932	11.1	20.6
4 1	10 19.39	+24 0.9	2.143	2.936	13.9	20.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
387184 2012 TN_{275}			2 27.9 114°.32		1°.0/26.9 14 C	
	h m	° ′			°	m
1 22	11 5.62	+10 22.7	2.547	3.340	11.5	21.5
2 1	11 0.71	+10 41.3	2.469	3.351	8.8	21.3
2 11	10 54.11	+11 6.5	2.417	3.363	5.6	21.1
2 21	10 46.32	+11 34.8	2.392	3.374	2.3	20.9
3 2	10 38.05	+12 2.0	2.398	3.385	1.7	20.9
3 12	10 30.08	+12 24.5	2.434	3.396	5.0	21.1
3 22	10 23.10	+12 39.2	2.499	3.407	8.1	21.3
4 1	10 17.67	+12 44.6	2.589	3.417	10.8	21.5
193819 2001 QE_{8}			2 27.9 235°.83		2°.1/29.3 18	
1 22	11 10.65	+ 2 47.1	1.635	2.420	17.2	20.5
2 1	11 5.82	+ 2 32.6	1.539	2.411	13.7	20.2
2 11	10 58.15	+ 2 33.7	1.465	2.402	9.5	20.0
2 21	10 48.25	+ 2 48.8	1.416	2.393	4.8	19.7
3 2	10 37.14	+ 3 14.3	1.394	2.383	2.3	19.5
3 12	10 26.22	+ 3 44.2	1.400	2.372	6.5	19.7
3 22	10 16.77	+ 4 12.6	1.433	2.361	11.3	19.9
4 1	10 9.81	+ 4 34.3	1.489	2.350	15.6	20.2
376278 2011 FB_{71}			2 27.9 5°.13		0°.8/27.2 17	
1 22	11 3.90	+ 7 52.4	1.927	2.731	14.2	21.4
2 1	11 0.06	+ 8 25.8	1.844	2.731	10.9	21.2
2 11	10 54.03	+ 9 11.5	1.783	2.731	7.1	21.0
2 21	10 46.40	+10 4.8	1.749	2.732	2.9	20.7
3 2	10 38.00	+10 59.5	1.743	2.732	1.9	20.6
3 12	10 29.88	+11 49.2	1.766	2.732	6.1	20.9
3 22	10 22.97	+12 28.7	1.816	2.732	10.1	21.1
4 1	10 18.01	+12 54.5	1.889	2.732	13.5	21.3
169229 2001 SB_{17}			2 27.9 54°.98		3°.5/25.1 18	
1 22	11 9.09	+17 56.7	2.039	2.852	13.2	19.6
2 1	11 3.73	+18 18.5	1.975	2.867	10.1	19.4
2 11	10 56.20	+18 42.1	1.935	2.883	6.7	19.2
2 21	10 47.21	+19 2.1	1.922	2.898	3.9	19.1
3 2	10 37.68	+19 13.2	1.938	2.914	4.2	19.1
3 12	10 28.67	+19 11.9	1.983	2.930	7.2	19.3
3 22	10 21.06	+18 56.7	2.055	2.946	10.4	19.6
4 1	10 15.48	+18 28.1	2.150	2.962	13.3	19.8
31277 1998 FK_{28}			2 27.9 295°.38		0°.5/28.5 18	
1 22	11 1.97	+ 4 29.9	2.283	3.070	12.8	19.0
2 1	10 58.29	+ 4 50.1	2.188	3.063	10.0	18.8
2 11	10 52.75	+ 5 22.6	2.115	3.057	6.7	18.6
2 21	10 45.84	+ 6 4.5	2.070	3.050	3.0	18.3
3 2	10 38.25	+ 6 51.6	2.054	3.044	1.1	18.1
3 12	10 30.82	+ 7 38.5	2.067	3.038	4.9	18.4
3 22	10 24.36	+ 8 20.6	2.108	3.031	8.5	18.6
4 1	10 19.50	+ 8 53.8	2.174	3.025	11.7	18.8
338454 2003 FE_{5}			2 27.9 36°.28		2°.4/ 1.2 18	
1 22	11 2.65	− 0 1.6	2.018	2.794	14.7	20.5
2 1	10 58.91	− 0 3.3	1.940	2.803	11.7	20.3
2 11	10 53.17	+ 0 10.8	1.883	2.814	8.2	20.1
2 21	10 46.00	+ 0 38.7	1.852	2.824	4.5	19.9
3 2	10 38.20	+ 1 16.7	1.849	2.835	2.4	19.8
3 12	10 30.71	+ 1 59.6	1.874	2.846	5.1	20.0
3 22	10 24.36	+ 2 42.0	1.926	2.858	8.6	20.2
4 1	10 19.82	+ 3 18.9	2.004	2.870	11.9	20.4
379194 2009 SD_{26}			2 27.9 167°.52		3°.3/ 2.7 18	
1 22	11 3.07	− 5 53.1	2.277	3.016	14.3	22.2
2 1	10 59.10	− 5 26.2	2.183	3.019	11.6	22.0
2 11	10 53.26	− 4 39.1	2.111	3.023	8.6	21.8
2 21	10 46.04	− 3 33.4	2.064	3.026	5.3	21.6
3 2	10 38.17	− 2 13.2	2.047	3.028	3.3	21.5
3 12	10 30.50	− 0 44.8	2.060	3.030	4.9	21.6
3 22	10 23.82	+ 0 44.7	2.101	3.031	8.1	21.8
4 1	10 18.78	+ 2 8.7	2.169	3.032	11.3	22.0
217336 2004 RB_{93}			2 27.9 92°.81		2°.9/ 2.3 18	
1 22	11 5.35	− 4 44.3	2.306	3.045	14.1	21.2
2 1	11 0.57	− 4 16.7	2.238	3.076	11.3	21.1
2 11	10 54.03	− 3 31.1	2.192	3.107	8.1	20.9
2 21	10 46.29	− 2 29.8	2.173	3.137	4.9	20.8
3 2	10 38.10	− 1 17.4	2.184	3.166	2.9	20.7
3 12	10 30.31	+ 0 0.0	2.225	3.195	4.6	20.9
3 22	10 23.62	+ 1 16.2	2.295	3.223	7.7	21.1
4 1	10 18.58	+ 2 25.8	2.393	3.250	10.5	21.3
114542 2003 BL_{26}			2 27.9 285°.91		1°.5/29.4 18	
1 22	11 0.89	− 0 40.0	1.795	2.579	15.9	19.3
2 1	10 58.07	+ 0 10.2	1.694	2.566	12.7	19.0
2 11	10 52.96	+ 1 24.1	1.615	2.552	8.7	18.8
2 21	10 46.05	+ 2 58.5	1.561	2.539	4.3	18.5
3 2	10 38.16	+ 4 46.4	1.536	2.525	1.7	18.3
3 12	10 30.39	+ 6 38.2	1.539	2.512	5.9	18.5
3 22	10 23.77	+ 8 23.9	1.569	2.498	10.4	18.7
4 1	10 19.15	+ 9 55.5	1.624	2.485	14.5	18.9

59635 1999 JJ_{80} 2 27.9 240°.48 0°.6/28.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 3.30	+ 2 42.6	2.325	3.101	12.9	19.5
2 1	10 59.38	+ 3 26.3	2.216	3.086	10.2	19.3
2 11	10 53.53	+ 4 25.7	2.132	3.071	6.8	19.1
2 21	10 46.22	+ 5 37.4	2.075	3.055	3.1	18.8
3 2	10 38.11	+ 6 56.4	2.048	3.038	1.1	18.6
3 12	10 30.07	+ 8 15.9	2.052	3.021	5.0	18.9
3 22	10 22.93	+ 9 29.6	2.084	3.003	8.8	19.1
4 1	10 17.39	+10 32.6	2.142	2.985	12.2	19.3

172979 2006 HT_{25} 2 27.9 220°.57 2°.6/25.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 7.94	+12 30.5	1.953	2.760	13.9	21.4
2 1	11 3.29	+13 22.2	1.861	2.752	10.7	21.1
2 11	10 56.26	+14 23.7	1.793	2.743	6.9	20.9
2 21	10 47.40	+15 28.7	1.752	2.733	3.3	20.6
3 2	10 37.61	+16 30.0	1.741	2.722	3.6	20.6
3 12	10 28.02	+17 20.3	1.758	2.711	7.4	20.8
3 22	10 19.68	+17 54.9	1.802	2.700	11.3	21.0
4 1	10 13.42	+18 11.6	1.870	2.687	14.7	21.2

431544 2007 TY_{431} 2 27.9 143°.87 6°.0/19.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 7.25	+29 35.5	2.836	3.642	10.1	21.6
2 1	11 1.99	+30 45.4	2.778	3.653	8.2	21.5
2 11	10 54.96	+31 50.4	2.746	3.663	6.6	21.4
2 21	10 46.71	+32 44.5	2.742	3.673	6.1	21.4
3 2	10 37.97	+33 22.6	2.768	3.682	6.9	21.5
3 12	10 29.56	+33 41.7	2.820	3.691	8.5	21.6
3 22	10 22.21	+33 41.2	2.898	3.699	10.4	21.7
4 1	10 16.49	+33 22.4	2.998	3.707	12.1	21.9

303859 2005 SZ_{231} 2 27.9 212°.39 4°.2/ 4.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.82	− 8 27.0	2.852	3.563	12.3	21.2
2 1	10 57.83	− 8 38.4	2.747	3.559	10.2	21.0
2 11	10 52.30	− 8 34.3	2.664	3.554	7.9	20.8
2 21	10 45.64	− 8 14.8	2.608	3.550	5.7	20.7
3 2	10 38.42	− 7 41.2	2.579	3.545	4.2	20.6
3 12	10 31.30	− 6 56.7	2.580	3.540	4.9	20.6
3 22	10 24.93	− 6 5.7	2.610	3.535	7.0	20.7
4 1	10 19.86	− 5 12.9	2.667	3.529	9.4	20.9

284329 2006 RE_{12} 2 27.9 202°.26 2°.7/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.90	− 1 53.6	2.635	3.382	12.3	20.6
2 1	10 59.50	− 2 1.6	2.535	3.380	9.9	20.4
2 11	10 53.42	− 1 56.6	2.459	3.377	7.2	20.2
2 21	10 46.12	− 1 39.4	2.409	3.374	4.3	20.0
3 2	10 38.21	− 1 12.4	2.389	3.371	2.7	19.9
3 12	10 30.45	− 0 39.1	2.399	3.368	4.4	20.0
3 22	10 23.53	− 0 3.5	2.438	3.364	7.3	20.2
4 1	10 18.05	+ 0 30.2	2.503	3.360	10.1	20.4

337004 6507 P–L 2 27.9 101°.28 0°.6/28.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.48	+ 2 35.4	2.400	3.175	12.6	21.4
2 1	10 58.44	+ 3 17.7	2.323	3.193	9.8	21.2
2 11	10 52.70	+ 4 13.5	2.272	3.210	6.5	21.0
2 21	10 45.79	+ 5 19.0	2.247	3.226	2.9	20.8
3 2	10 38.38	+ 6 29.3	2.253	3.243	1.1	20.7
3 12	10 31.26	+ 7 38.3	2.289	3.259	4.5	21.0
3 22	10 25.11	+ 8 41.1	2.354	3.275	7.9	21.2
4 1	10 20.50	+ 9 33.6	2.445	3.291	10.8	21.4

433673 2014 DX_{82} 2 27.9 217°.74 3°.8/ 3.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.17	− 7 26.1	2.809	3.529	12.2	21.3
2 1	10 57.36	− 7 25.6	2.703	3.523	10.2	21.1
2 11	10 52.01	− 7 9.2	2.620	3.518	7.7	21.0
2 21	10 45.53	− 6 37.4	2.563	3.512	5.3	20.8
3 2	10 38.48	− 5 52.0	2.535	3.506	3.8	20.7
3 12	10 31.54	− 4 56.9	2.536	3.500	4.7	20.7
3 22	10 25.35	− 3 56.6	2.566	3.493	7.0	20.9
4 1	10 20.45	− 2 56.3	2.623	3.486	9.6	21.0

425314 2010 AU_{3} 2 27.9 76°.83 4°.8/22.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 3.25	+17 33.9	1.944	2.769	13.3	20.4
2 1	10 59.58	+19 7.4	1.879	2.779	10.1	20.2
2 11	10 53.72	+20 46.3	1.839	2.788	6.9	20.1
2 21	10 46.28	+22 22.2	1.827	2.798	4.8	20.0
3 2	10 38.16	+23 45.9	1.844	2.807	5.9	20.0
3 12	10 30.40	+24 50.6	1.888	2.817	8.8	20.2
3 22	10 23.91	+25 32.6	1.958	2.826	11.9	20.4
4 1	10 19.39	+25 51.5	2.049	2.835	14.7	20.6

82757 2001 QH_{8} 2 27.9 217°.15 1°.8/29.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 8.16	+ 2 4.6	2.115	2.884	14.3	19.7
2 1	11 3.23	+ 1 59.1	2.015	2.878	11.3	19.5
2 11	10 56.11	+ 2 7.0	1.938	2.871	7.9	19.3
2 21	10 47.32	+ 2 26.6	1.888	2.863	4.1	19.0
3 2	10 37.68	+ 2 54.7	1.868	2.856	1.9	18.9
3 12	10 28.21	+ 3 26.5	1.876	2.847	5.3	19.1
3 22	10 19.84	+ 3 57.3	1.913	2.838	9.1	19.3
4 1	10 13.36	+ 4 22.8	1.975	2.829	12.6	19.5

497862 2006 UH_{139} 2 27.9 180°.77 0°.5/28.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 3.03	+ 4 41.2	3.009	3.780	10.4	22.3
2 1	10 58.59	+ 4 57.9	2.914	3.781	8.1	22.2
2 11	10 52.71	+ 5 23.5	2.844	3.781	5.4	22.0
2 21	10 45.79	+ 5 55.8	2.802	3.781	2.4	21.8
3 2	10 38.40	+ 6 31.5	2.791	3.781	0.9	21.7
3 12	10 31.16	+ 7 7.2	2.811	3.780	3.9	21.9
3 22	10 24.67	+ 7 39.4	2.861	3.779	6.8	22.1
4 1	10 19.42	+ 8 5.6	2.938	3.777	9.3	22.2

82669 2001 PZ_{20} 2 27.9 97°.30 1°.2/26.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.50	+ 8 39.1	2.356	3.154	12.1	19.6
2 1	10 58.51	+ 9 32.3	2.283	3.169	9.2	19.4
2 11	10 52.79	+10 35.3	2.235	3.183	5.9	19.2
2 21	10 45.84	+11 43.2	2.214	3.197	2.4	19.0
3 2	10 38.38	+12 50.3	2.224	3.211	2.0	19.0
3 12	10 31.21	+13 50.8	2.264	3.225	5.4	19.3
3 22	10 25.05	+14 40.4	2.332	3.238	8.6	19.5
4 1	10 20.46	+15 16.5	2.424	3.251	11.5	19.7

341477 2007 TC_{362} 2 27.9 309°.78 6°.1/ 5.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 0.60	−11 19.6	2.138	2.855	15.7	20.3
2 1	10 57.52	−11 39.7	2.032	2.842	13.4	20.1
2 11	10 52.45	−11 37.9	1.945	2.829	10.7	19.9
2 21	10 45.82	−11 13.0	1.882	2.817	8.0	19.7
3 2	10 38.36	−10 25.8	1.845	2.804	6.3	19.6
3 12	10 30.98	− 9 20.5	1.835	2.792	6.7	19.6
3 22	10 24.56	− 8 3.6	1.852	2.780	9.1	19.7
4 1	10 19.86	− 6 42.8	1.894	2.769	12.1	19.8

326676 2002 VR_{115} 2 27.9 78°.15 18°.1/18.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 32.46	+44 34.2	1.113	1.918	22.3	20.6
2 1	11 24.49	+46 14.6	1.082	1.929	20.1	20.5
2 11	11 10.91	+47 26.1	1.068	1.939	18.5	20.4
2 21	10 53.50	+47 49.5	1.072	1.950	18.1	20.4
3 2	10 35.23	+47 13.5	1.096	1.961	19.0	20.5
3 12	10 19.29	+45 39.5	1.139	1.971	20.9	20.7
3 22	10 7.73	+43 20.0	1.200	1.982	23.1	20.9
4 1	10 1.27	+40 30.4	1.276	1.993	25.2	21.1

306346 2011 SX_{162} 2 27.9 233°.28 1°.9/29.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 9.05	+ 1 41.7	1.821	2.597	16.0	22.0
2 1	11 4.38	+ 1 45.0	1.718	2.585	12.8	21.8
2 11	10 57.14	+ 2 5.0	1.637	2.572	8.9	21.5
2 21	10 47.86	+ 2 39.9	1.582	2.558	4.5	21.2
3 2	10 37.47	+ 3 25.5	1.555	2.544	2.0	21.0
3 12	10 27.16	+ 4 15.5	1.557	2.528	6.0	21.2
3 22	10 18.12	+ 5 3.2	1.586	2.513	10.5	21.5
4 1	10 11.28	+ 5 43.0	1.639	2.496	14.6	21.7

72347 2001 BN_{69} 2 27.9 58°.85 2°.9/25.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 7.16	+11 40.7	1.394	2.222	17.4	19.2
2 1	11 3.13	+12 36.4	1.339	2.241	13.2	19.0
2 11	10 56.25	+13 43.7	1.306	2.260	8.4	18.7
2 21	10 47.38	+14 54.1	1.297	2.279	3.9	18.5
3 2	10 37.76	+15 57.9	1.315	2.299	4.0	18.6
3 12	10 28.81	+16 46.6	1.360	2.319	8.4	18.9
3 22	10 21.70	+17 15.7	1.429	2.338	12.8	19.2
4 1	10 17.22	+17 23.9	1.518	2.358	16.5	19.5

157227 2004 RK_{70} 2 27.9 195°.36 0°.9/27.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.55	+ 8 38.3	2.107	2.904	13.4	20.9
2 1	11 1.18	+ 9 8.4	2.019	2.903	10.3	20.7
2 11	10 54.72	+ 9 49.0	1.955	2.902	6.7	20.5
2 21	10 46.73	+10 35.8	1.918	2.900	2.7	20.2
3 2	10 38.01	+11 23.3	1.910	2.898	1.9	20.1
3 12	10 29.53	+12 5.8	1.932	2.896	5.8	20.4
3 22	10 22.17	+12 38.7	1.981	2.894	9.6	20.6
4 1	10 16.66	+12 59.2	2.054	2.891	12.9	20.8

500227 2012 JM 2 27.9 296°.16 8°.6/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.35	−19 46.6	1.925	2.594	18.6	21.9
2 1	10 58.66	−19 39.3	1.792	2.559	16.6	21.7
2 11	10 53.57	−18 57.8	1.675	2.523	14.1	21.4
2 21	10 46.44	−17 37.1	1.579	2.487	11.3	21.2
3 2	10 38.05	−15 35.5	1.508	2.451	9.1	20.9
3 12	10 29.49	−12 57.6	1.464	2.414	8.9	20.8
3 22	10 21.90	− 9 54.2	1.449	2.378	11.1	20.9
4 1	10 16.34	− 6 40.2	1.460	2.341	14.6	21.0

304370 2006 SC_{369} 2 27.9 42°.86 21°.7/21.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 41.67	+48 34.2	0.909	1.713	26.3	20.2
2 1	11 32.79	+50 1.5	0.880	1.721	24.0	20.0
2 11	11 16.72	+50 50.9	0.864	1.729	22.4	19.9
2 21	10 55.87	+50 38.9	0.864	1.738	21.7	19.9
3 2	10 34.35	+49 12.5	0.882	1.748	22.4	20.0
3 12	10 16.35	+46 37.2	0.917	1.758	24.0	20.2
3 22	10 4.12	+43 12.1	0.968	1.769	26.2	20.4
4 1	9 58.03	+39 19.0	1.035	1.780	28.4	20.6

190283 Schielicke 2 27.9 170°.81 1°.0/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 10.30	+ 3 37.4	1.929	2.706	15.2	21.2
2 1	11 4.98	+ 3 51.8	1.841	2.711	11.9	21.0
2 11	10 57.29	+ 4 20.8	1.777	2.715	8.0	20.8
2 21	10 47.83	+ 5 1.3	1.739	2.718	3.7	20.5
3 2	10 37.54	+ 5 48.3	1.731	2.720	1.4	20.4
3 12	10 27.54	+ 6 35.6	1.752	2.722	5.7	20.6
3 22	10 18.86	+ 7 17.7	1.801	2.722	9.8	20.9
4 1	10 12.30	+ 7 50.1	1.874	2.722	13.5	21.1

192089 2006 BM_{183} 2 27.9 165°.86 2°.5/25.4 18

1 22	11 3.67	+11 58.7	2.100	2.910	13.0	20.2
2 1	10 59.76	+13 0.5	2.019	2.912	9.9	20.0
2 11	10 53.80	+14 11.6	1.963	2.913	6.3	19.8
2 21	10 46.35	+15 26.1	1.934	2.915	3.1	19.6
3 2	10 38.20	+16 36.7	1.935	2.916	3.4	19.6
3 12	10 30.31	+17 36.8	1.964	2.917	6.8	19.8
3 22	10 23.54	+18 21.8	2.021	2.917	10.3	20.0
4 1	10 18.59	+18 49.5	2.101	2.918	13.3	20.2

161301 2003 MH_1 2 27.9 198°.47 2°.1/ 1.3 18

1 22	11 4.26	− 4 9.1	1.942	2.698	15.8	20.3
2 1	11 0.44	− 3 3.4	1.843	2.696	12.7	20.0
2 11	10 54.40	− 1 31.9	1.767	2.692	9.0	19.8
2 21	10 46.66	+ 0 22.1	1.716	2.688	4.8	19.5
3 2	10 38.04	+ 2 31.6	1.696	2.684	2.2	19.3
3 12	10 29.59	+ 4 46.3	1.706	2.678	5.5	19.5
3 22	10 22.28	+ 6 55.6	1.746	2.673	9.7	19.8
4 1	10 16.90	+ 8 50.8	1.811	2.666	13.5	20.0

55285 2001 SQ_{22} 2 27.9 328°.19 0°.7/28.4 18

1 22	11 3.93	+ 5 35.1	1.456	2.271	17.5	18.3
2 1	11 0.95	+ 5 35.0	1.366	2.257	13.7	18.0
2 11	10 55.15	+ 5 50.8	1.295	2.243	9.2	17.7
2 21	10 47.09	+ 6 19.4	1.249	2.230	4.1	17.4
3 2	10 37.84	+ 6 55.5	1.228	2.218	1.6	17.2
3 12	10 28.78	+ 7 31.6	1.233	2.207	7.0	17.5
3 22	10 21.23	+ 8 1.2	1.263	2.196	12.1	17.7
4 1	10 16.22	+ 8 19.0	1.315	2.186	16.6	18.0

366927 2005 UC_{350} 2 27.9 147°.01 5°.2/ 4.8 18

1 22	11 5.98	−10 50.7	2.512	3.209	14.1	21.2
2 1	11 1.15	−11 5.5	2.421	3.220	11.9	21.1
2 11	10 54.53	−11 1.5	2.352	3.231	9.3	20.9
2 21	10 46.62	−10 38.3	2.308	3.241	6.9	20.8
3 2	10 38.11	− 9 57.6	2.291	3.250	5.3	20.7
3 12	10 29.82	− 9 3.2	2.305	3.259	5.8	20.7
3 22	10 22.48	− 8 0.5	2.346	3.267	7.9	20.9
4 1	10 16.72	− 6 55.6	2.415	3.274	10.4	21.1

522470 2016 CU_{322} 2 27.9 135°.54 6°.7/ 5.8 18

1 22	11 5.11	−13 13.7	2.227	2.920	15.8	20.9
2 1	11 0.79	−13 47.8	2.137	2.927	13.5	20.8
2 11	10 54.46	−14 0.6	2.066	2.933	11.0	20.6
2 21	10 46.64	−13 50.6	2.019	2.940	8.5	20.5
3 2	10 38.10	−13 18.2	1.998	2.946	6.9	20.4
3 12	10 29.76	−12 27.3	2.005	2.951	7.1	20.4
3 22	10 22.48	−11 23.6	2.039	2.957	9.0	20.5
4 1	10 16.95	−10 14.4	2.098	2.962	11.6	20.7

7271 Doroguntsov 2 27.9 115°.97 0°.4/28.4 18

1 22	11 4.27	+ 4 50.5	2.802	3.575	11.1	19.1
2 1	10 59.54	+ 5 12.2	2.726	3.594	8.5	18.9
2 11	10 53.31	+ 5 43.2	2.674	3.612	5.6	18.8
2 21	10 46.06	+ 6 20.8	2.651	3.631	2.5	18.6
3 2	10 38.39	+ 7 1.4	2.658	3.648	0.9	18.5
3 12	10 30.99	+ 7 40.9	2.697	3.666	4.1	18.7
3 22	10 24.46	+ 8 15.9	2.765	3.682	7.0	19.0
4 1	10 19.29	+ 8 43.7	2.860	3.699	9.6	19.2

60055 1999 TB_{112} 2 27.9 162°.66 1°.4/29.4 18 R

1 22	11 4.52	+ 1 44.4	2.224	2.997	13.6	19.4
2 1	11 0.25	+ 1 59.1	2.135	3.000	10.7	19.2
2 11	10 54.06	+ 2 28.1	2.068	3.003	7.3	19.0
2 21	10 46.46	+ 3 8.7	2.029	3.005	3.7	18.8
3 2	10 38.19	+ 3 56.9	2.018	3.007	1.6	18.6
3 12	10 30.15	+ 4 47.3	2.038	3.009	4.8	18.8
3 22	10 23.15	+ 5 34.8	2.085	3.011	8.4	19.1
4 1	10 17.85	+ 6 14.9	2.158	3.012	11.7	19.3

372554 2009 UY_1 2 27.9 179°.04 2°.7/25.6 16

1 22	11 10.86	+15 40.7	2.209	3.011	12.7	21.4
2 1	11 5.12	+16 4.7	2.125	3.012	9.7	21.2
2 11	10 57.23	+16 32.6	2.066	3.013	6.4	21.0
2 21	10 47.78	+16 59.4	2.035	3.013	3.3	20.8
3 2	10 37.63	+17 19.8	2.034	3.013	3.5	20.8
3 12	10 27.82	+17 29.6	2.063	3.013	6.7	21.0
3 22	10 19.25	+17 26.5	2.119	3.012	10.0	21.2
4 1	10 12.63	+17 10.2	2.200	3.010	13.0	21.4

495695 2016 CF_{10} 2 27.9 160°.44 2°.2/29.8 17

	h m	° ′			°	m
1 22	11 6.42	+ 0 29.2	1.795	2.573	16.1	22.1
2 1	11 2.19	+ 0 36.3	1.709	2.576	12.8	21.9
2 11	10 55.57	+ 1 1.3	1.645	2.578	8.9	21.6
2 21	10 47.16	+ 1 42.1	1.605	2.580	4.7	21.4
3 2	10 37.89	+ 2 34.0	1.594	2.582	2.2	21.2
3 12	10 28.89	+ 3 30.3	1.611	2.584	5.7	21.5
3 22	10 21.22	+ 4 24.3	1.655	2.585	9.9	21.7
4 1	10 15.68	+ 5 10.0	1.723	2.586	13.7	21.9

162613 2000 SE_{102} 2 27.9 198°.16 0°.3/27.8 18

1 22	11 9.25	+ 6 54.5	1.890	2.682	14.9	21.5
2 1	11 4.30	+ 7 15.8	1.799	2.679	11.6	21.2
2 11	10 56.94	+ 7 49.7	1.732	2.676	7.6	21.0
2 21	10 47.74	+ 8 32.4	1.690	2.672	3.2	20.7
3 2	10 37.63	+ 9 18.1	1.678	2.668	1.5	20.6
3 12	10 27.77	+10 0.5	1.695	2.663	6.1	20.9
3 22	10 19.21	+10 34.3	1.740	2.657	10.4	21.1
4 1	10 12.79	+10 56.1	1.808	2.651	14.1	21.3

496344 2013 QA_3 2 27.9 144°.98 1°.0/29.1 16

1 22	11 5.93	+ 2 45.5	2.366	3.136	12.9	22.5
2 1	11 1.16	+ 3 3.7	2.281	3.146	10.1	22.3
2 11	10 54.55	+ 3 34.6	2.221	3.156	6.8	22.1
2 21	10 46.64	+ 4 15.4	2.187	3.165	3.2	21.9
3 2	10 38.14	+ 5 2.0	2.184	3.173	1.3	21.8
3 12	10 29.91	+ 5 49.4	2.211	3.181	4.6	22.0
3 22	10 22.70	+ 6 32.9	2.267	3.188	8.1	22.3
4 1	10 17.13	+ 7 8.9	2.348	3.195	11.1	22.5

119602 2001 WD_{15} 2 27.9 20°.48 1°.0/28.8 18

1 22	11 4.12	+ 3 40.4	1.668	2.468	16.3	19.7
2 1	11 0.57	+ 3 55.2	1.588	2.470	12.7	19.4
2 11	10 54.57	+ 4 26.8	1.529	2.472	8.6	19.2
2 21	10 46.75	+ 5 11.5	1.495	2.475	3.9	18.9
3 2	10 38.08	+ 6 3.8	1.488	2.478	1.5	18.7
3 12	10 29.73	+ 6 56.3	1.509	2.481	6.0	19.0
3 22	10 22.77	+ 7 42.5	1.556	2.485	10.5	19.3
4 1	10 18.01	+ 8 17.4	1.625	2.489	14.4	19.5

209442 2004 FA_{101} 2 27.9 110°.59 0°.8/28.9 18

1 22	11 1.00	+ 2 19.1	2.348	3.127	12.7	20.9
2 1	10 57.47	+ 2 57.9	2.260	3.131	10.0	20.7
2 11	10 52.21	+ 3 51.2	2.196	3.134	6.7	20.5
2 21	10 45.68	+ 4 55.5	2.158	3.137	3.1	20.3
3 2	10 38.56	+ 6 5.9	2.151	3.140	1.1	20.1
3 12	10 31.65	+ 7 16.4	2.173	3.143	4.6	20.4
3 22	10 25.67	+ 8 21.3	2.223	3.147	8.1	20.6
4 1	10 21.22	+ 9 16.3	2.299	3.150	11.2	20.8

206176 2002 TK_{294} 2 27.9 3°.52 20°.9/10.6 18

1 22	11 8.44	−23 17.2	1.043	1.749	29.4	19.2
2 1	11 5.97	−26 40.7	0.979	1.748	27.3	19.0
2 11	10 59.42	−29 30.6	0.928	1.747	25.0	18.8
2 21	10 49.25	−31 32.0	0.891	1.748	22.8	18.7
3 2	10 36.87	−32 32.1	0.869	1.749	21.3	18.6
3 12	10 24.50	−32 27.2	0.864	1.752	20.9	18.5
3 22	10 14.42	−31 24.5	0.874	1.755	21.6	18.6
4 1	10 8.33	−29 40.0	0.899	1.760	23.3	18.7

7347 1993 EW 2 27.9 307°.15 0°.2/28.2 18

1 22	11 2.20	+ 5 34.4	2.143	2.937	13.3	17.9
2 1	10 58.66	+ 5 55.8	2.046	2.927	10.4	17.6
2 11	10 53.14	+ 6 29.7	1.973	2.917	6.9	17.4
2 21	10 46.12	+ 7 12.9	1.926	2.907	3.0	17.1
3 2	10 38.36	+ 8 0.6	1.907	2.897	1.2	17.0
3 12	10 30.74	+ 8 47.1	1.918	2.887	5.3	17.3
3 22	10 24.14	+ 9 27.6	1.956	2.878	9.1	17.5
4 1	10 19.25	+ 9 57.9	2.018	2.869	12.5	17.7

421703 2014 PS_{12} 2 27.9 223°.52 0°.6/27.4 17

1 22	11 7.61	+ 6 36.1	1.972	2.763	14.4	22.9
2 1	11 3.07	+ 7 19.4	1.872	2.752	11.2	22.7
2 11	10 56.18	+ 8 17.4	1.795	2.740	7.3	22.4
2 21	10 47.46	+ 9 25.5	1.745	2.727	3.0	22.1
3 2	10 37.76	+10 37.2	1.725	2.714	1.8	22.0
3 12	10 28.18	+11 44.7	1.734	2.699	6.3	22.2
3 22	10 19.76	+12 41.8	1.772	2.684	10.5	22.5
4 1	10 13.36	+13 24.2	1.833	2.668	14.2	22.7

341820 2007 YT_{51} 2 27.9 87°.23 2°.0/ 1.1 18

1 22	11 2.57	− 0 4.4	2.350	3.115	13.1	20.9
2 1	10 58.67	+ 0 2.3	2.260	3.119	10.4	20.7
2 11	10 52.98	+ 0 23.2	2.194	3.122	7.3	20.5
2 21	10 46.01	+ 0 56.5	2.154	3.126	4.0	20.3
3 2	10 38.43	+ 1 38.6	2.143	3.130	2.1	20.2
3 12	10 31.07	+ 2 25.0	2.162	3.133	4.6	20.4
3 22	10 24.66	+ 3 10.7	2.208	3.137	7.9	20.6
4 1	10 19.82	+ 3 51.2	2.281	3.141	10.9	20.8

488953 2005 UK_{185} 2 27.9 180°.87 2°.7/25.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 10.47	+12 25.0	1.823	2.630	14.8	23.0
2 1	11 5.32	+13 16.7	1.742	2.632	11.3	22.8
2 11	10 57.63	+14 18.4	1.683	2.633	7.3	22.6
2 21	10 48.04	+15 23.1	1.652	2.633	3.5	22.3
3 2	10 37.55	+16 23.0	1.650	2.632	3.7	22.3
3 12	10 27.39	+17 10.8	1.677	2.631	7.6	22.6
3 22	10 18.66	+17 42.1	1.730	2.628	11.6	22.8
4 1	10 12.22	+17 54.9	1.807	2.625	15.1	23.0

436031 2009 JV_{2} 2 27.9 294°.66 3°.1/ 2.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 59.14	− 7 13.1	2.382	3.118	13.8	21.1
2 1	10 56.22	− 6 25.6	2.264	3.098	11.4	20.9
2 11	10 51.52	− 5 15.2	2.168	3.078	8.4	20.7
2 21	10 45.46	− 3 43.2	2.098	3.059	5.3	20.5
3 2	10 38.65	− 1 53.7	2.057	3.039	3.2	20.3
3 12	10 31.89	+ 0 6.3	2.048	3.019	4.8	20.4
3 22	10 25.94	+ 2 8.4	2.067	3.000	8.1	20.5
4 1	10 21.47	+ 4 4.5	2.114	2.980	11.4	20.7

255718 2006 QJ_{120} 2 27.9 180°.95 2°.3/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 7.65	+ 0 8.4	2.011	2.777	15.0	21.5
2 1	11 2.91	+ 0 9.2	1.920	2.779	12.0	21.3
2 11	10 55.94	+ 0 26.1	1.850	2.779	8.4	21.0
2 21	10 47.31	+ 0 57.2	1.807	2.779	4.6	20.8
3 2	10 37.86	+ 1 39.0	1.792	2.779	2.3	20.6
3 12	10 28.65	+ 2 25.8	1.806	2.778	5.4	20.8
3 22	10 20.62	+ 3 11.9	1.849	2.776	9.2	21.1
4 1	10 14.54	+ 3 52.1	1.916	2.774	12.8	21.3

368164 1999 RR_{208} 2 27.9 131°.62 1°.6/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.06	+ 0 37.0	2.652	3.406	12.1	22.0
2 1	11 1.01	+ 0 48.3	2.570	3.423	9.5	21.9
2 11	10 54.34	+ 1 11.8	2.512	3.440	6.6	21.7
2 21	10 46.53	+ 1 45.5	2.482	3.455	3.5	21.5
3 2	10 38.23	+ 2 26.0	2.483	3.470	1.7	21.4
3 12	10 30.21	+ 3 9.1	2.514	3.485	4.2	21.6
3 22	10 23.11	+ 3 50.6	2.575	3.498	7.2	21.8
4 1	10 17.49	+ 4 27.1	2.663	3.511	9.9	22.0

105303 2000 QV_{57} 2 27.9 122°.88 0°.2/28.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 9.98	+ 6 56.7	2.173	2.955	13.5	19.8
2 1	11 4.35	+ 6 59.9	2.095	2.969	10.5	19.6
2 11	10 56.67	+ 7 12.8	2.041	2.983	6.9	19.4
2 21	10 47.54	+ 7 32.1	2.015	2.996	2.9	19.2
3 2	10 37.81	+ 7 53.9	2.019	3.008	1.2	19.1
3 12	10 28.45	+ 8 13.9	2.053	3.021	5.2	19.4
3 22	10 20.32	+ 8 28.6	2.115	3.032	8.8	19.6
4 1	10 14.09	+ 8 35.4	2.203	3.044	12.0	19.9

151329 2002 CO_{176} 2 27.9 245°.24 2°.2/25.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 1.94	+13 1.8	2.599	3.405	10.9	20.6
2 1	10 58.11	+13 50.8	2.508	3.398	8.3	20.4
2 11	10 52.60	+14 46.4	2.441	3.391	5.4	20.2
2 21	10 45.86	+15 44.1	2.404	3.384	2.6	20.0
3 2	10 38.52	+16 38.7	2.396	3.376	2.9	20.0
3 12	10 31.34	+17 25.2	2.418	3.369	5.8	20.2
3 22	10 25.01	+18 0.0	2.467	3.361	8.8	20.4
4 1	10 20.14	+18 21.1	2.541	3.353	11.5	20.6

317235 2002 CZ_{190} 2 27.9 132°.29 1°.3/26.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 4.30	+ 8 32.2	2.023	2.826	13.7	20.9
2 1	11 0.28	+ 9 21.1	1.944	2.831	10.5	20.7
2 11	10 54.17	+10 21.9	1.888	2.837	6.7	20.4
2 21	10 46.54	+11 29.1	1.859	2.842	2.8	20.2
3 2	10 38.23	+12 36.2	1.860	2.847	2.2	20.2
3 12	10 30.20	+13 36.3	1.889	2.852	6.1	20.4
3 22	10 23.35	+14 24.4	1.946	2.856	9.9	20.7
4 1	10 18.36	+14 57.3	2.027	2.861	13.1	20.9

381245 2007 TA_{69} 2 27.9 42°.46 3°.1/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 9.04	+ 0 46.8	1.950	2.718	15.4	20.6
2 1	11 3.88	+ 0 6.1	1.872	2.731	12.3	20.4
2 11	10 56.49	− 0 21.5	1.817	2.743	8.7	20.2
2 21	10 47.50	− 0 36.2	1.787	2.757	5.0	20.0
3 2	10 37.83	− 0 40.0	1.786	2.770	3.1	19.9
3 12	10 28.53	− 0 36.2	1.814	2.784	5.5	20.1
3 22	10 20.54	− 0 29.0	1.869	2.798	9.1	20.3
4 1	10 14.59	− 0 22.3	1.950	2.812	12.4	20.5

191974 2005 WG_{31} 2 27.9 104°.36 0°.6/27.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 11.81	+ 7 1.3	1.628	2.425	16.7	20.7
2 1	11 6.28	+ 7 35.2	1.566	2.449	12.8	20.5
2 11	10 58.15	+ 8 23.1	1.527	2.473	8.3	20.3
2 21	10 48.19	+ 9 19.1	1.513	2.495	3.4	20.0
3 2	10 37.56	+10 15.9	1.528	2.517	1.9	20.0
3 12	10 27.54	+11 6.1	1.572	2.539	6.6	20.3
3 22	10 19.22	+11 44.2	1.643	2.559	10.9	20.6
4 1	10 13.36	+12 7.5	1.737	2.579	14.6	20.9

116270 2003 YJ_{35} 2 27.9 177°.49 0°.8/27.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 10.48	+ 8 4.0	1.403	2.216	18.1	19.6
2 1	11 6.00	+ 8 24.1	1.325	2.217	14.0	19.3
2 11	10 58.43	+ 8 59.3	1.268	2.217	9.2	19.1
2 21	10 48.48	+ 9 44.2	1.235	2.218	3.8	18.7
3 2	10 37.39	+10 31.2	1.229	2.218	2.2	18.6
3 12	10 26.71	+11 11.8	1.249	2.218	7.7	19.0
3 22	10 17.85	+11 39.9	1.295	2.217	12.8	19.2
4 1	10 11.81	+11 52.0	1.362	2.216	17.1	19.5

249006 2007 PR_{16} 2 27.9 163°.65 1°.9/26.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 8.06	+10 21.5	2.223	3.018	12.9	21.8
2 1	11 2.98	+11 22.9	2.142	3.026	9.8	21.6
2 11	10 55.85	+12 34.2	2.086	3.033	6.3	21.4
2 21	10 47.24	+13 49.7	2.058	3.039	2.8	21.2
3 2	10 37.95	+15 2.5	2.061	3.044	2.8	21.2
3 12	10 28.94	+16 6.3	2.094	3.049	6.3	21.4
3 22	10 21.06	+16 56.3	2.156	3.052	9.7	21.6
4 1	10 15.00	+17 30.2	2.242	3.054	12.8	21.8

166761 2002 UE_{27} 2 27.9 211°.29 0°.7/27.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.20	+ 7 19.5	2.530	3.320	11.6	20.2
2 1	10 58.34	+ 8 8.6	2.435	3.316	8.9	20.0
2 11	10 52.77	+ 9 8.5	2.365	3.311	5.8	19.8
2 21	10 45.95	+10 15.3	2.323	3.306	2.3	19.6
3 2	10 38.52	+11 23.6	2.312	3.300	1.6	19.5
3 12	10 31.23	+12 27.8	2.331	3.294	5.1	19.7
3 22	10 24.80	+13 23.3	2.378	3.288	8.4	19.9
4 1	10 19.84	+14 6.6	2.451	3.281	11.3	20.1

95264 2002 CF_{63} 2 27.9 57°.80 5°.0/23.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.14	+18 39.7	1.856	2.682	13.8	19.5
2 1	11 1.23	+19 53.6	1.785	2.684	10.6	19.3
2 11	10 54.94	+21 12.1	1.738	2.686	7.3	19.1
2 21	10 46.92	+22 26.9	1.717	2.687	5.1	18.9
3 2	10 38.11	+23 29.5	1.725	2.689	6.1	19.0
3 12	10 29.66	+24 13.1	1.759	2.691	9.1	19.2
3 22	10 22.57	+24 34.7	1.819	2.693	12.4	19.4
4 1	10 17.62	+24 34.2	1.900	2.695	15.4	19.6

238406 2004 ED_{59} 2 27.9 287°.14 3°.0/24.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.74	+14 40.7	2.235	3.050	12.1	20.5
2 1	10 59.02	+15 35.1	2.147	3.042	9.2	20.3
2 11	10 53.35	+16 36.2	2.084	3.035	6.1	20.1
2 21	10 46.23	+17 38.4	2.049	3.027	3.3	19.9
3 2	10 38.40	+18 35.3	2.043	3.020	3.9	19.9
3 12	10 30.77	+19 20.9	2.065	3.012	6.9	20.1
3 22	10 24.17	+19 51.6	2.114	3.005	10.2	20.3
4 1	10 19.27	+20 5.7	2.187	2.997	13.1	20.4

465188 2007 GD_{43} 2 27.9 197°.34 2°.9/24.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 7.63	+16 6.5	2.437	3.241	11.6	21.9
2 1	11 2.55	+16 46.4	2.350	3.238	8.9	21.7
2 11	10 55.53	+17 30.5	2.288	3.235	5.9	21.5
2 21	10 47.11	+18 13.6	2.254	3.231	3.3	21.3
3 2	10 38.04	+18 50.4	2.251	3.227	3.7	21.4
3 12	10 29.20	+19 16.3	2.277	3.222	6.5	21.5
3 22	10 21.40	+19 28.8	2.331	3.216	9.6	21.7
4 1	10 15.30	+19 26.8	2.410	3.210	12.3	21.9

301979 2000 JC_{2} 2 27.9 187°.08 2°.3/25.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 10.32	+12 12.3	2.049	2.849	13.6	23.0
2 1	11 4.96	+12 58.6	1.963	2.849	10.4	22.8
2 11	10 57.29	+13 53.7	1.900	2.848	6.8	22.6
2 21	10 47.91	+14 51.7	1.865	2.846	3.2	22.3
3 2	10 37.69	+15 45.9	1.861	2.843	3.2	22.3
3 12	10 27.75	+16 30.0	1.886	2.840	6.9	22.6
3 22	10 19.07	+16 59.8	1.938	2.835	10.6	22.8
4 1	10 12.43	+17 13.4	2.015	2.830	13.9	23.0

131958 2002 CS_{41} 2 27.9 289°.53 5°.8/ 3.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 2.85	− 7 50.5	1.552	2.310	19.1	20.0
2 1	11 0.05	− 8 1.5	1.454	2.298	16.0	19.8
2 11	10 54.57	− 7 45.1	1.375	2.286	12.3	19.5
2 21	10 46.92	− 6 59.8	1.318	2.273	8.4	19.3
3 2	10 38.08	− 5 48.0	1.286	2.261	5.9	19.1
3 12	10 29.32	− 4 17.0	1.280	2.250	7.3	19.1
3 22	10 21.93	− 2 37.2	1.299	2.238	11.3	19.3
4 1	10 16.91	− 0 59.7	1.342	2.226	15.5	19.5

288189 2003 XK_{12} 2 27.9 58°.58 2°.9/25.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 10.00	+15 35.8	1.882	2.693	14.2	20.4
2 1	11 4.55	+15 58.3	1.825	2.717	10.8	20.3
2 11	10 56.84	+16 24.8	1.792	2.741	7.0	20.1
2 21	10 47.62	+16 49.5	1.786	2.765	3.6	19.9
3 2	10 37.89	+17 7.0	1.809	2.789	3.7	20.0
3 12	10 28.77	+17 13.0	1.860	2.813	7.0	20.2
3 22	10 21.17	+17 5.8	1.938	2.837	10.5	20.5
4 1	10 15.73	+16 45.3	2.039	2.861	13.5	20.7

415185 2012 GT_9 2 27.9 20°.27 1°.1/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 5.91	+ 9 3.8	1.531	2.348	16.6	21.0
2 1	11 2.17	+ 9 25.0	1.456	2.351	12.8	20.7
2 11	10 55.74	+ 9 58.9	1.404	2.355	8.3	20.5
2 21	10 47.31	+10 40.2	1.375	2.358	3.4	20.2
3 2	10 37.98	+11 22.0	1.374	2.363	2.3	20.1
3 12	10 29.08	+11 57.0	1.400	2.367	7.1	20.4
3 22	10 21.75	+12 20.0	1.451	2.373	11.7	20.7
4 1	10 16.87	+12 28.1	1.523	2.378	15.6	21.0

421929 2014 QL_{239} 2 27.9 173°.64 1°.6/26.6 18

1 22	11 7.52	+ 9 40.0	1.824	2.630	14.8	21.6
2 1	11 3.04	+10 23.3	1.743	2.632	11.4	21.4
2 11	10 56.14	+11 18.4	1.684	2.633	7.3	21.2
2 21	10 47.45	+12 19.6	1.652	2.634	3.1	20.9
3 2	10 37.92	+13 19.7	1.649	2.635	2.6	20.9
3 12	10 28.70	+14 11.4	1.674	2.636	6.8	21.1
3 22	10 20.84	+14 49.6	1.726	2.636	11.0	21.4
4 1	10 15.13	+15 11.6	1.801	2.635	14.5	21.6

246772 2009 CU_{50} 2 27.9 311°.75 3°.5/24.4 17

1 22	11 2.99	+16 6.1	2.104	2.923	12.6	20.7
2 1	10 59.37	+16 59.2	2.016	2.913	9.6	20.5
2 11	10 53.67	+17 58.3	1.953	2.904	6.4	20.3
2 21	10 46.40	+18 57.3	1.918	2.894	3.8	20.1
3 2	10 38.37	+19 49.4	1.910	2.884	4.4	20.1
3 12	10 30.55	+20 28.5	1.931	2.875	7.5	20.3
3 22	10 23.84	+20 51.1	1.978	2.866	10.9	20.4
4 1	10 18.95	+20 55.9	2.047	2.858	13.9	20.6

409829 2006 OX_{21} 2 27.9 155°.47 2°.5/25.3 18

1 22	11 8.57	+13 37.4	2.429	3.226	11.8	22.7
2 1	11 3.18	+14 32.0	2.352	3.237	9.0	22.5
2 11	10 55.89	+15 32.8	2.300	3.247	5.8	22.3
2 21	10 47.25	+16 34.3	2.278	3.256	3.0	22.2
3 2	10 38.03	+17 30.6	2.286	3.265	3.3	22.2
3 12	10 29.11	+18 16.4	2.325	3.272	6.2	22.4
3 22	10 21.27	+18 48.6	2.392	3.278	9.3	22.6
4 1	10 15.14	+19 5.8	2.484	3.284	12.0	22.8

350979 2003 FC_{46} 2 27.9 326°.96 3°.2/25.9 18

1 22	11 7.47	+12 59.7	1.320	2.153	17.9	20.9
2 1	11 3.96	+13 35.6	1.243	2.147	13.8	20.6
2 11	10 57.26	+14 23.1	1.186	2.141	9.0	20.3
2 21	10 48.07	+15 14.5	1.153	2.135	4.3	20.0
3 2	10 37.65	+16 0.1	1.146	2.130	4.4	20.0
3 12	10 27.63	+16 31.4	1.164	2.125	9.2	20.3
3 22	10 19.46	+16 43.0	1.206	2.121	14.2	20.5
4 1	10 14.21	+16 33.5	1.267	2.117	18.5	20.8

11596 Francetic 2 27.9 241°.74 4°.6/ 3.8 18

1 22	11 4.10	− 9 31.0	2.043	2.767	16.1	19.2
2 1	11 0.40	− 9 4.0	1.929	2.752	13.5	19.0
2 11	10 54.49	− 8 10.6	1.835	2.735	10.4	18.8
2 21	10 46.82	− 6 50.8	1.766	2.718	7.0	18.5
3 2	10 38.17	− 5 7.8	1.724	2.700	4.7	18.3
3 12	10 29.54	− 3 8.9	1.712	2.681	5.9	18.4
3 22	10 21.93	− 1 3.9	1.730	2.662	9.4	18.5
4 1	10 16.18	+ 0 57.2	1.773	2.642	13.1	18.7

49619 1999 FU_{46} 2 27.9 0°.91 4°.4/25.1 18

1 22	11 4.35	+17 36.9	1.393	2.235	16.6	17.8
2 1	11 1.27	+17 58.1	1.324	2.232	12.8	17.5
2 11	10 55.28	+18 23.1	1.276	2.231	8.5	17.3
2 21	10 47.15	+18 44.7	1.252	2.231	4.9	17.0
3 2	10 38.08	+18 55.2	1.254	2.232	5.4	17.1
3 12	10 29.53	+18 49.0	1.280	2.235	9.3	17.3
3 22	10 22.76	+18 24.0	1.330	2.240	13.5	17.6
4 1	10 18.62	+17 40.9	1.400	2.246	17.2	17.8

421122 2013 QS_{78} 2 27.9 116°.16 3°.4/24.1 18

1 22	11 5.33	+15 12.3	2.296	3.106	12.0	21.4
2 1	11 0.78	+16 30.3	2.232	3.124	9.1	21.2
2 11	10 54.36	+17 53.9	2.193	3.141	6.0	21.1
2 21	10 46.61	+19 16.3	2.183	3.158	3.6	20.9
3 2	10 38.32	+20 30.6	2.203	3.175	4.2	21.0
3 12	10 30.37	+21 31.0	2.253	3.191	7.0	21.2
3 22	10 23.54	+22 14.1	2.330	3.207	10.0	21.4
4 1	10 18.42	+22 38.9	2.431	3.222	12.5	21.6

402269 2005 QP_{172} 2 27.9 107°.03 0°.4/28.4 18

1 22	11 9.21	+ 5 10.6	2.213	2.990	13.5	21.8
2 1	11 3.66	+ 5 26.9	2.144	3.014	10.4	21.6
2 11	10 56.17	+ 5 54.3	2.099	3.038	6.9	21.4
2 21	10 47.35	+ 6 29.6	2.081	3.061	3.0	21.2
3 2	10 38.02	+ 7 8.1	2.094	3.084	1.1	21.1
3 12	10 29.12	+ 7 44.9	2.137	3.106	4.9	21.4
3 22	10 21.43	+ 8 16.1	2.209	3.127	8.4	21.7
4 1	10 15.56	+ 8 38.5	2.306	3.148	11.5	21.9

57570 2001 TO_{61} 2 28.0 152°.77 0°.7/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 2.23	+ 2 50.2	2.786	3.555	11.2	20.2
2 1	10 58.12	+ 3 19.1	2.697	3.562	8.7	20.0
2 11	10 52.51	+ 3 59.3	2.632	3.568	5.9	19.8
2 21	10 45.83	+ 4 48.1	2.596	3.574	2.7	19.6
3 2	10 38.66	+ 5 41.7	2.589	3.579	1.0	19.5
3 12	10 31.67	+ 6 35.7	2.614	3.584	4.0	19.7
3 22	10 25.49	+ 7 25.7	2.668	3.589	7.1	19.9
4 1	10 20.63	+ 8 8.4	2.748	3.593	9.7	20.1

243768 2000 RS_{63} 2 28.0 181°.20 2°.0/29.9 18

1 22	11 7.75	− 0 11.2	2.063	2.826	14.8	22.2
2 1	11 2.96	+ 0 5.9	1.970	2.828	11.8	21.9
2 11	10 55.99	+ 0 40.1	1.900	2.829	8.2	21.7
2 21	10 47.39	+ 1 29.2	1.856	2.829	4.3	21.5
3 2	10 37.98	+ 2 28.6	1.840	2.828	2.1	21.3
3 12	10 28.78	+ 3 32.1	1.855	2.827	5.2	21.5
3 22	10 20.74	+ 4 33.3	1.898	2.824	9.1	21.8
4 1	10 14.60	+ 5 26.8	1.967	2.821	12.6	22.0

376779 2000 LU_{25} 2 28.0 215°.16 10°.3/14.3 18

1 22	11 7.65	−34 45.6	3.218	3.693	14.4	22.0
2 1	11 2.58	−35 35.1	3.102	3.682	13.5	21.9
2 11	10 55.64	−36 2.6	3.000	3.669	12.5	21.8
2 21	10 47.24	−36 4.3	2.916	3.656	11.5	21.6
3 2	10 38.04	−35 37.6	2.853	3.641	10.7	21.6
3 12	10 28.85	−34 42.9	2.813	3.626	10.3	21.5
3 22	10 20.47	−33 23.3	2.798	3.610	10.4	21.5
4 1	10 13.59	−31 44.4	2.807	3.592	11.2	21.5

368219 2001 SM_{353} 2 28.0 208°.84 0°.9/28.9 15

1 22	11 10.82	+ 4 36.9	2.574	3.336	12.2	22.1
2 1	11 4.92	+ 4 33.8	2.467	3.328	9.6	21.9
2 11	10 57.10	+ 4 40.1	2.385	3.319	6.5	21.7
2 21	10 47.83	+ 4 54.0	2.332	3.310	3.1	21.4
3 2	10 37.83	+ 5 12.4	2.310	3.299	1.2	21.3
3 12	10 27.95	+ 5 31.9	2.320	3.288	4.6	21.5
3 22	10 19.01	+ 5 48.9	2.359	3.276	8.0	21.7
4 1	10 11.69	+ 6 0.7	2.426	3.263	11.1	21.9

489916 2008 QF_8 2 28.0 182°.49 0°.1/27.9 18

1 22	11 11.80	+ 6 35.2	1.879	2.665	15.2	22.6
2 1	11 6.29	+ 6 52.3	1.790	2.666	11.8	22.4
2 11	10 58.28	+ 7 22.0	1.724	2.667	7.8	22.2
2 21	10 48.40	+ 8 0.5	1.686	2.667	3.3	21.9
3 2	10 37.60	+ 8 42.3	1.676	2.666	1.4	21.7
3 12	10 27.10	+ 9 21.1	1.696	2.664	6.1	22.1
3 22	10 17.96	+ 9 52.0	1.744	2.661	10.4	22.3
4 1	10 11.05	+10 11.4	1.816	2.657	14.1	22.5

406475 2007 UP_{84} 2 28.0 147°.18 0°.2/28.1 18

1 22	11 7.93	+ 5 12.1	1.901	2.689	15.0	22.7
2 1	11 3.20	+ 5 41.1	1.820	2.698	11.6	22.5
2 11	10 56.17	+ 6 24.5	1.763	2.705	7.7	22.2
2 21	10 47.47	+ 7 17.8	1.732	2.713	3.3	22.0
3 2	10 38.02	+ 8 15.3	1.730	2.720	1.3	21.8
3 12	10 28.89	+ 9 10.0	1.757	2.726	5.8	22.2
3 22	10 21.08	+ 9 56.5	1.812	2.731	9.9	22.4
4 1	10 15.33	+10 30.6	1.891	2.737	13.4	22.6

88495 2001 QP_{137} 2 28.0 229°.33 0°.7/27.5 17

1 22	11 10.42	+ 9 23.4	2.235	3.021	13.1	20.5
2 1	11 4.95	+ 9 32.3	2.132	3.010	10.1	20.3
2 11	10 57.29	+ 9 49.3	2.053	2.997	6.6	20.0
2 21	10 47.97	+10 11.1	2.003	2.985	2.8	19.8
3 2	10 37.78	+10 33.3	1.982	2.971	1.6	19.7
3 12	10 27.75	+10 51.6	1.992	2.957	5.6	19.9
3 22	10 18.80	+11 2.3	2.031	2.942	9.5	20.1
4 1	10 11.72	+11 3.2	2.095	2.927	12.8	20.3

384221 2009 DN_9 2 28.0 5°.75 2°.3/26.8 18

1 22	11 8.53	+14 51.4	1.433	2.263	16.9	19.1
2 1	11 4.33	+14 32.5	1.363	2.264	13.0	18.8
2 11	10 57.21	+14 17.6	1.313	2.266	8.5	18.6
2 21	10 47.96	+14 1.9	1.288	2.271	3.8	18.3
3 2	10 37.84	+13 40.8	1.290	2.276	3.2	18.3
3 12	10 28.29	+13 10.6	1.318	2.284	7.7	18.5
3 22	10 20.57	+12 29.9	1.371	2.293	12.2	18.8
4 1	10 15.52	+11 39.0	1.445	2.303	16.2	19.1

203424 2001 XG_{239} 2 28.0 69°.43 2°.2/26.5 18

1 22	11 9.46	+10 40.1	1.376	2.198	17.9	19.8
2 1	11 5.03	+11 16.8	1.316	2.214	13.7	19.6
2 11	10 57.64	+12 5.8	1.277	2.229	8.8	19.4
2 21	10 48.13	+13 0.0	1.263	2.245	3.8	19.1
3 2	10 37.78	+13 50.4	1.275	2.261	3.3	19.1
3 12	10 28.09	+14 28.9	1.313	2.277	8.1	19.4
3 22	10 20.31	+14 50.9	1.377	2.293	12.7	19.7
4 1	10 15.26	+14 54.6	1.461	2.309	16.6	20.0