166752 2002 UC_6 3 18.9 161.°85 1.°4/17.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 15.44	+ 1 20.4	2.450	3.254	11.6	20.5
2 21	12 11.67	+ 2 21.5	2.366	3.257	8.8	20.3
3 2	12 6.25	+ 3 33.2	2.307	3.260	5.6	20.1
3 12	11 59.68	+ 4 50.4	2.276	3.263	2.4	19.9
3 22	11 52.60	+ 6 7.3	2.275	3.266	2.3	19.9
4 1	11 45.73	+ 7 17.9	2.305	3.268	5.5	20.1
4 11	11 39.78	+ 8 17.1	2.362	3.270	8.7	20.3
4 21	11 35.26	+ 9 1.8	2.444	3.272	11.5	20.5

151062 2001 VP_{28} 3 18.9 208.°55 0.°8/19.9 18 R

2 11	12 19.40	− 4 29.2	2.295	3.075	13.1	20.9
2 21	12 14.91	− 4 7.0	2.196	3.069	10.3	20.7
3 2	12 8.50	− 3 30.9	2.120	3.062	6.9	20.5
3 12	12 0.67	− 2 43.6	2.072	3.055	3.2	20.2
3 22	11 52.16	− 1 49.5	2.053	3.048	1.2	20.1
4 1	11 43.80	− 0 53.9	2.063	3.040	4.9	20.3
4 11	11 36.43	− 0 2.7	2.102	3.031	8.6	20.5
4 21	11 30.68	+ 0 39.7	2.167	3.022	11.9	20.7

434816 2006 RH_{92} 3 18.9 194.°49 0.°6/19.8 17 R

2 11	12 15.62	− 4 32.5	2.755	3.532	11.2	22.1
2 21	12 11.67	− 4 3.1	2.658	3.530	8.7	22.0
3 2	12 6.20	− 3 21.9	2.586	3.527	5.9	21.8
3 12	11 59.66	− 2 31.4	2.541	3.525	2.7	21.5
3 22	11 52.61	− 1 35.6	2.527	3.522	1.0	21.4
4 1	11 45.73	− 0 39.1	2.543	3.519	4.1	21.6
4 11	11 39.63	+ 0 13.6	2.587	3.515	7.2	21.8
4 21	11 34.82	+ 0 58.4	2.658	3.511	10.0	22.0

208501 2001 WK_{17} 3 18.9 160.°61 1.°2/17.4 18

2 11	12 17.53	+ 3 9.1	2.860	3.657	10.3	21.6
2 21	12 12.99	+ 3 40.9	2.775	3.663	7.8	21.4
3 2	12 6.97	+ 4 19.4	2.716	3.668	5.0	21.2
3 12	11 59.95	+ 5 0.9	2.686	3.673	2.1	21.0
3 22	11 52.50	+ 5 41.6	2.687	3.678	1.9	21.0
4 1	11 45.25	+ 6 17.4	2.718	3.682	4.8	21.2
4 11	11 38.83	+ 6 45.0	2.777	3.685	7.6	21.4
4 21	11 33.68	+ 7 2.5	2.862	3.688	10.1	21.6

65573 3203 $T\text{-}_2$ 3 18.9 197.°23 2.°2/17.2 18

2 11	12 24.19	+ 4 11.7	1.781	2.593	15.0	19.6
2 21	12 19.09	+ 4 43.3	1.696	2.591	11.5	19.3
3 2	12 11.46	+ 5 24.8	1.634	2.588	7.5	19.1
3 12	12 1.97	+ 6 10.5	1.598	2.585	3.3	18.8
3 22	11 51.61	+ 6 53.9	1.591	2.581	3.2	18.8
4 1	11 41.55	+ 7 28.3	1.612	2.576	7.4	19.0
4 11	11 32.91	+ 7 48.7	1.659	2.571	11.5	19.3
4 21	11 26.47	+ 7 52.9	1.729	2.565	15.2	19.5

169237 2001 SF_{72} 3 18.9 135.°88 2.°4/15.6 17

2 11	12 17.20	+ 7 42.5	3.052	3.858	9.5	21.6
2 21	12 12.59	+ 8 30.5	2.980	3.873	7.2	21.4
3 2	12 6.64	+ 9 22.2	2.935	3.887	4.7	21.3
3 12	11 59.79	+10 13.6	2.919	3.901	2.6	21.2
3 22	11 52.59	+11 0.4	2.934	3.914	3.1	21.2
4 1	11 45.62	+11 38.8	2.980	3.927	5.3	21.4
4 11	11 39.46	+12 6.2	3.053	3.939	7.8	21.6
4 21	11 34.50	+12 21.4	3.152	3.951	9.9	21.7

148787 2001 UV_{32} 3 18.9 160.°94 2.°4/16.3 18

2 11	12 19.15	+ 4 28.9	2.215	3.025	12.5	20.6
2 21	12 14.66	+ 5 26.8	2.136	3.031	9.5	20.4
3 2	12 8.27	+ 6 33.6	2.082	3.037	6.1	20.2
3 12	12 0.55	+ 7 43.3	2.056	3.042	2.9	20.0
3 22	11 52.25	+ 8 49.7	2.060	3.046	3.3	20.0
4 1	11 44.24	+ 9 46.5	2.093	3.050	6.5	20.2
4 11	11 37.31	+10 29.2	2.153	3.053	9.9	20.4
4 21	11 32.06	+10 55.6	2.237	3.055	12.8	20.6

88717 2001 SL_{22} 3 18.9 263.°19 0.°8/19.6 18

2 11	12 22.62	− 3 0.0	1.566	2.369	17.1	19.9
2 21	12 18.47	− 2 56.4	1.466	2.353	13.5	19.6
3 2	12 11.44	− 2 36.0	1.388	2.336	9.2	19.3
3 12	12 2.11	− 2 1.4	1.333	2.319	4.2	18.9
3 22	11 51.51	− 1 17.8	1.306	2.301	1.6	18.7
4 1	11 40.98	− 0 32.0	1.305	2.283	6.8	19.0
4 11	11 31.89	+ 0 7.9	1.330	2.265	12.0	19.2
4 21	11 25.24	+ 0 36.0	1.377	2.247	16.5	19.4

418284 2008 ED_{132} 3 19.0 157.°03 1.°9/16.9 18

2 11	12 20.37	+ 3 22.5	2.164	2.970	12.9	21.4
2 21	12 15.63	+ 4 9.7	2.085	2.977	9.8	21.2
3 2	12 8.91	+ 5 6.1	2.030	2.984	6.3	21.0
3 12	12 0.82	+ 6 6.6	2.003	2.990	2.8	20.8
3 22	11 52.14	+ 7 5.0	2.006	2.995	2.8	20.8
4 1	11 43.77	+ 7 55.4	2.038	3.000	6.3	21.0
4 11	11 36.53	+ 8 33.1	2.098	3.004	9.8	21.2
4 21	11 31.03	+ 8 55.7	2.181	3.008	12.8	21.4

326708 2003 BN_{77} 3 19.0 27.°74 4.°3/15.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 16.78	+ 6 46.2	1.280	2.130	17.5	19.9
2 21	12 13.94	+ 7 46.8	1.226	2.142	13.2	19.7
3 2	12 8.25	+ 8 57.5	1.193	2.155	8.6	19.4
3 12	12 0.62	+10 8.4	1.184	2.169	4.7	19.3
3 22	11 52.25	+11 9.3	1.199	2.183	5.6	19.3
4 1	11 44.50	+11 51.4	1.240	2.199	9.7	19.6
4 11	11 38.55	+12 10.0	1.303	2.216	14.0	19.9
4 21	11 35.09	+12 4.6	1.385	2.233	17.6	20.2

249128 2007 YS_{23} 3 19.0 63.°13 3.°8/15.1 17

2 11	12 19.49	+10 40.0	2.187	3.009	12.2	20.6
2 21	12 14.94	+11 17.8	2.112	3.012	9.3	20.4
3 2	12 8.46	+11 58.4	2.062	3.015	6.3	20.3
3 12	12 0.63	+12 36.3	2.039	3.018	4.0	20.1
3 22	11 52.24	+13 5.8	2.045	3.021	4.6	20.2
4 1	11 44.18	+13 22.7	2.079	3.024	7.4	20.3
4 11	11 37.25	+13 24.2	2.139	3.027	10.5	20.5
4 21	11 32.03	+13 9.9	2.222	3.030	13.2	20.7

410269 2007 TB_{147} 3 19.0 224.°36 1.°5/17.6 17

2 11	12 23.90	+ 2 31.4	2.010	2.811	13.9	21.7
2 21	12 18.72	+ 3 2.3	1.910	2.799	10.7	21.4
3 2	12 11.19	+ 3 43.8	1.834	2.786	7.0	21.2
3 12	12 1.89	+ 4 31.5	1.785	2.772	3.0	20.9
3 22	11 51.67	+ 5 19.4	1.766	2.757	2.5	20.8
4 1	11 41.60	+ 6 1.3	1.776	2.742	6.6	21.0
4 11	11 32.70	+ 6 31.8	1.813	2.725	10.7	21.2
4 21	11 25.77	+ 6 47.9	1.874	2.708	14.3	21.4

166577 2002 RO_{134} 3 19.0 169.°23 3.°9/14.1 17

2 11	12 16.07	+ 9 20.1	2.314	3.138	11.6	20.0
2 21	12 12.29	+10 36.9	2.238	3.140	8.8	19.8
3 2	12 6.72	+11 59.1	2.188	3.141	5.9	19.7
3 12	11 59.91	+13 20.2	2.165	3.143	3.9	19.5
3 22	11 52.56	+14 33.4	2.172	3.144	4.9	19.6
4 1	11 45.45	+15 32.6	2.208	3.145	7.6	19.8
4 11	11 39.33	+16 13.9	2.269	3.145	10.5	19.9
4 21	11 34.75	+16 36.1	2.354	3.146	13.1	20.1

224395 2005 UJ_{235} 3 19.0 146.°32 0.°5/18.5 18

2 11	12 18.36	− 1 24.2	2.078	2.877	13.6	21.2
2 21	12 14.20	− 0 42.6	1.997	2.883	10.5	21.0
3 2	12 8.04	+ 0 12.4	1.939	2.889	6.8	20.8
3 12	12 0.49	+ 1 16.2	1.908	2.895	2.8	20.5
3 22	11 52.32	+ 2 22.9	1.906	2.900	1.5	20.4
4 1	11 44.45	+ 3 26.0	1.933	2.905	5.6	20.7
4 11	11 37.70	+ 4 19.5	1.988	2.910	9.4	20.9
4 21	11 32.70	+ 4 59.5	2.067	2.914	12.6	21.1

409772 2006 DJ_{189} 3 19.0 305.°92 0.°6/18.7 16

2 11	12 22.18	+ 1 11.7	1.365	2.191	18.0	21.6
2 21	12 18.49	+ 1 8.0	1.274	2.174	14.1	21.3
3 2	12 11.64	+ 1 17.4	1.202	2.158	9.3	21.0
3 12	12 2.27	+ 1 36.0	1.154	2.141	3.9	20.6
3 22	11 51.51	+ 1 58.2	1.131	2.126	2.1	20.4
4 1	11 40.88	+ 2 16.9	1.133	2.110	7.8	20.7
4 11	11 31.91	+ 2 25.6	1.160	2.095	13.3	21.0
4 21	11 25.68	+ 2 20.2	1.207	2.081	18.0	21.2

280041 2001 YJ_{149} 3 19.0 117.°00 1.°1/17.8 18

2 11	12 22.10	+ 1 56.2	2.202	3.000	13.0	21.4
2 21	12 16.80	+ 2 26.4	2.132	3.020	9.9	21.2
3 2	12 9.58	+ 3 5.5	2.087	3.039	6.3	21.0
3 12	12 1.08	+ 3 49.2	2.070	3.057	2.6	20.8
3 22	11 52.11	+ 4 32.3	2.082	3.075	2.0	20.8
4 1	11 43.52	+ 5 9.7	2.124	3.092	5.6	21.0
4 11	11 36.13	+ 5 37.4	2.194	3.108	9.0	21.3
4 21	11 30.47	+ 5 53.1	2.289	3.124	12.0	21.5

95341 2002 CP_{130} 3 19.0 256.°95 0.°8/19.8 18

2 11	12 17.67	− 4 13.8	1.956	2.749	14.5	19.9
2 21	12 13.91	− 3 53.3	1.864	2.745	11.4	19.6
3 2	12 8.01	− 3 17.1	1.795	2.741	7.7	19.4
3 12	12 0.54	− 2 28.5	1.752	2.736	3.5	19.1
3 22	11 52.30	− 1 32.4	1.736	2.732	1.3	19.0
4 1	11 44.27	− 0 35.1	1.749	2.727	5.4	19.2
4 11	11 37.40	+ 0 16.7	1.789	2.722	9.5	19.5
4 21	11 32.35	+ 0 58.0	1.853	2.718	13.1	19.7

267203 2000 SX_{132} 3 19.0 264.°90 6.°0/24.1 17

2 11	12 21.77	−16 6.5	2.072	2.799	15.9	20.7
2 21	12 17.30	−16 50.8	1.959	2.781	13.5	20.5
3 2	12 10.43	−17 16.6	1.867	2.762	10.7	20.2
3 12	12 1.66	−17 21.8	1.798	2.744	7.9	20.0
3 22	11 51.79	−17 6.2	1.756	2.725	6.1	19.9
4 1	11 41.87	−16 32.3	1.741	2.705	6.9	19.9
4 11	11 33.00	−15 45.9	1.753	2.686	9.7	20.0
4 21	11 26.06	−14 54.3	1.790	2.666	13.0	20.2

353 Ruperto–Carola 3 19.0 73°.29 3°.0/16.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 21.97	+ 5 50.6	1.846	2.664	14.3	15.2
2 21	12 16.85	+ 6 51.4	1.800	2.699	10.7	15.0
3 2	12 9.63	+ 7 59.2	1.778	2.733	6.9	14.8
3 12	12 1.08	+ 9 6.8	1.783	2.767	3.5	14.7
3 22	11 52.15	+10 6.8	1.816	2.800	4.0	14.8
4 1	11 43.84	+10 53.3	1.879	2.833	7.3	15.1
4 11	11 36.98	+11 22.6	1.967	2.866	10.7	15.3
4 21	11 32.10	+11 34.0	2.078	2.898	13.6	15.6

505144 2012 LA_{19} 3 19.0 251°.56 6°.8/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.54	+19 14.0	2.270	3.092	11.8	22.3
2 21	12 16.75	+20 30.7	2.182	3.072	9.5	22.1
3 2	12 9.82	+21 46.7	2.118	3.052	7.5	21.9
3 12	12 1.31	+22 53.7	2.082	3.031	6.8	21.8
3 22	11 51.99	+23 44.5	2.074	3.009	7.9	21.8
4 1	11 42.83	+24 13.6	2.094	2.987	10.3	21.9
4 11	11 34.77	+24 18.7	2.137	2.964	12.9	22.1
4 21	11 28.49	+24 0.3	2.201	2.941	15.4	22.2

338211 2002 SZ_{34} 3 19.0 169°.43 2°.4/16.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.20	+ 7 14.4	2.536	3.343	11.2	21.1
2 21	12 15.23	+ 7 45.1	2.453	3.346	8.5	21.0
3 2	12 8.55	+ 8 20.4	2.396	3.349	5.5	20.8
3 12	12 0.68	+ 8 56.0	2.367	3.351	2.8	20.6
3 22	11 52.30	+ 9 27.3	2.368	3.353	3.1	20.6
4 1	11 44.16	+ 9 50.2	2.400	3.354	6.0	20.8
4 11	11 37.00	+10 1.8	2.458	3.355	8.9	21.0
4 21	11 31.34	+10 0.9	2.541	3.356	11.6	21.2

436361 2010 KA_{31} 3 19.0 263°.34 0°.8/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 14.62	− 0 24.9	2.779	3.573	10.7	21.7
2 21	12 11.03	+ 0 29.2	2.666	3.551	8.2	21.5
3 2	12 5.89	+ 1 34.6	2.578	3.529	5.3	21.2
3 12	11 59.61	+ 2 47.8	2.519	3.506	2.2	21.0
3 22	11 52.73	+ 4 3.8	2.490	3.483	1.6	20.9
4 1	11 45.90	+ 5 17.3	2.491	3.459	4.9	21.1
4 11	11 39.78	+ 6 22.8	2.522	3.435	8.1	21.3
4 21	11 34.90	+ 7 16.8	2.578	3.410	10.9	21.4

503757 2016 NQ_{4} 3 19.0 217°.38 6°.6/26.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.41	−22 32.4	2.610	3.284	14.1	21.2
2 21	12 14.15	−23 9.8	2.505	3.280	12.3	21.0
3 2	12 8.03	−23 28.3	2.421	3.276	10.2	20.9
3 12	12 0.54	−23 25.9	2.360	3.271	8.2	20.7
3 22	11 52.33	−23 2.8	2.325	3.267	6.7	20.6
4 1	11 44.21	−22 21.3	2.317	3.262	6.8	20.6
4 11	11 36.98	−21 26.2	2.337	3.257	8.2	20.7
4 21	11 31.29	−20 23.9	2.382	3.252	10.4	20.8

436298 2010 DG_{61} 3 19.0 358°.61 15°.5/26.7 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.96	+41 30.4	1.665	2.466	16.4	20.5
2 21	12 16.61	+43 38.7	1.638	2.463	15.6	20.5
3 2	12 10.12	+45 22.3	1.631	2.461	15.5	20.5
3 12	12 1.46	+46 29.7	1.644	2.460	16.2	20.5
3 22	11 51.99	+46 53.9	1.675	2.459	17.4	20.6
4 1	11 43.26	+46 33.6	1.723	2.460	18.9	20.7
4 11	11 36.56	+45 32.5	1.785	2.462	20.3	20.8
4 21	11 32.62	+43 57.6	1.860	2.464	21.6	21.0

283390 2000 QF_{205} 3 19.0 178°.27 1°.2/20.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.70	− 4 58.7	3.057	3.818	10.6	21.4
2 21	12 14.61	− 5 1.6	2.959	3.819	8.3	21.2
3 2	12 8.06	− 4 55.1	2.886	3.821	5.7	21.1
3 12	12 0.47	− 4 40.7	2.842	3.821	2.9	20.9
3 22	11 52.40	− 4 20.8	2.828	3.821	1.3	20.7
4 1	11 44.48	− 3 58.2	2.845	3.821	3.7	20.9
4 11	11 37.32	− 3 36.3	2.892	3.821	6.5	21.1
4 21	11 31.40	− 3 18.1	2.966	3.819	9.1	21.3

214771 2006 UR_{62} 3 19.0 109°.14 0°.6/18.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.91	+ 0 34.6	2.489	3.287	11.6	21.2
2 21	12 12.74	+ 1 2.4	2.409	3.296	8.9	21.0
3 2	12 6.94	+ 1 39.2	2.353	3.304	5.7	20.8
3 12	12 0.01	+ 2 21.5	2.326	3.313	2.3	20.6
3 22	11 52.60	+ 3 4.9	2.327	3.321	1.5	20.5
4 1	11 45.45	+ 3 44.8	2.359	3.329	4.9	20.8
4 11	11 39.23	+ 4 17.2	2.418	3.337	8.1	21.0
4 21	11 34.44	+ 4 39.3	2.502	3.345	10.9	21.2

28408 1999 TS_{222} 3 19.0 231°.50 3°.4/15.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.04	+ 7 0.6	2.015	2.839	13.0	18.9
2 21	12 13.33	+ 8 5.3	1.934	2.837	9.9	18.7
3 2	12 7.56	+ 9 18.1	1.878	2.834	6.5	18.5
3 12	12 0.34	+10 32.2	1.849	2.832	3.7	18.3
3 22	11 52.45	+11 40.3	1.849	2.829	4.4	18.4
4 1	11 44.81	+12 35.6	1.876	2.826	7.7	18.6
4 11	11 38.31	+13 13.3	1.929	2.824	11.1	18.8
4 21	11 33.58	+13 31.6	2.005	2.821	14.2	19.0

522469 2016 CP_{322} 3 19.0 304°.23 9°.1/26.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 17.84	−22 25.9	1.718	2.431	19.2	20.9
2 21	12 14.78	−23 22.9	1.617	2.418	16.9	20.7
3 2	12 9.04	−23 53.9	1.534	2.405	14.1	20.4
3 12	12 1.15	−23 54.6	1.471	2.392	11.4	20.2
3 22	11 52.04	−23 23.3	1.431	2.380	9.4	20.1
4 1	11 42.97	−22 22.8	1.415	2.368	9.4	20.0
4 11	11 35.21	−21 1.0	1.424	2.356	11.5	20.1
4 21	11 29.76	−19 28.6	1.455	2.344	14.6	20.3

300037 2006 UL_{131} 3 19.0 224°.65 1°.9/21.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 15.42	− 8 37.4	2.510	3.275	12.5	21.2
2 21	12 11.73	− 8 20.6	2.412	3.271	10.0	21.0
3 2	12 6.37	− 7 48.9	2.336	3.267	7.0	20.8
3 12	11 59.81	− 7 4.0	2.287	3.263	3.9	20.6
3 22	11 52.68	− 6 9.5	2.267	3.259	2.0	20.5
4 1	11 45.70	− 5 10.1	2.277	3.255	4.3	20.6
4 11	11 39.59	− 4 11.4	2.315	3.251	7.5	20.8
4 21	11 34.88	− 3 18.3	2.378	3.246	10.5	21.0

69139 2003 FH_{91} 3 19.0 128°.09 5°.5/25.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 15.40	−20 19.9	1.960	2.678	17.0	19.8
2 21	12 12.26	−19 53.9	1.866	2.680	14.4	19.6
3 2	12 6.97	−18 59.0	1.791	2.683	11.3	19.4
3 12	12 0.12	−17 35.5	1.739	2.685	8.1	19.2
3 22	11 52.55	−15 47.0	1.714	2.687	5.7	19.1
4 1	11 45.25	−13 41.4	1.717	2.689	6.1	19.1
4 11	11 39.15	−11 29.3	1.748	2.692	9.0	19.3
4 21	11 34.92	− 9 21.3	1.806	2.694	12.3	19.5

337846 2001 VR_{94} 3 19.0 102°.67 1°.4/21.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 15.80	− 8 36.6	2.741	3.500	11.7	20.7
2 21	12 11.70	− 7 55.9	2.665	3.522	9.2	20.6
3 2	12 6.15	− 7 1.1	2.613	3.544	6.4	20.4
3 12	11 59.65	− 5 55.0	2.588	3.566	3.3	20.3
3 22	11 52.78	− 4 42.0	2.594	3.587	1.4	20.1
4 1	11 46.18	− 3 27.1	2.631	3.608	3.8	20.3
4 11	11 40.45	− 2 15.7	2.697	3.629	6.7	20.6
4 21	11 36.02	− 1 12.2	2.789	3.649	9.4	20.8

381532 2008 SL_{275} 3 19.0 169°.45 1°.6/20.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.31	− 6 37.6	2.254	3.028	13.5	21.8
2 21	12 14.09	− 6 24.6	2.163	3.030	10.7	21.7
3 2	12 7.97	− 5 56.8	2.095	3.032	7.4	21.4
3 12	12 0.50	− 5 16.4	2.054	3.034	3.8	21.2
3 22	11 52.40	− 4 27.4	2.041	3.035	1.7	21.1
4 1	11 44.52	− 3 34.9	2.058	3.036	4.7	21.3
4 11	11 37.66	− 2 44.6	2.103	3.037	8.2	21.5
4 21	11 32.43	− 2 1.4	2.173	3.037	11.4	21.7

27158 1998 YZ_{29} 3 19.0 34°.67 5°.7/13.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.22	+15 13.9	2.017	2.847	12.8	17.4
2 21	12 14.94	+16 11.9	1.950	2.850	9.9	17.3
3 2	12 8.56	+17 9.9	1.907	2.854	7.2	17.1
3 12	12 0.74	+18 0.4	1.890	2.857	5.7	17.0
3 22	11 52.32	+18 37.0	1.902	2.860	6.7	17.1
4 1	11 44.28	+18 54.7	1.940	2.864	9.2	17.2
4 11	11 37.49	+18 51.5	2.002	2.868	12.1	17.4
4 21	11 32.56	+18 28.2	2.086	2.872	14.7	17.6

94288 2001 DY_{62} 3 19.0 97°.45 3°.2/15.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.74	+ 6 27.5	2.240	3.054	12.2	20.4
2 21	12 14.19	+ 7 52.4	2.184	3.082	9.2	20.3
3 2	12 7.86	+ 9 23.8	2.154	3.109	5.9	20.1
3 12	12 0.38	+10 54.5	2.153	3.135	3.4	20.0
3 22	11 52.50	+12 17.5	2.182	3.160	4.2	20.1
4 1	11 45.02	+13 26.6	2.241	3.185	7.0	20.3
4 11	11 38.67	+14 17.9	2.326	3.210	9.9	20.5
4 21	11 33.95	+14 50.2	2.435	3.233	12.5	20.7

506022 2015 HV_{100} 3 19.0 282°.26 0°.5/19.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 15.40	− 4 33.0	2.490	3.273	12.1	22.0
2 21	12 11.88	− 3 57.3	2.369	3.245	9.5	21.8
3 2	12 6.60	− 3 6.9	2.272	3.216	6.4	21.5
3 12	11 59.98	− 2 4.6	2.202	3.187	2.9	21.2
3 22	11 52.60	− 0 54.7	2.162	3.157	1.0	21.0
4 1	11 45.23	+ 0 17.2	2.152	3.127	4.7	21.2
4 11	11 38.63	+ 1 25.0	2.170	3.097	8.4	21.4
4 21	11 33.44	+ 2 23.6	2.213	3.067	11.7	21.6

214724 2006 TH_{17} 3 19.0 196°.21 0°.7/18.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.66	+ 0 39.6	2.729	3.524	10.8	21.7
2 21	12 12.49	+ 1 9.8	2.636	3.521	8.3	21.5
3 2	12 6.77	+ 1 48.8	2.569	3.519	5.4	21.3
3 12	11 59.96	+ 2 33.0	2.529	3.516	2.2	21.1
3 22	11 52.65	+ 3 18.6	2.520	3.513	1.4	21.0
4 1	11 45.51	+ 4 1.2	2.540	3.510	4.6	21.3
4 11	11 39.18	+ 4 36.7	2.589	3.506	7.7	21.4
4 21	11 34.16	+ 5 2.4	2.664	3.502	10.4	21.6

4174 Pikulia 3 19.0 250°.19 0°.8/18.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 15.74	+ 0 38.1	2.617	3.415	11.1	17.4
2 21	12 11.91	+ 1 11.8	2.517	3.404	8.6	17.3
3 2	12 6.47	+ 1 55.0	2.442	3.393	5.5	17.0
3 12	11 59.86	+ 2 44.3	2.395	3.382	2.3	16.8
3 22	11 52.69	+ 3 35.2	2.377	3.371	1.6	16.7
4 1	11 45.64	+ 4 23.0	2.390	3.359	4.9	16.9
4 11	11 39.40	+ 5 3.2	2.430	3.348	8.1	17.1
4 21	11 34.50	+ 5 32.9	2.496	3.336	11.0	17.3

287484 2003 BF_9 3 19.0 328°.31 5°.6/24.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.91	−17 15.3	2.218	2.942	15.1	20.0
2 21	12 13.24	−17 44.9	2.119	2.937	12.8	19.8
3 2	12 7.56	−17 55.0	2.041	2.933	10.1	19.6
3 12	12 0.39	−17 44.5	1.986	2.929	7.4	19.5
3 22	11 52.45	−17 14.5	1.958	2.925	5.7	19.3
4 1	11 44.65	−16 28.5	1.957	2.922	6.2	19.4
4 11	11 37.87	−15 32.5	1.983	2.918	8.6	19.5
4 21	11 32.77	−14 33.1	2.033	2.915	11.4	19.7

306465 1999 RG_{75} 3 19.0 97°.22 1°.6/20.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.26	− 4 47.9	1.782	2.563	16.2	20.5
2 21	12 20.41	− 4 53.8	1.716	2.587	12.7	20.3
3 2	12 12.14	− 4 44.3	1.671	2.611	8.6	20.1
3 12	12 2.24	− 4 22.2	1.652	2.634	4.2	19.9
3 22	11 51.72	− 3 51.6	1.662	2.657	1.8	19.7
4 1	11 41.75	− 3 18.2	1.701	2.679	5.6	20.0
4 11	11 33.33	− 2 47.8	1.767	2.700	9.6	20.3
4 21	11 27.13	− 2 24.9	1.858	2.721	13.1	20.6

143246 2002 YK_{27} 3 19.0 32°.47 5°.0/24.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.59	−15 35.7	2.210	2.942	14.9	19.5
2 21	12 13.69	−16 1.3	2.118	2.945	12.5	19.3
3 2	12 7.80	−16 8.1	2.047	2.947	9.7	19.1
3 12	12 0.47	−15 55.6	2.000	2.950	6.9	19.0
3 22	11 52.44	−15 25.3	1.980	2.953	5.1	18.9
4 1	11 44.60	−14 41.1	1.988	2.956	5.8	18.9
4 11	11 37.81	−13 48.9	2.022	2.959	8.3	19.1
4 21	11 32.71	−12 55.0	2.082	2.963	11.2	19.2

249091 2007 VV_{93} 3 19.0 247°.66 9°.9/29.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.46	−30 35.7	2.171	2.797	17.8	21.3
2 21	12 17.27	−31 8.0	2.048	2.775	16.2	21.1
3 2	12 10.54	−31 12.5	1.941	2.752	14.2	20.9
3 12	12 1.78	−30 44.3	1.854	2.728	12.0	20.7
3 22	11 51.83	−29 40.8	1.790	2.703	10.4	20.6
4 1	11 41.81	−28 3.6	1.751	2.678	9.9	20.5
4 11	11 32.93	−26 0.1	1.739	2.651	11.1	20.5
4 21	11 26.11	−23 40.9	1.753	2.623	13.5	20.6

257003 2008 ED_{151} 3 19.0 89°.18 6°.0/14.2 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.14	+15 15.9	1.753	2.578	14.6	19.9
2 21	12 20.35	+16 2.8	1.697	2.595	11.3	19.7
3 2	12 12.09	+16 48.5	1.665	2.612	8.1	19.6
3 12	12 2.20	+17 24.9	1.660	2.629	6.1	19.5
3 22	11 51.77	+17 45.1	1.682	2.645	6.9	19.6
4 1	11 41.98	+17 45.1	1.731	2.661	9.7	19.8
4 11	11 33.85	+17 23.8	1.805	2.677	12.9	20.0
4 21	11 28.01	+16 43.3	1.900	2.693	15.7	20.2

109766 2001 RU_{77} 3 19.0 179°.42 7°.4/11.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.84	+20 44.0	2.073	2.897	12.7	19.3
2 21	12 17.74	+21 59.0	2.008	2.898	10.3	19.2
3 2	12 10.41	+23 10.1	1.968	2.898	8.2	19.1
3 12	12 1.54	+24 8.7	1.955	2.899	7.5	19.0
3 22	11 52.03	+24 47.7	1.968	2.899	8.6	19.1
4 1	11 42.92	+25 2.6	2.008	2.898	10.8	19.2
4 11	11 35.14	+24 52.4	2.071	2.897	13.3	19.4
4 21	11 29.35	+24 19.1	2.155	2.896	15.6	19.5

27147 Mercedessosa 3 19.0 5°.50 3°.4/22.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.48	−10 46.2	2.189	2.946	14.3	18.8
2 21	12 14.36	−11 1.6	2.096	2.946	11.7	18.6
3 2	12 8.24	−11 0.6	2.025	2.946	8.6	18.4
3 12	12 0.66	−10 43.8	1.979	2.946	5.4	18.2
3 22	11 52.39	−10 13.5	1.960	2.946	3.4	18.0
4 1	11 44.30	− 9 34.0	1.970	2.946	5.1	18.1
4 11	11 37.26	− 8 50.9	2.008	2.947	8.3	18.3
4 21	11 31.92	− 8 9.6	2.071	2.947	11.4	18.5

494726 2005 TF_3 3 19.0 173°.38 0°.2/19.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.06	− 3 31.1	2.834	3.606	11.0	22.8
2 21	12 14.23	− 2 51.2	2.740	3.611	8.5	22.7
3 2	12 7.86	− 1 59.9	2.672	3.615	5.6	22.5
3 12	12 0.43	− 1 0.4	2.633	3.618	2.4	22.3
3 22	11 52.51	+ 0 3.1	2.625	3.620	0.9	22.1
4 1	11 44.77	+ 1 5.9	2.648	3.621	4.2	22.4
4 11	11 37.87	+ 2 3.3	2.701	3.621	7.3	22.6
4 21	11 32.28	+ 2 51.5	2.780	3.621	10.0	22.8

410388 2007 VT_{310} 3 19.0 184°.11 1°.2/17.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 21.27	+ 1 9.9	2.099	2.899	13.4	21.8
2 21	12 16.48	+ 1 50.8	2.011	2.900	10.3	21.6
3 2	12 9.61	+ 2 43.2	1.948	2.900	6.7	21.4
3 12	12 1.23	+ 3 42.3	1.912	2.899	2.7	21.1
3 22	11 52.16	+ 4 42.1	1.905	2.897	2.2	21.1
4 1	11 43.33	+ 5 36.3	1.928	2.895	6.1	21.3
4 11	11 35.66	+ 6 19.5	1.978	2.892	9.8	21.5
4 21	11 29.79	+ 6 48.4	2.052	2.889	13.1	21.7

414167 2008 AX_{82} 3 19.0 47°.53 1°.7/17.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.84	+ 1 47.3	1.418	2.246	17.3	21.2
2 21	12 16.12	+ 2 21.1	1.354	2.257	13.2	21.0
3 2	12 9.67	+ 3 9.0	1.311	2.269	8.5	20.8
3 12	12 1.30	+ 4 4.2	1.292	2.281	3.5	20.5
3 22	11 52.15	+ 4 58.7	1.300	2.293	2.8	20.5
4 1	11 43.53	+ 5 44.3	1.334	2.305	7.6	20.8
4 11	11 36.62	+ 6 14.7	1.392	2.318	12.2	21.1
4 21	11 32.13	+ 6 26.9	1.471	2.331	16.1	21.3

2246 Bowell 3 19.0 359°.14 0°.9/17.7 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 12.35	+ 1 14.2	2.783	3.587	10.4	16.2
2 21	12 9.19	+ 1 54.1	2.695	3.586	7.9	16.0
3 2	12 4.62	+ 2 42.4	2.632	3.585	5.1	15.9
3 12	11 59.07	+ 3 35.6	2.598	3.585	2.1	15.6
3 22	11 53.09	+ 4 29.3	2.593	3.585	1.7	15.6
4 1	11 47.28	+ 5 19.1	2.617	3.585	4.6	15.8
4 11	11 42.22	+ 6 0.9	2.670	3.586	7.5	16.0
4 21	11 38.35	+ 6 32.1	2.747	3.586	10.1	16.2

237713 2001 UB_{203} 3 19.0 153°.34 7°.4/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.81	+27 43.4	2.822	3.628	10.2	20.7
2 21	12 15.64	+28 56.2	2.770	3.635	8.7	20.6
3 2	12 8.78	+30 1.0	2.743	3.642	7.6	20.5
3 12	12 0.80	+30 51.5	2.744	3.648	7.5	20.5
3 22	11 52.39	+31 23.0	2.772	3.654	8.3	20.6
4 1	11 44.31	+31 32.9	2.825	3.660	9.8	20.7
4 11	11 37.28	+31 21.0	2.902	3.665	11.4	20.8
4 21	11 31.79	+30 49.3	2.999	3.669	13.0	21.0

417483 2006 RW_{59} 3 19.0 186°.16 0°.6/18.5 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.59	− 0 10.4	2.223	3.016	13.0	22.9
2 21	12 16.62	+ 0 19.4	2.133	3.016	10.1	22.7
3 2	12 9.66	+ 1 0.4	2.066	3.015	6.5	22.5
3 12	12 1.25	+ 1 48.9	2.027	3.014	2.7	22.2
3 22	11 52.17	+ 2 39.7	2.017	3.011	1.6	22.1
4 1	11 43.32	+ 3 27.3	2.038	3.009	5.5	22.4
4 11	11 35.55	+ 4 6.5	2.086	3.005	9.2	22.6
4 21	11 29.49	+ 4 34.0	2.160	3.001	12.4	22.8

154710 2004 KR_4 3 19.0 101°.82 1°.2/18.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.14	− 1 25.6	1.386	2.209	17.9	19.8
2 21	12 15.76	− 0 27.7	1.315	2.214	13.8	19.5
3 2	12 9.57	+ 0 50.6	1.264	2.220	8.9	19.2
3 12	12 1.32	+ 2 22.2	1.237	2.225	3.6	18.9
3 22	11 52.16	+ 3 56.9	1.237	2.231	2.5	18.9
4 1	11 43.44	+ 5 23.5	1.263	2.236	7.8	19.2
4 11	11 36.41	+ 6 32.6	1.314	2.241	12.7	19.5
4 21	11 31.87	+ 7 19.2	1.386	2.246	16.9	19.8

115143 2003 SO_{64} 3 19.0 40°.36 0°.5/18.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.98	+ 0 43.6	1.489	2.306	17.2	19.8
2 21	12 18.58	+ 0 47.5	1.413	2.309	13.3	19.5
3 2	12 11.35	+ 1 4.5	1.358	2.312	8.7	19.3
3 12	12 2.07	+ 1 30.1	1.328	2.315	3.6	19.0
3 22	11 51.85	+ 1 58.6	1.324	2.319	1.9	18.9
4 1	11 42.05	+ 2 23.3	1.347	2.322	7.0	19.2
4 11	11 33.91	+ 2 38.5	1.395	2.326	11.8	19.5
4 21	11 28.26	+ 2 40.6	1.465	2.330	15.9	19.7

114549 2003 BU_{32} 3 19.0 328°.14 1°.1/17.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 13.46	− 0 2.6	1.948	2.764	13.7	19.9
2 21	12 10.74	+ 0 45.0	1.855	2.752	10.6	19.7
3 2	12 6.00	+ 1 46.9	1.786	2.741	6.8	19.5
3 12	11 59.78	+ 2 58.1	1.742	2.730	2.8	19.2
3 22	11 52.81	+ 4 12.0	1.727	2.720	2.1	19.1
4 1	11 46.01	+ 5 21.2	1.739	2.710	6.2	19.3
4 11	11 40.28	+ 6 18.9	1.777	2.700	10.2	19.6
4 21	11 36.27	+ 7 0.8	1.839	2.692	13.7	19.8

510326 2011 SQ_{27} 3 19.0 218°.41 3°.1/23.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 15.66	−15 1.9	3.183	3.899	11.1	22.6
2 21	12 11.64	−14 47.1	3.068	3.888	9.2	22.4
3 2	12 6.21	−14 17.2	2.976	3.877	7.0	22.2
3 12	11 59.77	−13 32.7	2.911	3.866	4.7	22.1
3 22	11 52.83	−12 35.8	2.875	3.854	3.2	21.9
4 1	11 45.97	−11 30.1	2.869	3.842	4.0	22.0
4 11	11 39.79	−10 20.4	2.894	3.829	6.2	22.1
4 21	11 34.74	− 9 11.5	2.946	3.815	8.6	22.2

99516 2002 EM_{30} 3 19.0 262.°26 1.°8/17.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 22.86	+ 3 12.2	1.650	2.467	15.8	19.8
2 21	12 18.45	+ 3 33.7	1.557	2.454	12.2	19.5
3 2	12 11.32	+ 4 6.4	1.486	2.441	8.0	19.3
3 12	12 2.11	+ 4 45.3	1.440	2.428	3.4	18.9
3 22	11 51.82	+ 5 23.9	1.422	2.414	2.9	18.9
4 1	11 41.70	+ 5 55.1	1.431	2.400	7.5	19.1
4 11	11 33.01	+ 6 13.3	1.466	2.386	12.2	19.3
4 21	11 26.63	+ 6 15.4	1.522	2.372	16.2	19.6

496056 2009 BH_{189} 3 19.0 109.°20 6.°1/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.11	+18 9.1	2.369	3.193	11.3	21.4
2 21	12 14.51	+19 31.8	2.317	3.210	8.9	21.3
3 2	12 8.12	+20 52.1	2.291	3.227	6.9	21.2
3 12	12 0.55	+22 2.6	2.293	3.244	6.1	21.1
3 22	11 52.54	+22 57.1	2.324	3.260	7.1	21.2
4 1	11 44.91	+23 31.6	2.381	3.276	9.1	21.4
4 11	11 38.41	+23 44.6	2.463	3.292	11.4	21.5
4 21	11 33.52	+23 37.0	2.567	3.307	13.4	21.7

496940 2001 WZ_{33} 3 19.0 93.°39 4.°8/13.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.40	+15 14.7	2.490	3.310	11.0	21.7
2 21	12 14.57	+16 13.5	2.436	3.331	8.5	21.5
3 2	12 8.08	+17 11.5	2.408	3.352	6.1	21.4
3 12	12 0.51	+18 2.6	2.408	3.372	4.8	21.4
3 22	11 52.57	+18 41.6	2.437	3.393	5.6	21.4
4 1	11 45.02	+19 4.9	2.495	3.413	7.8	21.6
4 11	11 38.53	+19 11.0	2.578	3.432	10.1	21.8
4 21	11 33.58	+19 0.2	2.684	3.452	12.2	22.0

94721 2001 XR_{62} 3 19.0 46.°48 3.°1/16.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.79	+ 4 1.5	1.293	2.132	18.0	19.0
2 21	12 16.36	+ 4 53.6	1.231	2.141	13.7	18.8
3 2	12 9.97	+ 5 59.3	1.190	2.150	8.8	18.5
3 12	12 1.49	+ 7 10.0	1.173	2.160	4.1	18.3
3 22	11 52.16	+ 8 15.5	1.181	2.170	4.3	18.3
4 1	11 43.39	+ 9 6.3	1.214	2.180	9.0	18.6
4 11	11 36.46	+ 9 36.1	1.271	2.191	13.7	18.9
4 21	11 32.15	+ 9 43.0	1.347	2.202	17.7	19.2

435955 2009 DU_{30} 3 19.0 341.°89 0.°9/19.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.49	− 2 39.7	2.137	2.927	13.6	20.9
2 21	12 15.14	− 2 46.2	2.046	2.925	10.6	20.7
3 2	12 8.76	− 2 41.6	1.978	2.922	7.2	20.4
3 12	12 0.92	− 2 27.8	1.936	2.920	3.3	20.2
3 22	11 52.38	− 2 8.3	1.923	2.918	1.2	20.0
4 1	11 44.05	− 1 47.3	1.939	2.917	5.0	20.3
4 11	11 36.80	− 1 29.2	1.982	2.915	8.8	20.5
4 21	11 31.28	− 1 17.7	2.050	2.914	12.1	20.7

508572 2017 NE_{4} 3 19.0 223.°62 2.°2/16.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.74	+ 3 56.3	2.233	3.042	12.4	22.4
2 21	12 14.53	+ 4 53.2	2.138	3.033	9.5	22.2
3 2	12 8.36	+ 6 0.2	2.068	3.022	6.1	22.0
3 12	12 0.75	+ 7 11.9	2.026	3.012	2.9	21.7
3 22	11 52.44	+ 8 21.8	2.013	3.000	3.2	21.7
4 1	11 44.28	+ 9 23.4	2.030	2.988	6.6	21.9
4 11	11 37.13	+10 11.4	2.073	2.975	10.1	22.1
4 21	11 31.61	+10 42.9	2.141	2.962	13.2	22.3

225557 2000 SD_{334} 3 19.0 126.°58 2.°1/16.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.35	+ 4 31.8	2.182	2.991	12.7	21.1
2 21	12 15.58	+ 5 16.5	2.111	3.005	9.6	20.9
3 2	12 8.90	+ 6 9.1	2.064	3.018	6.2	20.8
3 12	12 0.91	+ 7 4.1	2.044	3.030	2.9	20.6
3 22	11 52.41	+ 7 55.8	2.054	3.042	3.0	20.6
4 1	11 44.25	+ 8 38.7	2.094	3.054	6.3	20.8
4 11	11 37.25	+ 9 8.7	2.160	3.065	9.6	21.0
4 21	11 31.95	+ 9 24.0	2.251	3.076	12.5	21.2

39173 2000 WV_{151} 3 19.0 74.°01 1.°8/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.78	+ 0 58.3	1.823	2.640	14.5	18.6
2 21	12 13.20	+ 2 5.4	1.757	2.655	11.0	18.4
3 2	12 7.51	+ 3 26.0	1.713	2.670	7.0	18.2
3 12	12 0.36	+ 4 53.1	1.697	2.685	2.9	18.0
3 22	11 52.64	+ 6 18.8	1.709	2.699	2.8	18.0
4 1	11 45.32	+ 7 34.9	1.749	2.714	6.8	18.3
4 11	11 39.27	+ 8 35.1	1.815	2.729	10.6	18.5
4 21	11 35.11	+ 9 16.2	1.904	2.744	13.9	18.8

84894 2003 SJ_{182} 3 19.0 165.°44 0.°9/20.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.01	− 6 51.7	2.555	3.325	12.1	20.0
2 21	12 12.11	− 6 4.9	2.463	3.329	9.5	19.8
3 2	12 6.60	− 5 3.0	2.395	3.333	6.5	19.6
3 12	11 59.95	− 3 49.1	2.355	3.337	3.1	19.4
3 22	11 52.80	− 2 28.2	2.345	3.340	1.1	19.2
4 1	11 45.85	− 1 6.1	2.365	3.342	4.3	19.5
4 11	11 39.78	+ 0 11.1	2.415	3.344	7.6	19.7
4 21	11 35.09	+ 1 18.7	2.491	3.346	10.5	19.9

451100 2009 CU_{62} 3 19.0 51.°50 0.°2/19.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 19.60	− 2 56.2	1.333	2.153	18.6	21.4
2 21	12 16.11	− 2 31.3	1.269	2.166	14.5	21.2
3 2	12 9.76	− 1 46.6	1.226	2.179	9.5	21.0
3 12	12 1.40	− 0 47.6	1.206	2.193	4.1	20.7
3 22	11 52.21	+ 0 17.6	1.212	2.208	1.6	20.5
4 1	11 43.59	+ 1 19.8	1.244	2.222	7.0	20.9
4 11	11 36.74	+ 2 10.4	1.300	2.237	11.9	21.2
4 21	11 32.44	+ 2 44.3	1.377	2.252	16.1	21.5

502782 2015 DC_{97} 3 19.0 150.°03 1.°3/17.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.09	+ 2 22.4	2.298	3.103	12.3	21.6
2 21	12 13.84	+ 2 58.5	2.216	3.108	9.4	21.4
3 2	12 7.79	+ 3 43.7	2.158	3.112	6.0	21.2
3 12	12 0.47	+ 4 33.5	2.128	3.115	2.5	21.0
3 22	11 52.59	+ 5 22.8	2.127	3.119	2.2	21.0
4 1	11 44.97	+ 6 6.3	2.156	3.122	5.6	21.2
4 11	11 38.36	+ 6 39.7	2.212	3.125	9.0	21.4
4 21	11 33.33	+ 7 0.4	2.292	3.128	11.9	21.6

419666 2010 TZ_{137} 3 19.0 128.°90 2.°5/16.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.07	+ 6 37.8	2.416	3.218	11.8	21.8
2 21	12 17.40	+ 7 22.9	2.349	3.239	8.9	21.6
3 2	12 9.95	+ 8 13.4	2.307	3.259	5.8	21.4
3 12	12 1.32	+ 9 4.0	2.294	3.278	3.0	21.3
3 22	11 52.27	+ 9 49.5	2.312	3.296	3.3	21.3
4 1	11 43.59	+10 25.2	2.360	3.313	6.2	21.5
4 11	11 36.03	+10 48.1	2.436	3.329	9.2	21.8
4 21	11 30.10	+10 57.0	2.537	3.345	11.8	22.0

433251 2012 VT_{109} 3 19.1 94.°41 7.°9/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.07	+26 48.0	2.476	3.290	11.2	20.7
2 21	12 15.25	+28 9.0	2.434	3.307	9.4	20.7
3 2	12 8.60	+29 21.3	2.418	3.323	8.2	20.6
3 12	12 0.76	+30 17.8	2.428	3.338	8.0	20.6
3 22	11 52.51	+30 53.2	2.465	3.354	9.0	20.7
4 1	11 44.69	+31 4.8	2.526	3.369	10.6	20.8
4 11	11 38.05	+30 52.9	2.611	3.384	12.3	21.0
4 21	11 33.08	+30 19.7	2.714	3.399	13.9	21.1

229189 2004 TH_{222} 3 19.1 146.°43 5.°8/11.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.13	+18 25.0	2.501	3.319	11.0	20.9
2 21	12 16.00	+19 37.1	2.440	3.330	8.7	20.7
3 2	12 9.09	+20 47.0	2.406	3.340	6.7	20.6
3 12	12 0.98	+21 47.7	2.399	3.350	5.8	20.6
3 22	11 52.41	+22 33.6	2.422	3.359	6.8	20.7
4 1	11 44.18	+23 0.6	2.472	3.368	8.8	20.8
4 11	11 37.04	+23 7.5	2.547	3.376	11.0	21.0
4 21	11 31.50	+22 55.1	2.644	3.384	13.1	21.1

289168 2004 VR_{56} 3 19.1 79.°09 3.°2/21.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.93	− 9 59.5	1.510	2.289	18.7	20.5
2 21	12 18.30	− 9 55.4	1.449	2.315	15.0	20.3
3 2	12 10.99	− 9 27.9	1.407	2.340	10.6	20.1
3 12	12 1.86	− 8 39.4	1.389	2.364	6.0	19.9
3 22	11 52.06	− 7 35.7	1.398	2.389	3.2	19.7
4 1	11 42.86	− 6 25.2	1.434	2.413	6.1	20.0
4 11	11 35.39	− 5 17.0	1.495	2.437	10.3	20.3
4 21	11 30.34	− 4 18.5	1.580	2.460	14.1	20.6

120873 1998 RH_{26} 3 19.1 198.°86 2.°2/17.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.56	+ 3 16.6	1.750	2.562	15.2	20.4
2 21	12 18.73	+ 3 59.4	1.664	2.560	11.7	20.2
3 2	12 11.35	+ 4 54.0	1.602	2.556	7.6	19.9
3 12	12 2.08	+ 5 54.4	1.565	2.552	3.3	19.6
3 22	11 51.92	+ 6 53.2	1.557	2.547	3.2	19.6
4 1	11 42.03	+ 7 42.9	1.577	2.541	7.5	19.9
4 11	11 33.55	+ 8 17.6	1.623	2.535	11.7	20.1
4 21	11 27.28	+ 8 34.3	1.692	2.528	15.5	20.3

296034 2008 YS_{167} 3 19.1 104.°72 2.°1/16.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.67	+ 4 49.5	2.299	3.109	12.1	21.0
2 21	12 14.20	+ 5 30.9	2.228	3.123	9.2	20.8
3 2	12 7.96	+ 6 19.4	2.183	3.137	5.9	20.6
3 12	12 0.53	+ 7 9.8	2.165	3.151	2.7	20.5
3 22	11 52.62	+ 7 57.0	2.177	3.164	2.9	20.5
4 1	11 45.04	+ 8 35.9	2.217	3.177	6.0	20.7
4 11	11 38.52	+ 9 2.8	2.285	3.190	9.1	20.9
4 21	11 33.59	+ 9 16.0	2.377	3.203	11.9	21.1

383745 2007 VL_{90} 3 19.1 196.°59 4.°5/13.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.97	+13 32.1	2.519	3.340	10.8	20.8
2 21	12 13.66	+14 32.7	2.441	3.338	8.3	20.6
3 2	12 7.63	+15 34.9	2.389	3.336	5.9	20.5
3 12	12 0.41	+16 32.8	2.365	3.334	4.5	20.4
3 22	11 52.66	+17 20.5	2.370	3.331	5.4	20.4
4 1	11 45.13	+17 53.7	2.404	3.328	7.7	20.6
4 11	11 38.56	+18 9.8	2.463	3.325	10.3	20.7
4 21	11 33.47	+18 8.2	2.545	3.321	12.6	20.9

28838 2000 JA_{41} 3 19.1 57°.86 5°.7/25.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 15.90	−18 34.2	1.712	2.451	18.4	18.2
2 21	12 12.94	−18 26.2	1.628	2.458	15.5	18.0
3 2	12 7.58	−17 49.1	1.563	2.465	12.0	17.8
3 12	12 0.50	−16 42.8	1.520	2.471	8.5	17.6
3 22	11 52.61	−15 11.0	1.502	2.478	5.9	17.4
4 1	11 45.05	−13 21.7	1.512	2.486	6.6	17.5
4 11	11 38.86	−11 26.1	1.547	2.493	9.7	17.7
4 21	11 34.76	− 9 34.8	1.608	2.500	13.2	17.9

253223 2002 YV_{5} 3 19.1 43°.01 1°.0/18.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.16	+ 0 54.4	1.460	2.284	17.1	19.5
2 21	12 16.30	+ 1 15.2	1.397	2.297	13.1	19.3
3 2	12 9.77	+ 1 49.6	1.355	2.311	8.5	19.1
3 12	12 1.39	+ 2 32.3	1.337	2.325	3.4	18.8
3 22	11 52.27	+ 3 16.0	1.345	2.339	2.2	18.7
4 1	11 43.69	+ 3 53.5	1.380	2.354	7.1	19.1
4 11	11 36.78	+ 4 18.8	1.440	2.370	11.6	19.4
4 21	11 32.23	+ 4 28.7	1.521	2.385	15.5	19.6

285904 2001 QH_{103} 3 19.1 177°.26 1°.5/17.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.72	+ 2 31.1	2.536	3.333	11.5	22.4
2 21	12 14.95	+ 3 22.9	2.448	3.336	8.7	22.3
3 2	12 8.46	+ 4 23.8	2.386	3.338	5.6	22.1
3 12	12 0.76	+ 5 29.1	2.353	3.339	2.4	21.8
3 22	11 52.52	+ 6 33.6	2.350	3.340	2.3	21.8
4 1	11 44.50	+ 7 31.6	2.378	3.340	5.5	22.0
4 11	11 37.40	+ 8 18.8	2.434	3.338	8.7	22.2
4 21	11 31.78	+ 8 52.4	2.515	3.337	11.5	22.4

60904 2000 JG_{29} 3 19.1 3°.25 0°.4/18.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.81	− 0 9.9	1.170	2.007	19.7	19.2
2 21	12 16.85	− 0 4.7	1.099	2.006	15.3	19.0
3 2	12 10.61	+ 0 17.9	1.047	2.005	10.1	18.7
3 12	12 1.90	+ 0 52.9	1.018	2.006	4.2	18.3
3 22	11 52.03	+ 1 32.9	1.012	2.007	2.0	18.2
4 1	11 42.61	+ 2 9.1	1.030	2.009	8.0	18.5
4 11	11 35.14	+ 2 33.4	1.071	2.012	13.5	18.8
4 21	11 30.59	+ 2 41.2	1.132	2.016	18.2	19.1

432810 2011 GF_{60} 3 19.1 207°.16 3°.9/14.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.67	+ 9 7.1	2.045	2.869	12.8	20.7
2 21	12 14.58	+10 4.3	1.966	2.868	9.8	20.5
3 2	12 8.42	+11 7.1	1.912	2.866	6.5	20.3
3 12	12 0.80	+12 8.9	1.885	2.865	4.1	20.1
3 22	11 52.52	+13 2.9	1.886	2.863	4.8	20.2
4 1	11 44.51	+13 43.1	1.915	2.861	7.9	20.4
4 11	11 37.67	+14 5.5	1.970	2.859	11.2	20.5
4 21	11 32.61	+14 9.2	2.047	2.857	14.1	20.7

398884 2013 CJ_{85} 3 19.1 264°.40 2°.5/16.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.51	+ 2 44.0	1.524	2.349	16.5	21.5
2 21	12 16.92	+ 3 36.7	1.430	2.332	12.7	21.2
3 2	12 10.50	+ 4 45.3	1.357	2.315	8.3	20.9
3 12	12 1.86	+ 6 3.3	1.310	2.297	3.7	20.5
3 22	11 52.02	+ 7 21.5	1.289	2.279	3.8	20.5
4 1	11 42.29	+ 8 29.8	1.295	2.261	8.6	20.7
4 11	11 34.01	+ 9 19.9	1.326	2.243	13.5	20.9
4 21	11 28.16	+ 9 47.5	1.377	2.224	17.8	21.2

204964 1981 EN_{46} 3 19.1 335°.39 1°.8/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.24	− 4 0.7	1.204	2.032	19.8	20.3
2 21	12 14.98	− 4 13.8	1.121	2.019	15.7	20.0
3 2	12 9.52	− 4 6.6	1.056	2.008	10.8	19.7
3 12	12 1.53	− 3 41.3	1.012	1.997	5.3	19.4
3 22	11 52.16	− 3 2.9	0.992	1.987	2.1	19.1
4 1	11 43.00	− 2 19.7	0.996	1.978	7.5	19.4
4 11	11 35.61	− 1 41.3	1.023	1.971	13.1	19.7
4 21	11 31.06	− 1 14.9	1.069	1.964	18.1	19.9

92342 2000 GT_{136} 3 19.1 279°.67 6°.2/13.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.87	+ 9 54.7	1.480	2.323	15.9	19.0
2 21	12 15.78	+11 29.6	1.391	2.302	12.3	18.8
3 2	12 9.82	+13 16.7	1.324	2.281	8.6	18.5
3 12	12 1.60	+15 5.0	1.283	2.260	6.2	18.3
3 22	11 52.13	+16 42.0	1.268	2.238	7.8	18.3
4 1	11 42.78	+17 56.1	1.278	2.216	11.7	18.5
4 11	11 34.92	+18 40.2	1.311	2.195	16.0	18.7
4 21	11 29.54	+18 52.4	1.362	2.173	19.9	18.9

79712 1998 SL_{104} 3 19.1 252°.01 2°.4/16.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.55	+ 2 20.3	1.592	2.414	16.0	20.0
2 21	12 16.81	+ 3 18.1	1.498	2.399	12.4	19.7
3 2	12 10.35	+ 4 32.1	1.427	2.383	8.0	19.4
3 12	12 1.78	+ 5 55.6	1.380	2.367	3.6	19.1
3 22	11 52.07	+ 7 19.4	1.361	2.351	3.6	19.1
4 1	11 42.50	+ 8 33.8	1.369	2.334	8.3	19.3
4 11	11 34.33	+ 9 30.3	1.402	2.317	13.1	19.5
4 21	11 28.48	+10 4.5	1.456	2.299	17.2	19.7

404954 1996 XX_{17} 3 19.1 104°.19 1°.2/18.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.00	+ 0 53.5	1.709	2.518	15.7	22.0
2 21	12 18.07	+ 1 29.5	1.644	2.536	12.0	21.8
3 2	12 10.74	+ 2 18.1	1.601	2.554	7.7	21.6
3 12	12 1.76	+ 3 13.7	1.584	2.571	3.1	21.4
3 22	11 52.16	+ 4 9.4	1.595	2.588	2.2	21.3
4 1	11 43.05	+ 4 58.0	1.635	2.605	6.6	21.6
4 11	11 35.47	+ 5 34.1	1.700	2.621	10.8	21.9
4 21	11 30.06	+ 5 54.6	1.789	2.637	14.3	22.2

158739 2003 QY_{31} 3 19.1 262°.52 1°.4/17.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.50	+ 0 46.0	2.109	2.917	13.1	20.8
2 21	12 12.99	+ 1 41.4	2.009	2.902	10.1	20.6
3 2	12 7.47	+ 2 50.4	1.932	2.886	6.5	20.3
3 12	12 0.45	+ 4 8.0	1.883	2.871	2.7	20.1
3 22	11 52.66	+ 5 27.5	1.863	2.854	2.4	20.0
4 1	11 44.98	+ 6 41.6	1.871	2.838	6.3	20.2
4 11	11 38.30	+ 7 43.9	1.907	2.822	10.1	20.4
4 21	11 33.29	+ 8 29.9	1.966	2.805	13.6	20.6

467366 2003 WA_{103} 3 19.1 167°.38 2°.7/22.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.92	−11 44.6	2.798	3.535	12.0	22.2
2 21	12 13.47	−11 34.5	2.702	3.540	9.7	22.0
3 2	12 7.46	−11 9.5	2.629	3.545	7.1	21.9
3 12	12 0.35	−10 30.9	2.582	3.549	4.4	21.7
3 22	11 52.74	− 9 41.4	2.565	3.552	2.7	21.6
4 1	11 45.29	− 8 45.1	2.579	3.554	4.1	21.7
4 11	11 38.68	− 7 47.0	2.622	3.557	6.8	21.9
4 21	11 33.40	− 6 51.7	2.691	3.558	9.4	22.0

98314 2000 SA_{259} 3 19.1 328°.39 4°.6/15.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.76	+ 8 14.8	1.470	2.307	16.3	19.4
2 21	12 16.96	+ 9 13.8	1.397	2.306	12.5	19.2
3 2	12 10.37	+10 21.6	1.347	2.305	8.3	18.9
3 12	12 1.73	+11 29.4	1.321	2.303	4.9	18.7
3 22	11 52.16	+12 27.5	1.321	2.302	5.8	18.8
4 1	11 43.00	+13 7.4	1.348	2.301	9.8	19.0
4 11	11 35.48	+13 24.5	1.397	2.300	13.9	19.2
4 21	11 30.41	+13 17.7	1.467	2.299	17.7	19.5

141896 2002 PG_{57} 3 19.1 185°.64 2°.3/21.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.72	− 7 55.2	2.050	2.818	14.8	20.6
2 21	12 17.00	− 7 54.5	1.956	2.818	11.9	20.4
3 2	12 10.08	− 7 37.3	1.885	2.817	8.4	20.2
3 12	12 1.55	− 7 5.2	1.840	2.817	4.6	20.0
3 22	11 52.23	− 6 21.6	1.823	2.815	2.4	19.8
4 1	11 43.13	− 5 32.0	1.835	2.813	5.2	20.0
4 11	11 35.19	− 4 42.6	1.875	2.811	9.0	20.2
4 21	11 29.12	− 3 59.1	1.940	2.807	12.5	20.4

221206 2005 UO_{72} 3 19.1 143°.29 0°.1/19.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.11	− 2 33.4	2.053	2.847	13.9	21.1
2 21	12 14.87	− 2 1.8	1.971	2.854	10.8	20.9
3 2	12 8.59	− 1 16.2	1.912	2.860	7.1	20.7
3 12	12 0.88	− 0 20.7	1.880	2.866	3.0	20.5
3 22	11 52.53	+ 0 39.2	1.876	2.871	1.2	20.3
4 1	11 44.47	+ 1 37.3	1.902	2.876	5.4	20.6
4 11	11 37.56	+ 2 27.7	1.954	2.881	9.2	20.9
4 21	11 32.43	+ 3 6.0	2.032	2.886	12.6	21.1

499728 2011 BK_{18} 3 19.1 352°.46 6°.4/23.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.02	−13 9.7	1.527	2.296	19.0	20.7
2 21	12 16.55	−14 12.2	1.440	2.292	15.9	20.5
3 2	12 10.26	−14 54.0	1.372	2.288	12.3	20.2
3 12	12 1.77	−15 12.6	1.326	2.285	8.6	20.0
3 22	11 52.12	−15 8.1	1.305	2.283	6.4	19.9
4 1	11 42.64	−14 43.9	1.309	2.281	7.7	19.9
4 11	11 34.68	−14 7.4	1.338	2.280	11.2	20.1
4 21	11 29.18	−13 27.2	1.388	2.281	14.9	20.3

269272 2008 RJ_{82} 3 19.1 146°.60 0°.1/18.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.09	− 3 41.8	2.119	2.913	13.5	20.5
2 21	12 12.52	− 2 44.9	2.034	2.917	10.5	20.3
3 2	12 7.05	− 1 32.1	1.973	2.921	6.9	20.1
3 12	12 0.23	− 0 7.9	1.939	2.925	2.9	19.9
3 22	11 52.81	+ 1 21.2	1.934	2.929	1.3	19.7
4 1	11 45.64	+ 2 47.6	1.958	2.932	5.4	20.0
4 11	11 39.53	+ 4 4.3	2.010	2.935	9.1	20.3
4 21	11 35.05	+ 5 6.6	2.087	2.938	12.4	20.5

18170 Ramjeawan 3 19.1 127°.43 0°.3/19.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.16	− 2 25.8	2.213	2.999	13.3	19.3
2 21	12 16.22	− 2 7.0	2.135	3.013	10.3	19.1
3 2	12 9.35	− 1 36.2	2.081	3.026	6.8	18.9
3 12	12 1.17	− 0 56.7	2.054	3.039	3.0	18.7
3 22	11 52.44	− 0 13.1	2.056	3.051	1.1	18.6
4 1	11 44.03	+ 0 29.5	2.088	3.063	5.0	18.8
4 11	11 36.76	+ 1 6.2	2.148	3.075	8.5	19.1
4 21	11 31.18	+ 1 33.4	2.233	3.085	11.7	19.3

149492 2003 EK_{48} 3 19.1 30°.28 1°.7/17.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 12.66	− 2 35.6	1.428	2.256	17.2	18.9
2 21	12 10.65	− 0 55.7	1.362	2.266	13.1	18.7
3 2	12 6.17	+ 1 7.6	1.317	2.276	8.3	18.5
3 12	11 59.93	+ 3 24.5	1.298	2.287	3.3	18.2
3 22	11 52.96	+ 5 42.4	1.306	2.298	3.1	18.2
4 1	11 46.41	+ 7 48.0	1.341	2.311	7.9	18.5
4 11	11 41.35	+ 9 30.6	1.401	2.323	12.5	18.8
4 21	11 38.45	+10 45.2	1.483	2.337	16.4	19.1

107751 2001 FH_{36} 3 19.1 314°.45 1°.1/19.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.83	− 4 21.3	1.427	2.242	17.9	19.8
2 21	12 14.25	− 4 11.5	1.333	2.225	14.2	19.5
3 2	12 8.86	− 3 41.2	1.258	2.209	9.7	19.2
3 12	12 1.22	− 2 53.2	1.207	2.192	4.6	18.8
3 22	11 52.36	− 1 53.3	1.181	2.177	1.6	18.6
4 1	11 43.61	− 0 50.1	1.181	2.161	6.9	18.8
4 11	11 36.32	+ 0 6.9	1.204	2.147	12.2	19.1
4 21	11 31.49	+ 0 50.3	1.249	2.133	16.9	19.3

407890 2012 BR_{111} 3 19.1 117°.27 0°.2/19.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.95	− 2 45.9	1.868	2.662	15.1	21.5
2 21	12 17.15	− 2 18.7	1.795	2.677	11.7	21.3
3 2	12 10.11	− 1 36.7	1.745	2.693	7.7	21.1
3 12	12 1.53	− 0 44.3	1.722	2.707	3.3	20.9
3 22	11 52.32	+ 0 12.9	1.726	2.722	1.3	20.7
4 1	11 43.51	+ 1 8.0	1.760	2.735	5.7	21.1
4 11	11 36.06	+ 1 54.9	1.821	2.749	9.7	21.3
4 21	11 30.61	+ 2 29.4	1.905	2.761	13.2	21.6

219760 2001 YQ_{60} 3 19.1 137°.54 2°.6/16.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.64	+ 5 40.7	2.104	2.917	13.0	20.5
2 21	12 15.93	+ 6 27.0	2.030	2.926	9.8	20.3
3 2	12 9.23	+ 7 20.7	1.980	2.935	6.4	20.1
3 12	12 1.14	+ 8 16.0	1.959	2.943	3.1	19.9
3 22	11 52.48	+ 9 6.9	1.966	2.952	3.5	20.0
4 1	11 44.15	+ 9 47.7	2.002	2.959	6.7	20.2
4 11	11 37.01	+10 14.4	2.065	2.966	10.1	20.4
4 21	11 31.64	+10 25.3	2.151	2.973	13.1	20.6

426133 2012 HP_{17} 3 19.1 304°.63 7°.3/12.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.51	+15 18.5	1.611	2.455	14.8	20.5
2 21	12 15.23	+16 42.4	1.531	2.438	11.7	20.3
3 2	12 9.28	+18 9.6	1.473	2.422	8.7	20.1
3 12	12 1.33	+19 29.7	1.440	2.405	7.3	19.9
3 22	11 52.36	+20 32.3	1.434	2.389	8.8	20.0
4 1	11 43.63	+21 9.2	1.452	2.373	11.9	20.1
4 11	11 36.35	+21 16.6	1.492	2.358	15.4	20.3
4 21	11 31.37	+20 55.3	1.551	2.343	18.7	20.5

150997 2001 UF_{32} 3 19.1 102°.58 1°.4/17.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.06	+ 0 7.1	1.891	2.700	14.3	20.7
2 21	12 14.15	+ 1 12.0	1.821	2.715	10.9	20.5
3 2	12 8.14	+ 2 30.6	1.775	2.729	7.0	20.2
3 12	12 0.70	+ 3 56.8	1.755	2.743	2.9	20.0
3 22	11 52.67	+ 5 22.7	1.764	2.756	2.5	20.0
4 1	11 45.01	+ 6 40.3	1.802	2.770	6.4	20.3
4 11	11 38.62	+ 7 43.4	1.867	2.783	10.3	20.5
4 21	11 34.07	+ 8 28.3	1.955	2.795	13.5	20.8

41507 2000 QU_{157} 3 19.1 168°.11 3°.4/23.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.76	−13 6.7	2.565	3.302	12.9	19.8
2 21	12 12.79	−13 9.5	2.468	3.304	10.6	19.6
3 2	12 7.13	−12 56.0	2.394	3.305	7.9	19.5
3 12	12 0.27	−12 27.0	2.346	3.307	5.2	19.3
3 22	11 52.83	−11 44.9	2.325	3.308	3.5	19.2
4 1	11 45.56	−10 53.6	2.334	3.308	4.6	19.2
4 11	11 39.17	− 9 58.4	2.372	3.309	7.2	19.4
4 21	11 34.20	− 9 4.5	2.435	3.310	10.0	19.6

166708 2002 TD_{195} 3 19.1 116°.65 1°.5/20.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.38	− 7 44.2	2.391	3.161	12.9	20.6
2 21	12 12.50	− 7 15.8	2.307	3.171	10.2	20.4
3 2	12 6.92	− 6 32.2	2.246	3.181	7.0	20.2
3 12	12 0.16	− 5 35.9	2.212	3.191	3.7	20.0
3 22	11 52.89	− 4 31.3	2.207	3.201	1.6	19.8
4 1	11 45.88	− 3 24.0	2.232	3.211	4.3	20.1
4 11	11 39.82	− 2 19.8	2.285	3.220	7.6	20.3
4 21	11 35.24	− 1 23.6	2.364	3.229	10.6	20.5

241572 1995 OM_{13} 3 19.1 341°.77 2°.6/15.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 14.72	+ 4 33.4	2.118	2.940	12.6	20.2
2 21	12 11.51	+ 5 39.2	2.036	2.938	9.5	20.0
3 2	12 6.42	+ 6 54.8	1.979	2.936	6.1	19.8
3 12	12 0.00	+ 8 14.1	1.949	2.935	3.1	19.6
3 22	11 52.96	+ 9 30.0	1.948	2.933	3.6	19.6
4 1	11 46.16	+10 35.7	1.975	2.932	6.9	19.8
4 11	11 40.38	+11 25.9	2.029	2.931	10.3	20.0
4 21	11 36.21	+11 58.1	2.105	2.930	13.3	20.2

115083 2003 SZ_{7} 3 19.1 178°.83 0°.5/19.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.55	− 2 27.7	1.885	2.676	15.1	20.4
2 21	12 18.54	− 2 19.4	1.797	2.677	11.8	20.1
3 2	12 11.16	− 1 57.5	1.732	2.678	7.9	19.9
3 12	12 2.05	− 1 25.1	1.693	2.679	3.5	19.6
3 22	11 52.12	− 0 46.8	1.683	2.678	1.3	19.4
4 1	11 42.45	− 0 8.3	1.702	2.678	5.7	19.8
4 11	11 34.10	+ 0 24.4	1.748	2.677	9.9	20.0
4 21	11 27.80	+ 0 47.2	1.817	2.675	13.6	20.2

433498 2013 WG_{37} 3 19.1 147°.81 1°.2/17.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.60	+ 2 24.0	2.276	3.078	12.5	21.5
2 21	12 15.05	+ 2 50.0	2.193	3.083	9.5	21.3
3 2	12 8.63	+ 3 24.6	2.135	3.087	6.1	21.1
3 12	12 0.91	+ 4 3.7	2.104	3.092	2.6	20.8
3 22	11 52.61	+ 4 42.5	2.103	3.095	2.0	20.8
4 1	11 44.58	+ 5 16.3	2.131	3.099	5.5	21.0
4 11	11 37.60	+ 5 40.8	2.187	3.103	9.0	21.3
4 21	11 32.25	+ 5 53.7	2.267	3.106	12.0	21.5

408763 1998 BU_{16} 3 19.1 88°.08 3°.5/21.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.96	− 8 36.4	1.561	2.342	18.2	21.2
2 21	12 19.28	− 9 1.7	1.486	2.352	14.6	20.9
3 2	12 11.83	− 9 7.4	1.430	2.362	10.5	20.7
3 12	12 2.37	− 8 54.1	1.398	2.373	6.1	20.5
3 22	11 52.00	− 8 25.2	1.393	2.383	3.6	20.3
4 1	11 42.04	− 7 46.4	1.414	2.393	6.3	20.5
4 11	11 33.71	− 7 5.5	1.462	2.403	10.5	20.8
4 21	11 27.83	− 6 29.3	1.532	2.412	14.5	21.1

293857 2007 RN_{242} 3 19.1 222°.80 2°.0/17.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.65	+ 3 5.5	1.902	2.710	14.3	21.7
2 21	12 17.94	+ 3 46.8	1.807	2.701	11.0	21.4
3 2	12 10.84	+ 4 39.5	1.736	2.690	7.2	21.2
3 12	12 1.96	+ 5 38.2	1.692	2.679	3.1	20.9
3 22	11 52.16	+ 6 36.3	1.677	2.667	3.0	20.9
4 1	11 42.53	+ 7 26.5	1.690	2.654	7.1	21.1
4 11	11 34.14	+ 8 3.2	1.730	2.641	11.2	21.3
4 21	11 27.77	+ 8 23.1	1.793	2.627	14.8	21.5

455235 2001 SA_{143} 3 19.1 165°.09 1°.8/20.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.83	− 6 36.4	1.855	2.631	15.9	22.3
2 21	12 18.79	− 6 28.1	1.769	2.637	12.6	22.1
3 2	12 11.34	− 6 2.4	1.704	2.642	8.7	21.9
3 12	12 2.13	− 5 21.6	1.666	2.646	4.5	21.6
3 22	11 52.10	− 4 30.1	1.655	2.649	1.9	21.4
4 1	11 42.37	− 3 34.4	1.674	2.652	5.6	21.7
4 11	11 34.00	− 2 41.6	1.720	2.654	9.7	21.9
4 21	11 27.72	− 1 57.5	1.790	2.655	13.5	22.2

129566 1997 GS_{8} 3 19.1 229°.94 0°.1/19.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.51	− 2 25.8	2.103	2.899	13.6	20.5
2 21	12 13.70	− 1 55.5	2.011	2.895	10.5	20.3
3 2	12 7.90	− 1 11.4	1.942	2.891	7.0	20.1
3 12	12 0.66	− 0 17.2	1.900	2.887	3.0	19.8
3 22	11 52.72	+ 0 41.9	1.887	2.882	1.2	19.7
4 1	11 44.98	+ 1 39.8	1.903	2.878	5.3	19.9
4 11	11 38.29	+ 2 30.5	1.946	2.873	9.2	20.2
4 21	11 33.30	+ 3 9.5	2.013	2.869	12.6	20.4

11963 Ignace 3 19.1 8°.04 2°.8/21.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.12	− 8 1.5	1.822	2.602	15.9	18.3
2 21	12 15.26	− 8 14.2	1.735	2.603	12.8	18.1
3 2	12 9.09	− 8 9.5	1.669	2.603	9.1	17.9
3 12	12 1.20	− 7 48.7	1.628	2.604	5.2	17.7
3 22	11 52.50	− 7 15.1	1.614	2.605	2.8	17.5
4 1	11 44.04	− 6 33.9	1.627	2.606	5.5	17.7
4 11	11 36.84	− 5 51.8	1.667	2.608	9.5	17.9
4 21	11 31.65	− 5 14.8	1.730	2.610	13.1	18.1

125772 2001 XY_{138} 3 19.1 169°.42 5°.0/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.25	+14 36.9	2.364	3.191	11.3	20.1
2 21	12 13.24	+15 41.7	2.292	3.191	8.7	19.9
3 2	12 7.45	+16 47.5	2.245	3.191	6.3	19.8
3 12	12 0.42	+17 47.6	2.226	3.192	5.0	19.7
3 22	11 52.85	+18 36.0	2.235	3.192	6.0	19.7
4 1	11 45.54	+19 8.0	2.272	3.192	8.3	19.9
4 11	11 39.25	+19 21.2	2.334	3.192	10.9	20.0
4 21	11 34.51	+19 15.4	2.418	3.192	13.2	20.2

70240 1999 RP_{71} 3 19.1 78°.54 1°.6/17.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.89	+ 1 22.1	1.540	2.359	16.6	19.7
2 21	12 17.46	+ 2 4.2	1.480	2.378	12.7	19.5
3 2	12 10.46	+ 2 59.7	1.442	2.398	8.1	19.3
3 12	12 1.72	+ 4 2.0	1.430	2.417	3.3	19.0
3 22	11 52.34	+ 5 3.2	1.444	2.437	2.7	19.0
4 1	11 43.53	+ 5 55.3	1.486	2.456	7.2	19.3
4 11	11 36.36	+ 6 32.4	1.553	2.475	11.5	19.6
4 21	11 31.49	+ 6 51.8	1.642	2.493	15.2	19.9

100077 Tertzakian 3 19.1 162°.12 2°.0/21.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.56	− 6 47.3	2.383	3.142	13.2	20.5
2 21	12 18.05	− 6 56.3	2.292	3.149	10.5	20.4
3 2	12 10.60	− 6 52.4	2.224	3.154	7.4	20.2
3 12	12 1.76	− 6 37.0	2.183	3.160	4.0	20.0
3 22	11 52.29	− 6 12.7	2.172	3.164	2.0	19.8
4 1	11 43.04	− 5 43.5	2.191	3.168	4.6	20.0
4 11	11 34.84	− 5 13.9	2.240	3.171	8.0	20.2
4 21	11 28.31	− 4 48.2	2.314	3.174	11.0	20.4

2161 Grissom 3 19.1 152°.07 2°.5/16.1 18

2 11	12 18.48	+ 5 27.7	2.324	3.135	11.9	17.2
2 21	12 14.15	+ 6 26.0	2.247	3.142	9.0	17.1
3 2	12 8.03	+ 7 31.8	2.195	3.149	5.8	16.9
3 12	12 0.66	+ 8 39.6	2.171	3.155	3.0	16.7
3 22	11 52.76	+ 9 43.2	2.177	3.161	3.4	16.7
4 1	11 45.13	+10 37.0	2.212	3.166	6.4	16.9
4 11	11 38.52	+11 16.7	2.274	3.171	9.6	17.1
4 21	11 33.48	+11 40.5	2.361	3.176	12.3	17.3

53934 2000 GQ_{44} 3 19.1 221°.23 0°.8/18.3 18

2 11	12 19.86	+ 0 0.9	1.986	2.789	14.0	19.9
2 21	12 15.65	+ 0 33.6	1.894	2.783	10.8	19.7
3 2	12 9.26	+ 1 19.2	1.825	2.777	7.1	19.4
3 12	12 1.27	+ 2 13.2	1.783	2.770	2.9	19.2
3 22	11 52.49	+ 3 9.8	1.769	2.763	1.8	19.1
4 1	11 43.90	+ 4 2.6	1.784	2.756	6.0	19.3
4 11	11 36.47	+ 4 45.6	1.826	2.748	10.1	19.6
4 21	11 30.89	+ 5 14.9	1.892	2.740	13.6	19.8

132095 2002 CD_{191} 3 19.1 181°.51 0°.5/18.6 18

2 11	12 22.26	− 1 8.7	2.009	2.803	14.2	21.4
2 21	12 17.41	− 0 31.7	1.921	2.805	11.0	21.1
3 2	12 10.36	+ 0 19.1	1.856	2.805	7.2	20.9
3 12	12 1.71	+ 1 19.1	1.819	2.805	3.0	20.6
3 22	11 52.32	+ 2 22.5	1.810	2.805	1.6	20.5
4 1	11 43.19	+ 3 22.6	1.831	2.803	5.9	20.8
4 11	11 35.25	+ 4 13.0	1.880	2.800	9.9	21.0
4 21	11 29.22	+ 4 49.8	1.952	2.797	13.4	21.3

73670 Kurthopf 3 19.1 237°.61 5°.6/24.2 18

2 11	12 22.25	−16 10.2	2.113	2.836	15.8	18.7
2 21	12 17.64	−16 43.0	2.003	2.823	13.3	18.5
3 2	12 10.71	−16 56.5	1.914	2.810	10.5	18.3
3 12	12 1.95	−16 49.1	1.849	2.796	7.6	18.1
3 22	11 52.19	−16 21.1	1.810	2.781	5.7	18.0
4 1	11 42.43	−15 35.9	1.800	2.766	6.5	18.0
4 11	11 33.75	−14 39.8	1.817	2.751	9.3	18.1
4 21	11 26.96	−13 40.0	1.859	2.734	12.6	18.3

127093 2002 GL_{81} 3 19.1 326°.05 2°.3/16.7 17 R

2 11	12 17.22	+ 3 39.8	1.886	2.707	13.9	19.7
2 21	12 13.67	+ 4 32.3	1.805	2.706	10.6	19.5
3 2	12 7.96	+ 5 35.8	1.748	2.704	6.8	19.3
3 12	12 0.71	+ 6 44.1	1.717	2.703	3.1	19.0
3 22	11 52.75	+ 7 50.1	1.713	2.702	3.3	19.1
4 1	11 45.05	+ 8 46.6	1.738	2.701	7.1	19.3
4 11	11 38.56	+ 9 28.0	1.789	2.700	10.9	19.5
4 21	11 33.92	+ 9 51.4	1.862	2.699	14.3	19.7

126097 2001 YC_{104} 3 19.1 336°.31 7°.8/11.2 18

2 11	12 15.44	+15 12.3	1.509	2.361	15.1	18.9
2 21	12 12.94	+16 55.4	1.440	2.352	11.9	18.7
3 2	12 7.81	+18 42.2	1.393	2.343	9.0	18.5
3 12	12 0.73	+20 20.7	1.372	2.335	7.8	18.4
3 22	11 52.74	+21 39.4	1.375	2.327	9.4	18.4
4 1	11 45.08	+22 29.7	1.403	2.320	12.6	18.6
4 11	11 38.92	+22 47.6	1.452	2.314	16.0	18.8
4 21	11 35.05	+22 34.3	1.519	2.309	19.1	19.0

150846 2001 SH_{69} 3 19.1 158°.02 1°.1/17.7 17

2 11	12 19.68	+ 0 56.8	2.521	3.314	11.7	21.5
2 21	12 14.92	+ 1 45.7	2.438	3.323	8.9	21.3
3 2	12 8.47	+ 2 44.4	2.381	3.331	5.7	21.2
3 12	12 0.85	+ 3 48.5	2.352	3.339	2.4	20.9
3 22	11 52.73	+ 4 52.8	2.354	3.346	1.9	20.9
4 1	11 44.85	+ 5 51.9	2.386	3.352	5.2	21.1
4 11	11 37.92	+ 6 41.1	2.447	3.357	8.4	21.4
4 21	11 32.47	+ 7 17.6	2.533	3.362	11.2	21.5

350479 1999 RT_{241} 3 19.1 192°.99 0°.4/19.4 18

2 11	12 26.09	− 1 43.9	1.578	2.378	17.1	21.4
2 21	12 21.02	− 1 40.9	1.492	2.378	13.4	21.1
3 2	12 13.08	− 1 23.0	1.428	2.376	9.0	20.9
3 12	12 2.98	− 0 53.5	1.388	2.374	3.9	20.6
3 22	11 51.82	− 0 17.6	1.376	2.371	1.5	20.4
4 1	11 40.95	+ 0 17.9	1.392	2.368	6.7	20.7
4 11	11 31.69	+ 0 46.4	1.433	2.365	11.5	21.0
4 21	11 24.91	+ 1 3.1	1.497	2.360	15.8	21.2

124248 2001 QB_3 3 19.1 119°.12 1°.3/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 21.54	− 0 35.9	1.595	2.406	16.5	20.2
2 21	12 17.22	+ 0 23.1	1.526	2.420	12.6	20.0
3 2	12 10.37	+ 1 38.7	1.480	2.434	8.1	19.8
3 12	12 1.73	+ 3 4.1	1.460	2.447	3.3	19.5
3 22	11 52.38	+ 4 30.4	1.467	2.460	2.5	19.5
4 1	11 43.49	+ 5 48.2	1.502	2.472	7.1	19.8
4 11	11 36.16	+ 6 50.0	1.563	2.484	11.5	20.1
4 21	11 31.08	+ 7 31.8	1.647	2.495	15.3	20.3

569 Misa 3 19.1 72°.33 0°.7/19.7 18

2 11	12 20.44	− 3 45.0	1.739	2.537	15.9	14.2
2 21	12 16.12	− 3 25.0	1.673	2.556	12.3	14.0
3 2	12 9.51	− 2 49.1	1.629	2.576	8.2	13.8
3 12	12 1.34	− 2 1.3	1.610	2.595	3.7	13.6
3 22	11 52.56	− 1 7.5	1.619	2.614	1.3	13.4
4 1	11 44.24	− 0 14.4	1.656	2.634	5.7	13.8
4 11	11 37.35	+ 0 31.2	1.719	2.653	9.8	14.1
4 21	11 32.52	+ 1 5.1	1.806	2.672	13.3	14.3

281217 2007 HW_{28} 3 19.1 64°.84 1°.0/20.1 18

2 11	12 15.95	− 7 17.6	1.712	2.506	16.3	20.8
2 21	12 12.81	− 6 22.0	1.639	2.519	12.7	20.6
3 2	12 7.42	− 5 4.5	1.588	2.533	8.6	20.4
3 12	12 0.48	− 3 30.1	1.563	2.547	4.0	20.2
3 22	11 52.90	− 1 46.8	1.565	2.561	1.3	20.0
4 1	11 45.70	− 0 4.2	1.596	2.575	5.7	20.3
4 11	11 39.84	+ 1 28.4	1.653	2.589	9.9	20.6
4 21	11 35.94	+ 2 44.4	1.734	2.603	13.7	20.9

435856 2008 WV_{138} 3 19.1 41°.13 6°.7/12.3 15

2 11	12 17.66	+15 24.3	1.725	2.566	14.1	20.6
2 21	12 14.02	+16 48.4	1.678	2.584	10.9	20.5
3 2	12 8.13	+18 11.8	1.655	2.603	8.0	20.3
3 12	12 0.73	+19 25.1	1.658	2.622	6.7	20.3
3 22	11 52.82	+20 20.0	1.687	2.641	7.8	20.4
4 1	11 45.43	+20 51.3	1.742	2.661	10.5	20.6
4 11	11 39.49	+20 57.2	1.820	2.681	13.3	20.8
4 21	11 35.57	+20 39.4	1.918	2.701	15.9	21.0

360577 2003 UL_{191} 3 19.1 224°.12 2°.1/16.9 17

2 11	12 21.17	+ 3 0.3	2.063	2.870	13.4	21.9
2 21	12 16.65	+ 3 52.8	1.966	2.858	10.3	21.7
3 2	12 9.95	+ 4 56.9	1.893	2.846	6.7	21.5
3 12	12 1.60	+ 6 7.1	1.847	2.833	3.0	21.2
3 22	11 52.42	+ 7 16.6	1.830	2.820	3.0	21.2
4 1	11 43.38	+ 8 18.4	1.843	2.805	6.8	21.4
4 11	11 35.44	+ 9 6.5	1.883	2.790	10.7	21.6
4 21	11 29.33	+ 9 37.6	1.946	2.774	14.1	21.8

69783 1998 QC_{67} 3 19.1 251°.88 3°.4/23.1 18

2 11	12 16.25	−13 20.4	2.239	2.986	14.3	19.5
2 21	12 12.78	−13 3.9	2.132	2.974	11.8	19.3
3 2	12 7.37	−12 27.1	2.046	2.962	8.8	19.1
3 12	12 0.50	−11 30.7	1.985	2.950	5.6	18.9
3 22	11 52.89	−10 18.0	1.952	2.938	3.4	18.7
4 1	11 45.38	− 8 54.8	1.948	2.925	5.0	18.8
4 11	11 38.82	− 7 28.4	1.972	2.912	8.3	19.0
4 21	11 33.88	− 6 6.1	2.021	2.899	11.6	19.1

294092 2007 TR_{213} 3 19.1 148°.72 1°.7/17.2 17

2 11	12 20.13	+ 4 46.0	2.502	3.305	11.5	20.8
2 21	12 15.28	+ 5 10.1	2.420	3.310	8.7	20.6
3 2	12 8.72	+ 5 40.2	2.363	3.316	5.6	20.4
3 12	12 0.98	+ 6 12.5	2.335	3.321	2.5	20.2
3 22	11 52.73	+ 6 42.5	2.336	3.326	2.4	20.2
4 1	11 44.73	+ 7 6.4	2.368	3.331	5.4	20.4
4 11	11 37.71	+ 7 20.8	2.427	3.335	8.5	20.6
4 21	11 32.18	+ 7 24.0	2.511	3.339	11.3	20.8

34145 2000 QV_{15} 3 19.1 229°.71 0°.8/18.2 18

2 11	12 16.73	+ 0 38.3	2.574	3.371	11.3	20.2
2 21	12 12.76	+ 1 11.5	2.477	3.364	8.7	20.0
3 2	12 7.15	+ 1 54.3	2.405	3.356	5.6	19.8
3 12	12 0.35	+ 2 43.0	2.361	3.348	2.3	19.6
3 22	11 52.99	+ 3 33.3	2.347	3.340	1.6	19.5
4 1	11 45.77	+ 4 20.3	2.362	3.332	4.9	19.7
4 11	11 39.38	+ 4 59.7	2.406	3.323	8.2	19.9
4 21	11 34.37	+ 5 28.3	2.474	3.315	11.0	20.1

473097 2015 HV_{165} 3 19.1 227°.13 1°.0/17.8 17

2 11	12 16.32	+ 1 53.1	2.875	3.671	10.3	21.7
2 21	12 12.28	+ 2 27.0	2.775	3.662	7.9	21.5
3 2	12 6.76	+ 3 8.8	2.701	3.653	5.1	21.3
3 12	12 0.17	+ 3 55.2	2.656	3.643	2.1	21.1
3 22	11 53.08	+ 4 42.0	2.640	3.633	1.7	21.0
4 1	11 46.10	+ 5 25.1	2.655	3.622	4.7	21.2
4 11	11 39.86	+ 6 0.8	2.699	3.611	7.6	21.4
4 21	11 34.85	+ 6 26.3	2.768	3.600	10.2	21.5

281736 2008 YU_{11} 3 19.1 196°.95 2°.3/21.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 17.67	− 9 6.0	2.322	3.084	13.4	21.6
2 21	12 13.69	− 8 56.5	2.226	3.083	10.8	21.4
3 2	12 7.85	− 8 31.1	2.152	3.081	7.7	21.2
3 12	12 0.68	− 7 51.4	2.105	3.079	4.4	20.9
3 22	11 52.86	− 7 0.7	2.086	3.077	2.3	20.8
4 1	11 45.22	− 6 4.0	2.096	3.075	4.6	20.9
4 11	11 38.54	− 5 7.3	2.135	3.072	7.9	21.1
4 21	11 33.42	− 4 15.8	2.199	3.069	11.1	21.3

371920 2008 DN_{88} 3 19.1 259°.82 2°.6/16.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.05	+ 4 13.0	1.814	2.635	14.4	21.2
2 21	12 15.29	+ 5 3.9	1.724	2.625	11.0	21.0
3 2	12 9.18	+ 6 6.4	1.658	2.614	7.2	20.7
3 12	12 1.33	+ 7 14.0	1.618	2.604	3.4	20.5
3 22	11 52.60	+ 8 19.3	1.606	2.594	3.6	20.4
4 1	11 44.07	+ 9 14.6	1.621	2.583	7.6	20.7
4 11	11 36.78	+ 9 53.9	1.662	2.572	11.7	20.9
4 21	11 31.48	+10 14.1	1.725	2.561	15.3	21.1

379580 2011 BD_{63} 3 19.1 179°.51 1°.2/17.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.29	+ 0 10.9	2.004	2.812	13.7	21.0
2 21	12 13.61	+ 1 3.0	1.920	2.813	10.5	20.8
3 2	12 7.90	+ 2 8.5	1.859	2.813	6.8	20.6
3 12	12 0.72	+ 3 22.2	1.826	2.813	2.8	20.3
3 22	11 52.87	+ 4 37.2	1.820	2.813	2.2	20.3
4 1	11 45.26	+ 5 46.4	1.844	2.813	6.1	20.6
4 11	11 38.77	+ 6 43.5	1.894	2.812	10.0	20.8
4 21	11 34.05	+ 7 24.6	1.968	2.812	13.3	21.0

309321 2007 SC_{3} 3 19.1 99°.84 0°.6/19.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.20	− 6 21.7	1.664	2.458	16.7	20.7
2 21	12 15.33	− 5 20.9	1.595	2.475	13.0	20.5
3 2	12 9.09	− 3 58.4	1.547	2.493	8.7	20.3
3 12	12 1.22	− 2 19.8	1.525	2.510	3.9	20.1
3 22	11 52.69	− 0 33.9	1.531	2.527	1.3	19.9
4 1	11 44.61	+ 1 9.3	1.566	2.543	6.0	20.3
4 11	11 37.99	+ 2 40.5	1.627	2.559	10.4	20.6
4 21	11 33.46	+ 3 53.6	1.712	2.574	14.1	20.8

462343 2008 QY_{8} 3 19.1 255°.81 2°.2/16.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.69	+ 2 21.2	2.121	2.933	12.9	21.2
2 21	12 13.19	+ 3 33.3	2.020	2.917	9.9	21.0
3 2	12 7.68	+ 4 58.8	1.945	2.900	6.4	20.7
3 12	12 0.67	+ 6 31.8	1.897	2.883	2.9	20.5
3 22	11 52.87	+ 8 5.0	1.878	2.866	3.2	20.5
4 1	11 45.17	+ 9 30.1	1.889	2.849	6.9	20.7
4 11	11 38.46	+10 40.5	1.927	2.831	10.6	20.9
4 21	11 33.42	+11 32.2	1.988	2.813	13.9	21.0

198546 2004 XS_{131} 3 19.1 194°.83 4°.2/14.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.75	+11 28.6	2.183	3.003	12.3	20.0
2 21	12 16.10	+12 17.9	2.104	3.002	9.4	19.8
3 2	12 9.43	+13 10.2	2.050	3.001	6.5	19.6
3 12	12 1.35	+13 59.2	2.023	2.999	4.4	19.5
3 22	11 52.64	+14 38.9	2.025	2.997	5.1	19.5
4 1	11 44.21	+15 4.2	2.056	2.995	7.9	19.7
4 11	11 36.91	+15 12.3	2.112	2.992	10.9	19.9
4 21	11 31.36	+15 2.6	2.191	2.989	13.7	20.1

221424 2005 YV_{195} 3 19.1 97°.74 0°.4/19.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.38	− 3 26.5	2.043	2.832	14.2	21.4
2 21	12 15.77	− 2 59.6	1.973	2.852	11.0	21.2
3 2	12 9.17	− 2 18.9	1.926	2.871	7.3	21.0
3 12	12 1.21	− 1 28.1	1.906	2.891	3.2	20.8
3 22	11 52.73	− 0 32.7	1.914	2.910	1.1	20.7
4 1	11 44.64	+ 0 21.5	1.952	2.928	5.1	21.0
4 11	11 37.76	+ 1 8.7	2.017	2.946	8.8	21.3
4 21	11 32.68	+ 1 45.0	2.107	2.964	12.1	21.5

245440 2005 JO_{154} 3 19.1 60°.07 3°.2/22.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 15.74	−12 18.5	2.132	2.888	14.7	20.5
2 21	12 12.35	−12 5.6	2.044	2.893	11.9	20.3
3 2	12 7.04	−11 32.9	1.977	2.899	8.8	20.1
3 12	12 0.36	−10 42.1	1.936	2.904	5.4	19.9
3 22	11 53.06	− 9 36.9	1.922	2.910	3.3	19.8
4 1	11 45.99	− 8 23.1	1.937	2.915	4.9	19.9
4 11	11 39.98	− 7 8.1	1.979	2.921	8.2	20.1
4 21	11 35.62	− 5 58.3	2.046	2.926	11.4	20.3

70271 1999 RO_{105} 3 19.1 293°.85 3°.9/22.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.50	−10 51.5	1.571	2.352	18.1	18.4
2 21	12 15.35	−11 0.4	1.477	2.342	14.8	18.1
3 2	12 9.51	−10 46.0	1.402	2.332	10.9	17.9
3 12	12 1.58	−10 8.7	1.350	2.322	6.7	17.6
3 22	11 52.53	− 9 11.9	1.323	2.312	3.9	17.4
4 1	11 43.61	− 8 2.3	1.323	2.303	6.4	17.5
4 11	11 36.09	− 6 49.5	1.348	2.293	10.8	17.7
4 21	11 30.89	− 5 42.7	1.395	2.284	15.1	18.0

354832 2005 XX_{35} 3 19.1 92°.49 3°.8/16.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.54	+ 6 11.8	1.424	2.255	17.1	20.8
2 21	12 19.01	+ 7 10.2	1.365	2.270	13.0	20.6
3 2	12 11.65	+ 8 18.5	1.327	2.285	8.4	20.4
3 12	12 2.35	+ 9 27.8	1.315	2.300	4.4	20.2
3 22	11 52.29	+10 28.7	1.329	2.314	5.0	20.3
4 1	11 42.85	+11 12.8	1.370	2.328	9.1	20.5
4 11	11 35.21	+11 35.5	1.434	2.342	13.3	20.8
4 21	11 30.11	+11 35.9	1.520	2.356	16.9	21.1

109125 2001 QT_{46} 3 19.1 137°.43 2°.7/15.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.20	+ 5 52.7	2.437	3.252	11.4	20.0
2 21	12 12.37	+ 6 59.3	2.361	3.258	8.6	19.8
3 2	12 6.89	+ 8 13.2	2.310	3.265	5.5	19.6
3 12	12 0.25	+ 9 28.6	2.288	3.271	3.0	19.5
3 22	11 53.12	+10 39.4	2.295	3.277	3.5	19.5
4 1	11 46.24	+11 40.0	2.332	3.283	6.4	19.7
4 11	11 40.28	+12 26.2	2.396	3.289	9.3	19.9
4 21	11 35.77	+12 56.0	2.484	3.294	11.9	20.1

480423 2015 KZ_{113} 3 19.1 300°.99 1°.8/21.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 14.06	− 8 28.6	2.218	2.993	13.6	21.4
2 21	12 11.15	− 8 1.6	2.106	2.973	10.9	21.2
3 2	12 6.35	− 7 16.5	2.017	2.953	7.7	20.9
3 12	12 0.13	− 6 15.2	1.954	2.932	4.1	20.7
3 22	11 53.14	− 5 2.0	1.919	2.912	1.9	20.5
4 1	11 46.21	− 3 42.9	1.912	2.892	4.8	20.6
4 11	11 40.18	− 2 25.1	1.934	2.872	8.5	20.8
4 21	11 35.70	− 1 15.1	1.980	2.853	12.0	21.0

337789 2001 UE_{201} 3 19.1 114°.51 1°.2/17.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.85	+ 3 8.5	2.433	3.233	11.8	20.9
2 21	12 15.11	+ 3 27.7	2.354	3.242	9.0	20.7
3 2	12 8.65	+ 3 53.9	2.299	3.251	5.8	20.5
3 12	12 0.99	+ 4 23.5	2.273	3.260	2.4	20.3
3 22	11 52.83	+ 4 52.4	2.276	3.268	1.9	20.3
4 1	11 44.95	+ 5 16.4	2.309	3.276	5.2	20.5
4 11	11 38.07	+ 5 32.0	2.370	3.285	8.4	20.7
4 21	11 32.71	+ 5 37.4	2.455	3.292	11.2	20.9

221208 2005 UX_{76} 3 19.1 180°.07 3°.6/14.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.77	+ 8 5.3	2.271	3.089	12.0	21.5
2 21	12 14.52	+ 9 23.0	2.192	3.090	9.1	21.3
3 2	12 8.38	+10 47.7	2.138	3.091	6.0	21.1
3 12	12 0.92	+12 12.5	2.112	3.091	3.8	20.9
3 22	11 52.85	+13 30.2	2.116	3.091	4.6	21.0
4 1	11 45.02	+14 34.4	2.149	3.090	7.5	21.2
4 11	11 38.22	+15 20.9	2.209	3.089	10.5	21.3
4 21	11 33.03	+15 47.9	2.292	3.087	13.3	21.5

41866 2000 WX_{97} 3 19.1 198°.33 3°.3/22.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.63	−10 41.6	1.945	2.704	15.8	19.2
2 21	12 17.17	−10 42.1	1.849	2.702	12.9	18.9
3 2	12 10.38	−10 23.1	1.774	2.699	9.4	18.7
3 12	12 1.85	− 9 45.4	1.724	2.695	5.6	18.5
3 22	11 52.45	− 8 52.3	1.702	2.691	3.3	18.3
4 1	11 43.22	− 7 49.7	1.708	2.686	5.5	18.5
4 11	11 35.19	− 6 44.9	1.742	2.680	9.3	18.7
4 21	11 29.15	− 5 45.1	1.800	2.674	13.0	18.9

266324 2007 DT_{2} 3 19.1 346°.39 2°.9/16.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.82	+ 4 35.0	1.642	2.472	15.2	20.6
2 21	12 14.49	+ 5 25.3	1.564	2.469	11.6	20.3
3 2	12 8.70	+ 6 26.9	1.509	2.467	7.5	20.1
3 12	12 1.14	+ 7 33.0	1.479	2.465	3.6	19.9
3 22	11 52.75	+ 8 35.4	1.476	2.463	3.9	19.9
4 1	11 44.67	+ 9 26.1	1.499	2.462	8.0	20.1
4 11	11 37.98	+ 9 59.4	1.547	2.461	12.1	20.3
4 21	11 33.41	+10 12.6	1.617	2.460	15.8	20.6

430234 2013 VY_{21} 3 19.1 191°.68 3°.1/15.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.06	+ 8 0.9	2.336	3.149	11.8	21.8
2 21	12 15.45	+ 8 49.7	2.252	3.148	9.0	21.6
3 2	12 8.97	+ 9 44.0	2.193	3.146	5.9	21.4
3 12	12 1.16	+10 38.4	2.162	3.144	3.4	21.2
3 22	11 52.75	+11 27.0	2.161	3.141	3.9	21.2
4 1	11 44.58	+12 4.8	2.189	3.138	6.8	21.4
4 11	11 37.42	+12 28.1	2.244	3.135	9.9	21.6
4 21	11 31.87	+12 35.5	2.322	3.130	12.7	21.8

480803 2016 PJ_{62} 3 19.1 215°.41 4°.1/13.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.01	+14 16.1	2.945	3.760	9.6	21.8
2 21	12 13.54	+15 7.3	2.859	3.753	7.4	21.6
3 2	12 7.56	+15 59.3	2.801	3.745	5.3	21.4
3 12	12 0.53	+16 47.1	2.771	3.737	4.1	21.3
3 22	11 53.01	+17 26.1	2.770	3.729	4.8	21.4
4 1	11 45.66	+17 52.6	2.799	3.720	6.9	21.5
4 11	11 39.11	+18 4.5	2.854	3.711	9.1	21.6
4 21	11 33.82	+18 1.1	2.933	3.702	11.3	21.8

229898 2009 VG_{23} 3 19.1 138°.87 0°.9/18.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 24.77	− 0 40.6	1.621	2.426	16.6	21.6
2 21	12 19.72	+ 0 1.3	1.549	2.439	12.8	21.3
3 2	12 12.05	+ 0 58.9	1.499	2.451	8.3	21.1
3 12	12 2.52	+ 2 6.4	1.475	2.463	3.4	20.8
3 22	11 52.21	+ 3 16.1	1.479	2.473	2.1	20.8
4 1	11 42.37	+ 4 19.5	1.511	2.483	6.9	21.1
4 11	11 34.13	+ 5 9.6	1.570	2.492	11.4	21.4
4 21	11 28.23	+ 5 42.5	1.651	2.500	15.2	21.6

54213 2000 HZ_{89} 3 19.1 355°.11 0°.7/18.5 18

2 11	12 17.17	+ 0 23.4	1.837	2.651	14.5	19.4
2 21	12 13.73	+ 0 44.3	1.754	2.649	11.2	19.1
3 2	12 8.09	+ 1 17.4	1.693	2.647	7.3	18.9
3 12	12 0.85	+ 1 58.5	1.658	2.645	3.0	18.6
3 22	11 52.88	+ 2 41.9	1.650	2.644	1.7	18.5
4 1	11 45.16	+ 3 21.5	1.670	2.644	6.1	18.8
4 11	11 38.66	+ 3 51.8	1.715	2.644	10.2	19.0
4 21	11 34.05	+ 4 9.1	1.784	2.644	13.7	19.3

205739 2002 AF_{196} 3 19.1 84°.42 0°.9/18.4 18

2 11	12 24.95	+ 0 14.5	1.494	2.306	17.4	21.1
2 21	12 19.87	+ 0 43.3	1.436	2.330	13.3	20.9
3 2	12 12.09	+ 1 26.4	1.400	2.353	8.6	20.7
3 12	12 2.49	+ 2 17.7	1.389	2.377	3.5	20.4
3 22	11 52.26	+ 3 9.9	1.405	2.399	2.1	20.4
4 1	11 42.68	+ 3 55.4	1.449	2.422	7.0	20.7
4 11	11 34.88	+ 4 28.0	1.518	2.444	11.4	21.0
4 21	11 29.53	+ 4 44.8	1.609	2.466	15.2	21.3

148725 2001 TX_{70} 3 19.1 110°.24 0°.7/18.4 18

2 11	12 20.10	− 0 46.9	2.000	2.800	14.0	20.8
2 21	12 15.63	− 0 5.8	1.929	2.816	10.8	20.7
3 2	12 9.12	+ 0 48.1	1.881	2.832	7.0	20.4
3 12	12 1.22	+ 1 49.9	1.860	2.847	2.8	20.2
3 22	11 52.76	+ 2 53.3	1.868	2.862	1.7	20.2
4 1	11 44.67	+ 3 52.0	1.905	2.877	5.7	20.5
4 11	11 37.82	+ 4 40.2	1.969	2.891	9.5	20.7
4 21	11 32.77	+ 5 14.5	2.058	2.905	12.7	20.9

153559 2001 SJ_{141} 3 19.1 164°.86 0°.1/19.0 16

2 11	12 20.84	− 1 35.4	2.189	2.979	13.3	21.9
2 21	12 16.15	− 1 9.5	2.103	2.984	10.3	21.7
3 2	12 9.47	− 0 31.4	2.040	2.988	6.8	21.5
3 12	12 1.40	+ 0 15.2	2.005	2.992	2.9	21.3
3 22	11 52.69	+ 1 5.4	2.000	2.995	1.2	21.2
4 1	11 44.23	+ 1 53.6	2.023	2.997	5.2	21.4
4 11	11 36.87	+ 2 34.7	2.075	2.999	8.9	21.7
4 21	11 31.22	+ 3 4.9	2.152	3.001	12.1	21.9

272308 2005 SO_{44} 3 19.1 220°.40 0°.2/19.3 17

2 11	12 20.75	− 2 14.1	2.099	2.889	13.8	21.9
2 21	12 16.28	− 1 56.1	2.002	2.883	10.8	21.7
3 2	12 9.70	− 1 25.1	1.929	2.875	7.2	21.4
3 12	12 1.55	− 0 44.3	1.882	2.868	3.1	21.2
3 22	11 52.61	+ 0 1.8	1.864	2.859	1.2	21.0
4 1	11 43.84	+ 0 47.5	1.875	2.851	5.4	21.3
4 11	11 36.16	+ 1 27.2	1.914	2.842	9.3	21.5
4 21	11 30.25	+ 1 56.7	1.978	2.833	12.8	21.7

247710 2003 EV_{10} 3 19.1 290°.00 4°.2/22.8 18

2 11	12 23.37	−11 29.0	2.375	3.112	13.8	19.9
2 21	12 18.17	−12 17.9	2.269	3.104	11.5	19.7
3 2	12 10.91	−12 53.6	2.187	3.097	8.7	19.5
3 12	12 2.07	−13 15.3	2.131	3.089	5.9	19.4
3 22	11 52.39	−13 23.1	2.103	3.082	4.2	19.2
4 1	11 42.77	−13 19.2	2.105	3.074	5.5	19.3
4 11	11 34.12	−13 7.6	2.135	3.067	8.3	19.5
4 21	11 27.15	−12 52.8	2.191	3.059	11.2	19.6

217038 2001 QB_{39} 3 19.1 210°.25 2°.0/16.9 17

2 11	12 20.15	+ 3 30.0	2.234	3.039	12.6	21.6
2 21	12 15.67	+ 4 19.9	2.141	3.033	9.6	21.4
3 2	12 9.21	+ 5 19.6	2.072	3.025	6.2	21.2
3 12	12 1.32	+ 6 24.1	2.031	3.018	2.8	20.9
3 22	11 52.72	+ 7 27.1	2.020	3.009	2.9	20.9
4 1	11 44.29	+ 8 22.6	2.039	3.000	6.3	21.1
4 11	11 36.89	+ 9 5.4	2.085	2.990	9.9	21.3
4 21	11 31.15	+ 9 32.8	2.154	2.980	13.0	21.5

300121 2006 VN_{4} 3 19.1 188°.74 3°.8/13.8 18

2 11	12 18.97	+13 53.0	3.020	3.832	9.5	21.5
2 21	12 14.19	+14 38.6	2.939	3.831	7.3	21.4
3 2	12 7.95	+15 24.7	2.885	3.830	5.2	21.2
3 12	12 0.69	+16 6.7	2.859	3.828	3.8	21.2
3 22	11 53.00	+16 40.3	2.863	3.825	4.5	21.2
4 1	11 45.50	+17 2.3	2.897	3.822	6.5	21.3
4 11	11 38.80	+17 10.4	2.958	3.819	8.8	21.5
4 21	11 33.36	+17 4.5	3.043	3.815	10.8	21.6

468126 2014 UO_{32} 3 19.1 10°.52 7°.8/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 19.34	+15 47.2	1.386	2.237	16.3	20.4
2 21	12 16.04	+17 0.1	1.327	2.238	12.8	20.2
3 2	12 9.86	+18 13.1	1.291	2.241	9.5	20.0
3 12	12 1.66	+19 15.1	1.277	2.244	7.8	19.9
3 22	11 52.61	+19 56.0	1.289	2.248	9.1	20.0
4 1	11 44.12	+20 9.1	1.324	2.253	12.2	20.2
4 11	11 37.40	+19 52.8	1.381	2.259	15.7	20.4
4 21	11 33.20	+19 9.6	1.456	2.266	18.9	20.7

246279 2007 TE_{55} 3 19.1 202°.39 2°.4/16.5 17

2 11	12 20.21	+ 6 50.6	2.418	3.227	11.6	21.3
2 21	12 15.50	+ 7 19.4	2.331	3.225	8.9	21.1
3 2	12 8.98	+ 7 53.4	2.269	3.222	5.8	20.9
3 12	12 1.18	+ 8 28.2	2.236	3.220	2.9	20.7
3 22	11 52.80	+ 8 59.0	2.231	3.217	3.1	20.7
4 1	11 44.64	+ 9 21.5	2.256	3.214	6.1	20.9
4 11	11 37.46	+ 9 32.6	2.309	3.210	9.2	21.1
4 21	11 31.83	+ 9 30.8	2.385	3.206	12.0	21.2

337397 2001 QF_{183} 3 19.1 155°.50 2°.2/21.7 17

2 11	12 19.37	− 8 30.9	2.647	3.401	12.2	21.0
2 21	12 14.73	− 8 34.5	2.554	3.406	9.8	20.8
3 2	12 8.42	− 8 25.1	2.485	3.411	7.0	20.7
3 12	12 0.94	− 8 4.1	2.443	3.416	4.0	20.5
3 22	11 52.92	− 7 34.0	2.430	3.420	2.2	20.4
4 1	11 45.08	− 6 58.4	2.447	3.424	4.2	20.5
4 11	11 38.12	− 6 21.8	2.494	3.428	7.1	20.7
4 21	11 32.58	− 5 48.3	2.566	3.431	9.9	20.9

173139 1995 SO_{16} 3 19.1 153°.67 0°.1/19.3 18

2 11	12 21.86	− 2 41.6	2.080	2.867	14.0	21.6
2 21	12 17.01	− 2 11.5	1.997	2.876	10.9	21.4
3 2	12 10.07	− 1 27.7	1.938	2.884	7.2	21.2
3 12	12 1.67	− 0 34.0	1.906	2.891	3.1	20.9
3 22	11 52.63	+ 0 24.3	1.903	2.898	1.2	20.8
4 1	11 43.88	+ 1 21.0	1.929	2.904	5.3	21.1
4 11	11 36.31	+ 2 10.1	1.984	2.909	9.2	21.3
4 21	11 30.56	+ 2 47.7	2.063	2.914	12.5	21.5

74743 1999 RH_{188} 3 19.1 270°.95 2°.2/17.3 17

2 11	12 20.63	+ 2 53.5	1.657	2.477	15.6	20.0
2 21	12 16.86	+ 3 33.5	1.561	2.460	12.0	19.7
3 2	12 10.45	+ 4 27.0	1.487	2.443	7.9	19.5
3 12	12 2.00	+ 5 28.3	1.439	2.426	3.5	19.1
3 22	11 52.45	+ 6 29.6	1.417	2.408	3.2	19.1
4 1	11 43.00	+ 7 22.7	1.423	2.391	7.8	19.3
4 11	11 34.89	+ 8 0.7	1.454	2.373	12.4	19.5
4 21	11 29.01	+ 8 19.6	1.507	2.354	16.5	19.7

109914 2001 SF_{26} 3 19.1 36°.13 0°.7/19.9 18

2 11	12 14.38	− 6 50.3	1.488	2.296	17.6	19.4
2 21	12 11.98	− 5 50.6	1.417	2.306	13.8	19.2
3 2	12 7.11	− 4 26.1	1.367	2.316	9.2	18.9
3 12	12 0.48	− 2 42.7	1.342	2.327	4.2	18.6
3 22	11 53.11	− 0 49.9	1.343	2.338	1.3	18.5
4 1	11 46.14	+ 1 1.0	1.371	2.350	6.3	18.8
4 11	11 40.64	+ 2 39.0	1.424	2.362	11.0	19.1
4 21	11 37.30	+ 3 57.0	1.500	2.375	15.1	19.4

498146 2007 TJ_{87} 3 19.1 145°.01 0°.1/19.0 17

2 11	12 16.90	− 2 13.6	2.636	3.422	11.4	22.5
2 21	12 12.79	− 1 36.8	2.552	3.430	8.8	22.3
3 2	12 7.12	− 0 49.0	2.492	3.438	5.8	22.1
3 12	12 0.38	+ 0 6.2	2.460	3.446	2.4	21.9
3 22	11 53.17	+ 1 4.5	2.458	3.453	1.0	21.8
4 1	11 46.18	+ 2 1.0	2.486	3.459	4.4	22.1
4 11	11 40.04	+ 2 51.0	2.543	3.466	7.5	22.3
4 21	11 35.26	+ 3 31.2	2.626	3.472	10.3	22.5

168349 1995 UZ_{30} 3 19.1 3°.29 1°.3/17.7 17

2 11	12 15.87	+ 1 42.2	2.120	2.932	12.9	20.2
2 21	12 12.43	+ 2 19.4	2.037	2.932	9.9	20.0
3 2	12 7.10	+ 3 7.0	1.978	2.932	6.4	19.8
3 12	12 0.43	+ 4 0.6	1.945	2.932	2.6	19.6
3 22	11 53.14	+ 4 54.3	1.941	2.933	2.2	19.5
4 1	11 46.09	+ 5 42.5	1.965	2.934	5.8	19.8
4 11	11 40.08	+ 6 20.1	2.016	2.935	9.4	20.0
4 21	11 35.70	+ 6 44.0	2.090	2.936	12.6	20.2

36388 2000 OY_{32} 3 19.1 140°.34 0°.8/19.9 18

2 11	12 21.54	− 5 12.7	1.831	2.618	15.6	19.8
2 21	12 17.03	− 4 38.6	1.752	2.629	12.2	19.6
3 2	12 10.22	− 3 46.5	1.695	2.639	8.2	19.3
3 12	12 1.78	− 2 40.6	1.665	2.649	3.8	19.1
3 22	11 52.62	− 1 27.0	1.662	2.658	1.3	18.9
4 1	11 43.82	− 0 13.4	1.689	2.666	5.6	19.2
4 11	11 36.35	+ 0 52.6	1.743	2.674	9.8	19.5
4 21	11 30.92	+ 1 45.5	1.820	2.681	13.5	19.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
500417 2012 TV_{121}			3 19.1 185°.16		3°.7/23.7 17	
	h m	° ′			°	m
2 11	12 16.40	−14 35.5	2.441	3.174	13.6	21.8
2 21	12 12.69	−14 27.9	2.343	3.174	11.3	21.7
3 2	12 7.22	−14 1.6	2.266	3.174	8.5	21.5
3 12	12 0.48	−13 17.4	2.215	3.174	5.7	21.3
3 22	11 53.13	−12 18.2	2.192	3.173	3.8	21.2
4 1	11 45.95	−11 8.5	2.198	3.172	4.8	21.2
4 11	11 39.68	− 9 54.8	2.232	3.171	7.5	21.4
4 21	11 34.90	− 8 43.2	2.292	3.170	10.4	21.6
249544 lanmclean			3 19.1 241°.91		3°.5/13.9 18	
2 11	12 15.24	+ 9 42.1	2.758	3.577	10.1	21.3
2 21	12 11.59	+10 55.0	2.666	3.565	7.7	21.1
3 2	12 6.41	+12 13.0	2.601	3.552	5.2	21.0
3 12	12 0.11	+13 30.5	2.564	3.540	3.5	20.8
3 22	11 53.28	+14 42.0	2.557	3.527	4.4	20.9
4 1	11 46.56	+15 42.0	2.580	3.514	6.8	21.0
4 11	11 40.60	+16 26.9	2.629	3.500	9.4	21.1
4 21	11 35.92	+16 55.0	2.702	3.487	11.8	21.3
128886 2004 SF_{58}			3 19.1 117°.10		0°.1/19.2 18	
2 11	12 17.29	− 3 11.3	2.011	2.807	14.1	20.2
2 21	12 13.61	− 2 29.9	1.929	2.813	10.9	20.0
3 2	12 7.91	− 1 33.2	1.870	2.818	7.2	19.7
3 12	12 0.78	− 0 25.5	1.837	2.823	3.1	19.5
3 22	11 53.02	+ 0 47.0	1.833	2.828	1.2	19.3
4 1	11 45.53	+ 1 57.4	1.858	2.834	5.4	19.6
4 11	11 39.17	+ 2 59.2	1.910	2.838	9.3	19.9
4 21	11 34.55	+ 3 47.6	1.987	2.843	12.7	20.1
273968 2007 LH_{3}			3 19.1 351°.82		3°.0/22.2 18	
2 11	12 15.51	−10 46.5	1.767	2.545	16.5	20.5
2 21	12 12.64	−10 30.6	1.678	2.543	13.3	20.3
3 2	12 7.50	− 9 52.0	1.610	2.541	9.6	20.1
3 12	12 0.68	− 8 52.6	1.566	2.540	5.6	19.8
3 22	11 53.05	− 7 37.2	1.548	2.539	3.0	19.7
4 1	11 45.65	− 6 13.3	1.557	2.538	5.5	19.8
4 11	11 39.48	− 4 50.0	1.593	2.538	9.6	20.1
4 21	11 35.27	− 3 35.3	1.653	2.537	13.4	20.3
497802 2006 TZ_{17}			3 19.1 158°.41		4°.2/14.1 17	
2 11	12 20.05	+13 45.8	2.559	3.376	10.8	21.5
2 21	12 15.25	+14 27.9	2.484	3.379	8.3	21.3
3 2	12 8.75	+15 10.6	2.435	3.382	5.9	21.1
3 12	12 1.08	+15 48.3	2.414	3.384	4.3	21.0
3 22	11 52.93	+16 16.5	2.422	3.386	5.0	21.1
4 1	11 45.04	+16 31.2	2.458	3.389	7.3	21.2
4 11	11 38.14	+16 30.6	2.522	3.390	9.8	21.4
4 21	11 32.74	+16 14.6	2.608	3.392	12.1	21.6
176335 2001 SV_{303}			3 19.1 120°.73		1°.1/20.5 17	
2 11	12 17.15	− 5 39.2	2.511	3.285	12.2	21.2
2 21	12 13.07	− 5 17.8	2.427	3.295	9.6	21.0
3 2	12 7.35	− 4 43.4	2.367	3.305	6.5	20.9
3 12	12 0.50	− 3 58.7	2.333	3.315	3.2	20.7
3 22	11 53.16	− 3 7.6	2.330	3.324	1.2	20.5
4 1	11 46.05	− 2 15.0	2.356	3.333	4.2	20.8
4 11	11 39.86	− 1 25.7	2.410	3.342	7.4	21.0
4 21	11 35.08	− 0 43.8	2.490	3.351	10.3	21.2
55417 2001 TR_{16}			3 19.1 349°.80		3°.4/14.8 18	
2 11	12 9.13	+ 0 20.6	1.645	2.479	15.0	17.3
2 21	12 7.87	+ 2 41.5	1.560	2.470	11.3	17.0
3 2	12 4.44	+ 5 25.8	1.500	2.462	7.2	16.8
3 12	11 59.41	+ 8 22.4	1.468	2.454	3.7	16.5
3 22	11 53.58	+11 17.4	1.466	2.448	5.0	16.6
4 1	11 47.97	+13 56.0	1.492	2.443	9.1	16.8
4 11	11 43.53	+16 7.1	1.543	2.440	13.3	17.1
4 21	11 40.97	+17 45.3	1.616	2.437	16.8	17.3
364198 2006 QN_{43}			3 19.1 250°.10		1°.9/17.2 17	
2 11	12 20.05	+ 2 2.1	1.951	2.760	14.0	21.8
2 21	12 16.04	+ 2 57.2	1.848	2.742	10.8	21.5
3 2	12 9.73	+ 4 6.1	1.769	2.723	7.0	21.2
3 12	12 1.67	+ 5 23.3	1.717	2.704	3.1	20.9
3 22	11 52.66	+ 6 41.5	1.693	2.683	3.0	20.9
4 1	11 43.71	+ 7 52.7	1.698	2.663	7.1	21.1
4 11	11 35.87	+ 8 50.0	1.730	2.641	11.2	21.3
4 21	11 29.92	+ 9 29.2	1.785	2.619	14.9	21.5
2208 Pushkin			3 19.1 88°.50		2°.1/16.4 18	R
2 11	12 15.77	+ 5 58.1	2.677	3.488	10.5	16.5
2 21	12 11.94	+ 6 37.3	2.595	3.491	8.0	16.3
3 2	12 6.58	+ 7 22.1	2.539	3.494	5.2	16.1
3 12	12 0.17	+ 8 8.2	2.512	3.496	2.6	16.0
3 22	11 53.31	+ 8 51.2	2.513	3.499	2.8	16.0
4 1	11 46.65	+ 9 26.6	2.545	3.502	5.5	16.2
4 11	11 40.82	+ 9 51.4	2.603	3.505	8.3	16.3
4 21	11 36.31	+10 3.8	2.687	3.508	10.8	16.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
500997 2013 RO_{22}			3 19.1 195°.94		0°.1/19.1 17	
	h m	° ′			°	m
2 11	12 17.85	− 3 18.1	2.268	3.055	13.0	22.2
2 21	12 13.88	− 2 28.8	2.174	3.053	10.1	22.0
3 2	12 8.04	− 1 24.8	2.104	3.050	6.6	21.7
3 12	12 0.85	− 0 10.0	2.061	3.047	2.8	21.5
3 22	11 53.02	+ 1 9.7	2.048	3.043	1.2	21.3
4 1	11 45.37	+ 2 27.8	2.065	3.039	5.1	21.6
4 11	11 38.70	+ 3 37.8	2.111	3.034	8.8	21.8
4 21	11 33.61	+ 4 35.0	2.181	3.029	12.0	22.0
341602 2007 UG_{107}			3 19.1 127°.20		3°.7/14.0 17	
2 11	12 17.04	+10 16.7	2.588	3.406	10.7	21.1
2 21	12 12.91	+11 29.9	2.521	3.419	8.1	20.9
3 2	12 7.21	+12 46.6	2.480	3.431	5.5	20.8
3 12	12 0.43	+14 0.9	2.468	3.443	3.8	20.7
3 22	11 53.22	+15 7.0	2.486	3.454	4.6	20.8
4 1	11 46.27	+15 59.8	2.533	3.466	6.9	20.9
4 11	11 40.23	+16 36.5	2.606	3.476	9.5	21.1
4 21	11 35.59	+16 55.9	2.703	3.487	11.8	21.3
415365 2013 KW_{9}			3 19.1 268°.32		5°.3/23.9 17	
2 11	12 18.40	−15 5.2	1.690	2.445	18.0	21.1
2 21	12 15.19	−15 14.7	1.591	2.434	15.1	20.9
3 2	12 9.40	−14 58.7	1.510	2.423	11.6	20.6
3 12	12 1.59	−14 16.5	1.452	2.412	7.8	20.4
3 22	11 52.70	−13 10.3	1.419	2.401	5.3	20.2
4 1	11 43.91	−11 46.4	1.413	2.389	6.7	20.2
4 11	11 36.42	−10 14.7	1.433	2.378	10.4	20.4
4 21	11 31.13	− 8 45.3	1.477	2.367	14.3	20.6
356319 2010 HW_{105}			3 19.1 296°.71		6°.0/14.9 16	
2 11	12 23.43	+11 25.9	1.368	2.209	17.1	20.7
2 21	12 19.61	+12 14.2	1.283	2.192	13.3	20.4
3 2	12 12.57	+13 8.5	1.219	2.175	9.3	20.1
3 12	12 3.02	+13 59.4	1.179	2.158	6.2	19.9
3 22	11 52.13	+14 36.6	1.165	2.141	7.2	19.9
4 1	11 41.47	+14 51.6	1.175	2.125	11.3	20.1
4 11	11 32.56	+14 40.2	1.207	2.108	15.8	20.3
4 21	11 26.43	+14 2.6	1.259	2.092	19.9	20.5
195575 2002 JH_{97}			3 19.1 241°.27		7°.1/10.3 18	
2 11	12 20.78	+20 48.0	2.297	3.119	11.7	20.3
2 21	12 16.24	+22 8.4	2.219	3.107	9.5	20.1
3 2	12 9.64	+23 26.2	2.165	3.094	7.7	20.0
3 12	12 1.56	+24 33.6	2.139	3.080	7.1	19.9
3 22	11 52.76	+25 23.5	2.141	3.066	8.2	20.0
4 1	11 44.18	+25 50.8	2.168	3.052	10.4	20.1
4 11	11 36.70	+25 53.8	2.220	3.038	12.8	20.2
4 21	11 30.96	+25 33.4	2.292	3.023	15.1	20.3
344934 2004 TY_{180}			3 19.1 300°.95		0°.1/19.1 17	
2 11	12 16.00	− 3 2.1	1.715	2.524	15.6	20.9
2 21	12 13.25	− 2 25.4	1.611	2.502	12.3	20.7
3 2	12 8.09	− 1 29.7	1.529	2.480	8.2	20.4
3 12	12 1.03	− 0 18.9	1.472	2.458	3.5	20.0
3 22	11 52.93	+ 1 0.4	1.441	2.437	1.5	19.8
4 1	11 44.88	+ 2 19.7	1.439	2.415	6.5	20.1
4 11	11 38.00	+ 3 30.1	1.461	2.394	11.2	20.3
4 21	11 33.15	+ 4 24.8	1.506	2.373	15.5	20.5
428819 2008 TV_{80}			3 19.1 255°.35		1°.1/18.1 17	
2 11	12 19.67	+ 1 42.8	1.999	2.806	13.7	21.6
2 21	12 15.50	+ 2 6.5	1.912	2.804	10.6	21.4
3 2	12 9.21	+ 2 40.6	1.849	2.802	6.9	21.2
3 12	12 1.39	+ 3 20.7	1.812	2.800	2.8	20.9
3 22	11 52.84	+ 4 1.7	1.804	2.798	2.0	20.9
4 1	11 44.54	+ 4 37.8	1.825	2.795	6.0	21.1
4 11	11 37.39	+ 5 4.1	1.872	2.793	9.9	21.3
4 21	11 32.06	+ 5 17.6	1.942	2.791	13.3	21.5
385309 2001 WF_{16}			3 19.2 49°.33		2°.7/16.5 18	
2 11	12 19.35	+ 6 55.7	2.053	2.873	13.0	20.5
2 21	12 15.04	+ 7 26.8	1.985	2.884	9.9	20.3
3 2	12 8.76	+ 8 3.4	1.941	2.896	6.4	20.1
3 12	12 1.13	+ 8 40.4	1.924	2.908	3.3	20.0
3 22	11 52.97	+ 9 12.3	1.935	2.921	3.5	20.0
4 1	11 45.19	+ 9 34.2	1.974	2.933	6.7	20.2
4 11	11 38.59	+ 9 43.0	2.040	2.946	10.0	20.4
4 21	11 33.76	+ 9 37.5	2.129	2.959	13.0	20.7
198496 2004 XV_{72}			3 19.2 60°.42		6°.4/14.7 18	
2 11	12 26.13	+12 23.0	1.278	2.120	18.0	19.2
2 21	12 21.09	+13 25.0	1.237	2.146	13.8	19.0
3 2	12 13.00	+14 28.7	1.217	2.171	9.5	18.8
3 12	12 2.94	+15 23.4	1.221	2.197	6.6	18.7
3 22	11 52.30	+15 59.5	1.251	2.223	7.5	18.9
4 1	11 42.60	+16 11.3	1.305	2.249	11.0	19.1
4 11	11 35.02	+15 57.5	1.382	2.275	14.8	19.4
4 21	11 30.22	+15 20.8	1.479	2.301	18.0	19.7

17536 1993 FM_{40} 3 19.2 269°.35 0°.7/18.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 16.58	+ 0 8.3	2.428	3.226	11.9	20.0
2 21	12 12.87	+ 0 41.8	2.323	3.210	9.2	19.8
3 2	12 7.39	+ 1 26.1	2.244	3.194	6.0	19.5
3 12	12 0.61	+ 2 17.7	2.191	3.178	2.5	19.3
3 22	11 53.15	+ 3 11.7	2.168	3.162	1.6	19.2
4 1	11 45.79	+ 4 3.0	2.175	3.146	5.2	19.4
4 11	11 39.28	+ 4 46.6	2.209	3.129	8.7	19.6
4 21	11 34.22	+ 5 18.8	2.268	3.112	11.8	19.8

198561 2004 XX_{151} 3 19.2 265°.08 0°.5/19.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.33	− 2 46.6	2.000	2.795	14.2	20.7
2 21	12 15.28	− 2 35.3	1.910	2.792	11.1	20.5
3 2	12 9.10	− 2 10.6	1.843	2.790	7.4	20.3
3 12	12 1.36	− 1 35.6	1.802	2.787	3.4	20.0
3 22	11 52.87	− 0 54.6	1.789	2.784	1.2	19.9
4 1	11 44.60	− 0 13.3	1.804	2.782	5.3	20.1
4 11	11 37.46	+ 0 22.6	1.847	2.779	9.3	20.4
4 21	11 32.14	+ 0 49.1	1.914	2.776	12.8	20.6

86779 2000 GG_{92} 3 19.2 300°.69 2°.1/17.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 15.92	− 0 21.5	1.340	2.173	17.8	19.4
2 21	12 13.74	+ 0 47.9	1.253	2.160	13.8	19.1
3 2	12 8.67	+ 2 20.4	1.187	2.146	8.9	18.7
3 12	12 1.36	+ 4 8.6	1.145	2.133	3.8	18.4
3 22	11 52.85	+ 6 1.1	1.128	2.120	3.5	18.3
4 1	11 44.52	+ 7 44.6	1.137	2.108	8.8	18.6
4 11	11 37.74	+ 9 7.7	1.170	2.095	14.1	18.8
4 21	11 33.48	+10 3.9	1.222	2.083	18.7	19.1

142948 2002 VQ_{72} 3 19.2 55°.41 2°.1/17.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.86	+ 2 21.2	1.565	2.390	16.1	20.1
2 21	12 15.32	+ 3 11.4	1.496	2.399	12.3	19.9
3 2	12 9.26	+ 4 15.0	1.450	2.407	7.9	19.7
3 12	12 1.44	+ 5 25.1	1.429	2.416	3.4	19.4
3 22	11 52.87	+ 6 33.2	1.434	2.425	3.2	19.4
4 1	11 44.72	+ 7 30.9	1.467	2.435	7.6	19.7
4 11	11 38.07	+ 8 12.1	1.525	2.444	11.8	20.0
4 21	11 33.63	+ 8 33.6	1.604	2.454	15.5	20.2

454431 2014 OR_{14} 3 19.2 307°.21 0°.8/19.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.42	− 3 42.1	1.281	2.103	19.1	21.4
2 21	12 15.88	− 3 28.9	1.192	2.089	15.2	21.1
3 2	12 10.21	− 2 53.7	1.123	2.076	10.3	20.8
3 12	12 2.07	− 1 59.9	1.076	2.062	4.7	20.4
3 22	11 52.56	− 0 54.4	1.053	2.049	1.6	20.2
4 1	11 43.19	+ 0 13.1	1.056	2.036	7.5	20.5
4 11	11 35.48	+ 1 11.8	1.081	2.024	13.2	20.8
4 21	11 30.49	+ 1 54.1	1.127	2.012	18.2	21.0

204849 2007 RK_{105} 3 19.2 176°.13 1°.1/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.24	+ 1 47.5	2.524	3.322	11.5	21.4
2 21	12 13.94	+ 2 21.6	2.437	3.324	8.8	21.2
3 2	12 7.97	+ 3 4.5	2.374	3.325	5.7	21.0
3 12	12 0.81	+ 3 52.2	2.339	3.326	2.4	20.8
3 22	11 53.12	+ 4 40.1	2.334	3.327	1.8	20.8
4 1	11 45.64	+ 5 23.4	2.359	3.327	5.1	21.0
4 11	11 39.05	+ 5 58.0	2.412	3.327	8.3	21.2
4 21	11 33.90	+ 6 21.3	2.490	3.326	11.1	21.4

341680 2007 VB_{102} 3 19.2 93°.58 0°.6/19.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.50	− 4 10.1	2.385	3.168	12.6	21.6
2 21	12 13.39	− 3 45.5	2.308	3.183	9.8	21.5
3 2	12 7.59	− 3 8.3	2.255	3.198	6.5	21.3
3 12	12 0.63	− 2 21.9	2.229	3.213	3.0	21.1
3 22	11 53.20	− 1 30.3	2.232	3.228	1.0	20.9
4 1	11 46.05	− 0 38.8	2.265	3.242	4.4	21.2
4 11	11 39.89	+ 0 7.7	2.326	3.257	7.8	21.4
4 21	11 35.21	+ 0 45.5	2.413	3.271	10.7	21.7

433744 2015 AE_{256} 3 19.2 52°.72 4°.3/22.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.53	−11 1.4	1.927	2.684	16.0	20.1
2 21	12 17.88	−11 40.2	1.840	2.688	13.1	19.9
3 2	12 10.88	−12 2.1	1.773	2.692	9.8	19.7
3 12	12 2.15	−12 6.5	1.731	2.696	6.4	19.5
3 22	11 52.58	−11 55.0	1.717	2.700	4.3	19.4
4 1	11 43.23	−11 31.1	1.730	2.704	5.9	19.5
4 11	11 35.14	−11 0.9	1.770	2.709	9.2	19.7
4 21	11 29.06	−10 30.2	1.835	2.713	12.6	19.9

386584 2009 FC_{27} 3 19.2 246°.81 0°.1/19.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.42	− 0 20.8	2.444	3.235	12.0	21.1
2 21	12 14.97	− 0 12.0	2.347	3.228	9.3	20.9
3 2	12 8.72	+ 0 6.0	2.273	3.221	6.2	20.7
3 12	12 1.17	+ 0 30.6	2.227	3.213	2.6	20.5
3 22	11 52.98	+ 0 58.0	2.211	3.206	1.1	20.3
4 1	11 44.94	+ 1 24.3	2.224	3.198	4.8	20.6
4 11	11 37.81	+ 1 45.3	2.265	3.190	8.2	20.8
4 21	11 32.18	+ 1 58.0	2.332	3.183	11.3	20.9

523772 2014 XR_{40} 3 19.2 268°.80 0°.1/18.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 57.92	+ 3 6.4	43.151	43.943	0.8	21.7
2 21	11 57.30	+ 3 9.9	43.054	43.940	0.6	21.7
3 2	11 56.61	+ 3 13.7	42.985	43.936	0.4	21.7
3 12	11 55.88	+ 3 17.7	42.945	43.932	0.2	21.6
3 22	11 55.12	+ 3 21.7	42.936	43.929	0.1	21.6
4 1	11 54.38	+ 3 25.5	42.956	43.925	0.3	21.7
4 11	11 53.66	+ 3 29.0	43.006	43.921	0.5	21.7
4 21	11 53.01	+ 3 32.1	43.082	43.918	0.7	21.7

186532 2002 VV_{84} 3 19.2 56°.76 0°.9/19.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.71	− 5 20.9	1.488	2.292	17.8	19.7
2 21	12 15.92	− 4 48.6	1.431	2.317	13.9	19.5
3 2	12 9.58	− 3 56.1	1.395	2.342	9.2	19.3
3 12	12 1.54	− 2 48.5	1.383	2.368	4.2	19.1
3 22	11 52.88	− 1 33.6	1.398	2.394	1.4	18.9
4 1	11 44.82	− 0 20.3	1.440	2.419	6.1	19.3
4 11	11 38.38	+ 0 42.9	1.507	2.445	10.6	19.6
4 21	11 34.21	+ 1 30.9	1.598	2.471	14.4	19.9

323125 2003 AT_{84} 3 19.2 47°.74 3°.0/16.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.39	+ 6 22.6	1.473	2.303	16.7	19.6
2 21	12 18.84	+ 6 46.0	1.413	2.317	12.7	19.4
3 2	12 11.56	+ 7 17.1	1.375	2.332	8.2	19.2
3 12	12 2.40	+ 7 49.1	1.361	2.347	4.0	19.0
3 22	11 52.54	+ 8 15.2	1.374	2.362	4.0	19.0
4 1	11 43.28	+ 8 29.1	1.413	2.378	8.1	19.3
4 11	11 35.76	+ 8 27.3	1.477	2.394	12.3	19.6
4 21	11 30.68	+ 8 9.0	1.562	2.411	15.9	19.8

506219 2016 JE_{30} 3 19.2 286°.71 11°.0/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.08	−34 31.3	2.078	2.685	19.0	21.3
2 21	12 14.21	−34 53.8	1.953	2.658	17.5	21.1
3 2	12 8.82	−34 44.3	1.842	2.631	15.6	20.9
3 12	12 1.42	−33 56.7	1.749	2.604	13.6	20.7
3 22	11 52.85	−32 27.8	1.677	2.577	11.8	20.5
4 1	11 44.27	−30 18.8	1.630	2.550	11.0	20.4
4 11	11 36.87	−27 37.7	1.609	2.522	11.8	20.4
4 21	11 31.59	−24 36.9	1.613	2.494	13.8	20.4

79419 Gaolu 3 19.2 95°.96 8°.1/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.18	−22 50.7	1.883	2.576	18.3	19.4
2 21	12 17.77	−23 37.3	1.803	2.591	15.9	19.2
3 2	12 10.87	−23 58.1	1.742	2.605	13.1	19.1
3 12	12 2.16	−23 50.2	1.702	2.620	10.4	18.9
3 22	11 52.61	−23 14.0	1.687	2.634	8.4	18.8
4 1	11 43.38	−22 13.7	1.697	2.648	8.4	18.8
4 11	11 35.56	−20 57.2	1.734	2.661	10.2	19.0
4 21	11 29.90	−19 34.1	1.794	2.674	12.7	19.2

87861 2000 SH_{229} 3 19.2 226°.14 0°.8/20.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.22	− 4 44.7	1.994	2.784	14.4	20.2
2 21	12 14.46	− 4 20.1	1.902	2.780	11.3	20.0
3 2	12 8.59	− 3 39.6	1.833	2.777	7.7	19.8
3 12	12 1.17	− 2 46.1	1.789	2.773	3.6	19.5
3 22	11 53.00	− 1 44.7	1.774	2.769	1.2	19.3
4 1	11 45.02	− 0 42.1	1.787	2.765	5.3	19.6
4 11	11 38.17	+ 0 15.1	1.828	2.761	9.3	19.8
4 21	11 33.10	+ 1 1.7	1.892	2.757	12.9	20.0

471811 2012 WB_{7} 3 19.2 223°.65 3°.7/23.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.30	−14 7.0	2.449	3.185	13.5	21.3
2 21	12 12.66	−14 4.2	2.348	3.182	11.2	21.2
3 2	12 7.25	−13 43.4	2.269	3.178	8.4	21.0
3 12	12 0.56	−13 5.3	2.216	3.175	5.6	20.8
3 22	11 53.25	−12 12.2	2.190	3.171	3.7	20.7
4 1	11 46.07	−11 8.8	2.193	3.168	4.8	20.7
4 11	11 39.79	−10 1.1	2.224	3.164	7.5	20.9
4 21	11 34.98	− 8 54.9	2.282	3.160	10.4	21.1

292725 2006 UH_{141} 3 19.2 211°.75 2°.1/21.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 15.76	− 9 53.7	2.746	3.498	11.8	21.6
2 21	12 12.02	− 9 35.2	2.643	3.494	9.5	21.5
3 2	12 6.72	− 9 2.0	2.564	3.489	6.8	21.3
3 12	12 0.31	− 8 15.9	2.511	3.484	3.9	21.1
3 22	11 53.37	− 7 19.9	2.488	3.478	2.1	20.9
4 1	11 46.55	− 6 18.3	2.495	3.473	4.0	21.1
4 11	11 40.50	− 5 16.5	2.530	3.467	6.9	21.2
4 21	11 35.75	− 4 19.1	2.593	3.461	9.7	21.4

68369 2001 OT_{105} 3 19.2 115°.38 1°.7/16.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 15.95	+ 2 2.3	2.377	3.183	11.9	19.4
2 21	12 12.26	+ 3 6.3	2.300	3.193	9.0	19.2
3 2	12 6.89	+ 4 20.4	2.249	3.203	5.7	19.0
3 12	12 0.37	+ 5 39.1	2.225	3.212	2.5	18.8
3 22	11 53.36	+ 6 56.4	2.232	3.221	2.5	18.9
4 1	11 46.60	+ 8 6.2	2.268	3.230	5.7	19.1
4 11	11 40.79	+ 9 3.5	2.332	3.239	8.9	19.3
4 21	11 36.43	+ 9 45.5	2.420	3.248	11.7	19.5

385197 1999 KV_5 3 19.2 289°.15 3°.0/22.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 15.29	−11 54.2	2.287	3.042	13.8	21.2
2 21	12 12.00	−11 40.3	2.188	3.037	11.3	21.0
3 2	12 6.89	−11 7.9	2.111	3.032	8.3	20.8
3 12	12 0.44	−10 18.3	2.059	3.027	5.1	20.6
3 22	11 53.34	− 9 15.0	2.035	3.023	3.0	20.5
4 1	11 46.39	− 8 3.1	2.039	3.018	4.7	20.5
4 11	11 40.37	− 6 49.6	2.072	3.013	7.9	20.7
4 21	11 35.89	− 5 40.6	2.130	3.009	11.1	20.9

207142 2005 BM_{29} 3 19.2 327°.99 0°.8/19.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.11	− 3 30.9	1.551	2.356	17.2	20.8
2 21	12 17.26	− 3 21.1	1.469	2.355	13.5	20.6
3 2	12 10.72	− 2 53.9	1.407	2.355	9.1	20.3
3 12	12 2.18	− 2 12.5	1.370	2.355	4.2	20.0
3 22	11 52.66	− 1 22.6	1.359	2.354	1.4	19.8
4 1	11 43.44	− 0 31.9	1.375	2.354	6.4	20.1
4 11	11 35.73	+ 0 12.2	1.416	2.353	11.2	20.4
4 21	11 30.35	+ 0 43.8	1.480	2.353	15.3	20.7

390088 2012 UJ_{152} 3 19.2 53°.49 1°.6/17.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.73	+ 3 0.1	2.248	3.058	12.3	21.1
2 21	12 12.99	+ 3 38.8	2.168	3.062	9.4	20.9
3 2	12 7.45	+ 4 26.5	2.112	3.066	6.0	20.7
3 12	12 0.65	+ 5 18.3	2.084	3.071	2.6	20.5
3 22	11 53.30	+ 6 8.9	2.084	3.075	2.4	20.5
4 1	11 46.19	+ 6 53.0	2.114	3.079	5.8	20.7
4 11	11 40.09	+ 7 26.2	2.170	3.084	9.1	20.9
4 21	11 35.55	+ 7 45.9	2.250	3.088	12.1	21.1

512301 2016 GZ_{254} 3 19.2 312°.60 1°.7/17.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.43	+ 2 14.6	1.637	2.461	15.6	21.4
2 21	12 15.17	+ 2 43.3	1.546	2.447	12.0	21.1
3 2	12 9.36	+ 3 24.9	1.477	2.433	7.9	20.8
3 12	12 1.62	+ 4 14.2	1.432	2.420	3.3	20.5
3 22	11 52.88	+ 5 4.3	1.414	2.407	2.7	20.4
4 1	11 44.30	+ 5 47.8	1.423	2.394	7.3	20.7
4 11	11 37.05	+ 6 18.2	1.457	2.382	11.9	20.9
4 21	11 31.96	+ 6 31.6	1.513	2.371	15.9	21.1

414418 2009 CA_{32} 3 19.2 305°.97 0°.2/19.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.63	− 1 1.9	1.422	2.243	17.6	21.3
2 21	12 16.54	− 0 49.6	1.330	2.228	13.8	21.1
3 2	12 10.53	− 0 20.4	1.258	2.212	9.2	20.7
3 12	12 2.21	+ 0 21.9	1.210	2.197	4.0	20.4
3 22	11 52.63	+ 1 10.7	1.187	2.182	1.7	20.2
4 1	11 43.17	+ 1 58.0	1.190	2.167	7.3	20.5
4 11	11 35.22	+ 2 35.3	1.216	2.153	12.6	20.7
4 21	11 29.79	+ 2 57.2	1.264	2.140	17.3	21.0

462025 2007 BZ_{18} 3 19.2 66°.56 2°.0/17.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.54	+ 2 3.9	1.626	2.447	15.8	21.1
2 21	12 15.66	+ 2 56.3	1.565	2.464	12.0	20.9
3 2	12 9.40	+ 4 1.4	1.525	2.482	7.7	20.6
3 12	12 1.51	+ 5 12.3	1.512	2.499	3.3	20.4
3 22	11 52.99	+ 6 20.8	1.526	2.517	3.0	20.4
4 1	11 44.95	+ 7 19.0	1.567	2.534	7.2	20.7
4 11	11 38.40	+ 8 1.2	1.633	2.552	11.3	21.0
4 21	11 33.97	+ 8 24.5	1.722	2.569	14.8	21.3

141817 2002 ND_{46} 3 19.2 182°.54 1°.8/21.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.29	− 7 33.3	2.178	2.944	14.1	21.1
2 21	12 16.65	− 7 16.8	2.083	2.945	11.2	20.9
3 2	12 9.95	− 6 43.9	2.012	2.945	7.8	20.7
3 12	12 1.76	− 5 56.8	1.967	2.945	4.1	20.5
3 22	11 52.86	− 4 59.6	1.951	2.944	1.8	20.3
4 1	11 44.15	− 3 58.1	1.964	2.942	4.9	20.5
4 11	11 36.53	− 2 58.6	2.006	2.940	8.6	20.7
4 21	11 30.64	− 2 6.6	2.073	2.937	12.0	20.9

221248 2005 UN_{251} 3 19.2 195°.90 0°.7/19.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.12	− 3 51.7	2.524	3.297	12.2	21.7
2 21	12 16.23	− 3 33.0	2.425	3.294	9.6	21.5
3 2	12 9.54	− 3 2.3	2.350	3.290	6.4	21.3
3 12	12 1.56	− 2 22.2	2.302	3.285	3.0	21.1
3 22	11 52.94	− 1 36.4	2.285	3.280	1.0	20.9
4 1	11 44.47	− 0 49.6	2.298	3.274	4.5	21.2
4 11	11 36.91	− 0 6.7	2.340	3.267	7.9	21.4
4 21	11 30.84	+ 0 28.5	2.408	3.259	10.9	21.6

111680 2002 BW_{22} 3 19.2 178°.98 3°.1/15.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.88	+ 9 5.0	2.356	3.163	11.9	19.6
2 21	12 18.38	+ 9 39.1	2.273	3.165	9.1	19.4
3 2	12 10.93	+10 17.0	2.215	3.166	6.1	19.2
3 12	12 2.13	+10 53.7	2.186	3.166	3.5	19.0
3 22	11 52.73	+11 23.9	2.186	3.166	3.9	19.1
4 1	11 43.60	+11 43.4	2.216	3.166	6.7	19.2
4 11	11 35.56	+11 49.3	2.274	3.165	9.8	19.4
4 21	11 29.21	+11 40.8	2.356	3.163	12.6	19.6

345622 2006 SX_{253} 3 19.2 9°.83 0°.1/19.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 15.75	− 1 54.4	1.963	2.769	14.1	20.9
2 21	12 12.54	− 1 27.6	1.881	2.770	10.9	20.7
3 2	12 7.31	− 0 47.0	1.821	2.772	7.2	20.4
3 12	12 0.64	+ 0 3.2	1.787	2.774	3.0	20.2
3 22	11 53.32	+ 0 57.8	1.781	2.776	1.2	20.0
4 1	11 46.24	+ 1 50.4	1.803	2.780	5.5	20.3
4 11	11 40.28	+ 2 35.0	1.852	2.783	9.4	20.6
4 21	11 36.06	+ 3 7.6	1.924	2.787	12.8	20.8

326399 2001 RJ_{115} 3 19.2 154°.01 0°.2/18.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.33	− 0 35.9	2.026	2.820	14.1	21.6
2 21	12 17.50	− 0 19.1	1.942	2.826	10.9	21.4
3 2	12 10.52	+ 0 9.2	1.882	2.831	7.1	21.2
3 12	12 2.00	+ 0 45.5	1.849	2.835	3.0	20.9
3 22	11 52.80	+ 1 24.9	1.844	2.839	1.3	20.8
4 1	11 43.88	+ 2 1.9	1.869	2.843	5.5	21.1
4 11	11 36.17	+ 2 31.5	1.921	2.847	9.4	21.3
4 21	11 30.33	+ 2 50.2	1.998	2.850	12.8	21.5

284169 2005 YX_{159} 3 19.2 148°.78 1°.3/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.09	+ 0 9.0	1.796	2.599	15.3	21.6
2 21	12 18.30	+ 0 59.3	1.720	2.610	11.7	21.4
3 2	12 11.13	+ 2 3.8	1.667	2.619	7.6	21.1
3 12	12 2.28	+ 3 16.7	1.641	2.628	3.1	20.9
3 22	11 52.70	+ 4 30.5	1.643	2.636	2.3	20.8
4 1	11 43.50	+ 5 37.2	1.674	2.643	6.6	21.1
4 11	11 35.69	+ 6 30.4	1.732	2.650	10.8	21.4
4 21	11 29.97	+ 7 6.4	1.813	2.655	14.3	21.6

62273 2000 ST_{97} 3 19.2 116°.68 2°.6/22.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 14.60	−12 1.6	2.436	3.187	13.2	19.6
2 21	12 11.32	−11 31.1	2.342	3.190	10.7	19.4
3 2	12 6.36	−10 42.3	2.270	3.192	7.8	19.3
3 12	12 0.21	− 9 37.1	2.224	3.194	4.6	19.1
3 22	11 53.51	− 8 19.6	2.207	3.196	2.6	18.9
4 1	11 47.01	− 6 55.5	2.219	3.198	4.3	19.0
4 11	11 41.39	− 5 31.4	2.260	3.200	7.4	19.2
4 21	11 37.20	− 4 13.4	2.327	3.202	10.4	19.4

33755 1999 RU_{47} 3 19.2 272°.66 3°.2/22.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.66	−10 4.9	2.427	3.177	13.2	18.6
2 21	12 15.28	−10 27.1	2.325	3.172	10.8	18.4
3 2	12 9.02	−10 35.3	2.246	3.166	7.9	18.2
3 12	12 1.38	−10 30.0	2.193	3.160	5.0	18.0
3 22	11 53.04	−10 12.8	2.168	3.154	3.2	17.9
4 1	11 44.81	− 9 47.1	2.173	3.149	4.8	18.0
4 11	11 37.49	− 9 17.3	2.206	3.143	7.8	18.2
4 21	11 31.70	− 8 48.2	2.264	3.137	10.7	18.3

410073 2007 CH_{55} 3 19.2 99°.11 2°.6/16.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.29	+ 3 29.4	2.015	2.825	13.5	21.8
2 21	12 15.74	+ 4 48.7	1.956	2.851	10.2	21.6
3 2	12 9.22	+ 6 17.8	1.922	2.877	6.5	21.4
3 12	12 1.39	+ 7 49.5	1.916	2.901	3.1	21.2
3 22	11 53.08	+ 9 16.0	1.940	2.925	3.5	21.3
4 1	11 45.22	+10 30.0	1.993	2.949	6.9	21.6
4 11	11 38.60	+11 26.6	2.073	2.972	10.2	21.8
4 21	11 33.78	+12 3.9	2.176	2.994	13.1	22.0

45488 2000 AD_{238} 3 19.2 256°.70 2°.9/16.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.00	+ 4 32.4	1.744	2.566	14.8	19.3
2 21	12 16.23	+ 5 27.1	1.653	2.554	11.4	19.0
3 2	12 9.99	+ 6 33.9	1.585	2.542	7.4	18.8
3 12	12 1.89	+ 7 46.1	1.544	2.529	3.6	18.5
3 22	11 52.83	+ 8 55.5	1.530	2.517	4.0	18.5
4 1	11 43.94	+ 9 53.9	1.543	2.504	8.0	18.7
4 11	11 36.34	+10 34.9	1.582	2.490	12.2	18.9
4 21	11 30.83	+10 55.4	1.642	2.477	15.9	19.1

207866 2007 VO_{165} 3 19.2 79°.89 6°.2/12.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.17	+18 26.0	2.222	3.047	11.9	20.2
2 21	12 15.64	+19 28.1	2.160	3.054	9.4	20.0
3 2	12 9.17	+20 27.7	2.124	3.061	7.2	19.9
3 12	12 1.38	+21 17.4	2.114	3.068	6.2	19.8
3 22	11 53.08	+21 51.4	2.132	3.075	7.2	19.9
4 1	11 45.14	+22 5.6	2.176	3.082	9.3	20.1
4 11	11 38.38	+21 58.8	2.246	3.089	11.8	20.2
4 21	11 33.35	+21 32.1	2.336	3.097	14.0	20.4

500048 2011 TC_6 3 19.2 186°.72 4°.7/13.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.43	+18 11.2	2.929	3.733	9.9	21.4
2 21	12 18.42	+18 42.2	2.850	3.733	7.8	21.3
3 2	12 10.78	+19 10.5	2.797	3.732	5.8	21.2
3 12	12 2.03	+19 31.3	2.773	3.731	4.7	21.1
3 22	11 52.82	+19 40.6	2.779	3.729	5.4	21.1
4 1	11 43.89	+19 35.7	2.815	3.727	7.2	21.2
4 11	11 35.91	+19 15.8	2.879	3.725	9.4	21.4
4 21	11 29.38	+18 41.4	2.966	3.722	11.4	21.5

87449 2000 QF_{119} 3 19.2 81°.25 2°.6/21.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 22.59	− 8 15.6	1.899	2.669	15.8	19.3
2 21	12 17.72	− 8 22.4	1.830	2.691	12.6	19.1
3 2	12 10.63	− 8 12.1	1.782	2.713	8.9	18.9
3 12	12 2.03	− 7 46.3	1.759	2.734	5.0	18.7
3 22	11 52.83	− 7 9.1	1.764	2.755	2.6	18.6
4 1	11 44.05	− 6 25.8	1.798	2.776	5.2	18.8
4 11	11 36.63	− 5 42.7	1.859	2.797	8.9	19.1
4 21	11 31.18	− 5 5.3	1.944	2.818	12.2	19.3

143574 2003 EC_{59} 3 19.2 38°.62 13°.0/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.91	−33 49.2	1.788	2.413	21.2	19.2
2 21	12 16.64	−35 14.2	1.706	2.418	19.4	19.1
3 2	12 10.53	−36 8.2	1.638	2.424	17.4	18.9
3 12	12 2.20	−36 25.0	1.588	2.431	15.4	18.8
3 22	11 52.70	−36 1.2	1.556	2.437	13.7	18.7
4 1	11 43.41	−34 58.3	1.547	2.444	13.0	18.6
4 11	11 35.66	−33 23.6	1.559	2.451	13.4	18.7
4 21	11 30.41	−31 28.6	1.593	2.458	14.8	18.8

85927 1999 CQ_{117} 3 19.2 121°.74 4°.9/24.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.18	−16 35.0	2.280	2.993	15.0	19.2
2 21	12 17.96	−16 53.1	2.199	3.013	12.5	19.0
3 2	12 10.71	−16 51.7	2.138	3.031	9.7	18.9
3 12	12 2.07	−16 30.5	2.103	3.049	6.8	18.7
3 22	11 52.81	−15 51.5	2.095	3.067	5.0	18.7
4 1	11 43.86	−14 59.1	2.116	3.083	5.7	18.7
4 11	11 36.07	−13 59.4	2.166	3.099	8.1	18.9
4 21	11 30.05	−12 59.1	2.242	3.114	10.8	19.1

370999 2005 TK_{75} 3 19.2 192°.08 0°.5/18.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.95	+ 1 15.4	2.214	3.003	13.2	21.3
2 21	12 19.39	+ 1 20.4	2.121	3.002	10.2	21.1
3 2	12 11.73	+ 1 34.2	2.052	3.000	6.7	20.9
3 12	12 2.53	+ 1 53.4	2.011	2.998	2.8	20.6
3 22	11 52.62	+ 2 14.3	2.000	2.995	1.4	20.5
4 1	11 42.91	+ 2 32.4	2.019	2.991	5.4	20.7
4 11	11 34.33	+ 2 43.9	2.067	2.987	9.1	21.0
4 21	11 27.54	+ 2 46.2	2.139	2.983	12.4	21.2

134391 1996 XW_{10} 3 19.2 155°.81 2°.6/16.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.04	+ 8 11.9	2.700	3.507	10.6	20.9
2 21	12 15.18	+ 8 45.3	2.621	3.513	8.1	20.7
3 2	12 8.73	+ 9 22.4	2.567	3.518	5.3	20.5
3 12	12 1.18	+ 9 59.0	2.542	3.524	2.9	20.4
3 22	11 53.17	+10 30.7	2.546	3.528	3.2	20.4
4 1	11 45.40	+10 53.7	2.581	3.533	5.8	20.6
4 11	11 38.53	+11 5.4	2.644	3.537	8.5	20.7
4 21	11 33.05	+11 4.8	2.731	3.540	11.0	20.9

22675 Davidcohn 3 19.2 268°.51 1°.5/20.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.87	− 5 4.2	2.082	2.864	14.2	18.7
2 21	12 15.75	− 5 4.8	1.981	2.854	11.2	18.5
3 2	12 9.49	− 4 51.4	1.903	2.843	7.8	18.2
3 12	12 1.64	− 4 26.0	1.851	2.832	3.9	18.0
3 22	11 52.96	− 3 51.9	1.827	2.822	1.6	17.8
4 1	11 44.40	− 3 14.1	1.832	2.811	5.1	18.0
4 11	11 36.89	− 2 38.1	1.865	2.800	9.0	18.2
4 21	11 31.14	− 2 8.8	1.921	2.789	12.6	18.4

293445 2007 EW_{168} 3 19.2 14°.07 1°.8/17.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.42	+ 1 42.8	1.648	2.471	15.5	21.0
2 21	12 14.20	+ 2 26.8	1.571	2.472	11.9	20.8
3 2	12 8.59	+ 3 24.4	1.517	2.474	7.7	20.5
3 12	12 1.26	+ 4 29.5	1.489	2.476	3.2	20.3
3 22	11 53.14	+ 5 34.4	1.487	2.479	2.8	20.2
4 1	11 45.35	+ 6 31.1	1.512	2.482	7.1	20.5
4 11	11 38.93	+ 7 13.1	1.563	2.485	11.4	20.7
4 21	11 34.58	+ 7 37.1	1.635	2.489	15.1	21.0

471236 2011 AV_{70} 3 19.2 13°.83 4°.0/15.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.65	+ 6 22.4	1.364	2.210	16.8	20.8
2 21	12 14.01	+ 7 17.8	1.301	2.214	12.8	20.6
3 2	12 8.64	+ 8 23.8	1.258	2.219	8.4	20.3
3 12	12 1.31	+ 9 31.7	1.239	2.224	4.5	20.1
3 22	11 53.14	+10 31.6	1.246	2.231	5.1	20.1
4 1	11 45.44	+11 15.0	1.277	2.238	9.3	20.4
4 11	11 39.38	+11 36.4	1.332	2.247	13.6	20.7
4 21	11 35.70	+11 34.6	1.406	2.256	17.3	20.9

55635 2002 TK_{284} 3 19.2 244°.12 5°.6/24.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.43	−16 46.6	2.023	2.750	16.3	18.8
2 21	12 16.44	−17 5.4	1.914	2.737	13.8	18.6
3 2	12 10.12	−17 2.3	1.825	2.723	10.8	18.4
3 12	12 1.98	−16 35.9	1.759	2.708	7.7	18.1
3 22	11 52.83	−15 47.5	1.720	2.694	5.7	18.0
4 1	11 43.72	−14 41.2	1.709	2.678	6.5	18.0
4 11	11 35.69	−13 24.5	1.724	2.662	9.4	18.1
4 21	11 29.59	−12 5.9	1.765	2.646	12.8	18.3

410548 2008 FO_{111} 3 19.2 85°.62 3°.5/23.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 16.65	−16 57.2	1.812	2.554	17.4	20.8
2 21	12 13.40	−15 47.3	1.729	2.568	14.3	20.6
3 2	12 7.94	−14 6.5	1.667	2.582	10.5	20.4
3 12	12 0.94	−11 58.1	1.630	2.596	6.5	20.2
3 22	11 53.30	− 9 29.7	1.622	2.610	3.6	20.1
4 1	11 46.03	− 6 52.8	1.644	2.624	5.3	20.2
4 11	11 40.08	− 4 20.2	1.694	2.638	9.2	20.5
4 21	11 36.07	− 2 2.5	1.771	2.651	12.9	20.7

407791 2011 YT_{19} 3 19.2 66°.18 1°.2/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.51	− 5 3.1	1.480	2.282	18.0	21.3
2 21	12 17.44	− 4 48.0	1.416	2.301	14.1	21.1
3 2	12 10.72	− 4 13.4	1.373	2.319	9.5	20.8
3 12	12 2.14	− 3 23.3	1.354	2.338	4.5	20.6
3 22	11 52.83	− 2 24.3	1.362	2.357	1.6	20.4
4 1	11 44.06	− 1 24.7	1.396	2.376	6.2	20.8
4 11	11 36.95	− 0 32.5	1.456	2.395	10.8	21.1
4 21	11 32.22	+ 0 6.7	1.538	2.413	14.7	21.4

38124 1999 JV_{43} 3 19.2 321°.01 3°.6/21.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.43	− 8 2.9	1.318	2.124	19.6	18.8
2 21	12 15.90	− 8 25.7	1.227	2.109	16.0	18.5
3 2	12 10.29	− 8 26.3	1.155	2.095	11.5	18.2
3 12	12 2.21	− 8 4.8	1.104	2.082	6.7	17.9
3 22	11 52.74	− 7 24.2	1.078	2.070	3.6	17.7
4 1	11 43.36	− 6 31.8	1.075	2.058	7.1	17.8
4 11	11 35.58	− 5 37.3	1.097	2.046	12.3	18.1
4 21	11 30.49	− 4 49.9	1.139	2.036	17.1	18.3

503853 1995 VU_{8} 3 19.2 194°.55 3°.6/13.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.69	+13 30.3	3.207	4.017	9.0	22.7
2 21	12 13.98	+14 18.3	3.123	4.014	6.9	22.5
3 2	12 7.89	+15 7.2	3.065	4.010	4.9	22.4
3 12	12 0.84	+15 52.6	3.037	4.006	3.6	22.3
3 22	11 53.35	+16 30.3	3.040	4.001	4.3	22.3
4 1	11 46.03	+16 57.1	3.072	3.996	6.2	22.4
4 11	11 39.44	+17 10.7	3.131	3.991	8.4	22.6
4 21	11 34.03	+17 10.6	3.215	3.984	10.4	22.7

405013 2000 YK_{94} 3 19.2 109°.21 3°.3/16.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.74	+ 5 32.5	1.749	2.568	14.9	21.2
2 21	12 17.97	+ 6 37.8	1.688	2.587	11.3	21.0
3 2	12 10.86	+ 7 52.3	1.650	2.605	7.3	20.8
3 12	12 2.16	+ 9 8.1	1.639	2.623	3.8	20.6
3 22	11 52.85	+10 17.1	1.656	2.640	4.3	20.7
4 1	11 44.05	+11 11.8	1.701	2.657	7.9	20.9
4 11	11 36.71	+11 47.8	1.772	2.673	11.6	21.2
4 21	11 31.48	+12 3.5	1.866	2.689	14.8	21.4

28484 Aishwarya 3 19.2 282°.66 2°.5/21.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.89	− 8 12.3	1.456	2.252	18.5	18.8
2 21	12 16.06	− 8 1.8	1.354	2.232	15.0	18.5
3 2	12 10.33	− 7 26.7	1.272	2.212	10.7	18.2
3 12	12 2.22	− 6 28.0	1.212	2.192	5.8	17.9
3 22	11 52.75	− 5 10.7	1.178	2.172	2.6	17.6
4 1	11 43.26	− 3 43.7	1.170	2.151	6.8	17.8
4 11	11 35.18	− 2 18.4	1.186	2.131	12.1	18.0
4 21	11 29.60	− 1 4.7	1.225	2.110	17.0	18.3

152199 2005 QG_{104} 3 19.2 47°.75 0°.5/19.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.79	− 4 29.0	1.481	2.292	17.6	20.4
2 21	12 14.58	− 3 51.6	1.419	2.310	13.6	20.2
3 2	12 8.84	− 2 54.1	1.378	2.328	9.0	19.9
3 12	12 1.36	− 1 41.9	1.361	2.347	4.0	19.7
3 22	11 53.19	− 0 23.1	1.370	2.366	1.3	19.5
4 1	11 45.52	+ 0 52.9	1.407	2.385	6.3	19.9
4 11	11 39.41	+ 1 57.7	1.468	2.405	10.8	20.2
4 21	11 35.54	+ 2 45.9	1.552	2.425	14.7	20.5

508676 2017 UB_{13} 3 19.2 213°.94 3°.3/23.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.68	−13 47.2	2.408	3.144	13.7	21.7
2 21	12 13.81	−13 28.9	2.302	3.138	11.3	21.5
3 2	12 8.09	−12 51.3	2.218	3.131	8.4	21.3
3 12	12 1.03	−11 55.3	2.160	3.123	5.4	21.1
3 22	11 53.28	−10 44.1	2.130	3.115	3.4	20.9
4 1	11 45.66	− 9 23.0	2.130	3.107	4.7	21.0
4 11	11 38.96	− 7 58.8	2.159	3.098	7.8	21.2
4 21	11 33.77	− 6 38.3	2.214	3.088	10.9	21.4

988 Appella 3 19.2 146°.90 0°.4/18.7 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.47	− 0 17.1	2.990	3.775	10.2	17.5
2 21	12 13.09	+ 0 12.4	2.906	3.785	7.8	17.4
3 2	12 7.32	+ 0 50.2	2.847	3.794	5.1	17.2
3 12	12 0.61	+ 1 33.1	2.816	3.803	2.1	17.0
3 22	11 53.48	+ 2 17.5	2.817	3.811	1.1	16.9
4 1	11 46.56	+ 2 59.6	2.848	3.819	4.1	17.2
4 11	11 40.39	+ 3 35.7	2.908	3.826	6.9	17.3
4 21	11 35.43	+ 4 3.3	2.994	3.833	9.4	17.5

342970 2009 BY_{16} 3 19.2 67°.20 2°.6/16.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 15.52	+ 4 39.3	2.200	3.019	12.3	20.7
2 21	12 12.15	+ 5 46.3	2.123	3.022	9.3	20.6
3 2	12 6.97	+ 7 2.3	2.070	3.026	6.0	20.4
3 12	12 0.52	+ 8 21.5	2.044	3.029	3.0	20.2
3 22	11 53.51	+ 9 36.9	2.048	3.033	3.5	20.2
4 1	11 46.74	+10 42.1	2.080	3.036	6.6	20.4
4 11	11 40.97	+11 32.2	2.139	3.040	9.9	20.6
4 21	11 36.76	+12 4.8	2.222	3.044	12.8	20.8

145424 2005 QC_{16} 3 19.2 203°.68 0°.2/18.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.50	− 1 13.1	2.669	3.458	11.2	21.3
2 21	12 12.61	− 0 43.9	2.575	3.456	8.6	21.1
3 2	12 7.15	− 0 4.5	2.505	3.453	5.7	20.9
3 12	12 0.58	+ 0 41.8	2.464	3.450	2.4	20.7
3 22	11 53.49	+ 1 31.0	2.452	3.447	1.1	20.6
4 1	11 46.55	+ 2 18.4	2.470	3.444	4.4	20.8
4 11	11 40.42	+ 2 59.9	2.517	3.440	7.6	21.0
4 21	11 35.61	+ 3 32.1	2.589	3.436	10.4	21.2

415285 2013 FN_{23} 3 19.2 290°.74 1°.1/18.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.87	+ 0 46.1	1.496	2.316	16.9	21.4
2 21	12 17.49	+ 1 8.1	1.396	2.295	13.3	21.1
3 2	12 11.21	+ 1 45.6	1.318	2.273	8.8	20.8
3 12	12 2.60	+ 2 34.2	1.263	2.251	3.7	20.4
3 22	11 52.64	+ 3 26.9	1.235	2.229	2.3	20.3
4 1	11 42.71	+ 4 15.2	1.233	2.207	7.7	20.5
4 11	11 34.19	+ 4 51.1	1.256	2.186	12.9	20.8
4 21	11 28.13	+ 5 9.7	1.299	2.164	17.5	21.0

166785 2002 VN_{36} 3 19.2 178°.92 0°.3/18.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.51	− 1 12.1	2.445	3.237	12.0	20.5
2 21	12 13.51	− 0 39.7	2.356	3.238	9.3	20.3
3 2	12 7.80	+ 0 3.9	2.290	3.239	6.1	20.1
3 12	12 0.87	+ 0 54.9	2.252	3.239	2.5	19.9
3 22	11 53.39	+ 1 48.8	2.244	3.239	1.2	19.8
4 1	11 46.10	+ 2 40.5	2.265	3.239	4.8	20.0
4 11	11 39.71	+ 3 25.2	2.315	3.238	8.2	20.2
4 21	11 34.78	+ 3 59.3	2.390	3.237	11.1	20.4

459498 2013 CH_{175} 3 19.2 106°.43 1°.5/17.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.45	− 0 20.1	1.520	2.338	16.9	21.6
2 21	12 16.66	+ 0 40.5	1.451	2.348	12.9	21.3
3 2	12 10.26	+ 1 58.6	1.404	2.359	8.3	21.1
3 12	12 2.01	+ 3 26.9	1.382	2.369	3.4	20.8
3 22	11 52.96	+ 4 55.9	1.386	2.379	2.7	20.8
4 1	11 44.35	+ 6 15.8	1.419	2.389	7.4	21.1
4 11	11 37.31	+ 7 18.5	1.476	2.399	11.9	21.4
4 21	11 32.57	+ 8 0.1	1.556	2.408	15.8	21.6

83803 2001 TD_{219} 3 19.2 95°.55 1°.6/17.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 15.64	+ 1 38.2	2.320	3.127	12.1	20.0
2 21	12 12.11	+ 2 38.9	2.243	3.136	9.2	19.8
3 2	12 6.88	+ 3 50.0	2.190	3.145	5.9	19.7
3 12	12 0.47	+ 5 6.4	2.166	3.153	2.5	19.4
3 22	11 53.56	+ 6 21.8	2.171	3.161	2.4	19.4
4 1	11 46.89	+ 7 30.1	2.205	3.170	5.7	19.7
4 11	11 41.18	+ 8 26.3	2.267	3.178	8.9	19.9
4 21	11 36.94	+ 9 7.3	2.353	3.186	11.8	20.1

35747 1999 GE_{32} 3 19.2 248°.86 1°.6/17.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.57	+ 2 19.3	2.198	3.003	12.8	19.8
2 21	12 15.45	+ 3 3.9	2.095	2.986	9.8	19.5
3 2	12 9.29	+ 3 59.7	2.015	2.968	6.4	19.3
3 12	12 1.60	+ 5 2.0	1.963	2.950	2.8	19.0
3 22	11 53.10	+ 6 4.9	1.940	2.931	2.5	18.9
4 1	11 44.68	+ 7 1.9	1.947	2.912	6.2	19.1
4 11	11 37.23	+ 7 47.6	1.981	2.893	10.0	19.3
4 21	11 31.44	+ 8 18.3	2.039	2.872	13.3	19.5

413198 2002 XE_{119} 3 19.2 108°.00 2°.1/17.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.32	+ 3 18.2	1.826	2.640	14.6	21.6
2 21	12 16.87	+ 4 5.4	1.757	2.653	11.1	21.4
3 2	12 10.17	+ 5 3.1	1.711	2.666	7.1	21.2
3 12	12 1.91	+ 6 5.1	1.692	2.678	3.2	21.0
3 22	11 53.02	+ 7 4.3	1.701	2.691	3.1	21.0
4 1	11 44.54	+ 7 53.9	1.738	2.703	6.9	21.3
4 11	11 37.41	+ 8 28.8	1.802	2.715	10.7	21.5
4 21	11 32.27	+ 8 46.7	1.888	2.726	14.1	21.8

213802 2003 GP_{14} 3 19.2 5°.29 5°.1/15.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.07	+13 44.8	1.801	2.632	14.1	19.9
2 21	12 17.56	+14 9.4	1.730	2.632	10.9	19.7
3 2	12 10.69	+14 33.9	1.683	2.633	7.6	19.5
3 12	12 2.15	+14 51.7	1.660	2.635	5.3	19.3
3 22	11 52.93	+14 57.0	1.665	2.638	5.9	19.4
4 1	11 44.12	+14 45.6	1.697	2.641	8.9	19.6
4 11	11 36.74	+14 16.0	1.754	2.645	12.2	19.8
4 21	11 31.45	+13 29.3	1.832	2.650	15.2	20.0

137083 1998 XZ_{13} 3 19.2 136°.01 1°.5/17.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 21.56	+ 1 47.4	2.130	2.930	13.3	20.7
2 21	12 16.75	+ 2 33.6	2.055	2.944	10.1	20.6
3 2	12 9.95	+ 3 30.3	2.005	2.957	6.5	20.4
3 12	12 1.80	+ 4 32.1	1.983	2.969	2.7	20.1
3 22	11 53.07	+ 5 33.1	1.990	2.981	2.3	20.1
4 1	11 44.68	+ 6 27.2	2.026	2.992	5.9	20.4
4 11	11 37.46	+ 7 9.4	2.090	3.003	9.5	20.6
4 21	11 31.99	+ 7 37.0	2.178	3.012	12.6	20.8

57052 2001 MS_{6} 3 19.2 108°.97 2°.1/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.84	+ 4 24.1	2.188	2.989	12.9	20.2
2 21	12 18.30	+ 5 7.1	2.126	3.015	9.8	20.1
3 2	12 10.84	+ 5 57.4	2.088	3.040	6.3	19.9
3 12	12 2.12	+ 6 49.7	2.079	3.065	2.9	19.7
3 22	11 52.96	+ 7 38.3	2.100	3.089	2.8	19.8
4 1	11 44.25	+ 8 18.0	2.151	3.112	6.1	20.0
4 11	11 36.77	+ 8 45.2	2.230	3.134	9.4	20.2
4 21	11 31.05	+ 8 58.2	2.332	3.156	12.2	20.5

59864 1999 RW_{102} 3 19.2 261°.70 5°.9/25.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.18	−19 9.7	2.603	3.297	13.8	19.3
2 21	12 15.75	−19 53.4	2.493	3.287	11.8	19.1
3 2	12 9.42	−20 20.4	2.403	3.276	9.6	18.9
3 12	12 1.65	−20 29.1	2.338	3.265	7.4	18.8
3 22	11 53.09	−20 19.4	2.300	3.255	6.0	18.6
4 1	11 44.56	−19 53.3	2.290	3.244	6.3	18.6
4 11	11 36.86	−19 15.0	2.308	3.233	8.1	18.7
4 21	11 30.66	−18 30.1	2.351	3.222	10.5	18.9

86382 2000 AY_{41} 3 19.2 172°.15 1°.3/18.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.94	+ 1 15.7	1.629	2.438	16.3	20.0
2 21	12 20.09	+ 1 43.5	1.548	2.440	12.6	19.7
3 2	12 12.55	+ 2 24.6	1.490	2.443	8.2	19.5
3 12	12 3.03	+ 3 13.7	1.457	2.444	3.4	19.2
3 22	11 52.59	+ 4 3.8	1.452	2.446	2.3	19.1
4 1	11 42.50	+ 4 47.7	1.475	2.446	7.1	19.4
4 11	11 33.95	+ 5 19.1	1.524	2.446	11.6	19.7
4 21	11 27.74	+ 5 34.6	1.595	2.446	15.5	19.9

498129 2007 TY_{26} 3 19.2 134°.23 0°.1/19.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.96	− 2 36.8	2.584	3.367	11.7	22.3
2 21	12 13.70	− 2 7.2	2.502	3.378	9.0	22.1
3 2	12 7.84	− 1 26.6	2.443	3.388	6.0	22.0
3 12	12 0.88	− 0 38.3	2.413	3.398	2.6	21.7
3 22	11 53.45	+ 0 13.6	2.412	3.407	0.9	21.6
4 1	11 46.24	+ 1 4.2	2.442	3.416	4.4	21.9
4 11	11 39.93	+ 1 49.2	2.500	3.425	7.5	22.1
4 21	11 35.00	+ 2 25.0	2.583	3.433	10.3	22.3

342890 2008 YJ_{94} 3 19.2 253°.17 1°.1/20.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.92	− 5 9.0	2.337	3.116	12.9	21.2
2 21	12 14.04	− 4 53.7	2.234	3.105	10.2	21.0
3 2	12 8.28	− 4 24.7	2.153	3.093	7.0	20.7
3 12	12 1.15	− 3 44.2	2.100	3.082	3.4	20.5
3 22	11 53.31	− 2 56.1	2.075	3.070	1.3	20.3
4 1	11 45.58	− 2 5.4	2.080	3.058	4.6	20.5
4 11	11 38.75	− 1 17.6	2.113	3.046	8.2	20.7
4 21	11 33.46	− 0 37.2	2.170	3.034	11.5	20.9

291885 2006 PE_{25} 3 19.2 210°.23 0°.4/18.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.11	− 1 28.3	2.087	2.880	13.8	22.1
2 21	12 16.67	− 0 51.7	1.991	2.874	10.7	21.9
3 2	12 10.09	− 0 1.2	1.918	2.867	7.0	21.6
3 12	12 1.95	+ 0 59.1	1.872	2.859	3.0	21.3
3 22	11 53.01	+ 2 3.5	1.856	2.851	1.4	21.2
4 1	11 44.23	+ 3 5.4	1.869	2.841	5.7	21.5
4 11	11 36.54	+ 3 58.7	1.909	2.832	9.7	21.7
4 21	11 30.63	+ 4 38.9	1.974	2.821	13.1	21.9

227705 2006 DN_{90} 3 19.2 129°.62 0°.6/18.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.41	− 0 16.1	2.249	3.045	12.8	21.2
2 21	12 15.04	+ 0 17.4	2.170	3.055	9.8	21.0
3 2	12 8.83	+ 1 1.8	2.115	3.065	6.4	20.8
3 12	12 1.33	+ 1 53.1	2.087	3.074	2.6	20.6
3 22	11 53.28	+ 2 46.2	2.089	3.083	1.5	20.5
4 1	11 45.51	+ 3 35.5	2.120	3.092	5.2	20.8
4 11	11 38.79	+ 4 16.3	2.179	3.100	8.7	21.0
4 21	11 33.68	+ 4 45.2	2.262	3.108	11.7	21.3

168307 1206 $T\text{-}_{3}$ 3 19.2 211°.06 2°.1/21.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.82	− 8 27.2	2.216	2.976	14.1	21.3
2 21	12 17.16	− 8 13.1	2.111	2.968	11.3	21.1
3 2	12 10.41	− 7 42.2	2.029	2.960	8.0	20.9
3 12	12 2.09	− 6 56.1	1.974	2.950	4.4	20.6
3 22	11 52.95	− 5 58.4	1.947	2.940	2.1	20.4
4 1	11 43.93	− 4 54.7	1.951	2.929	4.9	20.6
4 11	11 35.93	− 3 51.6	1.982	2.917	8.6	20.8
4 21	11 29.64	− 2 55.0	2.040	2.904	12.1	21.0

412863 2014 PH_{70} 3 19.2 224°.01 1°.8/17.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 21.58	+ 1 20.1	1.829	2.637	14.8	22.0
2 21	12 17.37	+ 2 12.8	1.735	2.627	11.4	21.8
3 2	12 10.73	+ 3 20.1	1.664	2.617	7.4	21.5
3 12	12 2.28	+ 4 36.1	1.619	2.606	3.2	21.2
3 22	11 52.88	+ 5 53.4	1.603	2.595	2.8	21.2
4 1	11 43.63	+ 7 3.5	1.616	2.582	7.1	21.4
4 11	11 35.63	+ 7 59.4	1.655	2.569	11.4	21.6
4 21	11 29.66	+ 8 36.8	1.716	2.556	15.2	21.8

419259 2009 VX_{92} 3 19.2 150°.13 6°.7/10.9 18

2 11	12 23.30	+21 16.2	2.433	3.247	11.4	21.8
2 21	12 17.92	+22 32.3	2.375	3.258	9.2	21.7
3 2	12 10.63	+23 44.0	2.343	3.268	7.4	21.6
3 12	12 2.07	+24 44.1	2.338	3.277	6.8	21.5
3 22	11 53.01	+25 26.5	2.362	3.285	7.7	21.6
4 1	11 44.31	+25 47.6	2.413	3.293	9.6	21.7
4 11	11 36.77	+25 46.4	2.488	3.300	11.8	21.9
4 21	11 30.94	+25 24.6	2.584	3.307	13.7	22.0

402192 2004 TQ_{162} 3 19.2 158°.53 4°.3/15.6 18

2 11	12 26.95	+10 9.8	1.792	2.609	14.7	21.6
2 21	12 21.33	+10 52.8	1.719	2.615	11.3	21.4
3 2	12 13.18	+11 40.0	1.669	2.621	7.6	21.2
3 12	12 3.24	+12 24.3	1.647	2.626	4.7	21.0
3 22	11 52.54	+12 58.5	1.652	2.630	5.3	21.0
4 1	11 42.28	+13 16.9	1.686	2.634	8.6	21.2
4 11	11 33.54	+13 16.5	1.745	2.637	12.2	21.4
4 21	11 27.04	+12 57.4	1.827	2.639	15.5	21.7

221322 2005 VG_{98} 3 19.2 229°.05 3°.0/22.4 17

2 11	12 19.63	−11 20.6	2.288	3.036	14.0	21.5
2 21	12 15.46	−11 12.0	2.179	3.025	11.4	21.3
3 2	12 9.29	−10 45.2	2.092	3.013	8.4	21.1
3 12	12 1.61	−10 1.4	2.031	3.000	5.1	20.9
3 22	11 53.14	− 9 3.4	1.998	2.986	3.0	20.7
4 1	11 44.74	− 7 56.3	1.995	2.972	4.9	20.8
4 11	11 37.29	− 6 46.8	2.020	2.958	8.3	21.0
4 21	11 31.47	− 5 41.2	2.071	2.942	11.6	21.1

380458 2003 UQ_{56} 3 19.2 150°.26 0°.5/18.6 17

2 11	12 19.52	− 0 8.1	2.534	3.324	11.7	21.6
2 21	12 14.93	+ 0 20.1	2.451	3.332	9.0	21.5
3 2	12 8.67	+ 0 57.9	2.391	3.339	5.8	21.3
3 12	12 1.25	+ 1 41.7	2.360	3.347	2.4	21.1
3 22	11 53.32	+ 2 27.2	2.359	3.353	1.3	21.0
4 1	11 45.62	+ 3 9.9	2.388	3.360	4.7	21.2
4 11	11 38.85	+ 3 45.4	2.445	3.365	7.9	21.4
4 21	11 33.52	+ 4 11.0	2.528	3.371	10.8	21.6

323823 2005 SR_{33} 3 19.2 249°.75 1°.2/17.9 17 R

2 11	12 19.82	+ 0 27.9	2.190	2.989	13.0	22.1
2 21	12 15.70	+ 1 15.8	2.081	2.968	10.1	21.9
3 2	12 9.50	+ 2 17.0	1.996	2.948	6.6	21.6
3 12	12 1.73	+ 3 27.0	1.939	2.926	2.8	21.4
3 22	11 53.09	+ 4 39.8	1.911	2.904	2.1	21.3
4 1	11 44.50	+ 5 48.5	1.913	2.881	6.1	21.5
4 11	11 36.85	+ 6 46.8	1.943	2.857	10.0	21.7
4 21	11 30.87	+ 7 30.3	1.996	2.833	13.4	21.8

372471 2009 SL_{172} 3 19.2 79°.58 2°.9/16.5 18

2 11	12 20.44	+ 5 33.9	1.791	2.613	14.5	21.3
2 21	12 16.27	+ 6 20.6	1.723	2.623	11.0	21.1
3 2	12 9.82	+ 7 15.9	1.678	2.633	7.1	20.9
3 12	12 1.79	+ 8 13.1	1.659	2.644	3.5	20.6
3 22	11 53.12	+ 9 5.2	1.668	2.654	3.8	20.7
4 1	11 44.84	+ 9 45.7	1.704	2.664	7.4	20.9
4 11	11 37.92	+10 10.0	1.766	2.675	11.2	21.2
4 21	11 33.01	+10 16.6	1.851	2.685	14.4	21.4

346799 2009 BQ_{174} 3 19.2 23°.62 0°.1/19.1 17

2 11	12 17.27	− 1 17.8	2.070	2.871	13.6	21.4
2 21	12 13.63	− 0 55.7	1.987	2.874	10.5	21.1
3 2	12 8.03	− 0 21.4	1.927	2.877	6.9	20.9
3 12	12 1.03	+ 0 21.5	1.893	2.880	2.9	20.7
3 22	11 53.40	+ 1 8.0	1.888	2.883	1.2	20.6
4 1	11 46.02	+ 1 52.4	1.911	2.887	5.3	20.8
4 11	11 39.72	+ 2 29.5	1.961	2.891	9.0	21.1
4 21	11 35.10	+ 2 55.6	2.036	2.895	12.3	21.3

158732 2003 NS_{7} 3 19.2 224°.55 1°.2/20.6 18

2 11	12 17.83	− 6 44.6	2.436	3.206	12.7	20.7
2 21	12 13.89	− 6 14.1	2.331	3.196	10.1	20.5
3 2	12 8.15	− 5 28.2	2.250	3.186	6.9	20.3
3 12	12 1.10	− 4 29.4	2.195	3.176	3.5	20.1
3 22	11 53.37	− 3 22.0	2.170	3.165	1.3	19.9
4 1	11 45.75	− 2 11.5	2.175	3.153	4.5	20.1
4 11	11 39.01	− 1 4.1	2.208	3.141	8.0	20.3
4 21	11 33.73	− 0 4.8	2.268	3.128	11.2	20.4

75576 2000 AA_{10} 3 19.2 5°.30 4°.3/21.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 18.28	− 7 22.8	1.151	1.970	21.1	17.8
2 21	12 15.95	− 8 11.7	1.080	1.969	17.1	17.5
3 2	12 10.35	− 8 39.0	1.027	1.970	12.3	17.3
3 12	12 2.25	− 8 44.2	0.995	1.972	7.3	17.0
3 22	11 52.91	− 8 30.1	0.985	1.976	4.3	16.8
4 1	11 43.96	− 8 2.9	0.999	1.982	7.4	17.0
4 11	11 36.92	− 7 31.7	1.036	1.989	12.4	17.3
4 21	11 32.78	− 7 4.9	1.092	1.997	17.0	17.6

207081 2004 XZ_{147} 3 19.2 41°.52 3°.8/16.4 18

2 11	12 20.42	+ 5 26.6	1.237	2.081	18.3	20.2
2 21	12 17.10	+ 6 20.2	1.181	2.093	14.0	20.0
3 2	12 10.74	+ 7 25.7	1.146	2.106	9.0	19.7
3 12	12 2.27	+ 8 33.6	1.133	2.119	4.6	19.5
3 22	11 52.96	+ 9 33.7	1.146	2.133	5.0	19.6
4 1	11 44.28	+10 16.7	1.183	2.148	9.4	19.9
4 11	11 37.52	+10 37.2	1.244	2.163	14.0	20.1
4 21	11 33.42	+10 34.2	1.324	2.178	17.9	20.4

469746 2005 OX_{4} 3 19.2 240°.32 3°.4/23.3 17

2 11	12 18.13	−12 51.6	2.731	3.463	12.4	21.8
2 21	12 13.99	−13 0.5	2.619	3.451	10.2	21.6
3 2	12 8.16	−12 54.6	2.531	3.440	7.7	21.4
3 12	12 1.10	−12 34.3	2.468	3.428	5.1	21.3
3 22	11 53.38	−12 1.1	2.434	3.415	3.4	21.1
4 1	11 45.72	−11 18.5	2.429	3.403	4.5	21.2
4 11	11 38.84	−10 31.1	2.454	3.390	7.1	21.3
4 21	11 33.30	− 9 43.7	2.504	3.377	9.8	21.5

273319 2006 TW_{2} 3 19.2 88°.11 0°.8/18.4 18

2 11	12 21.03	− 1 47.5	1.805	2.606	15.3	21.8
2 21	12 16.55	− 0 49.6	1.745	2.632	11.7	21.6
3 2	12 9.89	+ 0 23.3	1.708	2.659	7.5	21.4
3 12	12 1.79	+ 1 45.1	1.697	2.684	3.1	21.2
3 22	11 53.16	+ 3 7.9	1.716	2.710	1.8	21.2
4 1	11 45.03	+ 4 23.9	1.763	2.735	6.1	21.5
4 11	11 38.29	+ 5 26.5	1.837	2.759	10.0	21.8
4 21	11 33.52	+ 6 12.0	1.935	2.783	13.3	22.0

522568 2016 EK_{244} 3 19.2 301°.54 2°.7/17.1 17

2 11	12 23.75	+ 6 55.4	1.808	2.626	14.6	21.3
2 21	12 19.02	+ 7 8.4	1.720	2.617	11.2	21.1
3 2	12 11.79	+ 7 27.3	1.654	2.608	7.4	20.8
3 12	12 2.73	+ 7 47.1	1.615	2.600	3.6	20.6
3 22	11 52.76	+ 8 2.0	1.603	2.592	3.5	20.5
4 1	11 43.03	+ 8 7.2	1.620	2.584	7.4	20.7
4 11	11 34.65	+ 7 59.0	1.662	2.576	11.4	21.0
4 21	11 28.39	+ 7 36.3	1.727	2.568	15.0	21.2

310915 2003 SO_{93} 3 19.2 112°.89 2°.4/17.0 18

2 11	12 23.69	+ 3 57.0	1.843	2.653	14.6	21.5
2 21	12 18.61	+ 4 46.7	1.779	2.673	11.1	21.3
3 2	12 11.27	+ 5 45.9	1.738	2.692	7.1	21.1
3 12	12 2.39	+ 6 48.2	1.724	2.710	3.3	20.9
3 22	11 52.94	+ 7 46.6	1.740	2.728	3.3	20.9
4 1	11 43.95	+ 8 34.4	1.783	2.745	7.0	21.2
4 11	11 36.38	+ 9 6.9	1.854	2.762	10.7	21.4
4 21	11 30.85	+ 9 22.3	1.947	2.778	14.0	21.7

371043 2005 UC_{163} 3 19.2 292°.32 0°.7/19.8 17

2 11	12 19.62	− 3 15.2	1.727	2.528	15.8	21.4
2 21	12 16.16	− 3 5.8	1.621	2.506	12.6	21.1
3 2	12 10.16	− 2 40.1	1.536	2.483	8.5	20.8
3 12	12 2.13	− 2 0.8	1.476	2.461	4.0	20.5
3 22	11 52.96	− 1 12.5	1.443	2.439	1.3	20.2
4 1	11 43.78	− 0 22.1	1.438	2.416	6.2	20.5
4 11	11 35.79	+ 0 23.1	1.458	2.394	11.0	20.7
4 21	11 29.91	+ 0 57.0	1.501	2.372	15.3	20.9

129194 2005 MS_{40} 3 19.2 38°.81 5°.9/13.2 18

2 11	12 16.47	+ 9 24.0	1.512	2.357	15.5	19.5
2 21	12 13.69	+11 15.2	1.450	2.363	11.8	19.3
3 2	12 8.38	+13 15.5	1.412	2.369	8.1	19.1
3 12	12 1.26	+15 13.1	1.400	2.375	5.9	19.0
3 22	11 53.37	+16 56.0	1.413	2.382	7.4	19.1
4 1	11 45.88	+18 14.5	1.453	2.389	10.8	19.3
4 11	11 39.89	+19 3.2	1.516	2.396	14.4	19.5
4 21	11 36.10	+19 22.0	1.598	2.403	17.6	19.7

467266 2016 EO_{184} 3 19.2 159°.08 7°.5/11.1 18

2 11	12 24.57	+21 27.8	2.117	2.936	12.7	21.4
2 21	12 19.21	+22 42.3	2.056	2.942	10.3	21.3
3 2	12 11.64	+23 52.0	2.020	2.947	8.3	21.1
3 12	12 2.56	+24 48.5	2.011	2.951	7.5	21.1
3 22	11 52.88	+25 25.1	2.028	2.955	8.6	21.2
4 1	11 43.61	+25 37.5	2.073	2.959	10.7	21.3
4 11	11 35.69	+25 25.1	2.141	2.962	13.1	21.5
4 21	11 29.74	+24 50.1	2.229	2.965	15.3	21.6

255835 2006 SK_{98} 3 19.2 44°.80 4°.2/16.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 26.09	+ 9 33.0	1.420	2.252	17.0	20.4
2 21	12 21.09	+ 9 52.1	1.361	2.265	13.1	20.2
3 2	12 13.18	+10 15.3	1.323	2.279	8.7	20.0
3 12	12 3.27	+10 35.3	1.310	2.293	4.8	19.8
3 22	11 52.62	+10 45.2	1.323	2.308	5.1	19.8
4 1	11 42.64	+10 40.0	1.363	2.323	9.0	20.1
4 11	11 34.55	+10 17.4	1.427	2.338	13.1	20.4
4 21	11 29.07	+ 9 38.0	1.511	2.354	16.7	20.6

379628 2011 DM_{13} 3 19.2 125°.11 3°.4/22.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.96	−10 31.8	2.049	2.804	15.2	21.5
2 21	12 17.30	−10 44.9	1.964	2.813	12.4	21.3
3 2	12 10.48	−10 40.5	1.900	2.822	9.0	21.2
3 12	12 2.12	−10 19.4	1.862	2.831	5.5	21.0
3 22	11 53.04	− 9 44.5	1.852	2.839	3.4	20.8
4 1	11 44.22	− 9 0.5	1.870	2.847	5.2	21.0
4 11	11 36.60	− 8 13.7	1.916	2.855	8.6	21.2
4 21	11 30.84	− 7 29.9	1.987	2.862	11.9	21.4

500930 2013 PR_{47} 3 19.2 205°.11 0°.9/20.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.76	− 4 35.7	2.301	3.077	13.1	23.0
2 21	12 16.21	− 4 17.0	2.202	3.072	10.4	22.8
3 2	12 9.72	− 3 44.6	2.127	3.067	7.0	22.6
3 12	12 1.79	− 3 1.2	2.078	3.061	3.3	22.3
3 22	11 53.16	− 2 10.7	2.059	3.054	1.1	22.2
4 1	11 44.66	− 1 18.5	2.069	3.046	4.8	22.4
4 11	11 37.15	− 0 30.2	2.108	3.038	8.5	22.6
4 21	11 31.26	+ 0 9.8	2.173	3.030	11.7	22.8

466101 2012 CT_{22} 3 19.2 61°.33 1°.9/20.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.04	− 6 59.4	1.489	2.287	18.1	21.6
2 21	12 16.39	− 6 43.2	1.423	2.303	14.3	21.4
3 2	12 10.12	− 6 5.3	1.376	2.319	9.8	21.2
3 12	12 2.00	− 5 9.5	1.354	2.335	5.0	20.9
3 22	11 53.11	− 4 2.2	1.357	2.352	2.0	20.8
4 1	11 44.71	− 2 52.0	1.387	2.368	6.0	21.1
4 11	11 37.91	− 1 47.9	1.443	2.385	10.6	21.4
4 21	11 33.43	− 0 56.5	1.521	2.402	14.6	21.6

206244 2002 XL_{17} 3 19.2 60°.19 2°.3/21.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.63	− 7 17.1	2.051	2.824	14.7	20.0
2 21	12 16.17	− 7 28.9	1.975	2.839	11.7	19.9
3 2	12 9.67	− 7 25.8	1.922	2.855	8.2	19.7
3 12	12 1.75	− 7 9.3	1.894	2.870	4.6	19.5
3 22	11 53.22	− 6 42.6	1.894	2.886	2.4	19.4
4 1	11 45.02	− 6 10.4	1.923	2.902	4.9	19.5
4 11	11 38.01	− 5 37.9	1.979	2.918	8.4	19.8
4 21	11 32.79	− 5 10.0	2.060	2.934	11.6	20.0

311239 2005 CB_{28} 3 19.2 21°.02 4°.4/15.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.51	+ 5 54.6	1.365	2.209	17.0	20.3
2 21	12 14.77	+ 7 15.1	1.299	2.212	12.9	20.1
3 2	12 9.24	+ 8 48.7	1.254	2.215	8.4	19.8
3 12	12 1.69	+10 25.3	1.234	2.218	4.8	19.6
3 22	11 53.24	+11 53.2	1.239	2.222	5.7	19.7
4 1	11 45.21	+13 1.9	1.270	2.226	9.9	19.9
4 11	11 38.83	+13 44.8	1.324	2.231	14.2	20.2
4 21	11 34.88	+14 0.3	1.397	2.236	18.0	20.4

224511 2005 WE_{43} 3 19.2 132°.10 2°.0/17.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.75	+ 3 42.4	2.031	2.841	13.5	21.3
2 21	12 16.29	+ 4 22.5	1.954	2.848	10.3	21.1
3 2	12 9.77	+ 5 11.6	1.902	2.856	6.6	20.9
3 12	12 1.80	+ 6 4.6	1.876	2.863	3.0	20.7
3 22	11 53.21	+ 6 55.3	1.880	2.870	2.8	20.7
4 1	11 44.93	+ 7 37.8	1.912	2.876	6.4	20.9
4 11	11 37.84	+ 8 7.6	1.971	2.882	10.0	21.1
4 21	11 32.55	+ 8 22.3	2.053	2.888	13.2	21.3

241311 2007 VM_{7} 3 19.2 41°.90 4°.0/14.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 15.94	+ 8 4.9	1.932	2.763	13.2	19.3
2 21	12 12.69	+ 9 19.3	1.868	2.774	10.0	19.1
3 2	12 7.43	+10 40.4	1.829	2.785	6.6	18.9
3 12	12 0.80	+12 0.6	1.817	2.797	4.1	18.8
3 22	11 53.61	+13 12.1	1.832	2.809	5.0	18.9
4 1	11 46.77	+14 8.2	1.875	2.821	8.0	19.1
4 11	11 41.11	+14 44.8	1.943	2.834	11.2	19.3
4 21	11 37.20	+15 0.8	2.033	2.847	14.1	19.5

368791 2005 XC_{40} 3 19.2 156°.38 1°.8/21.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.38	− 7 24.6	2.252	3.018	13.7	22.1
2 21	12 15.90	− 7 13.8	2.163	3.024	10.9	22.0
3 2	12 9.48	− 6 47.8	2.097	3.030	7.6	21.8
3 12	12 1.70	− 6 8.7	2.057	3.035	4.1	21.5
3 22	11 53.27	− 5 20.3	2.046	3.039	1.8	21.4
4 1	11 45.07	− 4 27.6	2.065	3.043	4.6	21.6
4 11	11 37.91	− 3 36.5	2.112	3.047	8.1	21.8
4 21	11 32.41	− 2 51.9	2.184	3.050	11.3	22.0

8593 Angustirostris 3 19.2 24°.23 1°.0/18.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 22.05	+ 3 1.6	1.963	2.770	14.0	16.8
2 21	12 17.38	+ 3 0.4	1.884	2.775	10.7	16.6
3 2	12 10.54	+ 3 7.0	1.828	2.780	7.0	16.3
3 12	12 2.16	+ 3 17.7	1.798	2.785	2.9	16.1
3 22	11 53.10	+ 3 28.3	1.797	2.791	1.8	16.0
4 1	11 44.37	+ 3 34.8	1.825	2.797	5.8	16.3
4 11	11 36.89	+ 3 33.5	1.879	2.804	9.7	16.5
4 21	11 31.30	+ 3 22.3	1.958	2.811	13.0	16.8

282159 2001 SV_{110} 3 19.2 172°.76 3°.6/24.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.55	−16 13.1	3.132	3.837	11.4	20.6
2 21	12 13.27	−16 13.3	3.030	3.840	9.5	20.5
3 2	12 7.55	−15 58.5	2.951	3.843	7.4	20.3
3 12	12 0.82	−15 29.0	2.898	3.845	5.2	20.2
3 22	11 53.62	−14 46.7	2.874	3.847	3.7	20.1
4 1	11 46.54	−13 54.7	2.880	3.848	4.3	20.1
4 11	11 40.19	−12 57.5	2.915	3.849	6.2	20.2
4 21	11 35.02	−11 59.6	2.978	3.849	8.5	20.4

489479 2007 EL_{136} 3 19.2 265°.28 0°.2/19.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.29	− 3 40.8	1.943	2.740	14.5	22.2
2 21	12 13.94	− 3 1.7	1.846	2.730	11.3	22.0
3 2	12 8.44	− 2 5.7	1.772	2.719	7.6	21.8
3 12	12 1.33	− 0 56.5	1.723	2.709	3.3	21.5
3 22	11 53.40	+ 0 19.9	1.703	2.699	1.2	21.3
4 1	11 45.61	+ 1 35.8	1.711	2.688	5.7	21.6
4 11	11 38.91	+ 2 43.9	1.747	2.677	9.9	21.8
4 21	11 34.02	+ 3 38.4	1.806	2.667	13.6	22.0

128043 2003 LN_{1} 3 19.2 263°.52 5°.0/14.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.82	+12 10.2	2.049	2.874	12.8	19.6
2 21	12 16.60	+13 10.9	1.957	2.857	10.0	19.4
3 2	12 10.16	+14 16.0	1.890	2.840	7.0	19.2
3 12	12 2.06	+15 18.1	1.849	2.823	5.0	19.0
3 22	11 53.12	+16 9.9	1.837	2.805	6.0	19.0
4 1	11 44.32	+16 45.0	1.852	2.787	8.9	19.2
4 11	11 36.65	+16 59.7	1.893	2.769	12.2	19.3
4 21	11 30.82	+16 53.3	1.955	2.750	15.2	19.5

158577 2002 JV_{143} 3 19.2 250°.28 5°.2/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.72	+12 13.7	2.147	2.975	12.2	20.2
2 21	12 14.09	+13 43.1	2.062	2.963	9.4	20.0
3 2	12 8.44	+15 17.8	2.002	2.951	6.7	19.8
3 12	12 1.31	+16 49.9	1.970	2.939	5.2	19.6
3 22	11 53.43	+18 11.0	1.966	2.926	6.4	19.7
4 1	11 45.71	+19 14.3	1.990	2.913	9.1	19.8
4 11	11 39.03	+19 55.4	2.039	2.900	12.1	20.0
4 21	11 34.03	+20 13.3	2.110	2.887	14.8	20.2

38098 1999 JO_{13} 3 19.2 146°.62 2°.8/16.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.00	+ 4 50.1	1.889	2.702	14.2	19.5
2 21	12 18.17	+ 5 47.1	1.816	2.712	10.8	19.3
3 2	12 11.08	+ 6 53.6	1.767	2.721	7.0	19.1
3 12	12 2.40	+ 8 3.0	1.745	2.730	3.5	18.9
3 22	11 53.05	+ 9 7.8	1.752	2.738	3.7	19.0
4 1	11 44.06	+10 1.0	1.787	2.745	7.3	19.2
4 11	11 36.41	+10 37.8	1.849	2.752	11.0	19.4
4 21	11 30.74	+10 56.1	1.933	2.758	14.3	19.6

194134 2001 SY_{312} 3 19.2 268°.13 3°.2/16.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.63	+ 5 51.1	1.478	2.304	16.8	20.3
2 21	12 20.38	+ 6 21.0	1.389	2.291	13.0	20.0
3 2	12 13.10	+ 7 1.3	1.321	2.278	8.6	19.7
3 12	12 3.46	+ 7 45.2	1.279	2.264	4.2	19.4
3 22	11 52.59	+ 8 24.6	1.262	2.251	4.2	19.3
4 1	11 41.90	+ 8 51.7	1.272	2.237	8.8	19.6
4 11	11 32.81	+ 9 0.7	1.306	2.223	13.6	19.8
4 21	11 26.30	+ 8 49.7	1.361	2.209	17.9	20.0

50377 2000 CG_{88} 3 19.2 224°.41 0°.0/19.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.66	− 1 41.9	2.232	3.024	13.0	19.3
2 21	12 14.64	− 1 20.5	2.139	3.021	10.1	19.1
3 2	12 8.71	− 0 47.1	2.070	3.018	6.7	18.9
3 12	12 1.40	− 0 5.1	2.028	3.014	2.9	18.6
3 22	11 53.42	+ 0 41.0	2.015	3.010	1.1	18.5
4 1	11 45.62	+ 1 25.9	2.031	3.007	5.0	18.8
4 11	11 38.81	+ 2 4.5	2.075	3.002	8.7	19.0
4 21	11 33.62	+ 2 33.0	2.143	2.998	11.9	19.2

428505 2007 XW_{24} 3 19.2 134°.33 6°.1/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.45	+23 12.6	2.985	3.795	9.6	21.5
2 21	12 15.44	+24 24.7	2.934	3.810	7.9	21.4
3 2	12 8.90	+25 31.8	2.909	3.825	6.5	21.3
3 12	12 1.37	+26 27.8	2.912	3.839	6.1	21.3
3 22	11 53.46	+27 8.4	2.944	3.853	7.0	21.4
4 1	11 45.85	+27 30.6	3.003	3.866	8.5	21.5
4 11	11 39.16	+27 33.7	3.087	3.879	10.2	21.6
4 21	11 33.85	+27 18.8	3.192	3.891	11.8	21.8

502887 2015 DD_{220} 3 19.2 70°.48 2°.8/21.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 20.74	− 8 32.9	2.155	2.919	14.3	20.8
2 21	12 16.31	− 8 51.2	2.066	2.923	11.5	20.6
3 2	12 9.83	− 8 54.6	2.000	2.927	8.3	20.4
3 12	12 1.89	− 8 44.1	1.959	2.931	4.9	20.2
3 22	11 53.24	− 8 22.1	1.946	2.936	2.8	20.1
4 1	11 44.81	− 7 52.7	1.962	2.940	4.9	20.2
4 11	11 37.46	− 7 21.0	2.006	2.944	8.3	20.4
4 21	11 31.85	− 6 52.0	2.075	2.949	11.5	20.6

105990 2000 SP_{273} 3 19.2 196°.58 2°.5/22.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.29	−11 10.8	2.996	3.734	11.3	20.4
2 21	12 13.14	−11 6.5	2.892	3.731	9.1	20.3
3 2	12 7.51	−10 48.8	2.812	3.728	6.7	20.1
3 12	12 0.84	−10 18.8	2.758	3.724	4.2	19.9
3 22	11 53.65	− 9 38.7	2.734	3.720	2.5	19.8
4 1	11 46.57	− 8 52.1	2.740	3.716	3.8	19.9
4 11	11 40.21	− 8 3.2	2.775	3.711	6.4	20.1
4 21	11 35.05	− 7 16.2	2.837	3.706	8.9	20.2

384754 2011 QD_{58} 3 19.2 7°.88 2°.6/22.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.52	− 8 49.9	2.317	3.079	13.5	20.7
2 21	12 14.49	− 9 0.0	2.223	3.079	10.9	20.6
3 2	12 8.59	− 8 55.7	2.152	3.079	7.8	20.4
3 12	12 1.35	− 8 37.9	2.107	3.080	4.6	20.2
3 22	11 53.45	− 8 9.2	2.090	3.080	2.6	20.0
4 1	11 45.72	− 7 33.7	2.102	3.081	4.6	20.2
4 11	11 38.96	− 6 56.5	2.142	3.081	7.8	20.4
4 21	11 33.76	− 6 22.2	2.208	3.082	10.9	20.5

392108 2009 EY_{19} 3 19.2 348°.38 2°.0/16.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 13.36	+ 1 34.2	1.860	2.683	14.0	20.1
2 21	12 10.93	+ 2 39.9	1.776	2.678	10.7	19.9
3 2	12 6.45	+ 3 59.9	1.716	2.673	6.9	19.6
3 12	12 0.48	+ 5 27.6	1.681	2.669	3.0	19.4
3 22	11 53.79	+ 6 55.1	1.675	2.665	3.0	19.4
4 1	11 47.31	+ 8 14.1	1.696	2.662	6.9	19.6
4 11	11 41.95	+ 9 17.6	1.743	2.660	10.8	19.8
4 21	11 38.34	+10 1.7	1.813	2.658	14.2	20.0

321308 2009 HZ_{16} 3 19.2 77°.99 1°.3/17.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.61	+ 1 34.6	2.293	3.099	12.3	20.8
2 21	12 12.92	+ 2 17.7	2.215	3.106	9.3	20.6
3 2	12 7.48	+ 3 10.6	2.161	3.114	6.0	20.4
3 12	12 0.84	+ 4 8.8	2.135	3.122	2.5	20.2
3 22	11 53.68	+ 5 6.7	2.138	3.130	2.1	20.2
4 1	11 46.76	+ 5 58.9	2.170	3.138	5.5	20.4
4 11	11 40.83	+ 6 40.7	2.230	3.146	8.8	20.6
4 21	11 36.40	+ 7 9.3	2.313	3.154	11.7	20.8

140960 2001 VL_{105} 3 19.2 112°.62 1°.0/20.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.99	− 4 45.0	2.419	3.197	12.5	20.3
2 21	12 13.93	− 4 32.8	2.332	3.203	9.8	20.1
3 2	12 8.13	− 4 8.1	2.268	3.208	6.7	19.9
3 12	12 1.12	− 3 33.5	2.231	3.213	3.2	19.7
3 22	11 53.57	− 2 52.6	2.224	3.219	1.2	19.5
4 1	11 46.22	− 2 10.0	2.246	3.224	4.3	19.8
4 11	11 39.80	− 1 30.5	2.296	3.229	7.7	20.0
4 21	11 34.86	− 0 58.0	2.371	3.234	10.7	20.2

90638 4048 T-2 3 19.2 109°.94 1°.1/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.72	+ 2 1.2	2.472	3.271	11.7	20.6
2 21	12 14.36	+ 2 30.5	2.395	3.282	8.9	20.4
3 2	12 8.35	+ 3 7.9	2.342	3.293	5.7	20.2
3 12	12 1.19	+ 3 49.6	2.318	3.305	2.4	20.0
3 22	11 53.55	+ 4 31.1	2.323	3.315	1.8	20.0
4 1	11 46.18	+ 5 7.8	2.358	3.326	5.0	20.2
4 11	11 39.76	+ 5 36.0	2.420	3.337	8.2	20.4
4 21	11 34.80	+ 5 53.3	2.508	3.347	11.0	20.6

472804 2015 FR_{160} 3 19.2 254°.87 3°.5/15.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.97	+10 7.6	2.408	3.223	11.4	21.0
2 21	12 15.53	+10 45.9	2.317	3.213	8.8	20.8
3 2	12 9.24	+11 27.7	2.252	3.203	5.9	20.6
3 12	12 1.62	+12 7.9	2.214	3.193	3.7	20.4
3 22	11 53.37	+12 41.3	2.206	3.183	4.2	20.4
4 1	11 45.29	+13 3.4	2.226	3.172	6.9	20.6
4 11	11 38.18	+13 11.2	2.273	3.161	9.9	20.7
4 21	11 32.61	+13 3.7	2.344	3.151	12.7	20.9

19914 Klagenfurt 3 19.2 67°.38 1°.7/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.87	+ 1 57.7	1.454	2.276	17.3	18.0
2 21	12 18.57	+ 2 30.6	1.394	2.293	13.2	17.8
3 2	12 11.54	+ 3 16.5	1.355	2.310	8.5	17.6
3 12	12 2.64	+ 4 9.1	1.340	2.328	3.6	17.3
3 22	11 53.02	+ 5 0.5	1.353	2.346	2.7	17.3
4 1	11 43.97	+ 5 42.9	1.392	2.363	7.4	17.6
4 11	11 36.64	+ 6 10.5	1.456	2.381	11.9	17.9
4 21	11 31.74	+ 6 20.7	1.541	2.398	15.7	18.2

372526 2009 SN_{344} 3 19.2 95°.94 0°.4/18.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 19.08	− 1 25.7	1.876	2.680	14.7	22.0
2 21	12 15.21	− 0 49.6	1.799	2.687	11.3	21.8
3 2	12 9.18	+ 0 0.7	1.744	2.695	7.4	21.6
3 12	12 1.62	+ 1 0.6	1.716	2.703	3.1	21.3
3 22	11 53.38	+ 2 3.8	1.715	2.710	1.5	21.2
4 1	11 45.46	+ 3 3.2	1.743	2.718	5.8	21.5
4 11	11 38.78	+ 3 52.7	1.798	2.725	9.9	21.8
4 21	11 33.97	+ 4 28.1	1.876	2.732	13.3	22.0

372453 2009 SD_{125} 3 19.3 191°.84 1°.4/20.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.90	− 5 55.7	2.232	3.004	13.6	21.8
2 21	12 16.39	− 5 44.3	2.136	3.003	10.8	21.6
3 2	12 9.88	− 5 18.5	2.064	3.001	7.4	21.4
3 12	12 1.93	− 4 40.4	2.018	2.999	3.8	21.2
3 22	11 53.26	− 3 53.9	2.002	2.996	1.5	21.0
4 1	11 44.77	− 3 4.1	2.015	2.993	4.8	21.2
4 11	11 37.31	− 2 16.8	2.056	2.989	8.4	21.4
4 21	11 31.51	− 1 36.7	2.122	2.985	11.7	21.6

306311 2011 SM_{79} 3 19.3 308°.55 0°.3/19.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.64	− 2 17.9	2.266	3.058	12.8	20.8
2 21	12 13.84	− 2 3.6	2.173	3.054	10.0	20.6
3 2	12 8.19	− 1 37.5	2.103	3.049	6.7	20.3
3 12	12 1.19	− 1 2.6	2.060	3.045	3.0	20.1
3 22	11 53.55	− 0 22.9	2.045	3.041	1.0	19.9
4 1	11 46.07	+ 0 16.7	2.060	3.037	4.8	20.2
4 11	11 39.55	+ 0 51.2	2.102	3.033	8.4	20.4
4 21	11 34.59	+ 1 16.9	2.169	3.029	11.6	20.6

496070 2009 RH_{28} 3 19.3 216°.49 0°.3/19.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.15	− 4 48.3	2.590	3.362	12.0	23.0
2 21	12 14.83	− 3 59.9	2.482	3.351	9.4	22.8
3 2	12 8.77	− 2 57.0	2.398	3.340	6.3	22.6
3 12	12 1.44	− 1 42.8	2.343	3.327	2.8	22.4
3 22	11 53.45	− 0 22.1	2.318	3.314	0.9	22.2
4 1	11 45.56	+ 0 59.1	2.325	3.299	4.5	22.4
4 11	11 38.49	+ 2 14.7	2.361	3.284	8.0	22.6
4 21	11 32.82	+ 3 19.9	2.423	3.268	11.1	22.8

463145 2011 YR_{37} 3 19.3 95°.33 3°.5/15.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.70	+ 5 21.5	1.636	2.462	15.5	21.8
2 21	12 16.70	+ 6 30.7	1.571	2.474	11.7	21.6
3 2	12 10.25	+ 7 50.3	1.530	2.487	7.6	21.3
3 12	12 2.09	+ 9 12.2	1.515	2.499	4.0	21.2
3 22	11 53.24	+10 27.2	1.527	2.511	4.5	21.2
4 1	11 44.83	+11 27.1	1.566	2.523	8.3	21.5
4 11	11 37.92	+12 6.7	1.631	2.535	12.2	21.7
4 21	11 33.16	+12 24.3	1.717	2.546	15.6	22.0

396795 2004 NJ_{8} 3 19.3 204°.01 10°.7/31.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.98	−33 38.9	2.399	2.979	17.2	21.4
2 21	12 21.60	−34 45.3	2.291	2.973	15.8	21.2
3 2	12 13.66	−35 27.5	2.198	2.966	14.1	21.1
3 12	12 3.70	−35 40.4	2.125	2.958	12.4	20.9
3 22	11 52.56	−35 20.9	2.075	2.948	11.1	20.8
4 1	11 41.40	−34 29.4	2.050	2.938	10.7	20.8
4 11	11 31.38	−33 10.9	2.049	2.927	11.4	20.8
4 21	11 23.43	−31 34.0	2.073	2.914	12.9	20.9

1589 Fanatica 3 19.3 150°.26 3°.2/16.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.99	+ 5 49.2	1.783	2.603	14.7	16.1
2 21	12 17.58	+ 6 44.4	1.709	2.608	11.2	15.8
3 2	12 10.81	+ 7 48.9	1.658	2.613	7.3	15.6
3 12	12 2.34	+ 8 55.5	1.633	2.617	3.8	15.4
3 22	11 53.13	+ 9 56.7	1.637	2.622	4.2	15.4
4 1	11 44.28	+10 45.0	1.668	2.625	7.8	15.7
4 11	11 36.79	+11 15.8	1.725	2.629	11.7	15.9
4 21	11 31.37	+11 27.0	1.804	2.632	15.0	16.1

419012 2009 PY_{17} 3 19.3 134°.10 0°.1/19.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.22	− 1 34.0	2.020	2.814	14.1	22.6
2 21	12 16.71	− 1 11.1	1.939	2.822	10.9	22.4
3 2	12 10.10	− 0 35.4	1.882	2.830	7.2	22.2
3 12	12 2.01	+ 0 9.2	1.851	2.837	3.1	21.9
3 22	11 53.26	+ 0 57.6	1.849	2.844	1.2	21.8
4 1	11 44.81	+ 1 43.8	1.876	2.851	5.4	22.1
4 11	11 37.54	+ 2 22.5	1.930	2.857	9.3	22.3
4 21	11 32.10	+ 2 49.8	2.009	2.863	12.6	22.5

298817 2004 RP_{63} 3 19.3 192°.85 0°.4/18.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.62	− 1 50.2	1.987	2.778	14.4	22.2
2 21	12 17.95	− 1 9.6	1.895	2.777	11.2	22.0
3 2	12 11.03	− 0 14.1	1.826	2.774	7.4	21.8
3 12	12 2.46	+ 0 51.9	1.785	2.771	3.1	21.5
3 22	11 53.09	+ 2 2.3	1.772	2.767	1.5	21.3
4 1	11 43.91	+ 3 9.8	1.789	2.761	5.9	21.6
4 11	11 35.92	+ 4 7.8	1.833	2.756	10.0	21.9
4 21	11 29.83	+ 4 51.7	1.901	2.749	13.6	22.1

463698 2014 PU_{23} 3 19.3 144°.30 2°.3/16.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 21.47	+ 3 10.5	2.057	2.863	13.5	22.4
2 21	12 16.83	+ 4 19.3	1.983	2.876	10.2	22.2
3 2	12 10.13	+ 5 38.8	1.934	2.887	6.6	22.0
3 12	12 2.01	+ 7 2.6	1.913	2.898	3.1	21.8
3 22	11 53.29	+ 8 23.1	1.921	2.908	3.2	21.9
4 1	11 44.89	+ 9 33.2	1.959	2.918	6.7	22.1
4 11	11 37.69	+10 27.6	2.024	2.926	10.3	22.3
4 21	11 32.29	+11 3.7	2.112	2.934	13.3	22.5

183157 2002 SL_{7} 3 19.3 155°.51 1°.3/18.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.57	+ 1 42.4	2.026	2.827	13.8	21.1
2 21	12 17.75	+ 2 15.7	1.945	2.833	10.6	20.9
3 2	12 10.79	+ 2 59.7	1.888	2.840	6.9	20.7
3 12	12 2.31	+ 3 49.6	1.858	2.845	2.9	20.4
3 22	11 53.17	+ 4 39.5	1.857	2.850	2.1	20.4
4 1	11 44.32	+ 5 23.5	1.886	2.855	6.0	20.6
4 11	11 36.69	+ 5 56.7	1.941	2.859	9.8	20.9
4 21	11 30.91	+ 6 16.1	2.021	2.862	13.1	21.1

519512 2012 FR_{85} 3 19.3 326°.19 2°.7/16.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.60	+ 3 57.5	1.591	2.420	15.7	21.4
2 21	12 15.37	+ 4 42.5	1.509	2.413	12.0	21.1
3 2	12 9.59	+ 5 39.9	1.450	2.407	7.8	20.9
3 12	12 1.91	+ 6 42.9	1.415	2.402	3.6	20.6
3 22	11 53.30	+ 7 43.4	1.407	2.396	3.7	20.6
4 1	11 44.96	+ 8 33.3	1.425	2.391	8.0	20.8
4 11	11 38.02	+ 9 6.2	1.468	2.386	12.3	21.1
4 21	11 33.27	+ 9 19.2	1.532	2.382	16.2	21.3

500295 2012 QW_{7} 3 19.3 237°.13 3°.0/22.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.55	−11 12.3	2.426	3.171	13.4	22.1
2 21	12 15.34	−11 11.9	2.315	3.158	11.0	21.9
3 2	12 9.23	−10 55.3	2.226	3.144	8.1	21.7
3 12	12 1.69	−10 22.9	2.163	3.130	5.0	21.5
3 22	11 53.39	− 9 37.4	2.128	3.116	3.0	21.3
4 1	11 45.13	− 8 43.0	2.124	3.100	4.7	21.4
4 11	11 37.76	− 7 45.4	2.147	3.085	7.9	21.6
4 21	11 31.91	− 6 50.3	2.197	3.069	11.0	21.7

517648 2015 BA_{543} 3 19.3 355°.83 1°.7/20.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.65	− 3 57.8	1.654	2.454	16.5	20.9
2 21	12 16.87	− 4 17.5	1.569	2.451	13.1	20.7
3 2	12 10.55	− 4 22.8	1.505	2.449	9.0	20.4
3 12	12 2.32	− 4 15.2	1.465	2.448	4.5	20.2
3 22	11 53.16	− 3 58.4	1.452	2.447	1.9	20.0
4 1	11 44.23	− 3 37.3	1.466	2.446	5.9	20.2
4 11	11 36.69	− 3 17.9	1.505	2.447	10.3	20.5
4 21	11 31.34	− 3 5.1	1.568	2.448	14.2	20.7

245634 2005 XD_{87} 3 19.3 36°.90 1°.2/20.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.78	− 3 21.6	1.302	2.117	19.3	20.7
2 21	12 19.05	− 3 27.2	1.230	2.121	15.2	20.4
3 2	12 12.22	− 3 14.0	1.177	2.126	10.3	20.2
3 12	12 3.09	− 2 45.4	1.147	2.132	4.8	19.9
3 22	11 52.88	− 2 7.1	1.142	2.138	1.6	19.6
4 1	11 43.10	− 1 26.9	1.163	2.144	7.0	20.0
4 11	11 35.16	− 0 52.9	1.208	2.150	12.1	20.3
4 21	11 29.94	− 0 31.2	1.274	2.157	16.6	20.6

88571 2001 QT_{246} 3 19.3 114°.47 0°.8/19.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.57	− 5 6.7	1.622	2.416	17.0	20.0
2 21	12 18.19	− 4 33.6	1.551	2.431	13.3	19.8
3 2	12 11.27	− 3 41.0	1.500	2.445	8.9	19.5
3 12	12 2.56	− 2 33.4	1.475	2.459	4.1	19.3
3 22	11 53.10	− 1 17.9	1.478	2.473	1.3	19.1
4 1	11 44.08	− 0 3.1	1.508	2.486	6.0	19.4
4 11	11 36.58	+ 1 2.8	1.565	2.499	10.5	19.7
4 21	11 31.33	+ 1 53.9	1.645	2.511	14.4	20.0

193786 2001 OP_{48} 3 19.3 250°.08 5°.1/23.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.63	−12 24.6	1.562	2.328	18.8	20.6
2 21	12 18.81	−12 52.2	1.466	2.320	15.6	20.3
3 2	12 12.09	−12 57.1	1.390	2.311	11.7	20.0
3 12	12 3.10	−12 38.0	1.336	2.302	7.7	19.8
3 22	11 52.83	−11 56.7	1.308	2.292	5.1	19.6
4 1	11 42.66	−10 58.8	1.305	2.282	7.0	19.7
4 11	11 33.94	− 9 53.4	1.329	2.273	11.1	19.9
4 21	11 27.68	− 8 49.9	1.374	2.262	15.3	20.1

203408 2001 XR_{179} 3 19.3 88°.32 1°.0/20.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.92	− 5 4.5	1.533	2.328	17.8	20.5
2 21	12 19.24	− 4 39.3	1.471	2.352	13.9	20.3
3 2	12 11.93	− 3 54.7	1.430	2.375	9.3	20.1
3 12	12 2.81	− 2 55.3	1.414	2.398	4.3	19.8
3 22	11 53.02	− 1 48.1	1.425	2.420	1.4	19.7
4 1	11 43.81	− 0 41.6	1.463	2.442	6.1	20.0
4 11	11 36.27	+ 0 16.3	1.528	2.464	10.6	20.3
4 21	11 31.09	+ 1 0.1	1.615	2.485	14.5	20.6

248427 2005 SW_{260} 3 19.3 223°.44 2°.3/16.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 21.45	+ 8 1.0	2.845	3.646	10.3	20.9
2 21	12 16.35	+ 8 19.8	2.750	3.638	7.9	20.8
3 2	12 9.64	+ 8 42.0	2.680	3.631	5.2	20.6
3 12	12 1.79	+ 9 3.8	2.640	3.622	2.7	20.4
3 22	11 53.40	+ 9 21.7	2.629	3.614	2.9	20.4
4 1	11 45.16	+ 9 32.2	2.650	3.605	5.4	20.5
4 11	11 37.76	+ 9 33.1	2.699	3.596	8.2	20.7
4 21	11 31.69	+ 9 23.0	2.773	3.587	10.7	20.9

310344 2011 UP_{239} 3 19.3 107°.67 0°.3/19.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.57	− 3 5.1	1.709	2.504	16.2	21.9
2 21	12 18.79	− 2 38.4	1.640	2.522	12.6	21.7
3 2	12 11.57	− 1 55.7	1.593	2.539	8.3	21.5
3 12	12 2.67	− 1 1.3	1.571	2.556	3.7	21.3
3 22	11 53.08	− 0 1.6	1.578	2.573	1.2	21.1
4 1	11 43.95	+ 0 56.0	1.612	2.589	5.9	21.5
4 11	11 36.32	+ 1 44.7	1.674	2.605	10.2	21.8
4 21	11 30.84	+ 2 20.0	1.759	2.620	13.9	22.0

327328 2005 UH_{100} 3 19.3 275°.19 1°.3/20.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.06	− 6 54.3	1.859	2.646	15.4	20.8
2 21	12 13.95	− 6 21.3	1.758	2.633	12.3	20.6
3 2	12 8.58	− 5 28.0	1.678	2.620	8.5	20.3
3 12	12 1.49	− 4 17.2	1.624	2.606	4.2	20.0
3 22	11 53.48	− 2 54.5	1.597	2.592	1.5	19.8
4 1	11 45.58	− 1 27.9	1.599	2.579	5.5	20.0
4 11	11 38.81	− 0 6.0	1.627	2.565	9.9	20.2
4 21	11 33.92	+ 1 4.0	1.679	2.551	13.9	20.5

56942 2000 RL_{75} 3 19.3 151°.84 2°.9/22.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.25	−11 10.5	2.674	3.416	12.4	19.2
2 21	12 14.04	−11 15.5	2.580	3.421	10.0	19.1
3 2	12 8.19	−11 6.1	2.508	3.424	7.4	18.9
3 12	12 1.18	−10 43.3	2.462	3.428	4.6	18.7
3 22	11 53.63	−10 9.5	2.446	3.431	2.9	18.6
4 1	11 46.24	− 9 28.2	2.459	3.435	4.2	18.7
4 11	11 39.69	− 8 44.2	2.501	3.438	6.9	18.9
4 21	11 34.51	− 8 1.9	2.568	3.441	9.6	19.1

202281 2005 BF_{26} 3 19.3 244°.47 0°.4/19.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.23	− 2 13.7	2.133	2.924	13.6	20.4
2 21	12 15.97	− 2 6.4	2.041	2.920	10.6	20.1
3 2	12 9.66	− 1 47.3	1.972	2.917	7.1	19.9
3 12	12 1.87	− 1 19.0	1.929	2.914	3.2	19.7
3 22	11 53.36	− 0 45.6	1.915	2.910	1.1	19.5
4 1	11 45.04	− 0 12.0	1.930	2.907	5.1	19.8
4 11	11 37.77	+ 0 16.8	1.972	2.903	8.9	20.0
4 21	11 32.23	+ 0 37.1	2.039	2.900	12.3	20.2

437067 2012 UJ_{50} 3 19.3 106°.09 4°.4/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.99	+13 24.9	2.399	3.219	11.4	21.2
2 21	12 15.42	+14 14.2	2.331	3.228	8.7	21.1
3 2	12 9.08	+15 4.4	2.289	3.236	6.1	20.9
3 12	12 1.54	+15 49.5	2.275	3.245	4.5	20.8
3 22	11 53.53	+16 24.4	2.289	3.254	5.2	20.9
4 1	11 45.82	+16 44.9	2.331	3.262	7.6	21.0
4 11	11 39.16	+16 48.9	2.400	3.271	10.2	21.2
4 21	11 34.06	+16 36.5	2.491	3.279	12.5	21.4

403293 2009 BQ_{104} 3 19.3 86°.22 0°.7/18.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.26	− 1 20.9	1.516	2.328	17.2	21.8
2 21	12 18.05	− 0 42.0	1.452	2.345	13.2	21.6
3 2	12 11.21	+ 0 13.5	1.410	2.362	8.6	21.4
3 12	12 2.54	+ 1 19.8	1.392	2.379	3.6	21.1
3 22	11 53.15	+ 2 28.8	1.401	2.396	1.8	21.1
4 1	11 44.28	+ 3 31.8	1.437	2.412	6.8	21.4
4 11	11 37.03	+ 4 21.7	1.499	2.428	11.3	21.7
4 21	11 32.11	+ 4 54.3	1.583	2.444	15.1	22.0

283077 2008 SW_{175} 3 19.3 203°.12 3°.0/22.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.84	−10 39.0	1.886	2.645	16.2	22.0
2 21	12 18.38	−10 28.4	1.787	2.641	13.2	21.7
3 2	12 11.48	− 9 56.7	1.710	2.636	9.5	21.5
3 12	12 2.74	− 9 5.1	1.657	2.630	5.6	21.2
3 22	11 53.04	− 7 57.4	1.632	2.623	3.0	21.1
4 1	11 43.48	− 6 40.3	1.636	2.615	5.6	21.2
4 11	11 35.16	− 5 22.5	1.667	2.606	9.7	21.4
4 21	11 28.88	− 4 11.5	1.723	2.597	13.5	21.6

519660 2012 WQ_{36} 3 19.3 190°.13 0°.5/18.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.58	− 0 19.1	2.819	3.606	10.7	22.5
2 21	12 13.41	+ 0 13.8	2.725	3.605	8.2	22.3
3 2	12 7.73	+ 0 55.9	2.655	3.603	5.4	22.1
3 12	12 0.98	+ 1 43.9	2.615	3.601	2.2	21.9
3 22	11 53.73	+ 2 33.8	2.604	3.599	1.2	21.8
4 1	11 46.63	+ 3 21.4	2.624	3.596	4.4	22.1
4 11	11 40.31	+ 4 2.4	2.673	3.592	7.4	22.2
4 21	11 35.24	+ 4 34.1	2.748	3.588	10.1	22.4

29921 1999 JE_{26} 3 19.3 8°.15 5°.4/25.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 15.21	−17 44.3	1.694	2.440	18.3	18.3
2 21	12 12.71	−17 34.1	1.605	2.440	15.4	18.1
3 2	12 7.83	−16 54.9	1.535	2.441	11.9	17.9
3 12	12 1.17	−15 46.4	1.487	2.442	8.3	17.7
3 22	11 53.65	−14 12.6	1.464	2.443	5.6	17.5
4 1	11 46.37	−12 21.4	1.469	2.445	6.4	17.6
4 11	11 40.40	−10 24.0	1.499	2.447	9.7	17.8
4 21	11 36.50	− 8 31.5	1.554	2.450	13.4	18.0

270858 2002 TZ_{69} 3 19.3 108°.41 6°.9/13.4 18

2 11	12 28.41	+18 25.3	1.859	2.678	14.2	21.1
2 21	12 22.28	+19 19.5	1.804	2.694	11.2	20.9
3 2	12 13.72	+20 9.8	1.773	2.711	8.4	20.8
3 12	12 3.54	+20 48.0	1.769	2.726	6.9	20.7
3 22	11 52.81	+21 7.2	1.792	2.742	7.8	20.8
4 1	11 42.71	+21 3.9	1.842	2.757	10.3	21.0
4 11	11 34.22	+20 37.7	1.917	2.771	13.1	21.2
4 21	11 27.98	+19 51.2	2.013	2.785	15.6	21.4

94486 2001 UV_{11} 3 19.3 226°.83 2°.9/16.5 18

2 11	12 23.39	+ 4 57.8	1.871	2.683	14.4	20.4
2 21	12 18.80	+ 5 52.4	1.776	2.672	11.1	20.2
3 2	12 11.76	+ 6 58.1	1.705	2.659	7.2	19.9
3 12	12 2.87	+ 8 8.4	1.661	2.646	3.6	19.7
3 22	11 53.01	+ 9 15.6	1.646	2.632	3.9	19.6
4 1	11 43.29	+10 12.0	1.659	2.617	7.8	19.8
4 11	11 34.80	+10 51.6	1.698	2.601	11.8	20.0
4 21	11 28.36	+11 11.7	1.759	2.585	15.4	20.2

363237 2001 YX 3 19.3 177°.67 9°.7/ 2.4 15

2 11	12 26.10	−37 48.3	3.018	3.539	14.7	22.4
2 21	12 20.43	−38 50.5	2.915	3.542	13.7	22.3
3 2	12 12.62	−39 31.1	2.828	3.544	12.4	22.1
3 12	12 3.19	−39 46.3	2.761	3.546	11.2	22.0
3 22	11 52.89	−39 33.9	2.716	3.546	10.2	22.0
4 1	11 42.63	−38 54.4	2.696	3.546	9.7	21.9
4 11	11 33.37	−37 51.7	2.700	3.544	10.0	22.0
4 21	11 25.81	−36 31.9	2.728	3.542	10.9	22.0

363736 2004 XH_{66} 3 19.3 43°.63 0°.7/18.8 16

2 11	12 21.19	− 0 19.7	1.300	2.127	18.7	21.5
2 21	12 17.68	+ 0 2.1	1.237	2.138	14.4	21.2
3 2	12 11.21	+ 0 40.7	1.193	2.149	9.4	21.0
3 12	12 2.63	+ 1 30.4	1.173	2.161	3.9	20.7
3 22	11 53.16	+ 2 23.2	1.178	2.173	2.0	20.6
4 1	11 44.22	+ 3 10.2	1.209	2.186	7.4	20.9
4 11	11 37.11	+ 3 44.1	1.264	2.199	12.4	21.3
4 21	11 32.60	+ 4 0.9	1.339	2.213	16.6	21.5

59575 1999 JB_{51} 3 19.3 213°.93 3°.1/22.9 18 R

2 11	12 18.09	−12 42.6	2.257	3.002	14.3	19.4
2 21	12 14.32	−12 22.9	2.154	2.997	11.7	19.2
3 2	12 8.60	−11 43.3	2.073	2.991	8.6	19.0
3 12	12 1.45	−10 45.0	2.017	2.984	5.3	18.7
3 22	11 53.58	− 9 31.6	1.990	2.977	3.1	18.6
4 1	11 45.83	− 8 8.8	1.991	2.970	4.8	18.7
4 11	11 39.06	− 6 44.2	2.022	2.962	8.1	18.9
4 21	11 33.90	− 5 24.5	2.078	2.954	11.4	19.0

328826 2009 WU_{2} 3 19.3 270°.37 1°.6/17.7 17

2 11	12 19.06	+ 1 56.7	1.858	2.672	14.4	21.0
2 21	12 15.41	+ 2 37.1	1.768	2.663	11.1	20.8
3 2	12 9.49	+ 3 30.0	1.700	2.655	7.2	20.5
3 12	12 1.87	+ 4 30.1	1.659	2.646	3.1	20.2
3 22	11 53.42	+ 5 30.8	1.645	2.637	2.6	20.2
4 1	11 45.14	+ 6 24.8	1.660	2.628	6.7	20.4
4 11	11 38.05	+ 7 6.1	1.700	2.620	10.8	20.6
4 21	11 32.87	+ 7 30.9	1.763	2.611	14.5	20.8

208990 2003 AO_{54} 3 19.3 14°.26 5°.6/24.2 17

2 11	12 19.44	−14 30.6	1.899	2.645	16.6	19.7
2 21	12 15.71	−15 16.7	1.813	2.649	13.9	19.5
3 2	12 9.68	−15 43.5	1.747	2.653	10.7	19.3
3 12	12 1.96	−15 49.6	1.705	2.657	7.6	19.1
3 22	11 53.40	−15 36.0	1.689	2.663	5.7	19.0
4 1	11 45.04	−15 6.4	1.699	2.669	6.5	19.1
4 11	11 37.90	−14 26.9	1.735	2.675	9.3	19.3
4 21	11 32.72	−13 44.5	1.796	2.682	12.4	19.5

505302 2012 XU_{21} 3 19.3 7°.79 5°.1/13.5 17

2 11	12 18.83	+14 26.8	2.226	3.052	11.9	21.4
2 21	12 14.76	+15 22.9	2.154	3.053	9.2	21.2
3 2	12 8.79	+16 19.7	2.106	3.053	6.6	21.0
3 12	12 1.48	+17 10.7	2.086	3.053	5.1	20.9
3 22	11 53.60	+17 49.8	2.093	3.054	6.0	21.0
4 1	11 46.00	+18 12.3	2.128	3.055	8.4	21.1
4 11	11 39.48	+18 15.9	2.188	3.055	11.1	21.3
4 21	11 34.62	+18 0.8	2.270	3.056	13.7	21.5

293435 2007 EN_{152} 3 19.3 195°.53 1°.9/17.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 20.03	+ 3 30.3	2.315	3.119	12.2	21.8
2 21	12 15.64	+ 4 16.8	2.226	3.117	9.3	21.6
3 2	12 9.37	+ 5 12.4	2.161	3.114	6.0	21.4
3 12	12 1.75	+ 6 12.1	2.125	3.110	2.7	21.2
3 22	11 53.49	+ 7 10.4	2.117	3.107	2.7	21.2
4 1	11 45.42	+ 8 1.5	2.140	3.102	6.0	21.4
4 11	11 38.34	+ 8 40.8	2.190	3.097	9.4	21.6
4 21	11 32.84	+ 9 5.6	2.264	3.092	12.4	21.8

240578 2004 TC_{102} 3 19.3 245°.64 1°.5/20.7 17

2 11	12 21.05	− 6 59.9	1.793	2.576	16.1	21.2
2 21	12 17.21	− 6 34.8	1.688	2.560	12.9	20.9
3 2	12 10.86	− 5 49.0	1.604	2.543	9.0	20.7
3 12	12 2.55	− 4 44.9	1.545	2.526	4.5	20.4
3 22	11 53.15	− 3 27.6	1.514	2.509	1.7	20.1
4 1	11 43.79	− 2 5.0	1.511	2.490	5.9	20.3
4 11	11 35.62	− 0 46.1	1.535	2.471	10.5	20.6
4 21	11 29.53	+ 0 21.5	1.582	2.451	14.7	20.8

10151 Rubens 3 19.3 172°.10 1°.4/20.5 18

2 11	12 25.44	− 5 15.2	1.911	2.687	15.5	18.6
2 21	12 20.21	− 5 9.6	1.822	2.691	12.2	18.4
3 2	12 12.58	− 4 48.2	1.756	2.694	8.4	18.2
3 12	12 3.19	− 4 13.6	1.716	2.697	4.2	17.9
3 22	11 52.96	− 3 29.9	1.704	2.699	1.6	17.7
4 1	11 42.98	− 2 43.1	1.722	2.700	5.4	18.0
4 11	11 34.31	− 1 59.6	1.767	2.700	9.6	18.2
4 21	11 27.69	− 1 24.5	1.837	2.699	13.3	18.4

194672 2001 XA_{194} 3 19.3 105°.71 1°.4/20.5 18

2 11	12 23.17	− 5 50.6	1.613	2.403	17.3	20.6
2 21	12 18.69	− 5 32.3	1.542	2.419	13.6	20.3
3 2	12 11.64	− 4 54.6	1.492	2.434	9.3	20.1
3 12	12 2.78	− 4 1.3	1.466	2.449	4.5	19.9
3 22	11 53.14	− 2 58.4	1.468	2.463	1.6	19.7
4 1	11 43.96	− 1 53.8	1.498	2.477	5.9	20.0
4 11	11 36.32	− 0 55.6	1.554	2.491	10.4	20.3
4 21	11 30.96	− 0 9.6	1.633	2.504	14.2	20.6

425145 2009 SC_{285} 3 19.3 106°.28 0°.1/19.2 18

2 11	12 24.14	− 0 26.2	1.986	2.779	14.4	21.9
2 21	12 18.94	− 0 19.5	1.912	2.794	11.1	21.7
3 2	12 11.57	− 0 2.0	1.860	2.807	7.3	21.5
3 12	12 2.69	+ 0 23.0	1.835	2.821	3.1	21.3
3 22	11 53.19	+ 0 51.0	1.839	2.834	1.2	21.2
4 1	11 44.05	+ 1 17.1	1.872	2.847	5.4	21.5
4 11	11 36.21	+ 1 36.6	1.933	2.860	9.3	21.7
4 21	11 30.29	+ 1 46.7	2.018	2.872	12.6	22.0

72611 2001 FO_{18} 3 19.3 336°.09 1°.7/21.0 18

2 11	12 17.18	− 7 3.0	1.946	2.730	14.9	19.2
2 21	12 13.85	− 6 46.8	1.855	2.727	11.9	18.9
3 2	12 8.40	− 6 12.9	1.786	2.725	8.3	18.7
3 12	12 1.40	− 5 23.8	1.743	2.723	4.3	18.5
3 22	11 53.65	− 4 24.2	1.727	2.721	1.8	18.3
4 1	11 46.09	− 3 20.4	1.739	2.719	5.1	18.5
4 11	11 39.65	− 2 19.6	1.778	2.718	9.1	18.7
4 21	11 35.00	− 1 27.6	1.841	2.716	12.7	18.9

232783 2004 QF_{3} 3 19.3 187°.15 2°.5/16.2 17

2 11	12 20.38	+ 6 19.4	2.537	3.342	11.2	21.8
2 21	12 15.72	+ 7 11.0	2.450	3.341	8.6	21.7
3 2	12 9.34	+ 8 9.0	2.388	3.340	5.6	21.5
3 12	12 1.72	+ 9 8.5	2.355	3.338	3.0	21.3
3 22	11 53.54	+10 4.0	2.353	3.336	3.3	21.3
4 1	11 45.55	+10 50.4	2.380	3.333	6.1	21.5
4 11	11 38.48	+11 24.1	2.435	3.329	9.1	21.7
4 21	11 32.87	+11 43.0	2.514	3.325	11.8	21.8

278360 2007 JU_{40} 3 19.3 278°.00 1°.1/20.4 17

2 11	12 16.81	− 6 32.0	2.037	2.821	14.4	20.7
2 21	12 13.64	− 5 55.1	1.926	2.800	11.4	20.5
3 2	12 8.35	− 4 59.1	1.838	2.779	7.9	20.2
3 12	12 1.45	− 3 46.7	1.775	2.758	3.9	19.9
3 22	11 53.64	− 2 23.1	1.741	2.736	1.3	19.7
4 1	11 45.87	− 0 55.6	1.736	2.715	5.3	19.9
4 11	11 39.07	+ 0 27.5	1.758	2.693	9.5	20.1
4 21	11 34.00	+ 1 39.5	1.804	2.671	13.3	20.3

490551 2009 VC_{89} 3 19.3 79°.01 2°.7/16.9 18

2 11	12 23.76	+ 6 18.2	1.893	2.706	14.2	21.5
2 21	12 18.63	+ 6 51.0	1.833	2.729	10.8	21.3
3 2	12 11.31	+ 7 30.2	1.798	2.751	7.0	21.1
3 12	12 2.56	+ 8 9.8	1.789	2.773	3.4	20.9
3 22	11 53.30	+ 8 44.1	1.808	2.795	3.5	21.0
4 1	11 44.54	+ 9 7.7	1.857	2.817	6.9	21.2
4 11	11 37.18	+ 9 17.6	1.931	2.839	10.4	21.5
4 21	11 31.79	+ 9 12.6	2.029	2.860	13.5	21.7

90316 2003 FZ_{38} 3 19.3 292°.25 0°.3/18.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 14.88	− 2 20.1	2.314	3.111	12.5	19.5
2 21	12 11.83	− 1 33.7	2.207	3.092	9.7	19.3
3 2	12 6.99	− 0 33.0	2.124	3.073	6.4	19.1
3 12	12 0.80	+ 0 38.4	2.067	3.054	2.7	18.8
3 22	11 53.91	+ 1 54.9	2.040	3.035	1.3	18.6
4 1	11 47.08	+ 3 10.2	2.042	3.016	5.2	18.9
4 11	11 41.10	+ 4 17.8	2.072	2.998	8.9	19.1
4 21	11 36.58	+ 5 13.0	2.127	2.979	12.1	19.2

89733 2001 YD_{149} 3 19.3 204°.86 8°.2/ 6.7 18

2 11	12 22.22	+30 46.9	2.801	3.599	10.5	19.8
2 21	12 17.14	+32 2.3	2.742	3.595	9.1	19.7
3 2	12 10.25	+33 8.5	2.709	3.591	8.3	19.6
3 12	12 2.11	+33 58.6	2.702	3.586	8.3	19.6
3 22	11 53.45	+34 27.9	2.720	3.581	9.2	19.7
4 1	11 45.07	+34 33.5	2.764	3.576	10.6	19.7
4 11	11 37.75	+34 15.5	2.830	3.570	12.2	19.9
4 21	11 32.01	+33 36.1	2.914	3.564	13.7	20.0

274214 2008 JY_{6} 3 19.3 232°.62 2°.7/16.7 17

2 11	12 20.08	+ 4 46.6	1.890	2.708	14.0	21.6
2 21	12 16.12	+ 5 35.0	1.806	2.704	10.7	21.4
3 2	12 9.92	+ 6 33.3	1.744	2.699	7.0	21.2
3 12	12 2.08	+ 7 35.5	1.709	2.694	3.4	20.9
3 22	11 53.45	+ 8 34.6	1.702	2.689	3.6	20.9
4 1	11 45.04	+ 9 23.5	1.723	2.684	7.3	21.2
4 11	11 37.84	+ 9 57.0	1.770	2.679	11.1	21.4
4 21	11 32.56	+10 12.6	1.840	2.674	14.5	21.6

372552 2009 TC_{38} 3 19.3 187°.17 0°.9/20.3 17

2 11	12 21.31	− 4 41.2	2.509	3.278	12.4	21.9
2 21	12 16.50	− 4 24.2	2.412	3.278	9.7	21.7
3 2	12 9.90	− 3 54.8	2.339	3.277	6.6	21.5
3 12	12 2.00	− 3 15.4	2.293	3.275	3.2	21.3
3 22	11 53.48	− 2 29.7	2.278	3.273	1.1	21.1
4 1	11 45.12	− 1 42.3	2.292	3.269	4.4	21.4
4 11	11 37.68	− 0 58.1	2.336	3.266	7.8	21.6
4 21	11 31.73	− 0 21.2	2.406	3.261	10.8	21.8

508617 2017 SP_{38} 3 19.3 279°.17 5°.6/23.8 17

2 11	12 22.55	−14 8.6	1.936	2.677	16.5	20.9
2 21	12 18.33	−14 54.5	1.829	2.662	13.9	20.6
3 2	12 11.62	−15 22.5	1.741	2.647	10.8	20.4
3 12	12 2.94	−15 30.4	1.678	2.631	7.6	20.2
3 22	11 53.11	−15 18.4	1.640	2.616	5.7	20.0
4 1	11 43.25	−14 49.3	1.630	2.600	6.7	20.0
4 11	11 34.51	−14 9.1	1.647	2.584	9.9	20.2
4 21	11 27.78	−13 25.0	1.687	2.569	13.3	20.4

30891 1993 FV_{14} 3 19.3 220°.77 2°.7/16.6 18 R

2 11	12 21.90	+ 3 31.8	1.825	2.639	14.6	19.0
2 21	12 17.71	+ 4 36.8	1.734	2.630	11.2	18.8
3 2	12 11.09	+ 5 55.1	1.665	2.620	7.3	18.5
3 12	12 2.65	+ 7 19.9	1.624	2.610	3.5	18.3
3 22	11 53.27	+ 8 42.8	1.611	2.599	3.8	18.3
4 1	11 44.05	+ 9 55.2	1.627	2.587	7.8	18.5
4 11	11 36.08	+10 50.1	1.669	2.574	11.9	18.7
4 21	11 30.15	+11 24.3	1.733	2.561	15.5	18.9

344608 2003 EB_{34} 3 19.3 105°.49 1°.7/20.9 17

2 11	12 21.97	− 5 17.3	2.449	3.216	12.7	20.3
2 21	12 17.00	− 5 31.8	2.361	3.224	10.1	20.2
3 2	12 10.21	− 5 35.2	2.297	3.231	7.0	20.0
3 12	12 2.15	− 5 28.8	2.260	3.239	3.7	19.8
3 22	11 53.50	− 5 15.2	2.253	3.246	1.7	19.6
4 1	11 45.06	− 4 57.6	2.275	3.253	4.3	19.8
4 11	11 37.61	− 4 40.0	2.326	3.260	7.6	20.0
4 21	11 31.70	− 4 26.0	2.403	3.267	10.5	20.2

236004 2005 GE_{27} 3 19.3 286°.45 2°.5/21.7 18

2 11	12 20.61	− 7 37.1	2.154	2.922	14.2	20.1
2 21	12 16.35	− 7 53.3	2.056	2.916	11.4	19.9
3 2	12 10.02	− 7 55.4	1.980	2.911	8.2	19.7
3 12	12 2.14	− 7 44.2	1.930	2.905	4.7	19.4
3 22	11 53.48	− 7 22.0	1.908	2.899	2.5	19.3
4 1	11 44.94	− 6 53.0	1.915	2.894	4.9	19.4
4 11	11 37.43	− 6 22.4	1.950	2.888	8.5	19.6
4 21	11 31.65	− 5 54.9	2.009	2.883	11.8	19.8

217298 2004 JY_{4} 3 19.3 228°.78 2°.7/21.6 18

2 11	12 26.19	− 7 48.9	2.328	3.079	13.7	20.8
2 21	12 20.59	− 8 12.9	2.217	3.066	11.1	20.6
3 2	12 12.82	− 8 24.2	2.129	3.053	8.0	20.3
3 12	12 3.38	− 8 23.0	2.067	3.040	4.7	20.1
3 22	11 53.02	− 8 11.0	2.035	3.025	2.7	19.9
4 1	11 42.67	− 7 51.4	2.034	3.010	5.0	20.1
4 11	11 33.31	− 7 28.7	2.062	2.994	8.5	20.2
4 21	11 25.66	− 7 7.6	2.115	2.978	11.8	20.4

84158 2002 RM_{84} 3 19.3 55°.02 0°.7/20.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 15.51	− 6 10.5	1.980	2.769	14.5	18.7
2 21	12 12.42	− 5 20.5	1.901	2.779	11.4	18.5
3 2	12 7.38	− 4 12.2	1.846	2.790	7.6	18.3
3 12	12 0.96	− 2 50.1	1.817	2.800	3.6	18.1
3 22	11 53.95	− 1 20.7	1.816	2.811	1.1	17.9
4 1	11 47.23	+ 0 8.2	1.844	2.822	5.1	18.2
4 11	11 41.62	+ 1 28.9	1.899	2.833	9.0	18.5
4 21	11 37.70	+ 2 36.0	1.979	2.845	12.3	18.7

100631 1997 UH_{8} 3 19.3 237°.85 0°.6/20.1 17

2 11	12 18.43	− 4 9.9	2.607	3.382	11.8	21.0
2 21	12 14.33	− 3 46.7	2.498	3.368	9.3	20.8
3 2	12 8.53	− 3 11.2	2.413	3.354	6.3	20.6
3 12	12 1.47	− 2 26.0	2.356	3.340	2.9	20.4
3 22	11 53.75	− 1 34.6	2.329	3.325	0.9	20.2
4 1	11 46.10	− 0 41.8	2.332	3.309	4.3	20.4
4 11	11 39.25	+ 0 7.4	2.364	3.293	7.7	20.6
4 21	11 33.77	+ 0 48.9	2.421	3.277	10.8	20.8

435941 2009 CW_{25} 3 19.3 59°.01 2°.8/16.2 17

2 11	12 17.70	+ 5 34.5	2.008	2.829	13.2	20.9
2 21	12 13.99	+ 6 31.9	1.945	2.845	10.0	20.8
3 2	12 8.32	+ 7 37.1	1.905	2.861	6.4	20.6
3 12	12 1.34	+ 8 43.7	1.893	2.877	3.3	20.4
3 22	11 53.84	+ 9 44.9	1.908	2.893	3.7	20.5
4 1	11 46.70	+10 34.7	1.952	2.910	6.9	20.7
4 11	11 40.72	+11 8.7	2.023	2.926	10.2	20.9
4 21	11 36.45	+11 25.5	2.116	2.943	13.1	21.1

54629 2000 SL_{98} 3 19.3 344°.78 0°.8/19.9 18

2 11	12 22.46	− 1 45.0	2.197	2.983	13.4	18.7
2 21	12 17.65	− 2 1.1	2.105	2.981	10.5	18.5
3 2	12 10.80	− 2 7.5	2.036	2.979	7.1	18.2
3 12	12 2.46	− 2 6.2	1.994	2.977	3.3	18.0
3 22	11 53.40	− 2 0.0	1.981	2.976	1.1	17.8
4 1	11 44.53	− 1 52.4	1.997	2.975	4.9	18.1
4 11	11 36.73	− 1 47.2	2.041	2.973	8.6	18.3
4 21	11 30.64	− 1 47.5	2.110	2.972	11.8	18.5

464525 2016 CG_{13} 3 19.3 28°.80 1°.5/17.9 18

2 11	12 17.80	− 0 36.3	1.497	2.320	16.8	21.0
2 21	12 14.87	+ 0 23.0	1.422	2.322	13.0	20.8
3 2	12 9.34	+ 1 40.9	1.368	2.324	8.4	20.5
3 12	12 1.92	+ 3 10.5	1.338	2.326	3.5	20.2
3 22	11 53.61	+ 4 42.4	1.335	2.329	2.6	20.1
4 1	11 45.63	+ 6 6.0	1.359	2.331	7.5	20.4
4 11	11 39.12	+ 7 12.9	1.408	2.334	12.1	20.7
4 21	11 34.87	+ 7 58.1	1.478	2.337	16.1	21.0

458930 2011 UW_{296} 3 19.3 145°.17 0°.8/20.1 18

2 11	12 23.22	− 5 18.6	2.037	2.813	14.6	22.7
2 21	12 18.27	− 4 45.0	1.956	2.826	11.5	22.5
3 2	12 11.18	− 3 55.2	1.899	2.839	7.7	22.3
3 12	12 2.60	− 2 52.7	1.868	2.851	3.6	22.1
3 22	11 53.37	− 1 43.2	1.866	2.861	1.1	21.9
4 1	11 44.46	− 0 33.4	1.894	2.871	5.1	22.2
4 11	11 36.77	+ 0 29.8	1.950	2.880	9.1	22.5
4 21	11 30.95	+ 1 21.6	2.032	2.888	12.5	22.7

200135 1997 WO_{14} 3 19.3 90°.75 3°.1/16.8 18

2 11	12 23.66	+ 4 37.0	1.511	2.335	16.6	20.9
2 21	12 19.16	+ 5 30.3	1.451	2.352	12.6	20.7
3 2	12 11.99	+ 6 34.6	1.413	2.369	8.2	20.5
3 12	12 2.98	+ 7 41.8	1.400	2.386	3.9	20.3
3 22	11 53.25	+ 8 43.3	1.414	2.402	4.1	20.3
4 1	11 44.08	+ 9 31.1	1.455	2.418	8.2	20.6
4 11	11 36.59	+ 9 59.9	1.521	2.433	12.4	20.9
4 21	11 31.47	+10 8.3	1.608	2.449	16.0	21.1

496359 2013 QE_{77} 3 19.3 279°.77 2°.9/21.8 17

2 11	12 20.16	− 8 38.6	1.763	2.541	16.5	21.7
2 21	12 16.55	− 8 45.6	1.664	2.530	13.4	21.5
3 2	12 10.45	− 8 33.6	1.587	2.520	9.6	21.2
3 12	12 2.44	− 8 3.5	1.534	2.509	5.5	21.0
3 22	11 53.40	− 7 18.6	1.507	2.499	2.9	20.8
4 1	11 44.46	− 6 24.8	1.508	2.488	5.8	20.9
4 11	11 36.76	− 5 29.7	1.535	2.478	10.0	21.1
4 21	11 31.14	− 4 40.4	1.586	2.467	14.0	21.4

42572 1997 AO 3 19.3 75°.60 12°.4/ 5.6 18

2 11	12 22.68	+27 10.6	1.500	2.336	16.1	18.3
2 21	12 18.66	+29 57.3	1.477	2.359	13.8	18.2
3 2	12 11.74	+32 28.8	1.479	2.382	12.5	18.2
3 12	12 2.86	+34 30.5	1.505	2.405	12.7	18.2
3 22	11 53.32	+35 52.5	1.554	2.427	14.2	18.4
4 1	11 44.51	+36 31.0	1.624	2.450	16.2	18.6
4 11	11 37.60	+36 28.8	1.712	2.472	18.3	18.8
4 21	11 33.27	+35 52.3	1.816	2.494	20.1	19.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
169400 2001 WA_{30}			3 19.3 134.°59		5.°5/11.3 18	
	h m	° ′			°	m
2 11	12 19.30	+19 27.2	2.828	3.644	9.9	20.1
2 21	12 14.72	+20 37.5	2.769	3.656	7.9	20.0
3 2	12 8.58	+21 45.0	2.737	3.668	6.2	19.9
3 12	12 1.42	+22 43.8	2.734	3.679	5.5	19.9
3 22	11 53.84	+23 28.9	2.759	3.690	6.4	19.9
4 1	11 46.53	+23 56.9	2.811	3.700	8.1	20.1
4 11	11 40.13	+24 6.4	2.890	3.710	10.1	20.2
4 21	11 35.10	+23 58.1	2.989	3.720	11.9	20.4
10945 1999 GS_{9}			3 19.3 7.°14		5.°0/13.5 18	
2 11	12 17.58	+12 48.0	2.120	2.949	12.3	17.5
2 21	12 13.95	+13 58.0	2.047	2.949	9.5	17.3
3 2	12 8.37	+15 10.8	2.000	2.950	6.7	17.2
3 12	12 1.41	+16 19.1	1.980	2.950	5.1	17.1
3 22	11 53.84	+17 15.9	1.987	2.951	6.0	17.1
4 1	11 46.53	+17 55.6	2.022	2.951	8.6	17.3
4 11	11 40.32	+18 15.1	2.082	2.952	11.5	17.4
4 21	11 35.79	+18 14.1	2.163	2.953	14.1	17.6
94662 2001 WF_{100}			3 19.3 170.°00		2.°3/17.2 18	
2 11	12 25.46	+ 4 25.4	1.940	2.745	14.2	20.5
2 21	12 20.15	+ 5 5.0	1.859	2.750	10.9	20.3
3 2	12 12.52	+ 5 53.8	1.802	2.754	7.1	20.1
3 12	12 3.22	+ 6 46.1	1.772	2.757	3.3	19.9
3 22	11 53.17	+ 7 35.3	1.771	2.760	3.2	19.9
4 1	11 43.43	+ 8 15.3	1.799	2.762	6.9	20.1
4 11	11 35.01	+ 8 41.3	1.854	2.762	10.7	20.3
4 21	11 28.59	+ 8 51.3	1.933	2.762	14.1	20.5
344071 1996 XS_{16}			3 19.3 138.°88		1.°1/17.9 17	
2 11	12 18.68	+ 2 13.9	2.913	3.705	10.3	22.4
2 21	12 14.15	+ 2 48.9	2.833	3.717	7.8	22.3
3 2	12 8.19	+ 3 30.9	2.780	3.729	5.0	22.1
3 12	12 1.26	+ 4 16.4	2.755	3.741	2.1	21.9
3 22	11 53.92	+ 5 1.4	2.761	3.752	1.7	21.9
4 1	11 46.80	+ 5 41.9	2.797	3.763	4.5	22.1
4 11	11 40.48	+ 6 14.6	2.862	3.773	7.3	22.3
4 21	11 35.41	+ 6 37.3	2.953	3.783	9.7	22.5
283956 2004 QH_{24}			3 19.3 130.°32		11.°9/ 3.5 18	
2 11	12 25.30	−36 58.6	2.076	2.647	19.8	20.4
2 21	12 20.54	−37 55.8	1.993	2.663	18.2	20.3
3 2	12 13.05	−38 22.2	1.925	2.678	16.3	20.1
3 12	12 3.54	−38 12.5	1.873	2.693	14.4	20.0
3 22	11 53.06	−37 24.4	1.843	2.706	12.8	19.9
4 1	11 42.91	−36 0.1	1.835	2.719	12.0	19.9
4 11	11 34.29	−34 7.3	1.851	2.731	12.2	20.0
4 21	11 28.05	−31 57.0	1.891	2.743	13.5	20.1
410776 2009 EP_{21}			3 19.3 347.°15		0.°3/19.5 18	
2 11	12 17.82	− 3 31.6	1.386	2.204	18.1	21.1
2 21	12 15.18	− 3 3.6	1.306	2.201	14.2	20.8
3 2	12 9.74	− 2 14.5	1.246	2.198	9.5	20.5
3 12	12 2.17	− 1 8.8	1.209	2.195	4.2	20.2
3 22	11 53.56	+ 0 5.7	1.198	2.193	1.4	20.0
4 1	11 45.23	+ 1 19.1	1.212	2.192	6.9	20.3
4 11	11 38.46	+ 2 21.7	1.251	2.191	12.1	20.6
4 21	11 34.12	+ 3 7.1	1.311	2.190	16.5	20.9
87705 2000 SY_{24}			3 19.3 108.°51		2.°8/16.1 18	
2 11	12 19.57	+ 5 6.7	2.063	2.878	13.1	19.6
2 21	12 15.39	+ 6 13.6	1.996	2.893	9.9	19.5
3 2	12 9.25	+ 7 29.1	1.954	2.908	6.4	19.3
3 12	12 1.77	+ 8 46.5	1.939	2.923	3.3	19.1
3 22	11 53.75	+ 9 58.6	1.953	2.937	3.7	19.1
4 1	11 46.07	+10 58.9	1.996	2.951	6.9	19.4
4 11	11 39.56	+11 43.0	2.066	2.965	10.2	19.6
4 21	11 34.78	+12 8.8	2.159	2.979	13.2	19.8
514597 2003 MD_{7}			3 19.3 100.°74		1.°9/20.6 18	
2 11	12 52.80	−11 1.6	1.083	1.835	26.2	22.9
2 21	12 41.79	− 9 47.5	1.041	1.895	20.5	22.7
3 2	12 26.69	− 7 58.6	1.018	1.949	13.8	22.5
3 12	12 9.10	− 5 43.2	1.021	2.000	6.6	22.3
3 22	11 51.23	− 3 16.8	1.053	2.047	2.2	22.1
4 1	11 35.28	− 0 57.9	1.115	2.091	8.1	22.6
4 11	11 22.81	+ 0 58.9	1.204	2.130	13.7	23.0
4 21	11 14.44	+ 2 26.8	1.317	2.166	18.3	23.4
104415 2000 FG_{57}			3 19.3 293.°99		1.°6/17.6 18	
2 11	12 17.99	+ 2 28.3	2.084	2.895	13.2	19.7
2 21	12 14.33	+ 3 7.1	1.997	2.891	10.1	19.5
3 2	12 8.68	+ 3 56.4	1.934	2.888	6.5	19.2
3 12	12 1.59	+ 4 51.2	1.898	2.884	2.8	19.0
3 22	11 53.81	+ 5 45.6	1.889	2.881	2.4	18.9
4 1	11 46.24	+ 6 33.7	1.910	2.878	6.1	19.2
4 11	11 39.72	+ 7 10.2	1.957	2.874	9.8	19.4
4 21	11 34.89	+ 7 32.3	2.028	2.871	13.0	19.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
205842 2002 EZ_{31}			3 19.3 37.°23		1.°6/18.1 18	
	h m	° ′			°	m
2 11	12 18.97	+ 0 9.6	1.278	2.111	18.6	20.3
2 21	12 16.10	+ 0 55.0	1.214	2.119	14.3	20.1
3 2	12 10.29	+ 1 58.8	1.170	2.128	9.2	19.8
3 12	12 2.37	+ 3 13.4	1.149	2.137	3.8	19.5
3 22	11 53.54	+ 4 29.2	1.154	2.147	2.8	19.5
4 1	11 45.20	+ 5 35.5	1.183	2.158	8.0	19.8
4 11	11 38.63	+ 6 24.1	1.237	2.169	12.9	20.1
4 21	11 34.62	+ 6 51.0	1.310	2.180	17.1	20.4
345580 2006 SG_{20}			3 19.3 167.°24		3.°5/23.5 17	
2 11	12 21.05	−13 11.1	2.900	3.620	11.9	21.6
2 21	12 16.14	−13 31.2	2.800	3.624	9.9	21.5
3 2	12 9.61	−13 37.7	2.724	3.627	7.5	21.3
3 12	12 1.94	−13 30.8	2.675	3.630	5.0	21.2
3 22	11 53.70	−13 11.9	2.655	3.633	3.5	21.1
4 1	11 45.59	−12 43.8	2.665	3.635	4.4	21.1
4 11	11 38.27	−12 10.3	2.704	3.637	6.7	21.3
4 21	11 32.28	−11 35.9	2.770	3.638	9.1	21.4
272884 2006 BQ_{99}			3 19.3 45.°24		0.°6/19.9 18	
2 11	12 16.35	− 5 41.3	1.670	2.471	16.3	20.5
2 21	12 13.43	− 4 55.4	1.597	2.482	12.7	20.2
3 2	12 8.23	− 3 49.1	1.546	2.493	8.6	20.0
3 12	12 1.41	− 2 27.4	1.520	2.505	3.9	19.8
3 22	11 53.91	− 0 57.9	1.522	2.517	1.2	19.6
4 1	11 46.75	+ 0 30.4	1.550	2.530	5.8	19.9
4 11	11 40.93	+ 1 48.8	1.605	2.542	10.1	20.2
4 21	11 37.09	+ 2 51.3	1.684	2.555	13.8	20.5
132107 2002 CR_{214}			3 19.3 280.°36		0.°1/19.4 18	
2 11	12 22.92	− 1 12.6	1.586	2.394	16.7	19.7
2 21	12 19.07	− 1 6.1	1.484	2.374	13.2	19.4
3 2	12 12.37	− 0 44.6	1.404	2.354	8.9	19.1
3 12	12 3.40	− 0 11.2	1.347	2.334	3.9	18.7
3 22	11 53.12	+ 0 28.9	1.318	2.313	1.4	18.5
4 1	11 42.83	+ 1 8.7	1.315	2.293	6.8	18.8
4 11	11 33.90	+ 1 40.7	1.338	2.272	11.9	19.0
4 21	11 27.34	+ 1 59.8	1.382	2.251	16.5	19.2
210923 2001 SQ_{336}			3 19.3 63.°72		0.°9/20.2 17	
2 11	12 22.26	− 2 44.4	2.129	2.914	13.8	20.3
2 21	12 17.46	− 2 53.8	2.050	2.925	10.8	20.1
3 2	12 10.64	− 2 52.1	1.994	2.936	7.3	19.9
3 12	12 2.40	− 2 41.5	1.964	2.947	3.4	19.6
3 22	11 53.55	− 2 25.2	1.963	2.958	1.2	19.5
4 1	11 45.00	− 2 7.3	1.992	2.970	4.8	19.8
4 11	11 37.59	− 1 52.2	2.048	2.981	8.5	20.0
4 21	11 31.94	− 1 43.1	2.129	2.993	11.7	20.2
299811 2006 SH_{129}			3 19.3 114.°17		0.°2/19.0 17	
2 11	12 16.10	− 2 24.8	2.471	3.261	12.0	20.8
2 21	12 12.51	− 1 39.3	2.388	3.269	9.2	20.6
3 2	12 7.29	− 0 41.5	2.329	3.276	6.0	20.4
3 12	12 0.94	+ 0 24.4	2.298	3.284	2.6	20.2
3 22	11 54.09	+ 1 33.5	2.296	3.291	1.1	20.1
4 1	11 47.46	+ 2 40.2	2.325	3.299	4.6	20.3
4 11	11 41.71	+ 3 39.1	2.381	3.306	7.9	20.5
4 21	11 37.35	+ 4 26.7	2.463	3.313	10.8	20.7
83641 2001 SO_{338}			3 19.3 15.°27		0.°1/19.3 17	
2 11	12 19.00	− 0 44.0	1.974	2.777	14.1	19.5
2 21	12 15.18	− 0 34.2	1.892	2.779	10.9	19.3
3 2	12 9.27	− 0 12.8	1.832	2.782	7.2	19.1
3 12	12 1.86	+ 0 16.8	1.798	2.784	3.1	18.8
3 22	11 53.76	+ 0 50.0	1.792	2.788	1.2	18.7
4 1	11 45.91	+ 1 21.4	1.815	2.791	5.4	19.0
4 11	11 39.21	+ 1 46.3	1.864	2.795	9.3	19.2
4 21	11 34.31	+ 2 1.0	1.937	2.800	12.7	19.4
285925 2001 QM_{219}			3 19.3 153.°42		1.°6/17.8 18	
2 11	12 22.00	+ 0 6.7	1.719	2.527	15.6	21.2
2 21	12 17.76	+ 1 9.7	1.642	2.534	12.0	21.0
3 2	12 11.09	+ 2 28.6	1.588	2.541	7.8	20.8
3 12	12 2.67	+ 3 56.7	1.560	2.547	3.3	20.5
3 22	11 53.46	+ 5 25.3	1.561	2.553	2.6	20.5
4 1	11 44.59	+ 6 45.6	1.590	2.558	7.0	20.8
4 11	11 37.11	+ 7 49.9	1.645	2.562	11.3	21.0
4 21	11 31.75	+ 8 34.4	1.723	2.566	15.0	21.3
505096 2011 WV_{39}			3 19.3 236.°12		9.°4/ 3.8 17	
2 11	12 24.28	+36 37.8	2.832	3.610	10.9	21.6
2 21	12 18.89	+37 56.3	2.776	3.600	9.9	21.5
3 2	12 11.52	+39 2.3	2.744	3.589	9.5	21.5
3 12	12 2.77	+39 49.0	2.736	3.578	9.7	21.5
3 22	11 53.43	+40 11.5	2.753	3.566	10.5	21.5
4 1	11 44.41	+40 7.5	2.793	3.555	11.8	21.6
4 11	11 36.53	+39 37.5	2.853	3.543	13.1	21.7
4 21	11 30.39	+38 44.5	2.931	3.530	14.4	21.8

5115 Frimout 3 19.3 187°.19 3°.4/23.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 17.92	−13 49.8	2.696	3.424	12.6	17.8
2 21	12 13.89	−13 48.8	2.595	3.424	10.4	17.6
3 2	12 8.22	−13 31.7	2.517	3.423	7.8	17.4
3 12	12 1.37	−12 59.1	2.464	3.422	5.2	17.3
3 22	11 53.94	−12 13.4	2.439	3.420	3.5	17.1
4 1	11 46.64	−11 18.2	2.445	3.419	4.4	17.2
4 11	11 40.15	−10 19.0	2.479	3.416	7.0	17.4
4 21	11 35.02	− 9 20.7	2.539	3.414	9.6	17.5

21180 1994 *DC* 3 19.3 317°.30 0°.7/19.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.15	− 0 27.5	1.340	2.160	18.5	17.7
2 21	12 19.78	− 0 53.5	1.243	2.139	14.7	17.3
3 2	12 13.15	− 1 6.9	1.166	2.118	10.0	17.0
3 12	12 3.84	− 1 10.0	1.112	2.098	4.6	16.6
3 22	11 52.96	− 1 6.5	1.083	2.079	1.5	16.4
4 1	11 42.05	− 1 1.9	1.079	2.060	7.4	16.7
4 11	11 32.73	− 1 2.4	1.099	2.042	13.0	16.9
4 21	11 26.19	− 1 12.7	1.140	2.025	18.0	17.2

381333 2007 XK_{13} 3 19.3 58°.13 4°.0/23.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.80	−13 34.5	2.095	2.840	15.2	20.3
2 21	12 14.84	−13 40.4	2.024	2.863	12.5	20.2
3 2	12 8.92	−13 26.7	1.973	2.886	9.3	20.0
3 12	12 1.66	−12 54.7	1.948	2.908	6.1	19.8
3 22	11 53.85	−12 7.3	1.949	2.931	4.0	19.8
4 1	11 46.39	−11 10.0	1.979	2.954	5.1	19.9
4 11	11 40.09	−10 9.3	2.036	2.977	8.0	20.1
4 21	11 35.50	− 9 11.6	2.118	3.000	11.0	20.3

274776 2008 UC_{363} 3 19.3 164°.22 6°.2/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.47	+16 45.5	2.116	2.943	12.4	20.2
2 21	12 16.20	+18 0.6	2.048	2.945	9.8	20.0
3 2	12 9.87	+19 15.3	2.005	2.946	7.4	19.9
3 12	12 2.09	+20 21.6	1.990	2.947	6.2	19.8
3 22	11 53.69	+21 12.5	2.001	2.949	7.3	19.9
4 1	11 45.59	+21 42.7	2.040	2.950	9.7	20.0
4 11	11 38.68	+21 50.2	2.103	2.951	12.3	20.2
4 21	11 33.55	+21 35.6	2.186	2.951	14.7	20.4

225154 2008 GK_{65} 3 19.3 267°.98 1°.5/18.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.84	+ 2 15.5	1.886	2.694	14.4	21.5
2 21	12 17.69	+ 2 41.1	1.785	2.677	11.2	21.3
3 2	12 11.15	+ 3 18.0	1.707	2.660	7.3	21.0
3 12	12 2.77	+ 4 1.8	1.655	2.642	3.2	20.7
3 22	11 53.40	+ 4 46.5	1.632	2.624	2.4	20.6
4 1	11 44.11	+ 5 25.9	1.636	2.606	6.6	20.9
4 11	11 35.98	+ 5 54.0	1.667	2.588	10.9	21.1
4 21	11 29.81	+ 6 7.5	1.721	2.570	14.7	21.3

499290 2009 VE_{116} 3 19.3 155°.56 5°.3/25.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.90	−18 51.5	2.449	3.148	14.4	21.8
2 21	12 16.37	−19 7.9	2.355	3.155	12.2	21.7
3 2	12 9.94	−19 4.6	2.281	3.161	9.7	21.5
3 12	12 2.14	−18 41.1	2.231	3.167	7.2	21.4
3 22	11 53.67	−17 58.8	2.209	3.173	5.5	21.3
4 1	11 45.39	−17 1.4	2.215	3.178	5.8	21.3
4 11	11 38.09	−15 54.9	2.250	3.183	7.9	21.4
4 21	11 32.39	−14 45.9	2.311	3.187	10.4	21.6

224310 2005 UW_{19} 3 19.3 107°.49 0°.5/19.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.86	− 3 31.4	1.879	2.673	15.0	21.0
2 21	12 15.96	− 3 10.3	1.796	2.677	11.7	20.8
3 2	12 9.84	− 2 33.8	1.735	2.681	7.9	20.6
3 12	12 2.13	− 1 45.6	1.700	2.685	3.6	20.3
3 22	11 53.68	− 0 50.9	1.693	2.689	1.1	20.2
4 1	11 45.49	+ 0 3.6	1.715	2.693	5.5	20.5
4 11	11 38.52	+ 0 51.6	1.763	2.696	9.6	20.7
4 21	11 33.46	+ 1 28.2	1.834	2.700	13.2	20.9

247840 2003 SK_{282} 3 19.3 268°.07 0°.8/20.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.26	− 4 35.4	1.757	2.550	16.0	21.1
2 21	12 17.56	− 4 14.3	1.647	2.527	12.7	20.8
3 2	12 11.27	− 3 34.5	1.559	2.504	8.7	20.6
3 12	12 2.91	− 2 38.7	1.496	2.480	4.1	20.2
3 22	11 53.36	− 1 31.9	1.460	2.455	1.3	20.0
4 1	11 43.75	− 0 21.9	1.452	2.430	6.2	20.2
4 11	11 35.30	+ 0 42.9	1.470	2.405	11.0	20.4
4 21	11 28.95	+ 1 35.6	1.512	2.379	15.4	20.6

385887 2006 SR_{167} 3 19.3 83°.07 0°.7/19.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.68	− 1 31.7	2.311	3.093	12.9	20.8
2 21	12 18.43	− 1 45.7	2.226	3.100	10.1	20.6
3 2	12 11.24	− 1 50.6	2.165	3.108	6.8	20.4
3 12	12 2.68	− 1 48.4	2.131	3.115	3.1	20.2
3 22	11 53.52	− 1 41.7	2.127	3.122	1.0	20.1
4 1	11 44.60	− 1 34.0	2.153	3.130	4.6	20.3
4 11	11 36.76	− 1 28.9	2.207	3.137	8.1	20.6
4 21	11 30.58	− 1 29.2	2.287	3.145	11.2	20.8

189304 2005 WN_{115} 3 19.3 245°.87 7°.5/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 20.31	−22 6.5	2.100	2.792	16.7	19.9
2 21	12 16.47	−22 47.3	1.997	2.784	14.6	19.7
3 2	12 10.34	−23 5.4	1.912	2.777	12.1	19.6
3 12	12 2.43	−22 58.0	1.850	2.769	9.5	19.4
3 22	11 53.57	−22 24.9	1.812	2.762	7.8	19.3
4 1	11 44.75	−21 28.8	1.801	2.754	7.8	19.2
4 11	11 37.04	−20 16.5	1.817	2.746	9.6	19.3
4 21	11 31.21	−18 56.4	1.856	2.737	12.3	19.5

303708 2005 PK_{1} 3 19.3 208°.15 3°.0/23.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.78	−11 45.6	2.985	3.714	11.5	22.1
2 21	12 15.18	−11 58.4	2.877	3.709	9.4	22.0
3 2	12 9.02	−11 58.5	2.793	3.703	7.0	21.8
3 12	12 1.73	−11 46.2	2.736	3.697	4.5	21.6
3 22	11 53.86	−11 23.2	2.707	3.690	3.0	21.5
4 1	11 46.07	−10 52.2	2.710	3.683	4.1	21.6
4 11	11 39.00	−10 17.2	2.741	3.676	6.5	21.7
4 21	11 33.18	− 9 42.2	2.800	3.668	9.1	21.9

426624 2013 SA_{60} 3 19.3 145°.17 0°.4/18.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.70	− 1 44.0	2.265	3.055	12.9	22.4
2 21	12 15.41	− 1 2.8	2.183	3.064	10.0	22.2
3 2	12 9.28	− 0 9.2	2.125	3.072	6.5	22.0
3 12	12 1.85	+ 0 52.8	2.094	3.080	2.7	21.7
3 22	11 53.84	+ 1 57.8	2.093	3.088	1.3	21.6
4 1	11 46.09	+ 2 59.7	2.122	3.095	5.1	21.9
4 11	11 39.37	+ 3 53.1	2.179	3.102	8.6	22.1
4 21	11 34.24	+ 4 34.3	2.260	3.108	11.7	22.3

278461 2007 TJ_{139} 3 19.3 84°.66 4°.9/25.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.66	−19 52.1	2.331	3.036	14.9	20.7
2 21	12 13.12	−19 33.8	2.247	3.052	12.6	20.5
3 2	12 7.78	−18 52.4	2.183	3.068	9.9	20.4
3 12	12 1.20	−17 48.5	2.143	3.084	7.1	20.2
3 22	11 54.10	−16 25.6	2.130	3.100	5.1	20.1
4 1	11 47.26	−14 49.3	2.146	3.116	5.4	20.2
4 11	11 41.46	−13 7.5	2.191	3.131	7.6	20.3
4 21	11 37.21	−11 27.7	2.262	3.147	10.3	20.5

491628 2012 TU_{149} 3 19.3 158°.69 2°.3/22.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.21	−11 20.3	2.822	3.562	11.8	22.2
2 21	12 13.22	−10 59.8	2.727	3.568	9.6	22.1
3 2	12 7.72	−10 24.2	2.655	3.574	6.9	21.9
3 12	12 1.16	− 9 35.4	2.610	3.579	4.2	21.7
3 22	11 54.12	− 8 36.3	2.595	3.583	2.4	21.6
4 1	11 47.24	− 7 31.3	2.610	3.588	3.9	21.7
4 11	11 41.15	− 6 25.7	2.654	3.592	6.6	21.9
4 21	11 36.33	− 5 24.2	2.725	3.595	9.2	22.1

20744 2000 AO_{151} 3 19.3 147°.19 1°.9/21.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.61	− 9 8.0	2.407	3.165	13.1	18.5
2 21	12 14.52	− 8 40.5	2.318	3.173	10.5	18.3
3 2	12 8.68	− 7 56.6	2.252	3.181	7.4	18.1
3 12	12 1.60	− 6 58.8	2.213	3.189	4.1	17.9
3 22	11 53.96	− 5 51.3	2.203	3.196	1.9	17.8
4 1	11 46.54	− 4 39.6	2.223	3.203	4.3	17.9
4 11	11 40.07	− 3 29.8	2.272	3.209	7.6	18.2
4 21	11 35.10	− 2 27.3	2.347	3.214	10.6	18.4

294667 2008 AB_{90} 3 19.3 157°.31 3°.3/14.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.08	+ 8 54.3	2.619	3.434	10.6	21.2
2 21	12 13.20	+ 9 57.2	2.541	3.438	8.1	21.1
3 2	12 7.74	+11 4.8	2.490	3.442	5.4	20.9
3 12	12 1.18	+12 11.5	2.467	3.445	3.4	20.8
3 22	11 54.13	+13 12.0	2.473	3.448	4.0	20.8
4 1	11 47.29	+14 1.2	2.509	3.451	6.5	21.0
4 11	11 41.30	+14 35.9	2.572	3.454	9.2	21.2
4 21	11 36.66	+14 54.7	2.658	3.456	11.6	21.3

211525 2003 QF_{67} 3 19.3 173°.36 1°.5/17.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.69	+ 1 31.0	2.084	2.883	13.6	21.3
2 21	12 17.92	+ 2 17.2	2.000	2.887	10.4	21.1
3 2	12 11.05	+ 3 14.8	1.939	2.890	6.8	20.8
3 12	12 2.67	+ 4 18.8	1.906	2.892	2.9	20.6
3 22	11 53.59	+ 5 22.8	1.902	2.894	2.3	20.6
4 1	11 44.75	+ 6 20.3	1.928	2.895	6.1	20.8
4 11	11 37.07	+ 7 5.9	1.981	2.895	9.9	21.0
4 21	11 31.19	+ 7 36.3	2.058	2.894	13.1	21.2

351676 2006 AX_{72} 3 19.3 168°.58 2°.6/16.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.81	+ 4 25.6	1.851	2.661	14.6	21.9
2 21	12 19.80	+ 5 16.9	1.772	2.666	11.2	21.7
3 2	12 12.40	+ 6 18.6	1.717	2.670	7.3	21.4
3 12	12 3.27	+ 7 24.0	1.688	2.674	3.5	21.2
3 22	11 53.37	+ 8 25.8	1.689	2.676	3.5	21.2
4 1	11 43.79	+ 9 16.9	1.718	2.678	7.3	21.4
4 11	11 35.56	+ 9 51.9	1.773	2.679	11.3	21.7
4 21	11 29.41	+10 8.7	1.851	2.680	14.7	21.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
110743 Hirobumi			3 19.3 184°.65		1°.2/18.2 18	
	h m	° ′			°	m
2 11	12 21.43	+ 1 40.5	1.976	2.781	14.0	19.9
2 21	12 17.09	+ 2 9.8	1.891	2.781	10.8	19.7
3 2	12 10.58	+ 2 50.1	1.829	2.781	7.0	19.5
3 12	12 2.49	+ 3 36.6	1.794	2.780	3.0	19.2
3 22	11 53.65	+ 4 23.7	1.787	2.780	2.1	19.1
4 1	11 45.06	+ 5 5.4	1.809	2.779	6.1	19.4
4 11	11 37.65	+ 5 36.4	1.857	2.778	10.0	19.6
4 21	11 32.09	+ 5 53.8	1.930	2.776	13.4	19.8
124609 2001 SS_{40}			3 19.3 85°.81		1°.4/18.1 18	
2 11	12 21.32	− 0 33.5	1.428	2.247	17.7	19.3
2 21	12 17.61	+ 0 22.6	1.364	2.261	13.6	19.0
3 2	12 11.16	+ 1 36.5	1.320	2.275	8.8	18.8
3 12	12 2.77	+ 3 1.1	1.301	2.289	3.6	18.5
3 22	11 53.58	+ 4 26.6	1.309	2.303	2.5	18.5
4 1	11 44.89	+ 5 42.9	1.344	2.316	7.5	18.8
4 11	11 37.86	+ 6 41.9	1.403	2.329	12.1	19.1
4 21	11 33.24	+ 7 19.7	1.484	2.343	16.1	19.4
303383 2004 XP_{28}			3 19.3 102°.20		0°.9/20.2 18	
2 11	12 24.06	− 4 45.0	1.676	2.466	16.7	21.2
2 21	12 19.30	− 4 23.2	1.608	2.485	13.1	21.0
3 2	12 12.07	− 3 43.8	1.561	2.504	8.8	20.8
3 12	12 3.11	− 2 50.7	1.540	2.523	4.1	20.5
3 22	11 53.46	− 1 50.2	1.546	2.542	1.3	20.4
4 1	11 44.29	− 0 49.7	1.581	2.559	5.8	20.7
4 11	11 36.63	+ 0 3.5	1.642	2.577	10.1	21.0
4 21	11 31.17	+ 0 44.3	1.727	2.593	13.8	21.2
359020 2008 UP_{323}			3 19.3 225°.37		3°.4/22.3 16	
2 11	12 24.31	−10 55.3	1.936	2.689	16.1	22.5
2 21	12 19.67	−10 56.4	1.828	2.677	13.2	22.2
3 2	12 12.53	−10 37.5	1.741	2.663	9.7	22.0
3 12	12 3.45	− 9 59.0	1.679	2.649	5.9	21.7
3 22	11 53.28	− 9 3.7	1.645	2.634	3.4	21.5
4 1	11 43.14	− 7 57.2	1.639	2.617	5.7	21.6
4 11	11 34.15	− 6 47.5	1.662	2.600	9.7	21.8
4 21	11 27.18	− 5 42.2	1.709	2.582	13.6	22.0
365491 2010 PD_{79}			3 19.3 191°.88		0°.4/18.9 17	R
2 11	12 23.09	− 0 54.7	2.079	2.869	13.9	22.2
2 21	12 18.31	− 0 25.7	1.987	2.868	10.8	22.0
3 2	12 11.36	+ 0 15.8	1.918	2.866	7.1	21.7
3 12	12 2.84	+ 1 6.2	1.877	2.863	3.0	21.5
3 22	11 53.54	+ 1 59.9	1.865	2.859	1.4	21.3
4 1	11 44.44	+ 2 51.0	1.882	2.855	5.6	21.6
4 11	11 36.46	+ 3 33.8	1.927	2.850	9.5	21.8
4 21	11 30.31	+ 4 4.3	1.996	2.845	13.0	22.0
248975 2007 DS_{38}			3 19.3 314°.79		0°.9/18.7 17	
2 11	12 21.24	+ 1 34.7	1.651	2.466	15.8	20.1
2 21	12 17.54	+ 1 41.4	1.557	2.453	12.3	19.8
3 2	12 11.22	+ 1 59.6	1.486	2.439	8.1	19.6
3 12	12 2.89	+ 2 25.3	1.439	2.426	3.5	19.3
3 22	11 53.50	+ 2 53.1	1.419	2.414	1.9	19.1
4 1	11 44.24	+ 3 16.9	1.426	2.402	6.8	19.4
4 11	11 36.32	+ 3 31.0	1.459	2.390	11.4	19.6
4 21	11 30.61	+ 3 31.9	1.514	2.379	15.5	19.8
90712 Wittelsbach			3 19.4 149°.61		3°.6/14.9 17	
2 11	12 21.13	+10 24.4	2.522	3.333	11.1	20.5
2 21	12 16.31	+11 21.6	2.450	3.343	8.5	20.4
3 2	12 9.78	+12 22.0	2.403	3.353	5.7	20.2
3 12	12 2.07	+13 19.9	2.386	3.362	3.8	20.1
3 22	11 53.87	+14 10.0	2.398	3.370	4.4	20.1
4 1	11 45.94	+14 47.6	2.439	3.377	6.9	20.3
4 11	11 38.99	+15 9.9	2.507	3.384	9.5	20.5
4 21	11 33.54	+15 16.0	2.599	3.391	12.0	20.6
506185 2016 GR_{82}			3 19.4 221°.91		1°.3/21.1 17	
2 11	12 18.72	− 8 6.4	2.533	3.292	12.5	22.3
2 21	12 14.67	− 7 27.2	2.423	3.281	10.0	22.1
3 2	12 8.86	− 6 31.5	2.336	3.269	7.0	21.9
3 12	12 1.75	− 5 21.8	2.277	3.256	3.6	21.7
3 22	11 53.96	− 4 2.3	2.248	3.243	1.4	21.5
4 1	11 46.26	− 2 38.9	2.250	3.229	4.3	21.7
4 11	11 39.38	− 1 18.1	2.281	3.214	7.8	21.9
4 21	11 33.92	− 0 5.4	2.339	3.198	10.9	22.1
288940 2004 SH_{43}			3 19.4 266°.33		2°.9/21.7 17	
2 11	12 24.10	− 7 21.7	1.956	2.725	15.4	20.9
2 21	12 19.39	− 7 51.3	1.855	2.716	12.5	20.7
3 2	12 12.28	− 8 6.6	1.777	2.707	9.0	20.4
3 12	12 3.33	− 8 8.0	1.724	2.698	5.2	20.2
3 22	11 53.38	− 7 57.3	1.698	2.688	2.9	20.0
4 1	11 43.51	− 7 38.2	1.701	2.679	5.5	20.1
4 11	11 34.81	− 7 16.0	1.732	2.670	9.4	20.3
4 21	11 28.08	− 6 56.0	1.786	2.661	13.1	20.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
523780 2015 AN_{281}			3 19.4 266°.24		0°.4/12.4 18	
	h m	° ′			°	m
2 11	11 58.73	+17 20.3	42.310	43.126	0.7	21.6
2 21	11 58.10	+17 26.0	42.231	43.122	0.6	21.6
3 2	11 57.39	+17 31.5	42.180	43.119	0.4	21.6
3 12	11 56.64	+17 36.5	42.158	43.115	0.4	21.6
3 22	11 55.86	+17 41.0	42.165	43.111	0.4	21.6
4 1	11 55.08	+17 44.7	42.201	43.108	0.6	21.6
4 11	11 54.35	+17 47.4	42.264	43.104	0.7	21.6
4 21	11 53.67	+17 49.2	42.352	43.100	0.9	21.7
126741 2002 CY_{299}			3 19.4 209°.15		1°.4/17.4 17	
2 11	12 16.62	+ 2 50.3	2.872	3.670	10.2	20.9
2 21	12 12.77	+ 3 35.1	2.777	3.665	7.8	20.7
3 2	12 7.45	+ 4 27.6	2.708	3.660	5.0	20.5
3 12	12 1.09	+ 5 24.0	2.668	3.654	2.2	20.3
3 22	11 54.23	+ 6 19.9	2.658	3.648	2.0	20.3
4 1	11 47.50	+ 7 10.8	2.678	3.642	4.9	20.5
4 11	11 41.50	+ 7 52.7	2.727	3.635	7.7	20.6
4 21	11 36.71	+ 8 23.2	2.801	3.628	10.3	20.8
378334 2007 HM_{9}			3 19.4 233°.73		1°.6/21.0 17	
2 11	12 18.85	− 7 4.0	2.147	2.921	14.0	21.6
2 21	12 15.07	− 6 45.5	2.047	2.914	11.2	21.4
3 2	12 9.26	− 6 10.5	1.970	2.906	7.8	21.1
3 12	12 1.96	− 5 21.2	1.919	2.899	4.1	20.9
3 22	11 53.90	− 4 21.9	1.896	2.891	1.6	20.7
4 1	11 45.96	− 3 18.3	1.903	2.882	4.8	20.9
4 11	11 39.03	− 2 17.0	1.937	2.874	8.6	21.1
4 21	11 33.76	− 1 23.7	1.996	2.865	12.1	21.3
317865 2003 UU_{27}			3 19.4 162°.65		2°.3/16.4 17	
2 11	12 19.15	+ 5 26.5	2.542	3.347	11.2	21.3
2 21	12 14.83	+ 6 19.1	2.461	3.353	8.5	21.2
3 2	12 8.84	+ 7 18.6	2.405	3.357	5.5	21.0
3 12	12 1.69	+ 8 19.9	2.378	3.362	2.8	20.8
3 22	11 54.03	+ 9 17.7	2.380	3.366	3.0	20.8
4 1	11 46.58	+10 7.1	2.413	3.369	5.9	21.0
4 11	11 40.03	+10 44.1	2.473	3.372	8.8	21.2
4 21	11 34.91	+11 6.7	2.558	3.374	11.5	21.4
332558 2008 RE_{51}			3 19.4 267°.37		0°.8/20.3 17	
2 11	12 19.67	− 5 28.6	2.247	3.023	13.4	21.9
2 21	12 15.79	− 4 57.5	2.126	2.996	10.7	21.7
3 2	12 9.84	− 4 9.8	2.027	2.967	7.3	21.4
3 12	12 2.28	− 3 8.1	1.956	2.938	3.5	21.1
3 22	11 53.78	− 1 56.6	1.913	2.908	1.1	20.9
4 1	11 45.22	− 0 41.6	1.900	2.878	5.1	21.1
4 11	11 37.51	+ 0 29.9	1.916	2.847	9.1	21.3
4 21	11 31.41	+ 1 31.8	1.956	2.815	12.8	21.5
153747 2001 UA_{158}			3 19.4 66°.52		2°.1/17.5 18	
2 11	12 23.03	+ 3 29.8	1.654	2.471	15.7	20.5
2 21	12 18.42	+ 4 7.4	1.598	2.495	12.0	20.3
3 2	12 11.42	+ 4 55.1	1.564	2.519	7.7	20.1
3 12	12 2.82	+ 5 46.5	1.556	2.543	3.4	19.9
3 22	11 53.66	+ 6 34.4	1.576	2.567	3.0	19.9
4 1	11 45.05	+ 7 12.4	1.623	2.591	7.0	20.2
4 11	11 37.98	+ 7 35.9	1.696	2.614	11.0	20.5
4 21	11 33.06	+ 7 43.1	1.792	2.638	14.3	20.8
505260 2012 UR_{163}			3 19.4 191°.87		2°.0/21.9 17	
2 11	12 18.36	− 8 58.7	2.811	3.561	11.6	22.8
2 21	12 14.16	− 8 47.3	2.710	3.559	9.3	22.6
3 2	12 8.40	− 8 22.6	2.632	3.557	6.7	22.5
3 12	12 1.52	− 7 46.2	2.582	3.555	3.8	22.3
3 22	11 54.09	− 7 0.7	2.561	3.552	2.0	22.1
4 1	11 46.79	− 6 10.3	2.570	3.548	3.9	22.3
4 11	11 40.26	− 5 19.5	2.609	3.544	6.8	22.4
4 21	11 35.01	− 4 32.7	2.674	3.540	9.5	22.6
522652 2016 GY_{262}			3 19.4 285°.06		0°.6/19.9 17	
2 11	12 20.08	− 3 12.6	1.818	2.615	15.3	21.9
2 21	12 16.49	− 3 0.2	1.714	2.597	12.1	21.7
3 2	12 10.49	− 2 32.1	1.632	2.578	8.2	21.4
3 12	12 2.61	− 1 51.2	1.575	2.560	3.8	21.1
3 22	11 53.67	− 1 2.1	1.545	2.541	1.2	20.8
4 1	11 44.77	− 0 11.5	1.544	2.522	5.9	21.1
4 11	11 37.01	+ 0 33.7	1.568	2.504	10.4	21.3
4 21	11 31.24	+ 1 8.0	1.616	2.485	14.5	21.5
498180 2007 TV_{231}			3 19.4 209°.49		2°.6/22.7 17	
2 11	12 17.17	−11 24.5	2.544	3.290	12.8	22.2
2 21	12 13.45	−11 7.6	2.442	3.287	10.4	22.0
3 2	12 8.04	−10 34.0	2.362	3.282	7.6	21.8
3 12	12 1.40	− 9 45.2	2.309	3.278	4.6	21.6
3 22	11 54.15	− 8 44.4	2.284	3.273	2.6	21.4
4 1	11 47.02	− 7 36.4	2.289	3.268	4.3	21.5
4 11	11 40.73	− 6 27.1	2.323	3.262	7.3	21.7
4 21	11 35.84	− 5 22.0	2.383	3.257	10.2	21.9

522398 2016 CE_{309} 3 19.4 192.°76 1.°3/18.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.18	+ 2 18.2	2.140	2.938	13.3	21.6
2 21	12 18.31	+ 2 45.5	2.050	2.937	10.2	21.4
3 2	12 11.34	+ 3 22.5	1.984	2.935	6.7	21.1
3 12	12 2.85	+ 4 4.7	1.946	2.932	2.9	20.9
3 22	11 53.63	+ 4 47.1	1.936	2.929	2.1	20.8
4 1	11 44.62	+ 5 24.0	1.957	2.925	5.9	21.1
4 11	11 36.71	+ 5 50.9	2.004	2.921	9.6	21.3
4 21	11 30.58	+ 6 5.1	2.076	2.916	12.9	21.5

415353 2013 JK_{39} 3 19.4 316.°07 1.°5/20.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.78	− 5 42.4	1.359	2.174	18.7	21.4
2 21	12 14.69	− 5 28.1	1.266	2.157	14.9	21.1
3 2	12 9.69	− 4 50.3	1.192	2.141	10.3	20.8
3 12	12 2.38	− 3 51.6	1.141	2.125	5.1	20.4
3 22	11 53.77	− 2 38.2	1.114	2.110	1.7	20.2
4 1	11 45.23	− 1 19.7	1.113	2.095	6.9	20.5
4 11	11 38.17	− 0 7.1	1.135	2.081	12.3	20.7
4 21	11 33.63	+ 0 50.6	1.178	2.068	17.2	20.9

425302 2009 XW_{23} 3 19.4 96.°46 2.°8/16.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.41	+ 6 35.9	2.100	2.911	13.0	21.3
2 21	12 17.51	+ 7 20.1	2.037	2.931	9.9	21.1
3 2	12 10.65	+ 8 10.2	1.999	2.952	6.4	20.9
3 12	12 2.48	+ 9 0.6	1.988	2.972	3.3	20.8
3 22	11 53.81	+ 9 45.3	2.006	2.991	3.6	20.8
4 1	11 45.55	+10 19.3	2.054	3.010	6.7	21.1
4 11	11 38.51	+10 39.0	2.128	3.029	9.9	21.3
4 21	11 33.23	+10 43.4	2.225	3.047	12.7	21.5

376795 2000 SN_{129} 3 19.4 210.°02 6.°4/26.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.15	−21 51.3	2.599	3.269	14.3	21.7
2 21	12 18.24	−22 27.8	2.488	3.262	12.4	21.5
3 2	12 11.33	−22 45.6	2.397	3.254	10.2	21.3
3 12	12 2.89	−22 42.6	2.330	3.245	8.1	21.2
3 22	11 53.62	−22 18.7	2.290	3.236	6.6	21.0
4 1	11 44.38	−21 36.1	2.278	3.226	6.7	21.0
4 11	11 36.02	−20 39.7	2.293	3.215	8.3	21.1
4 21	11 29.24	−19 36.0	2.335	3.203	10.6	21.2

429994 2013 PG_{68} 3 19.4 131.°27 0.°1/19.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.03	− 2 46.1	2.287	3.072	13.0	22.6
2 21	12 15.65	− 2 5.7	2.208	3.086	10.0	22.4
3 2	12 9.44	− 1 12.5	2.153	3.099	6.6	22.2
3 12	12 1.99	− 0 10.3	2.126	3.111	2.8	22.0
3 22	11 53.99	+ 0 55.5	2.128	3.123	1.1	21.9
4 1	11 46.27	+ 1 59.0	2.160	3.135	4.9	22.2
4 11	11 39.58	+ 2 54.8	2.221	3.146	8.4	22.4
4 21	11 34.47	+ 3 38.8	2.306	3.156	11.4	22.6

198241 2004 TU_{204} 3 19.4 204.°92 0.°6/20.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.89	− 4 14.3	2.455	3.230	12.4	21.6
2 21	12 15.57	− 3 50.1	2.355	3.225	9.8	21.4
3 2	12 9.46	− 3 13.0	2.279	3.220	6.6	21.2
3 12	12 2.03	− 2 25.7	2.231	3.214	3.1	21.0
3 22	11 53.96	− 1 32.3	2.212	3.208	1.0	20.8
4 1	11 46.01	− 0 37.8	2.223	3.201	4.5	21.1
4 11	11 38.96	+ 0 12.4	2.263	3.193	8.0	21.3
4 21	11 33.38	+ 0 54.2	2.329	3.185	11.1	21.4

325297 2008 HF_{34} 3 19.4 228.°12 3.°0/22.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.75	−12 24.9	2.034	2.789	15.3	21.2
2 21	12 14.38	−11 56.7	1.933	2.783	12.5	21.0
3 2	12 8.90	−11 6.0	1.854	2.777	9.2	20.8
3 12	12 1.86	− 9 54.5	1.800	2.770	5.5	20.5
3 22	11 54.01	− 8 26.6	1.773	2.763	3.0	20.4
4 1	11 46.31	− 6 49.3	1.776	2.756	5.1	20.5
4 11	11 39.67	− 5 11.6	1.806	2.748	8.8	20.7
4 21	11 34.79	− 3 41.3	1.862	2.741	12.4	20.9

122348 2000 QT_{40} 3 19.4 281.°60 2.°1/21.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.81	− 5 54.5	1.857	2.640	15.6	19.8
2 21	12 17.85	− 6 4.2	1.750	2.621	12.5	19.6
3 2	12 11.42	− 5 58.4	1.664	2.602	8.8	19.3
3 12	12 3.05	− 5 38.2	1.603	2.583	4.7	19.0
3 22	11 53.57	− 5 6.7	1.570	2.564	2.1	18.8
4 1	11 44.08	− 4 29.0	1.564	2.544	5.6	19.0
4 11	11 35.73	− 3 51.6	1.585	2.525	10.0	19.2
4 21	11 29.37	− 3 20.2	1.630	2.505	14.0	19.4

501422 2013 YG_{133} 3 19.4 133.°58 2.°0/21.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.46	− 7 21.4	2.468	3.227	12.8	22.5
2 21	12 16.68	− 7 27.7	2.380	3.236	10.2	22.3
3 2	12 10.12	− 7 21.0	2.315	3.244	7.2	22.1
3 12	12 2.30	− 7 2.9	2.277	3.252	4.0	21.9
3 22	11 53.89	− 6 36.0	2.268	3.260	2.0	21.8
4 1	11 45.70	− 6 4.2	2.289	3.267	4.3	22.0
4 11	11 38.46	− 5 32.0	2.339	3.274	7.4	22.2
4 21	11 32.74	− 5 3.5	2.415	3.281	10.4	22.4

297810 2002 AC_{76} 3 19.4 188.°03 3.°9/24.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 18.68	−14 40.7	2.728	3.449	12.6	21.1
2 21	12 14.52	−14 53.9	2.627	3.449	10.5	21.0
3 2	12 8.71	−14 51.6	2.548	3.448	8.0	20.8
3 12	12 1.70	−14 33.8	2.495	3.447	5.6	20.6
3 22	11 54.10	−14 2.3	2.470	3.446	3.9	20.5
4 1	11 46.61	−13 20.3	2.474	3.444	4.7	20.6
4 11	11 39.93	−12 32.4	2.507	3.443	7.0	20.7
4 21	11 34.59	−11 43.5	2.566	3.441	9.5	20.9

69735 1998 KB_{7} 3 19.4 346.°98 2.°4/21.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.65	− 8 47.9	1.485	2.280	18.3	18.6
2 21	12 14.98	− 8 29.6	1.401	2.278	14.7	18.3
3 2	12 9.63	− 7 46.7	1.336	2.276	10.4	18.1
3 12	12 2.26	− 6 41.6	1.295	2.274	5.6	17.8
3 22	11 53.89	− 5 20.4	1.279	2.273	2.4	17.6
4 1	11 45.75	− 3 52.3	1.289	2.272	6.1	17.8
4 11	11 39.08	− 2 28.1	1.325	2.271	10.9	18.1
4 21	11 34.71	− 1 16.5	1.383	2.270	15.3	18.3

360285 2000 WD_{110} 3 19.4 210.°63 0.°2/19.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.65	− 1 5.4	2.096	2.883	13.9	21.3
2 21	12 19.60	− 0 44.0	1.997	2.875	10.9	21.1
3 2	12 12.31	− 0 10.3	1.921	2.867	7.2	20.8
3 12	12 3.34	+ 0 32.5	1.872	2.858	3.1	20.6
3 22	11 53.51	+ 1 19.5	1.853	2.848	1.3	20.4
4 1	11 43.81	+ 2 4.7	1.863	2.837	5.6	20.7
4 11	11 35.21	+ 2 42.8	1.902	2.826	9.6	20.9
4 21	11 28.46	+ 3 9.6	1.965	2.813	13.2	21.1

482299 2011 UH_{68} 3 19.4 252.°03 1.°2/18.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.96	+ 3 40.6	2.630	3.423	11.2	22.4
2 21	12 17.08	+ 3 52.6	2.524	3.408	8.7	22.2
3 2	12 10.42	+ 4 10.8	2.443	3.393	5.7	21.9
3 12	12 2.46	+ 4 32.2	2.391	3.377	2.5	21.7
3 22	11 53.83	+ 4 53.1	2.369	3.361	1.8	21.6
4 1	11 45.28	+ 5 9.7	2.377	3.345	5.1	21.8
4 11	11 37.57	+ 5 18.8	2.414	3.329	8.3	22.0
4 21	11 31.28	+ 5 18.3	2.477	3.312	11.2	22.2

184057 2004 FY_{130} 3 19.4 342.°23 8.°6/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.55	+17 49.2	1.487	2.332	15.7	19.8
2 21	12 17.22	+19 17.8	1.422	2.327	12.6	19.5
3 2	12 11.07	+20 46.0	1.380	2.323	9.8	19.4
3 12	12 2.85	+22 1.8	1.362	2.319	8.6	19.3
3 22	11 53.70	+22 54.8	1.369	2.316	10.0	19.4
4 1	11 44.97	+23 17.7	1.399	2.313	12.9	19.5
4 11	11 37.87	+23 8.5	1.451	2.311	16.2	19.7
4 21	11 33.23	+22 29.7	1.521	2.309	19.2	19.9

471168 2010 JU_{3} 3 19.4 246.°48 9.°1/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.48	−31 30.1	2.908	3.491	14.3	21.4
2 21	12 19.38	−32 46.8	2.792	3.479	13.1	21.3
3 2	12 12.19	−33 45.2	2.695	3.466	11.7	21.2
3 12	12 3.34	−34 21.5	2.620	3.453	10.3	21.0
3 22	11 53.49	−34 33.3	2.569	3.440	9.3	21.0
4 1	11 43.51	−34 20.4	2.543	3.426	9.1	20.9
4 11	11 34.32	−33 46.0	2.543	3.413	9.7	20.9
4 21	11 26.68	−32 55.4	2.567	3.398	11.0	21.0

414038 2007 RX_{86} 3 19.4 182.°47 0.°2/19.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.97	− 2 10.3	2.031	2.819	14.3	22.7
2 21	12 18.28	− 1 35.4	1.941	2.821	11.1	22.5
3 2	12 11.40	− 0 46.2	1.875	2.821	7.3	22.3
3 12	12 2.92	+ 0 13.2	1.835	2.821	3.2	22.0
3 22	11 53.68	+ 1 17.2	1.825	2.820	1.3	21.8
4 1	11 44.65	+ 2 19.1	1.844	2.818	5.6	22.1
4 11	11 36.79	+ 3 12.6	1.890	2.815	9.6	22.4
4 21	11 30.77	+ 3 53.1	1.961	2.812	13.1	22.6

393821 2005 SC_{29} 3 19.4 243.°65 1.°4/20.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.63	− 5 10.2	1.700	2.486	16.7	22.0
2 21	12 20.28	− 5 0.6	1.595	2.470	13.3	21.8
3 2	12 13.17	− 4 32.7	1.512	2.453	9.2	21.5
3 12	12 3.87	− 3 48.5	1.453	2.435	4.6	21.1
3 22	11 53.30	− 2 52.8	1.421	2.416	1.6	20.9
4 1	11 42.73	− 1 52.6	1.418	2.397	6.2	21.1
4 11	11 33.44	− 0 56.2	1.441	2.377	11.1	21.4
4 21	11 26.41	− 0 10.4	1.487	2.356	15.5	21.6

428808 2008 TA_{36} 3 19.4 219.°46 0.°6/19.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.21	− 2 50.5	2.156	2.941	13.6	22.1
2 21	12 16.85	− 2 42.1	2.061	2.937	10.7	21.9
3 2	12 10.43	− 2 21.2	1.990	2.933	7.2	21.7
3 12	12 2.51	− 1 50.6	1.945	2.929	3.3	21.4
3 22	11 53.84	− 1 14.3	1.928	2.924	1.0	21.2
4 1	11 45.34	− 0 37.2	1.941	2.919	5.0	21.5
4 11	11 37.87	− 0 4.5	1.982	2.914	8.8	21.7
4 21	11 32.12	+ 0 19.7	2.048	2.909	12.2	21.9

431805 2008 RN_6 3 19.4 218°.02 1°.3/20.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 18.03	− 7 44.9	2.325	3.093	13.3	22.1
2 21	12 14.30	− 7 5.6	2.222	3.086	10.6	21.9
3 2	12 8.71	− 6 9.0	2.143	3.078	7.3	21.6
3 12	12 1.76	− 4 57.7	2.090	3.070	3.7	21.4
3 22	11 54.12	− 3 36.7	2.067	3.061	1.4	21.2
4 1	11 46.59	− 2 12.2	2.073	3.052	4.6	21.4
4 11	11 39.98	− 0 51.3	2.109	3.043	8.2	21.6
4 21	11 34.90	+ 0 20.2	2.170	3.033	11.5	21.8

38840 2000 SH_{39} 3 19.4 167°.16 3°.6/15.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.48	+10 22.7	2.362	3.170	11.9	19.2
2 21	12 19.05	+11 0.3	2.284	3.175	9.1	19.0
3 2	12 11.69	+11 40.8	2.230	3.179	6.2	18.8
3 12	12 2.99	+12 18.9	2.204	3.182	3.8	18.7
3 22	11 53.71	+12 49.3	2.208	3.185	4.3	18.7
4 1	11 44.71	+13 7.8	2.242	3.187	6.9	18.9
4 11	11 36.81	+13 11.9	2.303	3.189	9.9	19.1
4 21	11 30.57	+13 0.9	2.388	3.191	12.6	19.3

464945 2005 US_{513} 3 19.4 134°.04 1°.5/17.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.66	+ 2 2.7	2.188	2.988	13.0	22.1
2 21	12 16.98	+ 2 44.9	2.112	3.000	9.9	22.0
3 2	12 10.37	+ 3 36.9	2.061	3.012	6.4	21.8
3 12	12 2.43	+ 4 33.7	2.038	3.024	2.7	21.5
3 22	11 53.91	+ 5 29.7	2.043	3.035	2.2	21.5
4 1	11 45.71	+ 6 19.1	2.079	3.046	5.7	21.8
4 11	11 38.61	+ 6 57.4	2.142	3.056	9.2	22.0
4 21	11 33.20	+ 7 21.8	2.229	3.065	12.2	22.2

222646 2001 XN_{169} 3 19.4 181°.51 4°.6/24.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.59	−15 20.5	2.172	2.901	15.2	20.6
2 21	12 16.45	−15 31.4	2.076	2.902	12.7	20.5
3 2	12 10.21	−15 22.2	2.000	2.902	9.8	20.3
3 12	12 2.44	−14 52.8	1.948	2.902	6.7	20.1
3 22	11 53.89	−14 5.3	1.924	2.902	4.7	19.9
4 1	11 45.49	−13 4.3	1.929	2.901	5.6	20.0
4 11	11 38.16	−11 56.6	1.960	2.900	8.4	20.2
4 21	11 32.57	−10 49.1	2.018	2.898	11.5	20.3

426871 2013 WQ_{21} 3 19.4 265°.51 1°.3/17.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.22	+ 0 17.4	2.019	2.827	13.6	20.8
2 21	12 13.91	+ 1 11.0	1.929	2.821	10.5	20.5
3 2	12 8.57	+ 2 18.4	1.862	2.815	6.8	20.3
3 12	12 1.73	+ 3 34.3	1.821	2.808	2.9	20.0
3 22	11 54.15	+ 4 52.1	1.809	2.802	2.2	20.0
4 1	11 46.74	+ 6 4.3	1.826	2.795	6.1	20.2
4 11	11 40.38	+ 7 4.4	1.869	2.789	10.0	20.4
4 21	11 35.73	+ 7 48.2	1.936	2.782	13.4	20.6

171596 1999 XN_{47} 3 19.4 125°.38 0°.9/18.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.56	+ 0 14.0	1.925	2.723	14.6	21.4
2 21	12 18.68	+ 0 48.9	1.852	2.738	11.2	21.2
3 2	12 11.60	+ 1 36.1	1.803	2.753	7.3	21.0
3 12	12 2.98	+ 2 30.5	1.780	2.766	3.0	20.8
3 22	11 53.73	+ 3 26.0	1.786	2.780	1.8	20.7
4 1	11 44.85	+ 4 16.2	1.821	2.792	5.9	21.0
4 11	11 37.27	+ 4 55.7	1.883	2.804	9.8	21.3
4 21	11 31.63	+ 5 21.3	1.969	2.816	13.2	21.5

506311 2017 OT_1 3 19.4 284°.54 1°.9/17.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.61	− 1 2.6	1.596	2.413	16.2	21.2
2 21	12 15.03	+ 0 14.6	1.489	2.387	12.6	20.9
3 2	12 9.81	+ 1 55.3	1.404	2.359	8.3	20.6
3 12	12 2.46	+ 3 53.4	1.344	2.332	3.5	20.2
3 22	11 53.84	+ 5 58.8	1.312	2.304	3.1	20.1
4 1	11 45.16	+ 7 59.0	1.307	2.276	8.2	20.3
4 11	11 37.68	+ 9 42.3	1.328	2.247	13.2	20.5
4 21	11 32.39	+11 0.7	1.370	2.219	17.8	20.7

305547 2008 SY_{256} 3 19.4 163°.82 4°.6/15.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.91	+ 9 22.2	1.679	2.501	15.3	21.1
2 21	12 20.92	+10 21.8	1.607	2.506	11.8	20.8
3 2	12 13.30	+11 27.9	1.558	2.510	7.9	20.6
3 12	12 3.79	+12 32.2	1.535	2.514	4.9	20.4
3 22	11 53.44	+13 26.0	1.540	2.517	5.6	20.5
4 1	11 43.48	+14 2.4	1.572	2.520	9.1	20.7
4 11	11 35.07	+14 17.2	1.629	2.521	12.9	20.9
4 21	11 28.96	+14 10.2	1.707	2.523	16.3	21.1

69704 1998 HS_{69} 3 19.4 56°.87 2°.4/17.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.48	+ 4 26.1	1.481	2.304	16.9	18.9
2 21	12 20.10	+ 4 47.6	1.410	2.310	13.0	18.6
3 2	12 12.89	+ 5 19.3	1.360	2.316	8.5	18.4
3 12	12 3.64	+ 5 55.0	1.335	2.322	3.8	18.1
3 22	11 53.49	+ 6 27.7	1.337	2.328	3.3	18.1
4 1	11 43.78	+ 6 50.4	1.365	2.334	7.8	18.4
4 11	11 35.75	+ 6 58.4	1.418	2.341	12.3	18.6
4 21	11 30.19	+ 6 49.8	1.492	2.347	16.2	18.9

109448 2001 QC_{206} 3 19.4 56°.03 2°.5/21.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.49	− 6 25.5	1.576	2.366	17.6	19.2
2 21	12 19.14	− 6 42.6	1.507	2.380	14.0	19.0
3 2	12 12.16	− 6 41.7	1.457	2.395	9.8	18.8
3 12	12 3.30	− 6 24.7	1.432	2.411	5.3	18.5
3 22	11 53.63	− 5 55.6	1.433	2.426	2.5	18.4
4 1	11 44.40	− 5 20.4	1.461	2.442	5.8	18.6
4 11	11 36.74	− 4 46.1	1.515	2.458	10.1	18.9
4 21	11 31.40	− 4 18.5	1.592	2.474	14.0	19.2

207073 2004 XR_{126} 3 19.4 151°.21 7°.1/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.81	+17 0.6	1.924	2.748	13.6	20.5
2 21	12 19.76	+18 35.9	1.864	2.758	10.7	20.3
3 2	12 12.36	+20 10.6	1.829	2.767	8.2	20.2
3 12	12 3.33	+21 35.0	1.821	2.775	7.1	20.1
3 22	11 53.63	+22 40.5	1.841	2.783	8.2	20.2
4 1	11 44.34	+23 21.2	1.887	2.790	10.7	20.4
4 11	11 36.45	+23 35.3	1.958	2.796	13.5	20.6
4 21	11 30.63	+23 24.1	2.048	2.802	16.0	20.8

378352 2007 JC_9 3 19.4 224°.27 6°.3/12.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.97	+18 53.7	2.302	3.118	11.9	20.8
2 21	12 18.87	+19 53.4	2.222	3.110	9.5	20.6
3 2	12 11.71	+20 51.0	2.168	3.101	7.3	20.5
3 12	12 3.05	+21 39.4	2.140	3.092	6.3	20.4
3 22	11 53.72	+22 12.1	2.141	3.083	7.3	20.4
4 1	11 44.62	+22 24.9	2.169	3.073	9.5	20.5
4 11	11 36.65	+22 16.0	2.223	3.063	12.0	20.7
4 21	11 30.45	+21 46.5	2.297	3.052	14.4	20.8

177110 2003 GZ_5 3 19.4 325°.28 4°.1/15.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.99	+11 45.6	2.141	2.963	12.5	19.4
2 21	12 16.68	+12 16.7	2.056	2.954	9.6	19.1
3 2	12 10.31	+12 49.9	1.996	2.946	6.6	18.9
3 12	12 2.46	+13 19.6	1.962	2.938	4.3	18.8
3 22	11 53.92	+13 40.4	1.956	2.931	4.9	18.8
4 1	11 45.61	+13 47.7	1.978	2.924	7.7	19.0
4 11	11 38.40	+13 39.0	2.026	2.917	10.8	19.1
4 21	11 32.93	+13 14.0	2.097	2.910	13.7	19.3

272875 2006 BJ_{85} 3 19.4 264°.50 0°.3/19.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.11	− 0 49.0	1.977	2.777	14.2	21.3
2 21	12 16.20	− 0 28.5	1.884	2.770	11.0	21.1
3 2	12 10.11	+ 0 4.7	1.815	2.764	7.3	20.8
3 12	12 2.42	+ 0 46.9	1.772	2.758	3.1	20.6
3 22	11 53.93	+ 1 32.8	1.757	2.752	1.3	20.4
4 1	11 45.60	+ 2 16.7	1.770	2.745	5.6	20.7
4 11	11 38.39	+ 2 52.8	1.810	2.739	9.7	20.9
4 21	11 33.01	+ 3 17.1	1.874	2.733	13.3	21.1

501156 2013 TU_{73} 3 19.4 215°.32 1°.4/20.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.81	− 6 42.1	2.563	3.324	12.4	22.8
2 21	12 16.28	− 6 23.1	2.455	3.314	9.8	22.6
3 2	12 9.96	− 5 50.2	2.371	3.304	6.8	22.4
3 12	12 2.31	− 5 5.5	2.314	3.293	3.5	22.1
3 22	11 53.97	− 4 12.4	2.287	3.281	1.4	22.0
4 1	11 45.72	− 3 15.7	2.290	3.268	4.3	22.2
4 11	11 38.30	− 2 20.6	2.323	3.255	7.7	22.3
4 21	11 32.32	− 1 32.0	2.382	3.241	10.8	22.5

159792 2003 QG_{63} 3 19.4 229°.98 3°.9/16.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.83	+12 21.1	2.290	3.093	12.4	20.2
2 21	12 22.57	+12 36.6	2.198	3.085	9.6	20.0
3 2	12 14.13	+12 52.6	2.130	3.076	6.6	19.8
3 12	12 4.12	+13 4.1	2.091	3.067	4.2	19.6
3 22	11 53.37	+13 6.4	2.082	3.058	4.5	19.6
4 1	11 42.85	+12 56.0	2.103	3.049	7.3	19.8
4 11	11 33.50	+12 31.1	2.152	3.039	10.5	19.9
4 21	11 25.99	+11 52.2	2.225	3.028	13.4	20.1

61567 2000 QW_{76} 3 19.4 102°.65 0°.7/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.19	− 3 47.3	2.564	3.341	11.9	19.9
2 21	12 14.83	− 3 32.3	2.485	3.356	9.3	19.7
3 2	12 8.85	− 3 6.3	2.430	3.371	6.3	19.6
3 12	12 1.77	− 2 31.9	2.402	3.385	2.9	19.4
3 22	11 54.22	− 1 52.7	2.404	3.400	0.9	19.2
4 1	11 46.91	− 1 13.0	2.436	3.414	4.1	19.5
4 11	11 40.51	− 0 37.1	2.497	3.428	7.3	19.7
4 21	11 35.52	− 0 8.3	2.583	3.441	10.1	19.9

366400 2001 RR_{97} 3 19.4 184°.00 0°.6/20.1 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.89	− 4 35.3	2.450	3.222	12.6	23.1
2 21	12 16.33	− 4 5.1	2.355	3.223	9.9	22.9
3 2	12 9.97	− 3 21.5	2.283	3.223	6.7	22.7
3 12	12 2.31	− 2 27.4	2.239	3.222	3.1	22.5
3 22	11 54.02	− 1 27.1	2.225	3.220	0.9	22.3
4 1	11 45.90	− 0 26.2	2.241	3.218	4.5	22.6
4 11	11 38.70	+ 0 30.0	2.286	3.215	8.0	22.8
4 21	11 33.01	+ 1 17.1	2.358	3.211	11.1	23.0

22486 1997 GZ_{22} 3 19.4 64°.28 0°.7/20.1 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 17.71	− 5 1.2	1.928	2.719	14.8	18.9
2 21	12 14.32	− 4 28.5	1.846	2.725	11.6	18.7
3 2	12 8.83	− 3 38.8	1.786	2.730	7.8	18.5
3 12	12 1.85	− 2 36.0	1.752	2.736	3.7	18.2
3 22	11 54.19	− 1 25.8	1.746	2.742	1.1	18.1
4 1	11 46.78	− 0 15.4	1.768	2.747	5.2	18.4
4 11	11 40.53	+ 0 48.3	1.818	2.753	9.2	18.6
4 21	11 36.06	+ 1 39.9	1.891	2.759	12.7	18.8

235622 2004 RU_{12} 3 19.4 193°.50 4°.6/13.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.58	+13 30.3	2.630	3.444	10.6	21.2
2 21	12 16.00	+14 46.9	2.549	3.442	8.2	21.0
3 2	12 9.70	+16 5.8	2.495	3.439	5.9	20.8
3 12	12 2.18	+17 20.7	2.469	3.435	4.6	20.7
3 22	11 54.08	+18 25.5	2.474	3.430	5.5	20.8
4 1	11 46.16	+19 15.1	2.507	3.425	7.7	20.9
4 11	11 39.13	+19 46.5	2.567	3.418	10.2	21.1
4 21	11 33.53	+19 59.1	2.649	3.412	12.5	21.2

422729 2001 NC_{15} 3 19.4 203°.56 1°.5/21.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.24	− 6 36.7	2.652	3.406	12.2	22.3
2 21	12 18.07	− 6 28.7	2.545	3.400	9.7	22.1
3 2	12 11.11	− 6 8.1	2.462	3.393	6.8	21.9
3 12	12 2.82	− 5 36.5	2.407	3.385	3.6	21.7
3 22	11 53.85	− 4 56.9	2.382	3.375	1.5	21.5
4 1	11 44.98	− 4 13.3	2.388	3.366	4.2	21.7
4 11	11 36.95	− 3 30.5	2.424	3.355	7.5	21.9
4 21	11 30.36	− 2 52.6	2.486	3.343	10.4	22.1

386564 2009 DK_{91} 3 19.4 333°.68 0°.6/18.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 15.00	− 1 38.0	1.998	2.805	13.8	20.9
2 21	12 12.25	− 0 49.8	1.908	2.798	10.7	20.7
3 2	12 7.51	+ 0 13.6	1.840	2.792	7.0	20.5
3 12	12 1.31	+ 1 27.4	1.799	2.786	2.9	20.2
3 22	11 54.41	+ 2 45.3	1.786	2.780	1.6	20.1
4 1	11 47.67	+ 3 59.7	1.801	2.775	5.7	20.4
4 11	11 41.95	+ 5 4.0	1.843	2.770	9.6	20.6
4 21	11 37.90	+ 5 53.2	1.908	2.766	13.1	20.8

298874 2004 SP_{15} 3 19.4 169°.76 3°.6/16.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.54	+ 6 15.5	1.764	2.582	14.8	21.2
2 21	12 19.01	+ 7 18.3	1.687	2.586	11.4	21.0
3 2	12 12.04	+ 8 30.8	1.634	2.589	7.5	20.8
3 12	12 3.29	+ 9 45.3	1.608	2.591	4.1	20.6
3 22	11 53.73	+10 53.4	1.610	2.593	4.5	20.6
4 1	11 44.49	+11 47.5	1.639	2.594	8.2	20.8
4 11	11 36.64	+12 22.4	1.694	2.595	12.0	21.0
4 21	11 30.91	+12 36.2	1.772	2.595	15.5	21.3

62134 2000 SJ_{5} 3 19.4 209°.74 0°.2/19.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.13	− 1 21.4	2.668	3.450	11.4	20.2
2 21	12 15.62	− 1 13.1	2.571	3.446	8.9	20.0
3 2	12 9.45	− 0 55.7	2.498	3.442	5.9	19.8
3 12	12 2.09	− 0 31.8	2.453	3.438	2.6	19.6
3 22	11 54.16	− 0 4.4	2.438	3.433	0.9	19.5
4 1	11 46.35	+ 0 22.7	2.453	3.429	4.3	19.7
4 11	11 39.37	+ 0 45.6	2.497	3.424	7.5	19.9
4 21	11 33.76	+ 1 1.6	2.566	3.418	10.3	20.1

183567 2003 OZ_{10} 3 19.4 180°.95 2°.0/17.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.78	+ 3 19.9	2.067	2.869	13.6	21.3
2 21	12 18.87	+ 4 4.9	1.982	2.871	10.4	21.1
3 2	12 11.79	+ 4 59.9	1.920	2.872	6.8	20.9
3 12	12 3.16	+ 5 59.5	1.886	2.872	3.1	20.7
3 22	11 53.79	+ 6 57.5	1.882	2.871	2.8	20.7
4 1	11 44.65	+ 7 47.5	1.906	2.870	6.5	20.9
4 11	11 36.69	+ 8 24.4	1.958	2.868	10.2	21.1
4 21	11 30.56	+ 8 45.6	2.034	2.865	13.5	21.3

61950 2000 RQ_{16} 3 19.4 127°.26 3°.4/23.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.95	−13 2.3	2.726	3.454	12.5	19.7
2 21	12 15.44	−13 15.6	2.636	3.464	10.3	19.6
3 2	12 9.31	−13 14.3	2.567	3.474	7.7	19.4
3 12	12 2.02	−12 58.9	2.525	3.483	5.1	19.2
3 22	11 54.20	−12 31.2	2.512	3.492	3.5	19.2
4 1	11 46.55	−11 54.5	2.529	3.501	4.4	19.2
4 11	11 39.75	−11 13.3	2.574	3.510	6.8	19.4
4 21	11 34.33	−10 32.2	2.645	3.518	9.4	19.6

221895 2008 JA_{36} 3 19.4 103°.71 1°.6/17.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.15	+ 1 40.3	1.811	2.623	14.8	21.1
2 21	12 16.32	+ 2 23.7	1.734	2.628	11.3	20.9
3 2	12 10.22	+ 3 19.5	1.679	2.633	7.3	20.7
3 12	12 2.49	+ 4 22.1	1.651	2.638	3.1	20.4
3 22	11 54.03	+ 5 24.5	1.650	2.642	2.5	20.4
4 1	11 45.87	+ 6 19.4	1.677	2.647	6.6	20.6
4 11	11 38.98	+ 7 1.0	1.731	2.651	10.6	20.9
4 21	11 34.04	+ 7 26.1	1.807	2.656	14.1	21.1

381442 2008 QH_{30} 3 19.4 203°.49 3°.1/22.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 19.66	−11 50.0	2.338	3.083	13.9	21.3
2 21	12 15.59	−11 45.2	2.237	3.079	11.3	21.1
3 2	12 9.60	−11 22.8	2.158	3.075	8.4	20.9
3 12	12 2.22	−10 43.9	2.105	3.071	5.2	20.7
3 22	11 54.12	− 9 51.4	2.079	3.066	3.1	20.5
4 1	11 46.14	− 8 49.9	2.083	3.061	4.7	20.6
4 11	11 39.11	− 7 45.7	2.116	3.055	7.9	20.8
4 21	11 33.64	− 6 44.7	2.174	3.049	11.0	21.0

52729 1998 GZ_{9} 3 19.4 241°.61 5°.4/12.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.17	+15 34.0	2.362	3.187	11.3	19.1
2 21	12 14.35	+16 45.8	2.288	3.185	8.9	18.9
3 2	12 8.71	+17 58.2	2.240	3.182	6.6	18.8
3 12	12 1.79	+19 4.3	2.219	3.180	5.4	18.7
3 22	11 54.29	+19 57.9	2.226	3.178	6.4	18.7
4 1	11 47.01	+20 34.0	2.261	3.175	8.6	18.9
4 11	11 40.72	+20 50.0	2.321	3.173	11.2	19.0
4 21	11 35.97	+20 45.9	2.402	3.170	13.5	19.2

142217 2002 RG_{70} 3 19.4 211°.16 2°.3/21.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.88	− 9 14.6	2.080	2.842	14.8	21.1
2 21	12 16.78	− 8 56.2	1.979	2.836	11.9	20.9
3 2	12 10.53	− 8 18.9	1.900	2.830	8.5	20.6
3 12	12 2.67	− 7 24.7	1.847	2.823	4.8	20.4
3 22	11 53.98	− 6 17.6	1.823	2.815	2.3	20.2
4 1	11 45.41	− 5 3.9	1.827	2.807	5.0	20.4
4 11	11 37.90	− 3 51.0	1.860	2.798	8.9	20.6
4 21	11 32.17	− 2 45.5	1.917	2.788	12.4	20.8

168056 2006 BD_{157} 3 19.4 305°.80 1°.1/18.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.31	+ 0 54.9	1.404	2.226	17.7	20.2
2 21	12 18.83	+ 1 12.0	1.319	2.218	13.8	19.9
3 2	12 12.36	+ 1 44.1	1.256	2.210	9.1	19.6
3 12	12 3.60	+ 2 26.3	1.215	2.203	3.9	19.3
3 22	11 53.64	+ 3 11.5	1.201	2.196	2.2	19.2
4 1	11 43.91	+ 3 51.4	1.213	2.188	7.6	19.5
4 11	11 35.78	+ 4 18.7	1.248	2.182	12.7	19.7
4 21	11 30.21	+ 4 29.2	1.305	2.175	17.2	20.0

165263 2000 SN_{228} 3 19.4 136°.44 0°.5/19.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.96	− 4 9.1	1.813	2.601	15.7	21.1
2 21	12 18.47	− 3 39.2	1.734	2.612	12.3	20.9
3 2	12 11.62	− 2 52.5	1.678	2.622	8.2	20.7
3 12	12 3.11	− 1 52.9	1.648	2.632	3.7	20.4
3 22	11 53.85	− 0 46.6	1.646	2.641	1.1	20.3
4 1	11 44.93	+ 0 19.0	1.673	2.650	5.6	20.6
4 11	11 37.34	+ 1 16.7	1.726	2.658	9.9	20.8
4 21	11 31.79	+ 2 1.5	1.804	2.666	13.5	21.1

118780 2000 RM_{79} 3 19.4 200°.66 1°.3/20.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.92	− 6 26.9	1.993	2.774	14.7	20.4
2 21	12 15.28	− 6 0.0	1.902	2.773	11.7	20.2
3 2	12 9.52	− 5 15.5	1.832	2.772	8.0	20.0
3 12	12 2.22	− 4 16.4	1.789	2.770	4.0	19.7
3 22	11 54.15	− 3 7.7	1.773	2.768	1.4	19.5
4 1	11 46.27	− 1 56.2	1.786	2.766	5.1	19.8
4 11	11 39.49	− 0 49.3	1.827	2.764	9.1	20.0
4 21	11 34.50	+ 0 7.3	1.892	2.761	12.7	20.2

480450 2015 KO_{156} 3 19.4 257°.51 6°.8/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.57	+20 45.7	2.595	3.419	10.4	21.4
2 21	12 13.14	+22 41.0	2.519	3.407	8.5	21.3
3 2	12 7.96	+24 35.4	2.471	3.394	7.1	21.1
3 12	12 1.51	+26 20.7	2.451	3.381	6.9	21.1
3 22	11 54.40	+27 49.5	2.459	3.368	8.1	21.2
4 1	11 47.39	+28 56.5	2.494	3.355	10.1	21.3
4 11	11 41.23	+29 39.0	2.553	3.341	12.2	21.4
4 21	11 36.50	+29 57.1	2.631	3.328	14.1	21.5

343497 2010 EB_{104} 3 19.4 279°.78 2°.6/16.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.96	+ 6 55.9	2.177	2.987	12.7	20.8
2 21	12 17.46	+ 7 18.4	2.082	2.976	9.7	20.6
3 2	12 10.90	+ 7 46.5	2.011	2.964	6.4	20.4
3 12	12 2.80	+ 8 15.6	1.968	2.952	3.3	20.1
3 22	11 53.95	+ 8 40.6	1.953	2.940	3.3	20.1
4 1	11 45.24	+ 8 56.9	1.967	2.928	6.6	20.3
4 11	11 37.57	+ 9 0.9	2.008	2.916	10.1	20.5
4 21	11 31.62	+ 8 51.1	2.072	2.904	13.2	20.7

198891 2005 TF_{90} 3 19.4 85°.17 16°.9/ 3.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 35.75	+42 8.8	1.501	2.285	18.6	19.5
2 21	12 29.15	+44 27.8	1.499	2.312	17.4	19.5
3 2	12 18.82	+46 15.5	1.517	2.339	16.9	19.5
3 12	12 6.12	+47 19.3	1.554	2.366	17.2	19.6
3 22	11 52.92	+47 33.8	1.610	2.392	18.1	19.8
4 1	11 41.10	+47 0.2	1.683	2.417	19.3	19.9
4 11	11 32.07	+45 45.9	1.771	2.442	20.6	20.1
4 21	11 26.42	+44 0.5	1.872	2.467	21.7	20.3

473747 2016 EZ_{10} 3 19.4 187°.77 6°.2/13.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 26.37	+16 54.3	2.058	2.875	13.1	20.7
2 21	12 20.90	+17 50.9	1.984	2.875	10.3	20.5
3 2	12 13.14	+18 46.4	1.935	2.874	7.7	20.4
3 12	12 3.75	+19 33.1	1.912	2.873	6.2	20.3
3 22	11 53.66	+20 4.1	1.918	2.871	7.1	20.3
4 1	11 43.90	+20 14.8	1.951	2.869	9.6	20.5
4 11	11 35.46	+20 3.4	2.009	2.866	12.5	20.6
4 21	11 29.01	+19 31.3	2.089	2.862	15.1	20.8

8363 1990 RV 3 19.4 51°.23 1°.2/18.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.12	+ 1 10.9	1.997	2.806	13.7	17.2
2 21	12 14.48	+ 1 48.4	1.926	2.819	10.5	17.0
3 2	12 8.86	+ 2 36.8	1.878	2.831	6.8	16.8
3 12	12 1.88	+ 3 31.3	1.857	2.844	2.8	16.6
3 22	11 54.32	+ 4 25.9	1.864	2.858	2.0	16.6
4 1	11 47.08	+ 5 14.4	1.900	2.871	5.8	16.8
4 11	11 40.98	+ 5 52.0	1.962	2.885	9.4	17.1
4 21	11 36.60	+ 6 15.5	2.048	2.898	12.6	17.3

171526 1999 HO_7 3 19.4 118°.90 3°.3/15.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.43	+ 9 56.6	2.452	3.264	11.4	20.4
2 21	12 16.64	+10 33.0	2.380	3.273	8.7	20.3
3 2	12 10.10	+11 12.4	2.332	3.283	5.8	20.1
3 12	12 2.37	+11 49.7	2.313	3.292	3.5	19.9
3 22	11 54.15	+12 20.0	2.323	3.301	4.0	20.0
4 1	11 46.22	+12 39.5	2.362	3.310	6.5	20.2
4 11	11 39.30	+12 45.5	2.429	3.318	9.3	20.4
4 21	11 33.91	+12 37.5	2.519	3.327	11.9	20.5

13408 Deadoklestic 3 19.4 154°.71 1°.5/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.64	+ 2 0.5	2.005	2.806	14.0	19.3
2 21	12 18.77	+ 2 38.6	1.926	2.814	10.7	19.1
3 2	12 11.73	+ 3 27.5	1.870	2.821	7.0	18.9
3 12	12 3.14	+ 4 22.0	1.841	2.827	3.0	18.7
3 22	11 53.87	+ 5 16.1	1.841	2.833	2.3	18.6
4 1	11 44.90	+ 6 3.5	1.871	2.839	6.2	18.9
4 11	11 37.15	+ 6 39.2	1.927	2.843	10.0	19.1
4 21	11 31.28	+ 7 0.2	2.008	2.847	13.3	19.4

104756 2000 HW_{15} 3 19.4 282°.58 1°.7/17.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.19	+ 2 24.6	1.723	2.539	15.3	19.9
2 21	12 17.42	+ 2 53.9	1.634	2.530	11.8	19.7
3 2	12 11.15	+ 3 35.3	1.566	2.520	7.7	19.4
3 12	12 3.00	+ 4 23.5	1.524	2.511	3.4	19.1
3 22	11 53.90	+ 5 12.2	1.510	2.502	2.6	19.1
4 1	11 44.97	+ 5 54.0	1.522	2.493	7.0	19.3
4 11	11 37.33	+ 6 23.2	1.561	2.484	11.4	19.5
4 21	11 31.80	+ 6 36.2	1.621	2.475	15.2	19.8

136466 2005 EO_{271} 3 19.4 205°.31 0°.3/19.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.86	− 4 8.3	2.043	2.828	14.3	20.8
2 21	12 16.75	− 3 28.7	1.947	2.823	11.2	20.6
3 2	12 10.50	− 2 32.6	1.874	2.818	7.5	20.4
3 12	12 2.66	− 1 23.7	1.827	2.812	3.4	20.1
3 22	11 54.03	− 0 7.8	1.810	2.806	1.1	19.9
4 1	11 45.54	+ 1 8.0	1.822	2.799	5.4	20.2
4 11	11 38.14	+ 2 16.4	1.862	2.791	9.4	20.4
4 21	11 32.52	+ 3 12.0	1.926	2.782	13.0	20.6

114754 2003 HX_{42} 3 19.4 273°.53 5°.0/24.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.46	−14 57.0	1.949	2.691	16.3	20.0
2 21	12 15.94	−15 15.1	1.849	2.683	13.7	19.8
3 2	12 10.12	−15 11.9	1.769	2.675	10.5	19.5
3 12	12 2.55	−14 46.8	1.712	2.668	7.3	19.3
3 22	11 54.05	−14 1.4	1.681	2.660	5.1	19.2
4 1	11 45.64	−13 0.6	1.678	2.652	6.1	19.2
4 11	11 38.34	−11 51.7	1.701	2.644	9.2	19.4
4 21	11 32.95	−10 42.7	1.749	2.636	12.6	19.6

511770 2015 DP_{213} 3 19.4 229°.80 9°.9/ 5.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 30.51	+38 19.2	2.755	3.518	11.5	21.4
2 21	12 23.73	+39 20.1	2.700	3.512	10.5	21.4
3 2	12 14.78	+40 6.5	2.668	3.505	10.0	21.3
3 12	12 4.40	+40 31.5	2.661	3.498	10.1	21.3
3 22	11 53.48	+40 30.4	2.679	3.490	10.8	21.3
4 1	11 43.04	+40 1.5	2.720	3.483	12.0	21.4
4 11	11 33.99	+39 6.4	2.782	3.475	13.4	21.5
4 21	11 26.90	+37 48.9	2.862	3.467	14.6	21.6

96976 1999 TG_{197} 3 19.4 130°.76 1°.3/18.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.42	+ 2 25.5	2.021	2.826	13.7	19.5
2 21	12 17.10	+ 2 47.6	1.937	2.828	10.5	19.3
3 2	12 10.66	+ 3 19.1	1.877	2.829	6.9	19.0
3 12	12 2.71	+ 3 55.7	1.844	2.831	2.9	18.8
3 22	11 54.05	+ 4 32.4	1.839	2.832	2.1	18.7
4 1	11 45.63	+ 5 3.6	1.863	2.833	5.9	19.0
4 11	11 38.37	+ 5 24.9	1.914	2.835	9.7	19.2
4 21	11 32.92	+ 5 33.5	1.988	2.836	13.0	19.4

100895 1998 HN_{146} 3 19.4 295°.79 1°.1/20.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 14.32	− 8 18.7	2.261	3.036	13.4	20.0
2 21	12 11.58	− 7 22.3	2.154	3.022	10.7	19.7
3 2	12 7.04	− 6 6.0	2.070	3.008	7.4	19.5
3 12	12 1.15	− 4 33.2	2.013	2.994	3.7	19.2
3 22	11 54.58	− 2 49.3	1.985	2.980	1.2	19.0
4 1	11 48.09	− 1 2.0	1.987	2.966	4.7	19.3
4 11	11 42.47	+ 0 40.6	2.017	2.953	8.4	19.5
4 21	11 38.33	+ 2 11.7	2.073	2.939	11.9	19.6

425172 2009 UQ_3 3 19.4 140°.95 4°.3/14.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.30	+10 5.3	2.034	2.855	13.0	21.3
2 21	12 16.96	+11 8.6	1.962	2.861	10.0	21.1
3 2	12 10.53	+12 16.7	1.915	2.867	6.8	20.9
3 12	12 2.63	+13 22.4	1.896	2.873	4.5	20.8
3 22	11 54.10	+14 18.6	1.905	2.878	5.2	20.8
4 1	11 45.88	+14 59.4	1.941	2.883	8.1	21.0
4 11	11 38.85	+15 21.4	2.004	2.888	11.3	21.2
4 21	11 33.63	+15 23.8	2.089	2.893	14.1	21.4

68263 2001 EW_{12} 3 19.4 162°.81 1°.4/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.85	+ 1 16.6	2.071	2.869	13.7	20.5
2 21	12 18.12	+ 2 4.8	1.989	2.876	10.5	20.3
3 2	12 11.29	+ 3 4.6	1.931	2.882	6.8	20.0
3 12	12 2.97	+ 4 10.9	1.901	2.887	2.9	19.8
3 22	11 53.97	+ 5 17.2	1.900	2.892	2.3	19.8
4 1	11 45.24	+ 6 16.9	1.928	2.895	6.1	20.0
4 11	11 37.67	+ 7 4.5	1.984	2.898	9.8	20.2
4 21	11 31.90	+ 7 36.8	2.064	2.901	13.1	20.5

422505 2014 TX_3 3 19.4 236°.92 0°.1/19.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.59	− 2 35.2	1.829	2.625	15.3	22.4
2 21	12 17.65	− 2 1.4	1.730	2.614	12.0	22.2
3 2	12 11.30	− 1 10.9	1.654	2.602	8.0	21.9
3 12	12 3.10	− 0 7.7	1.604	2.590	3.5	21.6
3 22	11 53.91	+ 1 2.2	1.582	2.577	1.3	21.4
4 1	11 44.82	+ 2 11.1	1.588	2.564	6.1	21.7
4 11	11 36.93	+ 3 11.2	1.621	2.550	10.6	22.0
4 21	11 31.03	+ 3 57.0	1.677	2.536	14.5	22.2

165432 2000 YA_{72} 3 19.4 71°.11 2°.8/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.32	+ 3 52.9	1.434	2.259	17.3	20.2
2 21	12 19.81	+ 4 45.1	1.382	2.283	13.1	20.0
3 2	12 12.58	+ 5 48.9	1.352	2.308	8.5	19.8
3 12	12 3.52	+ 6 56.0	1.346	2.332	3.9	19.5
3 22	11 53.83	+ 7 57.5	1.368	2.357	3.8	19.6
4 1	11 44.79	+ 8 45.2	1.416	2.381	8.1	19.9
4 11	11 37.53	+ 9 14.2	1.488	2.405	12.3	20.2
4 21	11 32.69	+ 9 22.8	1.582	2.429	15.9	20.5

487587 2015 FY_{333} 3 19.4 3°.58 10°.0/10.5 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.49	+25 8.7	1.649	2.482	15.0	20.3
2 21	12 18.47	+26 14.5	1.594	2.482	12.6	20.1
3 2	12 11.77	+27 10.7	1.560	2.482	10.6	20.0
3 12	12 3.21	+27 47.2	1.551	2.484	10.0	20.0
3 22	11 53.93	+27 56.4	1.566	2.486	11.1	20.0
4 1	11 45.19	+27 34.6	1.604	2.490	13.3	20.2
4 11	11 38.12	+26 42.9	1.663	2.494	15.8	20.4
4 21	11 33.39	+25 25.5	1.741	2.499	18.2	20.5

22658 1998 QQ_8 3 19.4 180°.63 2°.8/16.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.08	+ 5 39.8	2.191	3.005	12.5	18.4
2 21	12 15.16	+ 6 36.8	2.109	3.005	9.5	18.2
3 2	12 9.33	+ 7 41.9	2.052	3.006	6.2	18.0
3 12	12 2.12	+ 8 49.4	2.022	3.006	3.2	17.8
3 22	11 54.29	+ 9 52.7	2.021	3.006	3.6	17.9
4 1	11 46.67	+10 45.8	2.049	3.005	6.7	18.1
4 11	11 40.08	+11 24.2	2.104	3.004	10.0	18.3
4 21	11 35.11	+11 45.6	2.182	3.004	13.0	18.4

103178 1999 XL_{235} 3 19.4 193°.77 3°.6/16.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.09	+ 6 43.7	1.799	2.613	14.8	21.4
2 21	12 21.05	+ 7 40.1	1.716	2.611	11.4	21.2
3 2	12 13.47	+ 8 45.6	1.655	2.608	7.5	20.9
3 12	12 4.01	+ 9 53.1	1.622	2.605	4.1	20.7
3 22	11 53.63	+10 54.3	1.617	2.600	4.5	20.7
4 1	11 43.52	+11 41.9	1.640	2.595	8.2	20.9
4 11	11 34.78	+12 10.8	1.690	2.589	12.2	21.1
4 21	11 28.21	+12 19.2	1.761	2.582	15.7	21.3

421226 2013 SR_{38} 3 19.4 127°.02 2°.0/17.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.76	+ 3 57.4	1.951	2.762	13.9	21.6
2 21	12 17.43	+ 4 28.7	1.871	2.765	10.7	21.3
3 2	12 10.91	+ 5 8.9	1.815	2.769	6.9	21.1
3 12	12 2.84	+ 5 53.0	1.786	2.772	3.1	20.9
3 22	11 54.06	+ 6 34.9	1.784	2.775	2.8	20.9
4 1	11 45.56	+ 7 9.1	1.812	2.778	6.5	21.1
4 11	11 38.28	+ 7 30.9	1.865	2.781	10.3	21.3
4 21	11 32.87	+ 7 38.0	1.942	2.784	13.6	21.5

299563 2006 DS_{190} 3 19.4 82°.59 2°.4/17.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 28.78	+ 4 52.4	1.454	2.272	17.5	20.9
2 21	12 23.30	+ 5 11.1	1.394	2.291	13.4	20.7
3 2	12 14.93	+ 5 39.0	1.356	2.311	8.7	20.5
3 12	12 4.58	+ 6 9.6	1.344	2.330	3.9	20.2
3 22	11 53.49	+ 6 36.1	1.358	2.349	3.3	20.2
4 1	11 43.06	+ 6 52.2	1.399	2.368	7.7	20.6
4 11	11 34.50	+ 6 54.0	1.466	2.386	12.2	20.8
4 21	11 28.54	+ 6 40.3	1.554	2.405	15.9	21.1

106621 2000 WM_{124} 3 19.4 158°.53 14°.1/31.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.52	−30 53.3	1.421	2.083	24.6	20.1
2 21	12 23.57	−32 28.0	1.341	2.089	22.3	19.9
3 2	12 15.96	−33 28.3	1.275	2.094	19.7	19.7
3 12	12 5.37	−33 45.4	1.225	2.098	17.0	19.6
3 22	11 53.11	−33 13.7	1.194	2.102	14.9	19.4
4 1	11 41.02	−31 54.7	1.184	2.105	14.1	19.4
4 11	11 30.93	−29 59.0	1.196	2.107	15.1	19.4
4 21	11 24.06	−27 42.2	1.230	2.109	17.4	19.6

423488 2005 TJ_{59} 3 19.4 187°.21 4°.0/15.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.76	+11 44.4	2.334	3.142	12.0	22.2
2 21	12 20.16	+12 23.5	2.251	3.141	9.3	22.0
3 2	12 12.55	+13 4.8	2.193	3.140	6.4	21.8
3 12	12 3.52	+13 42.6	2.164	3.139	4.2	21.6
3 22	11 53.84	+14 11.4	2.164	3.136	4.7	21.7
4 1	11 44.41	+14 27.0	2.193	3.133	7.4	21.8
4 11	11 36.10	+14 26.9	2.250	3.130	10.3	22.0
4 21	11 29.50	+14 10.7	2.330	3.126	13.1	22.2

365220 2009 HX_{80} 3 19.4 355°.89 1°.7/18.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.04	+ 1 27.4	1.413	2.241	17.4	21.0
2 21	12 16.94	+ 2 3.1	1.337	2.239	13.4	20.8
3 2	12 11.03	+ 2 54.4	1.281	2.238	8.8	20.5
3 12	12 3.02	+ 3 54.9	1.249	2.237	3.8	20.2
3 22	11 54.00	+ 4 56.2	1.243	2.236	2.8	20.1
4 1	11 45.30	+ 5 49.3	1.263	2.236	7.7	20.4
4 11	11 38.17	+ 6 26.8	1.307	2.237	12.6	20.7
4 21	11 33.48	+ 6 44.8	1.372	2.238	16.8	20.9

120417 6264 $P–L$ 3 19.4 236°.25 0°.1/19.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.87	− 2 12.6	2.225	3.009	13.3	21.4
2 21	12 17.45	− 1 49.0	2.118	2.995	10.4	21.2
3 2	12 10.96	− 1 12.6	2.036	2.980	7.0	20.9
3 12	12 2.92	− 0 26.2	1.980	2.965	3.1	20.7
3 22	11 54.03	+ 0 25.4	1.953	2.949	1.0	20.5
4 1	11 45.20	+ 1 16.8	1.956	2.932	5.2	20.7
4 11	11 37.33	+ 2 2.2	1.988	2.915	9.1	20.9
4 21	11 31.13	+ 2 37.3	2.044	2.897	12.5	21.1

179270 2001 UW_{195} 3 19.4 54°.15 0°.1/19.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.29	− 2 24.0	2.067	2.863	13.8	20.6
2 21	12 14.57	− 1 59.3	1.994	2.877	10.7	20.4
3 2	12 8.92	− 1 21.7	1.944	2.892	7.1	20.2
3 12	12 1.94	− 0 35.1	1.921	2.906	3.1	19.9
3 22	11 54.41	+ 0 15.6	1.926	2.921	1.0	19.8
4 1	11 47.18	+ 1 4.5	1.959	2.936	5.0	20.1
4 11	11 41.06	+ 1 46.3	2.020	2.951	8.7	20.4
4 21	11 36.60	+ 2 17.3	2.104	2.967	11.9	20.6

383631 2007 RD_{95} 3 19.4 205°.98 0°.8/18.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.52	+ 0 4.6	2.442	3.236	12.0	22.0
2 21	12 14.57	+ 0 41.2	2.349	3.233	9.2	21.8
3 2	12 8.88	+ 1 28.5	2.280	3.229	6.0	21.6
3 12	12 1.94	+ 2 22.4	2.239	3.225	2.5	21.4
3 22	11 54.40	+ 3 18.3	2.227	3.221	1.5	21.3
4 1	11 47.00	+ 4 10.9	2.245	3.217	5.0	21.5
4 11	11 40.49	+ 4 55.2	2.291	3.212	8.4	21.7
4 21	11 35.42	+ 5 28.1	2.362	3.207	11.4	21.9

32767 1983 RY_{2} 3 19.4 218°.16 2°.3/16.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.94	+ 5 29.5	2.485	3.286	11.6	20.0
2 21	12 17.22	+ 6 13.6	2.387	3.276	8.9	19.8
3 2	12 10.65	+ 7 5.0	2.314	3.265	5.8	19.6
3 12	12 2.73	+ 7 58.9	2.269	3.253	2.9	19.3
3 22	11 54.12	+ 8 50.2	2.255	3.241	3.0	19.3
4 1	11 45.63	+ 9 33.6	2.270	3.228	6.1	19.5
4 11	11 38.04	+10 4.9	2.314	3.214	9.3	19.7
4 21	11 31.95	+10 22.1	2.382	3.199	12.1	19.8

249631 1999 TH_{107} 3 19.4 234°.12 2°.8/22.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.05	− 9 57.7	1.876	2.642	16.0	20.5
2 21	12 17.24	− 9 47.5	1.774	2.633	13.0	20.3
3 2	12 11.04	− 9 16.6	1.694	2.622	9.4	20.1
3 12	12 3.01	− 8 26.2	1.638	2.612	5.5	19.8
3 22	11 54.01	− 7 20.3	1.609	2.601	2.8	19.6
4 1	11 45.08	− 6 5.4	1.609	2.589	5.5	19.7
4 11	11 37.32	− 4 49.9	1.636	2.577	9.6	20.0
4 21	11 31.52	− 3 41.5	1.687	2.564	13.5	20.2

174018 2001 YD_{105} 3 19.4 157°.08 4°.8/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 18.06	+17 3.8	3.071	3.886	9.2	20.6
2 21	12 13.83	+18 18.7	3.004	3.893	7.3	20.5
3 2	12 8.19	+19 32.8	2.964	3.900	5.5	20.4
3 12	12 1.58	+20 40.6	2.954	3.906	4.8	20.3
3 22	11 54.55	+21 37.3	2.973	3.912	5.6	20.4
4 1	11 47.71	+22 19.1	3.020	3.918	7.3	20.5
4 11	11 41.63	+22 44.0	3.094	3.923	9.3	20.6
4 21	11 36.77	+22 51.9	3.190	3.927	11.1	20.8

308076 2004 TX_{240} 3 19.4 182°.41 2°.6/21.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.52	− 9 6.8	2.014	2.773	15.4	22.1
2 21	12 19.64	− 9 2.8	1.920	2.774	12.4	21.9
3 2	12 12.46	− 8 40.9	1.847	2.775	8.9	21.6
3 12	12 3.57	− 8 2.4	1.800	2.774	5.1	21.4
3 22	11 53.84	− 7 10.9	1.782	2.773	2.6	21.2
4 1	11 44.28	− 6 12.2	1.792	2.771	5.2	21.4
4 11	11 35.91	− 5 13.2	1.831	2.768	9.0	21.6
4 21	11 29.46	− 4 20.2	1.895	2.765	12.6	21.8

62583 2000 SJ_{293} 3 19.4 220°.30 0°.2/19.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.18	− 1 2.9	2.833	3.610	10.9	19.8
2 21	12 16.38	− 0 58.8	2.730	3.602	8.5	19.6
3 2	12 9.98	− 0 46.6	2.652	3.595	5.7	19.5
3 12	12 2.41	− 0 28.3	2.602	3.587	2.5	19.2
3 22	11 54.26	− 0 7.0	2.583	3.578	0.8	19.1
4 1	11 46.21	+ 0 14.2	2.594	3.570	4.1	19.3
4 11	11 38.93	+ 0 31.7	2.635	3.561	7.2	19.5
4 21	11 32.95	+ 0 43.0	2.702	3.551	9.9	19.7

191207 2002 PH_{169} 3 19.4 96°.90 1°.3/18.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.85	+ 2 1.1	2.140	2.944	13.1	20.6
2 21	12 15.73	+ 2 34.7	2.063	2.953	10.0	20.4
3 2	12 9.69	+ 3 18.1	2.010	2.962	6.5	20.2
3 12	12 2.30	+ 4 6.5	1.984	2.970	2.8	19.9
3 22	11 54.32	+ 4 54.6	1.986	2.979	2.1	19.9
4 1	11 46.62	+ 5 36.9	2.018	2.987	5.7	20.2
4 11	11 40.00	+ 6 8.8	2.077	2.995	9.2	20.4
4 21	11 35.04	+ 6 27.7	2.159	3.004	12.3	20.6

315254 2007 TK_{10} 3 19.4 114°.96 0°.2/19.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.15	− 1 50.6	1.766	2.562	15.8	21.1
2 21	12 19.40	− 1 22.4	1.694	2.578	12.2	20.9
3 2	12 12.26	− 0 39.5	1.645	2.593	8.0	20.7
3 12	12 3.44	+ 0 13.4	1.622	2.608	3.5	20.5
3 22	11 53.93	+ 1 10.2	1.627	2.622	1.3	20.3
4 1	11 44.83	+ 2 3.8	1.660	2.636	5.9	20.7
4 11	11 37.14	+ 2 48.0	1.720	2.649	10.1	20.9
4 21	11 31.55	+ 3 18.5	1.804	2.662	13.7	21.2

332529 2008 OJ_{3} 3 19.4 234°.52 3°.8/14.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.50	+ 8 49.7	2.451	3.264	11.3	21.4
2 21	12 15.44	+10 10.1	2.354	3.249	8.7	21.2
3 2	12 9.55	+11 37.7	2.282	3.233	5.9	21.0
3 12	12 2.28	+13 6.2	2.240	3.217	3.9	20.8
3 22	11 54.30	+14 28.6	2.227	3.199	4.7	20.9
4 1	11 46.40	+15 38.3	2.245	3.181	7.5	21.0
4 11	11 39.36	+16 30.7	2.289	3.163	10.5	21.2
4 21	11 33.79	+17 3.6	2.356	3.143	13.2	21.3

178208 2006 VN_{41} 3 19.4 320°.28 1°.3/18.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.25	+ 1 57.3	2.145	2.955	12.9	20.3
2 21	12 13.88	+ 2 29.8	2.053	2.946	9.9	20.1
3 2	12 8.58	+ 3 12.5	1.985	2.938	6.5	19.8
3 12	12 1.87	+ 4 1.2	1.943	2.930	2.8	19.6
3 22	11 54.46	+ 4 50.5	1.930	2.922	2.1	19.5
4 1	11 47.20	+ 5 34.8	1.945	2.915	5.8	19.7
4 11	11 40.91	+ 6 8.9	1.986	2.907	9.4	19.9
4 21	11 36.24	+ 6 29.8	2.052	2.901	12.7	20.1

234996 2003 BM_{61} 3 19.4 52°.92 6°.3/24.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 30.46	−15 9.0	2.066	2.781	16.3	20.0
2 21	12 24.12	−16 31.6	1.989	2.801	13.7	19.8
3 2	12 15.35	−17 37.3	1.933	2.821	10.8	19.7
3 12	12 4.82	−18 23.3	1.903	2.842	8.0	19.5
3 22	11 53.45	−18 48.9	1.900	2.863	6.3	19.5
4 1	11 42.38	−18 55.7	1.926	2.884	7.0	19.5
4 11	11 32.65	−18 48.5	1.980	2.905	9.3	19.7
4 21	11 25.03	−18 33.3	2.059	2.926	11.9	19.9

472833 2015 FE_{214} 3 19.4 301°.11 5°.1/13.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.66	+13 9.7	2.142	2.969	12.2	21.0
2 21	12 14.97	+14 14.2	2.063	2.963	9.5	20.8
3 2	12 9.28	+15 21.4	2.008	2.957	6.8	20.6
3 12	12 2.16	+16 24.3	1.981	2.951	5.1	20.5
3 22	11 54.37	+17 15.9	1.981	2.945	6.0	20.5
4 1	11 46.79	+17 50.8	2.009	2.939	8.6	20.6
4 11	11 40.27	+18 5.7	2.061	2.933	11.6	20.8
4 21	11 35.44	+18 0.2	2.136	2.927	14.2	21.0

94601 2001 VY_{81} 3 19.4 231°.06 4°.3/23.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 22.70	−12 36.3	1.751	2.507	17.4	20.1
2 21	12 18.76	−12 45.5	1.650	2.498	14.4	19.9
3 2	12 12.19	−12 32.3	1.570	2.488	10.8	19.6
3 12	12 3.59	−11 56.3	1.512	2.478	6.9	19.4
3 22	11 53.85	−11 0.1	1.482	2.467	4.3	19.2
4 1	11 44.18	− 9 49.7	1.478	2.456	6.2	19.3
4 11	11 35.78	− 8 34.0	1.501	2.444	10.1	19.5
4 21	11 29.55	− 7 21.7	1.548	2.432	14.2	19.7

123514 2000 WY_{190} 3 19.4 106°.75 5°.2/13.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.29	+13 19.3	2.084	2.906	12.7	20.4
2 21	12 17.59	+14 32.0	2.027	2.923	9.8	20.2
3 2	12 10.87	+15 46.1	1.994	2.941	7.0	20.1
3 12	12 2.79	+16 54.0	1.990	2.958	5.3	20.0
3 22	11 54.19	+17 48.6	2.013	2.975	6.1	20.1
4 1	11 46.00	+18 24.9	2.065	2.991	8.7	20.2
4 11	11 39.04	+18 40.5	2.141	3.007	11.4	20.4
4 21	11 33.89	+18 35.8	2.240	3.022	13.9	20.6

347960 2003 QX_{105} 3 19.4 172°.53 0°.5/19.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.56	− 3 17.6	2.141	2.919	14.0	22.1
2 21	12 19.45	− 2 59.8	2.051	2.923	10.9	21.9
3 2	12 12.21	− 2 28.7	1.985	2.926	7.4	21.7
3 12	12 3.44	− 1 47.3	1.945	2.929	3.4	21.4
3 22	11 53.94	− 1 0.1	1.935	2.931	1.0	21.2
4 1	11 44.66	− 0 12.7	1.955	2.932	5.1	21.5
4 11	11 36.51	+ 0 29.4	2.003	2.932	8.9	21.7
4 21	11 30.15	+ 1 2.0	2.076	2.931	12.3	22.0

502338 2015 BF_{187} 3 19.4 217°.48 2°.0/17.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.16	+ 3 29.3	2.081	2.891	13.2	21.6
2 21	12 16.15	+ 4 10.0	1.994	2.887	10.1	21.4
3 2	12 10.08	+ 5 0.4	1.931	2.884	6.6	21.1
3 12	12 2.53	+ 5 55.4	1.894	2.880	3.0	20.9
3 22	11 54.25	+ 6 48.9	1.887	2.877	2.8	20.9
4 1	11 46.18	+ 7 35.0	1.908	2.873	6.3	21.1
4 11	11 39.18	+ 8 8.7	1.955	2.869	10.0	21.3
4 21	11 33.90	+ 8 27.2	2.026	2.864	13.2	21.5

103126 1999 XX_{191} 3 19.4 79°.97 2°.2/17.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.92	+ 3 39.4	1.616	2.429	16.2	19.8
2 21	12 20.78	+ 4 13.6	1.559	2.454	12.3	19.7
3 2	12 13.13	+ 4 57.8	1.525	2.479	8.0	19.4
3 12	12 3.79	+ 5 45.7	1.517	2.504	3.5	19.2
3 22	11 53.86	+ 6 30.0	1.537	2.528	3.0	19.3
4 1	11 44.52	+ 7 4.3	1.584	2.552	7.1	19.6
4 11	11 36.82	+ 7 24.2	1.657	2.575	11.2	19.8
4 21	11 31.40	+ 7 27.8	1.753	2.598	14.6	20.1

434540 2005 TB_{7} 3 19.4 237°.58 4°.6/25.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.28	−17 19.7	2.648	3.358	13.2	20.7
2 21	12 13.63	−17 30.1	2.544	3.354	11.1	20.5
3 2	12 8.30	−17 23.0	2.461	3.349	8.8	20.4
3 12	12 1.73	−16 58.0	2.402	3.345	6.3	20.2
3 22	11 54.53	−16 16.7	2.371	3.341	4.7	20.1
4 1	11 47.42	−15 22.6	2.369	3.336	5.1	20.1
4 11	11 41.13	−14 20.8	2.394	3.332	7.2	20.2
4 21	11 36.21	−13 17.1	2.446	3.327	9.7	20.4

315382 2007 VQ_{64} 3 19.4 119°.59 0°.3/19.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.74	− 1 28.4	1.811	2.607	15.4	21.8
2 21	12 19.05	− 0 58.7	1.738	2.621	11.9	21.6
3 2	12 12.02	− 0 14.8	1.687	2.635	7.8	21.4
3 12	12 3.36	+ 0 38.6	1.662	2.648	3.4	21.1
3 22	11 54.00	+ 1 35.4	1.666	2.661	1.4	21.0
4 1	11 45.01	+ 2 28.7	1.699	2.674	5.9	21.4
4 11	11 37.40	+ 3 12.3	1.758	2.686	10.0	21.6
4 21	11 31.83	+ 3 42.4	1.841	2.697	13.6	21.9

102357 1999 TZ_{133} 3 19.5 236°.22 0°.3/19.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.14	− 3 18.8	1.922	2.712	14.9	21.4
2 21	12 18.00	− 2 53.5	1.821	2.700	11.7	21.2
3 2	12 11.52	− 2 12.3	1.742	2.687	7.9	20.9
3 12	12 3.24	− 1 18.3	1.689	2.674	3.6	20.6
3 22	11 54.00	− 0 17.1	1.665	2.660	1.1	20.4
4 1	11 44.84	+ 0 44.7	1.669	2.646	5.7	20.7
4 11	11 36.81	+ 1 39.9	1.700	2.631	10.1	20.9
4 21	11 30.70	+ 2 23.1	1.755	2.616	13.9	21.1

309313 2007 RG_{290} 3 19.5 29°.05 3°.8/22.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 13.94	−13 26.1	1.183	1.983	21.7	20.1
2 21	12 12.60	−12 52.7	1.119	1.995	17.7	19.9
3 2	12 8.31	−11 43.7	1.072	2.007	12.9	19.6
3 12	12 1.88	−10 2.3	1.047	2.021	7.6	19.4
3 22	11 54.51	− 7 57.9	1.044	2.036	3.8	19.2
4 1	11 47.63	− 5 44.4	1.067	2.052	6.6	19.4
4 11	11 42.51	− 3 37.8	1.114	2.069	11.5	19.7
4 21	11 39.93	− 1 49.9	1.182	2.086	16.1	20.0

88579 2001 QE_{254} 3 19.5 46°.93 3°.6/16.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 19.55	+ 5 39.8	1.562	2.393	15.8	19.2
2 21	12 16.20	+ 6 43.8	1.495	2.401	12.0	19.0
3 2	12 10.33	+ 7 58.4	1.451	2.409	7.9	18.8
3 12	12 2.67	+ 9 15.5	1.432	2.417	4.2	18.6
3 22	11 54.24	+10 25.7	1.440	2.425	4.7	18.6
4 1	11 46.21	+11 20.9	1.475	2.434	8.5	18.9
4 11	11 39.65	+11 55.5	1.533	2.442	12.5	19.1
4 21	11 35.28	+12 7.7	1.613	2.451	16.0	19.4

55512 2001 UU_{178} 3 19.5 82°.90 2°.7/16.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.09	+ 5 9.0	2.287	3.101	12.0	19.6
2 21	12 13.47	+ 6 19.7	2.220	3.117	9.1	19.4
3 2	12 8.13	+ 7 38.2	2.177	3.132	5.9	19.2
3 12	12 1.62	+ 8 58.4	2.163	3.147	3.1	19.1
3 22	11 54.61	+10 13.6	2.178	3.162	3.5	19.1
4 1	11 47.89	+11 18.0	2.223	3.177	6.4	19.3
4 11	11 42.16	+12 7.2	2.294	3.192	9.4	19.5
4 21	11 37.93	+12 39.1	2.389	3.206	12.1	19.8

30824 1990 TD 3 19.5 222°.18 3°.0/22.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.89	−10 4.0	1.875	2.638	16.2	18.5
2 21	12 18.69	− 9 58.6	1.773	2.629	13.2	18.3
3 2	12 12.03	− 9 32.9	1.692	2.619	9.6	18.1
3 12	12 3.49	− 8 47.8	1.636	2.609	5.6	17.8
3 22	11 53.93	− 7 46.9	1.607	2.598	3.0	17.6
4 1	11 44.44	− 6 36.5	1.607	2.587	5.6	17.7
4 11	11 36.14	− 5 24.9	1.634	2.574	9.7	18.0
4 21	11 29.86	− 4 19.6	1.685	2.561	13.6	18.2

374969 2007 DL_{37} 3 19.5 331°.59 1°.0/20.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.07	− 3 44.3	1.792	2.586	15.6	20.8
2 21	12 17.22	− 3 40.1	1.704	2.585	12.3	20.6
3 2	12 10.99	− 3 20.7	1.638	2.583	8.4	20.3
3 12	12 2.99	− 2 48.9	1.598	2.581	4.0	20.0
3 22	11 54.12	− 2 9.3	1.584	2.579	1.3	19.8
4 1	11 45.47	− 1 27.8	1.598	2.578	5.6	20.1
4 11	11 38.06	− 0 50.8	1.639	2.577	9.9	20.4
4 21	11 32.67	− 0 23.4	1.703	2.575	13.7	20.6

155514 1999 RT_{172} 3 19.5 210°.69 2°.5/16.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.41	+ 4 59.7	2.372	3.180	11.9	20.8
2 21	12 15.35	+ 5 58.9	2.281	3.174	9.1	20.6
3 2	12 9.46	+ 7 6.8	2.215	3.168	5.9	20.4
3 12	12 2.25	+ 8 17.9	2.177	3.161	3.0	20.2
3 22	11 54.39	+ 9 26.1	2.168	3.153	3.3	20.2
4 1	11 46.67	+10 25.4	2.189	3.146	6.3	20.4
4 11	11 39.88	+11 11.1	2.238	3.137	9.6	20.6
4 21	11 34.59	+11 40.7	2.310	3.128	12.5	20.7

489313 2006 SS_{344} 3 19.5 178°.61 0°.9/20.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.61	− 5 4.1	2.843	3.610	11.1	22.2
2 21	12 14.39	− 4 48.5	2.747	3.611	8.8	22.1
3 2	12 8.66	− 4 21.9	2.676	3.612	6.0	21.9
3 12	12 1.85	− 3 46.3	2.632	3.612	3.0	21.7
3 22	11 54.54	− 3 5.1	2.618	3.613	1.0	21.5
4 1	11 47.35	− 2 22.0	2.634	3.612	3.8	21.7
4 11	11 40.94	− 1 41.3	2.680	3.612	6.8	21.9
4 21	11 35.78	− 1 6.4	2.752	3.611	9.5	22.1

187877 2000 QG_{117} 3 19.5 241°.54 1°.9/22.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.90	−12 27.8	2.395	3.136	13.6	20.5
2 21	12 15.09	−11 20.0	2.275	3.119	11.1	20.2
3 2	12 9.39	− 9 48.8	2.179	3.102	8.0	20.0
3 12	12 2.26	− 7 56.6	2.110	3.083	4.5	19.8
3 22	11 54.38	− 5 48.7	2.071	3.064	1.9	19.5
4 1	11 46.53	− 3 33.3	2.065	3.044	4.5	19.7
4 11	11 39.55	− 1 19.8	2.089	3.024	8.2	19.9
4 21	11 34.08	+ 0 43.4	2.142	3.003	11.7	20.1

303844 2005 SM_{175} 3 19.5 202°.59 3°.0/23.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 15.70	−13 9.2	2.577	3.316	12.8	21.2
2 21	12 12.39	−12 49.8	2.478	3.316	10.5	21.0
3 2	12 7.46	−12 12.9	2.401	3.315	7.8	20.9
3 12	12 1.36	−11 19.9	2.350	3.314	4.9	20.7
3 22	11 54.71	−10 13.8	2.328	3.313	3.0	20.5
4 1	11 48.19	− 8 59.7	2.334	3.313	4.2	20.6
4 11	11 42.49	− 7 43.6	2.370	3.312	7.0	20.8
4 21	11 38.14	− 6 31.1	2.432	3.311	9.9	21.0

169210 2001 RE_{106} 3 19.5 6°.63 1°.7/17.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 15.75	+ 0 57.8	1.972	2.786	13.7	19.8
2 21	12 12.85	+ 1 58.8	1.890	2.786	10.5	19.6
3 2	12 7.95	+ 3 13.1	1.832	2.787	6.8	19.3
3 12	12 1.62	+ 4 34.9	1.801	2.788	2.9	19.1
3 22	11 54.62	+ 5 56.9	1.797	2.789	2.5	19.1
4 1	11 47.84	+ 7 11.5	1.822	2.790	6.3	19.3
4 11	11 42.14	+ 8 12.4	1.874	2.792	10.1	19.5
4 21	11 38.11	+ 8 55.8	1.949	2.794	13.4	19.8

170741 2004 BM_{105} 3 19.5 163°.55 3°.3/15.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 17.15	+ 6 58.4	2.265	3.084	12.0	20.1
2 21	12 13.65	+ 8 10.1	2.186	3.085	9.1	20.0
3 2	12 8.34	+ 9 29.3	2.132	3.086	6.0	19.8
3 12	12 1.76	+10 49.6	2.106	3.087	3.5	19.6
3 22	11 54.58	+12 4.3	2.109	3.088	4.2	19.6
4 1	11 47.60	+13 6.9	2.140	3.088	7.0	19.8
4 11	11 41.59	+13 53.1	2.198	3.089	10.1	20.0
4 21	11 37.11	+14 20.9	2.279	3.089	12.9	20.2

293454 2007 ET_{184} 3 19.5 122°.51 20°.6/25.8 18

2 11	12 30.22	+40 48.1	1.108	1.927	21.7	19.9
2 21	12 26.59	+44 10.6	1.093	1.932	20.7	19.8
3 2	12 18.19	+46 58.0	1.096	1.936	20.8	19.9
3 12	12 6.29	+48 51.2	1.116	1.941	21.7	19.9
3 22	11 53.07	+49 39.7	1.152	1.945	23.2	20.1
4 1	11 41.05	+49 23.0	1.201	1.949	25.0	20.2
4 11	11 32.25	+48 9.9	1.261	1.953	26.7	20.4
4 21	11 27.56	+46 13.0	1.330	1.957	28.2	20.5

433898 2015 BG_{429} 3 19.5 119°.17 2°.2/17.1 18

2 11	12 19.90	+ 3 58.9	2.117	2.927	13.0	21.1
2 21	12 15.81	+ 4 47.3	2.041	2.935	9.9	20.9
3 2	12 9.78	+ 5 44.5	1.990	2.943	6.4	20.7
3 12	12 2.38	+ 6 45.3	1.966	2.951	3.0	20.5
3 22	11 54.38	+ 7 43.2	1.970	2.959	3.0	20.5
4 1	11 46.66	+ 8 32.5	2.004	2.966	6.3	20.8
4 11	11 40.04	+ 9 8.5	2.064	2.974	9.7	21.0
4 21	11 35.10	+ 9 28.9	2.148	2.981	12.8	21.2

326698 2003 AD_{78} 3 19.5 69°.09 4°.0/16.3 18 R

2 11	12 25.13	+ 8 46.7	1.620	2.445	15.6	20.2
2 21	12 20.26	+ 9 26.0	1.562	2.462	11.9	20.0
3 2	12 12.85	+10 10.6	1.526	2.480	7.9	19.9
3 12	12 3.72	+10 53.0	1.517	2.498	4.5	19.7
3 22	11 53.95	+11 26.0	1.534	2.516	4.9	19.7
4 1	11 44.73	+11 44.0	1.578	2.534	8.4	20.0
4 11	11 37.13	+11 44.0	1.648	2.552	12.1	20.2
4 21	11 31.81	+11 25.8	1.739	2.570	15.4	20.5

435030 2006 VD_{120} 3 19.5 261°.66 3°.0/23.1 17

2 11	12 16.87	−12 7.0	2.502	3.246	13.1	21.1
2 21	12 13.40	−11 59.6	2.396	3.237	10.7	20.9
3 2	12 8.20	−11 35.5	2.312	3.228	7.9	20.7
3 12	12 1.73	−10 55.6	2.254	3.219	5.0	20.5
3 22	11 54.59	−10 2.6	2.223	3.210	3.0	20.4
4 1	11 47.54	− 9 0.9	2.222	3.200	4.4	20.4
4 11	11 41.31	− 7 56.3	2.250	3.191	7.4	20.6
4 21	11 36.49	− 6 54.4	2.303	3.181	10.4	20.8

417631 2006 WX_{183} 3 19.5 107°.11 8°.2/10.6 16

2 11	12 22.89	+20 22.8	1.854	2.683	13.8	21.7
2 21	12 18.43	+22 1.7	1.803	2.695	11.1	21.5
3 2	12 11.62	+23 36.3	1.777	2.707	9.0	21.4
3 12	12 3.19	+24 56.6	1.777	2.719	8.2	21.4
3 22	11 54.13	+25 54.2	1.803	2.730	9.4	21.5
4 1	11 45.53	+26 24.1	1.854	2.742	11.7	21.6
4 11	11 38.37	+26 25.2	1.928	2.753	14.2	21.8
4 21	11 33.30	+26 0.3	2.021	2.763	16.5	22.0

162784 2000 YQ_{15} 3 19.5 106°.55 1°.6/18.0 18

2 11	12 26.40	+ 2 0.4	1.866	2.665	14.9	20.3
2 21	12 20.87	+ 2 40.0	1.804	2.691	11.4	20.1
3 2	12 13.09	+ 3 30.1	1.765	2.716	7.3	19.9
3 12	12 3.79	+ 4 25.2	1.754	2.740	3.1	19.7
3 22	11 53.93	+ 5 18.7	1.771	2.763	2.4	19.7
4 1	11 44.58	+ 6 4.3	1.818	2.786	6.3	20.0
4 11	11 36.67	+ 6 37.1	1.892	2.808	10.1	20.3
4 21	11 30.81	+ 6 54.9	1.989	2.829	13.4	20.5

165051 2000 EL_{51} 3 19.5 235°.04 0°.2/19.7 17

2 11	12 18.53	− 2 49.7	2.235	3.024	13.1	21.4
2 21	12 14.79	− 2 23.4	2.141	3.020	10.2	21.2
3 2	12 9.16	− 1 44.0	2.070	3.015	6.8	21.0
3 12	12 2.15	− 0 54.8	2.026	3.011	3.0	20.7
3 22	11 54.46	− 0 0.4	2.011	3.007	1.0	20.6
4 1	11 46.92	+ 0 53.6	2.025	3.002	4.9	20.8
4 11	11 40.34	+ 1 41.5	2.067	2.997	8.6	21.0
4 21	11 35.33	+ 2 19.2	2.133	2.992	11.8	21.2

504810 2010 CX_{182} 3 19.5 294°.30 3°.6/22.7 17

2 11	12 20.81	−10 23.6	2.070	2.828	15.0	21.0
2 21	12 16.83	−10 45.9	1.971	2.821	12.3	20.8
3 2	12 10.67	−10 51.8	1.892	2.814	9.1	20.5
3 12	12 2.87	−10 41.5	1.839	2.806	5.7	20.3
3 22	11 54.20	−10 17.0	1.813	2.799	3.6	20.2
4 1	11 45.61	− 9 42.1	1.815	2.792	5.3	20.3
4 11	11 38.09	− 9 2.7	1.844	2.786	8.7	20.4
4 21	11 32.34	− 8 24.7	1.898	2.779	12.1	20.6

162569 2000 RT_{41} 3 19.5 198°.01 3°.0/22.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 24.11	− 9 38.5	1.935	2.694	15.9	20.6
2 21	12 19.49	− 9 42.3	1.838	2.692	12.9	20.4
3 2	12 12.49	− 9 27.6	1.763	2.688	9.3	20.2
3 12	12 3.67	− 8 55.3	1.712	2.684	5.5	20.0
3 22	11 53.92	− 8 8.6	1.690	2.680	3.0	19.8
4 1	11 44.31	− 7 13.0	1.696	2.675	5.4	19.9
4 11	11 35.90	− 6 15.8	1.730	2.669	9.3	20.1
4 21	11 29.48	− 5 23.5	1.788	2.662	13.0	20.4

467095 2016 EY_{14} 3 19.5 47°.75 9°.3/ 9.7 17

2 11	12 20.43	+20 5.0	1.598	2.439	15.0	20.4
2 21	12 17.00	+22 2.1	1.544	2.443	12.2	20.2
3 2	12 10.93	+23 56.2	1.514	2.447	9.9	20.1
3 12	12 2.97	+25 34.6	1.509	2.451	9.4	20.1
3 22	11 54.21	+26 47.0	1.529	2.456	10.8	20.2
4 1	11 45.89	+27 26.7	1.572	2.460	13.4	20.3
4 11	11 39.13	+27 32.4	1.637	2.465	16.2	20.5
4 21	11 34.66	+27 7.0	1.719	2.470	18.7	20.7

13849 Dunn 3 19.5 53°.69 3°.9/22.4 18

2 11	12 21.34	−10 27.1	1.277	2.071	20.8	17.6
2 21	12 18.24	−10 34.3	1.207	2.080	16.9	17.4
3 2	12 12.06	−10 14.5	1.154	2.089	12.2	17.1
3 12	12 3.56	− 9 28.8	1.123	2.098	7.2	16.9
3 22	11 53.99	− 8 22.7	1.117	2.108	3.9	16.7
4 1	11 44.85	− 7 5.4	1.135	2.117	6.8	16.9
4 11	11 37.51	− 5 48.6	1.177	2.127	11.6	17.2
4 21	11 32.88	− 4 41.9	1.241	2.137	16.1	17.5

157363 2004 TX_{113} 3 19.5 216°.94 3°.2/15.9 18

2 11	12 23.42	+ 9 16.5	2.503	3.308	11.4	20.6
2 21	12 18.35	+ 9 56.1	2.409	3.299	8.8	20.4
3 2	12 11.41	+10 39.9	2.340	3.289	5.9	20.2
3 12	12 3.12	+11 22.9	2.299	3.279	3.5	20.0
3 22	11 54.16	+11 59.9	2.289	3.268	3.9	20.0
4 1	11 45.34	+12 26.3	2.308	3.256	6.6	20.2
4 11	11 37.45	+12 39.1	2.355	3.244	9.6	20.3
4 21	11 31.11	+12 37.0	2.426	3.231	12.3	20.5

283531 2001 TJ_{179} 3 19.5 102°.08 0°.8/18.6 18

2 11	12 21.70	+ 1 58.7	2.362	3.157	12.3	20.4
2 21	12 16.99	+ 2 11.0	2.282	3.166	9.4	20.2
3 2	12 10.47	+ 2 31.1	2.225	3.174	6.2	20.0
3 12	12 2.68	+ 2 55.7	2.197	3.183	2.6	19.8
3 22	11 54.34	+ 3 20.7	2.197	3.191	1.5	19.7
4 1	11 46.26	+ 3 42.1	2.228	3.199	5.0	20.0
4 11	11 39.19	+ 3 56.2	2.286	3.208	8.3	20.2
4 21	11 33.67	+ 4 0.9	2.369	3.215	11.3	20.4

455574 2004 RX_{74} 3 19.5 172°.55 1°.1/18.4 18

2 11	12 25.48	+ 0 57.8	2.061	2.853	13.9	22.2
2 21	12 20.24	+ 1 32.4	1.975	2.858	10.8	22.0
3 2	12 12.79	+ 2 18.4	1.913	2.862	7.0	21.8
3 12	12 3.75	+ 3 11.1	1.878	2.865	3.0	21.6
3 22	11 53.97	+ 4 4.8	1.873	2.867	1.9	21.5
4 1	11 44.44	+ 4 53.4	1.898	2.868	5.9	21.7
4 11	11 36.11	+ 5 31.5	1.950	2.868	9.8	22.0
4 21	11 29.66	+ 5 55.9	2.027	2.867	13.1	22.2

84714 2002 VE_{123} 3 19.5 68°.63 5°.1/23.9 18

2 11	12 23.85	−13 45.7	1.642	2.396	18.5	19.2
2 21	12 19.44	−14 12.7	1.575	2.417	15.2	19.0
3 2	12 12.44	−14 16.4	1.526	2.439	11.5	18.9
3 12	12 3.63	−13 56.7	1.501	2.460	7.7	18.7
3 22	11 54.03	−13 16.6	1.501	2.482	5.2	18.6
4 1	11 44.89	−12 22.1	1.528	2.503	6.4	18.7
4 11	11 37.29	−11 21.8	1.582	2.525	9.7	18.9
4 21	11 31.97	−10 23.7	1.659	2.546	13.2	19.2

73096 2002 GU_{20} 3 19.5 309°.36 0°.4/19.7 17

2 11	12 19.58	− 2 40.0	1.409	2.226	18.0	20.0
2 21	12 16.88	− 2 27.9	1.316	2.210	14.2	19.7
3 2	12 11.26	− 1 56.7	1.243	2.194	9.6	19.4
3 12	12 3.32	− 1 10.0	1.193	2.179	4.4	19.1
3 22	11 54.08	− 0 14.0	1.168	2.164	1.3	18.8
4 1	11 44.91	+ 0 42.8	1.169	2.149	7.0	19.1
4 11	11 37.20	+ 1 31.2	1.194	2.135	12.4	19.4
4 21	11 31.98	+ 2 4.6	1.239	2.121	17.1	19.6

183318 2002 VH_{34} 3 19.5 80°.98 9°.2/11.3 18

2 11	12 26.98	+22 46.8	1.680	2.506	15.1	19.7
2 21	12 21.74	+24 6.4	1.634	2.522	12.3	19.5
3 2	12 13.84	+25 18.1	1.612	2.537	10.1	19.4
3 12	12 4.17	+26 11.6	1.614	2.552	9.2	19.4
3 22	11 53.89	+26 39.0	1.642	2.567	10.3	19.5
4 1	11 44.27	+26 36.7	1.694	2.583	12.5	19.6
4 11	11 36.39	+26 5.2	1.768	2.598	15.1	19.8
4 21	11 30.91	+25 8.9	1.862	2.612	17.4	20.1

86340 1999 XQ_{49} 3 19.5 88.°96 0.°7/18.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 25.12	− 0 44.4	1.357	2.173	18.6	20.3
2 21	12 20.83	− 0 17.7	1.293	2.187	14.4	20.1
3 2	12 13.56	+ 0 26.0	1.248	2.201	9.5	19.8
3 12	12 4.16	+ 1 21.0	1.228	2.215	4.0	19.5
3 22	11 53.86	+ 2 19.2	1.233	2.228	1.9	19.4
4 1	11 44.10	+ 3 11.7	1.265	2.242	7.2	19.8
4 11	11 36.17	+ 3 51.0	1.322	2.255	12.2	20.1
4 21	11 30.86	+ 4 13.0	1.400	2.268	16.4	20.4

176954 2002 XK_{34} 3 19.5 101.°30 4.°4/14.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.49	+11 53.9	2.270	3.091	11.8	20.1
2 21	12 15.40	+12 53.4	2.200	3.098	9.1	20.0
3 2	12 9.47	+13 55.5	2.156	3.105	6.3	19.8
3 12	12 2.26	+14 53.8	2.139	3.112	4.5	19.7
3 22	11 54.51	+15 42.2	2.150	3.118	5.2	19.8
4 1	11 47.04	+16 15.9	2.190	3.125	7.7	19.9
4 11	11 40.61	+16 32.0	2.255	3.132	10.5	20.1
4 21	11 35.78	+16 30.0	2.343	3.138	13.0	20.3

497437 2005 XD_{90} 3 19.5 131.°38 2.°8/16.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.01	+ 5 33.3	1.993	2.808	13.5	21.7
2 21	12 16.83	+ 6 22.4	1.917	2.814	10.3	21.5
3 2	12 10.54	+ 7 19.8	1.865	2.819	6.7	21.3
3 12	12 2.77	+ 8 19.5	1.840	2.825	3.4	21.1
3 22	11 54.34	+ 9 14.7	1.844	2.830	3.6	21.1
4 1	11 46.20	+ 9 59.2	1.876	2.835	7.0	21.3
4 11	11 39.23	+10 28.7	1.934	2.840	10.5	21.6
4 21	11 34.08	+10 41.1	2.015	2.844	13.6	21.8

133868 2004 FD_{30} 3 19.5 144.°79 9.°0/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.01	+30 29.6	2.507	3.311	11.4	19.4
2 21	12 17.36	+31 59.3	2.460	3.316	9.9	19.3
3 2	12 10.76	+33 18.9	2.437	3.320	9.1	19.2
3 12	12 2.82	+34 20.6	2.440	3.325	9.1	19.3
3 22	11 54.34	+34 58.9	2.469	3.329	10.1	19.3
4 1	11 46.21	+35 10.9	2.521	3.333	11.5	19.4
4 11	11 39.23	+34 56.8	2.595	3.337	13.1	19.6
4 21	11 33.96	+34 19.5	2.686	3.340	14.6	19.7

29727 1999 AC_{34} 3 19.5 161.°33 0.°8/18.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.29	− 0 49.9	1.928	2.721	14.7	20.0
2 21	12 19.45	− 0 8.6	1.846	2.728	11.4	19.8
3 2	12 12.33	+ 0 46.6	1.787	2.735	7.5	19.6
3 12	12 3.58	+ 1 50.9	1.755	2.741	3.2	19.3
3 22	11 54.07	+ 2 57.8	1.751	2.746	1.7	19.2
4 1	11 44.86	+ 4 0.2	1.778	2.750	6.0	19.5
4 11	11 36.90	+ 4 51.7	1.831	2.753	10.0	19.8
4 21	11 30.90	+ 5 28.5	1.909	2.756	13.5	20.0

465754 2009 WK_{45} 3 19.5 40.°01 6.°1/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.21	+13 18.1	1.616	2.453	15.1	20.6
2 21	12 17.39	+14 23.4	1.559	2.464	11.7	20.4
3 2	12 11.06	+15 30.6	1.524	2.475	8.3	20.3
3 12	12 3.02	+16 30.5	1.515	2.487	6.2	20.2
3 22	11 54.30	+17 14.7	1.533	2.499	7.1	20.2
4 1	11 46.06	+17 37.4	1.576	2.512	10.1	20.4
4 11	11 39.35	+17 36.1	1.642	2.525	13.4	20.7
4 21	11 34.83	+17 12.0	1.729	2.538	16.4	20.9

200598 2001 RX_{90} 3 19.5 248.°58 0.°8/18.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.53	+ 0 39.0	1.555	2.364	16.9	20.3
2 21	12 21.19	+ 0 51.0	1.464	2.355	13.3	20.1
3 2	12 13.95	+ 1 16.6	1.393	2.345	8.8	19.8
3 12	12 4.46	+ 1 51.7	1.348	2.335	3.8	19.4
3 22	11 53.76	+ 2 30.1	1.329	2.324	1.8	19.3
4 1	11 43.21	+ 3 4.7	1.338	2.313	7.1	19.6
4 11	11 34.15	+ 3 29.0	1.372	2.302	12.0	19.8
4 21	11 27.53	+ 3 38.6	1.428	2.291	16.4	20.1

3147 Samantha 3 19.5 57.°63 1.°4/20.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.36	− 6 22.5	1.575	2.370	17.4	17.5
2 21	12 16.74	− 5 59.3	1.511	2.390	13.7	17.3
3 2	12 10.65	− 5 16.0	1.467	2.410	9.3	17.1
3 12	12 2.85	− 4 16.6	1.448	2.431	4.6	16.8
3 22	11 54.36	− 3 7.7	1.456	2.451	1.5	16.7
4 1	11 46.34	− 1 57.8	1.491	2.472	5.7	17.0
4 11	11 39.81	− 0 54.9	1.552	2.493	10.0	17.3
4 21	11 35.45	− 0 5.0	1.636	2.514	13.8	17.6

90043 2002 VD_{2} 3 19.5 83.°30 1.°6/20.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.73	− 6 46.5	1.765	2.548	16.3	20.1
2 21	12 17.56	− 6 26.1	1.695	2.567	12.8	20.0
3 2	12 11.10	− 5 47.1	1.647	2.586	8.8	19.7
3 12	12 3.03	− 4 53.0	1.625	2.605	4.5	19.5
3 22	11 54.31	− 3 49.5	1.629	2.624	1.6	19.4
4 1	11 45.99	− 2 43.8	1.662	2.643	5.3	19.6
4 11	11 39.04	− 1 43.3	1.722	2.661	9.4	19.9
4 21	11 34.12	− 0 53.8	1.806	2.679	13.0	20.2

372654 2009 WQ_{45} 3 19.5 48.°04 3.°8/16.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 20.44	+ 7 27.7	1.702	2.530	14.8	20.4
2 21	12 16.68	+ 8 20.3	1.637	2.540	11.3	20.2
3 2	12 10.57	+ 9 20.2	1.595	2.551	7.5	20.0
3 12	12 2.81	+10 20.0	1.579	2.561	4.2	19.8
3 22	11 54.38	+11 12.0	1.590	2.572	4.7	19.9
4 1	11 46.35	+11 49.6	1.628	2.584	8.1	20.1
4 11	11 39.71	+12 8.5	1.690	2.595	11.8	20.3
4 21	11 35.12	+12 7.8	1.775	2.607	15.1	20.6

427432 2000 TE_{38} 3 19.5 153.°11 2.°8/16.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.40	+ 8 4.5	2.590	3.392	11.1	22.4
2 21	12 18.12	+ 8 47.5	2.514	3.402	8.5	22.2
3 2	12 11.14	+ 9 34.8	2.463	3.412	5.6	22.1
3 12	12 2.98	+10 21.6	2.440	3.421	3.2	21.9
3 22	11 54.32	+11 2.8	2.449	3.430	3.5	22.0
4 1	11 45.92	+11 34.4	2.487	3.437	6.1	22.1
4 11	11 38.50	+11 53.3	2.554	3.444	8.9	22.3
4 21	11 32.55	+11 58.3	2.645	3.450	11.4	22.5

231332 2006 DY_{144} 3 19.5 158.°91 0.°2/19.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.36	− 0 54.7	2.195	2.986	13.2	21.7
2 21	12 16.95	− 0 35.1	2.109	2.990	10.3	21.5
3 2	12 10.58	− 0 4.3	2.046	2.993	6.8	21.2
3 12	12 2.80	+ 0 34.2	2.010	2.996	2.9	21.0
3 22	11 54.37	+ 1 15.9	2.003	2.998	1.1	20.9
4 1	11 46.15	+ 1 55.7	2.025	3.001	5.1	21.1
4 11	11 38.99	+ 2 28.6	2.076	3.003	8.7	21.4
4 21	11 33.48	+ 2 51.3	2.150	3.004	12.0	21.6

83830 2001 UM_{22} 3 19.5 223.°34 3.°7/23.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.10	−13 41.8	2.391	3.127	13.8	19.1
2 21	12 14.43	−13 45.6	2.292	3.125	11.4	18.9
3 2	12 8.94	−13 31.8	2.214	3.123	8.6	18.7
3 12	12 2.10	−13 0.8	2.162	3.121	5.7	18.5
3 22	11 54.60	−12 15.0	2.137	3.119	3.8	18.4
4 1	11 47.22	−11 18.5	2.141	3.117	4.8	18.4
4 11	11 40.74	−10 17.5	2.173	3.114	7.6	18.6
4 21	11 35.77	− 9 17.6	2.231	3.112	10.5	18.8

417245 2005 YN_{161} 3 19.5 126.°54 2.°9/23.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.01	−12 47.4	2.605	3.332	13.0	22.0
2 21	12 17.08	−12 34.4	2.522	3.353	10.6	21.8
3 2	12 10.46	−12 5.0	2.463	3.374	7.8	21.7
3 12	12 2.68	−11 20.6	2.430	3.393	4.9	21.5
3 22	11 54.43	−10 24.4	2.426	3.412	3.0	21.4
4 1	11 46.44	− 9 21.0	2.453	3.430	4.2	21.5
4 11	11 39.41	− 8 16.0	2.510	3.447	6.9	21.7
4 21	11 33.84	− 7 14.7	2.593	3.463	9.6	21.9

422436 2014 SF_{300} 3 19.5 256.°62 0.°9/20.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.17	− 4 1.6	1.805	2.592	15.8	22.1
2 21	12 19.91	− 3 52.3	1.696	2.572	12.6	21.8
3 2	12 13.03	− 3 26.6	1.608	2.551	8.7	21.6
3 12	12 4.07	− 2 47.0	1.546	2.529	4.2	21.2
3 22	11 53.90	− 1 57.6	1.512	2.507	1.3	21.0
4 1	11 43.67	− 1 5.2	1.506	2.485	6.0	21.2
4 11	11 34.60	− 0 17.0	1.527	2.461	10.7	21.4
4 21	11 27.64	+ 0 20.8	1.571	2.437	15.0	21.6

231809 2000 FP_{22} 3 19.5 22.°33 6.°9/13.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.15	+13 25.3	1.419	2.270	16.0	19.0
2 21	12 14.55	+14 49.0	1.370	2.283	12.3	18.8
3 2	12 9.32	+16 14.8	1.343	2.296	8.9	18.6
3 12	12 2.29	+17 31.7	1.340	2.311	7.0	18.6
3 22	11 54.57	+18 29.7	1.362	2.326	8.1	18.7
4 1	11 47.38	+19 2.0	1.409	2.343	11.2	18.9
4 11	11 41.80	+19 6.2	1.477	2.360	14.6	19.1
4 21	11 38.48	+18 43.9	1.565	2.379	17.6	19.4

89993 2002 TV_{66} 3 19.5 347.°08 12.°4/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 13.41	−30 41.7	1.117	1.832	27.5	18.9
2 21	12 13.06	−31 5.2	1.036	1.829	24.8	18.6
3 2	12 9.21	−30 37.6	0.966	1.827	21.3	18.4
3 12	12 2.56	−29 9.5	0.911	1.824	17.5	18.1
3 22	11 54.42	−26 38.4	0.875	1.823	13.9	17.9
4 1	11 46.55	−23 12.5	0.860	1.822	12.4	17.8
4 11	11 40.72	−19 13.6	0.867	1.821	14.0	17.9
4 21	11 38.03	−15 9.2	0.897	1.821	17.8	18.1

85319 1995 EJ_{4} 3 19.5 122.°57 0.°9/18.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.58	− 0 13.4	2.316	3.112	12.5	20.4
2 21	12 14.67	+ 0 33.1	2.237	3.122	9.6	20.3
3 2	12 8.99	+ 1 30.9	2.182	3.132	6.2	20.1
3 12	12 2.08	+ 2 35.4	2.155	3.142	2.6	19.8
3 22	11 54.64	+ 3 41.2	2.157	3.151	1.6	19.8
4 1	11 47.43	+ 4 42.4	2.189	3.160	5.1	20.0
4 11	11 41.20	+ 5 33.9	2.248	3.168	8.5	20.2
4 21	11 36.48	+ 6 12.4	2.333	3.177	11.5	20.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
389235 2009 EJ_{21}			3 19.5 335°.78		0°.4/19.1 17	
	h m	° ′			°	m
2 11	12 17.68	− 0 40.7	2.036	2.839	13.7	21.3
2 21	12 14.35	− 0 18.6	1.945	2.833	10.6	21.1
3 2	12 9.00	+ 0 15.7	1.877	2.827	7.0	20.8
3 12	12 2.16	+ 0 58.5	1.836	2.822	3.0	20.6
3 22	11 54.59	+ 1 44.9	1.822	2.817	1.3	20.4
4 1	11 47.19	+ 2 28.9	1.837	2.812	5.4	20.7
4 11	11 40.82	+ 3 5.2	1.878	2.808	9.3	20.9
4 21	11 36.15	+ 3 29.8	1.943	2.804	12.7	21.1
83486 2001 SK_{97}			3 19.5 32°.99		1°.4/20.9 18	
2 11	12 15.70	− 7 12.4	1.798	2.589	15.7	19.1
2 21	12 12.95	− 6 38.5	1.725	2.602	12.4	18.9
3 2	12 8.08	− 5 45.1	1.674	2.615	8.5	18.7
3 12	12 1.74	− 4 36.0	1.648	2.629	4.3	18.5
3 22	11 54.76	− 3 17.5	1.649	2.644	1.4	18.3
4 1	11 48.10	− 1 57.6	1.678	2.659	5.1	18.6
4 11	11 42.64	− 0 44.0	1.734	2.675	9.1	18.8
4 21	11 39.00	+ 0 17.1	1.813	2.691	12.7	19.1
293500 2007 GS_{7}			3 19.5 314°.29		2°.4/22.0 17	
2 11	12 14.52	−10 54.1	1.679	2.462	17.0	20.4
2 21	12 12.50	−10 15.6	1.578	2.446	13.8	20.1
3 2	12 8.10	− 9 10.3	1.497	2.431	9.9	19.8
3 12	12 1.89	− 7 40.1	1.440	2.417	5.6	19.6
3 22	11 54.67	− 5 51.1	1.409	2.402	2.4	19.3
4 1	11 47.55	− 3 52.8	1.406	2.388	5.7	19.5
4 11	11 41.60	− 1 56.9	1.429	2.375	10.3	19.7
4 21	11 37.64	− 0 13.6	1.475	2.362	14.5	19.9
32223 2000 OE_{23}			3 19.5 112°.79		1°.4/20.6 18	
2 11	12 25.28	− 4 37.9	1.578	2.370	17.5	18.2
2 21	12 20.71	− 4 37.7	1.502	2.380	13.8	18.0
3 2	12 13.41	− 4 20.1	1.446	2.389	9.5	17.7
3 12	12 4.14	− 3 47.9	1.415	2.397	4.7	17.5
3 22	11 53.95	− 3 6.2	1.411	2.406	1.6	17.3
4 1	11 44.13	− 2 21.7	1.434	2.414	6.0	17.6
4 11	11 35.87	− 1 41.7	1.484	2.423	10.6	17.8
4 21	11 29.98	− 1 11.9	1.556	2.430	14.6	18.1
45754 2000 KC_{14}			3 19.5 140°.16		2°.1/17.4 18	
2 11	12 22.62	+ 3 53.9	2.057	2.863	13.5	19.7
2 21	12 17.99	+ 4 36.2	1.980	2.872	10.3	19.5
3 2	12 11.28	+ 5 27.5	1.928	2.880	6.7	19.3
3 12	12 3.11	+ 6 22.4	1.903	2.889	3.1	19.1
3 22	11 54.30	+ 7 14.7	1.907	2.896	2.9	19.1
4 1	11 45.80	+ 7 58.5	1.940	2.904	6.4	19.3
4 11	11 38.48	+ 8 29.3	2.000	2.911	9.9	19.6
4 21	11 32.95	+ 8 44.9	2.083	2.917	13.1	19.8
82858 2001 QY_{57}			3 19.5 186°.36		1°.3/20.9 18	
2 11	12 21.55	− 5 6.9	2.556	3.322	12.3	20.2
2 21	12 16.88	− 5 9.6	2.459	3.322	9.7	20.0
3 2	12 10.44	− 5 1.0	2.387	3.321	6.7	19.8
3 12	12 2.74	− 4 42.9	2.341	3.320	3.5	19.6
3 22	11 54.42	− 4 17.9	2.325	3.319	1.4	19.4
4 1	11 46.23	− 3 49.8	2.339	3.318	4.2	19.6
4 11	11 38.93	− 3 22.8	2.382	3.316	7.4	19.8
4 21	11 33.08	− 3 0.4	2.451	3.314	10.4	20.0
105902 2000 SQ_{192}			3 19.5 26°.67		1°.2/20.3 18	
2 11	12 19.44	− 4 21.2	1.176	2.001	20.3	19.2
2 21	12 16.91	− 4 14.7	1.112	2.009	16.0	18.9
3 2	12 11.24	− 3 45.7	1.067	2.018	10.9	18.6
3 12	12 3.27	− 2 58.5	1.044	2.028	5.2	18.4
3 22	11 54.26	− 2 0.4	1.044	2.040	1.6	18.1
4 1	11 45.76	− 1 1.4	1.069	2.052	7.0	18.5
4 11	11 39.13	− 0 11.3	1.117	2.064	12.3	18.9
4 21	11 35.23	+ 0 23.4	1.185	2.078	16.9	19.2
24809 1994 TW_{3}			3 19.5 169°.63		5°.5/17.2 18	
2 11	12 47.21	+13 56.2	1.432	2.230	18.7	18.2
2 21	12 38.12	+13 54.2	1.353	2.235	14.8	17.9
3 2	12 25.15	+13 49.5	1.296	2.239	10.3	17.7
3 12	12 9.32	+13 34.0	1.266	2.242	6.3	17.4
3 22	11 52.25	+13 1.1	1.265	2.244	6.2	17.4
4 1	11 35.92	+12 8.1	1.293	2.246	10.2	17.7
4 11	11 22.07	+10 56.2	1.349	2.246	14.8	17.9
4 21	11 11.72	+ 9 29.8	1.428	2.245	18.8	18.2
352681 2008 SS_{3}			3 19.5 103°.69		2°.5/17.6 18	
2 11	12 26.56	+ 3 53.7	1.499	2.316	17.0	20.8
2 21	12 21.67	+ 4 31.4	1.435	2.332	13.1	20.6
3 2	12 13.99	+ 5 20.3	1.392	2.347	8.5	20.4
3 12	12 4.36	+ 6 13.5	1.375	2.361	3.9	20.1
3 22	11 53.92	+ 7 2.9	1.385	2.375	3.4	20.1
4 1	11 44.02	+ 7 41.1	1.422	2.389	7.8	20.4
4 11	11 35.85	+ 8 2.8	1.484	2.403	12.2	20.7
4 21	11 30.14	+ 8 6.1	1.568	2.416	15.9	21.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
231783 2000 CR_{15}			3 19.5 6°.38		3°.9/22.8 17	
	h m	° ′			°	m
2 11	12 17.57	−10 6.4	1.559	2.345	18.0	19.5
2 21	12 14.90	−10 29.4	1.478	2.346	14.6	19.3
3 2	12 9.69	−10 31.2	1.417	2.347	10.8	19.1
3 12	12 2.56	−10 12.4	1.379	2.350	6.6	18.9
3 22	11 54.49	− 9 36.0	1.365	2.354	4.0	18.7
4 1	11 46.67	− 8 48.1	1.377	2.358	6.1	18.8
4 11	11 40.24	− 7 56.9	1.415	2.364	10.1	19.1
4 21	11 35.99	− 7 9.9	1.474	2.370	14.0	19.3
153144 2000 SY_{230}			3 19.5 221°.47		0°.9/18.6 17	R
2 11	12 21.84	+ 0 49.1	2.165	2.961	13.2	20.8
2 21	12 17.45	+ 1 14.5	2.069	2.954	10.2	20.6
3 2	12 11.01	+ 1 50.6	1.998	2.947	6.7	20.4
3 12	12 3.06	+ 2 33.6	1.953	2.940	2.9	20.1
3 22	11 54.34	+ 3 18.3	1.938	2.932	1.6	20.0
4 1	11 45.76	+ 3 59.5	1.952	2.924	5.6	20.2
4 11	11 38.22	+ 4 32.0	1.993	2.915	9.3	20.4
4 21	11 32.37	+ 4 52.5	2.059	2.907	12.7	20.6
112183 2002 JD_{100}			3 19.5 186°.78		3°.4/16.5 18	
2 11	12 22.33	+ 5 45.0	1.662	2.485	15.4	20.0
2 21	12 18.35	+ 6 39.5	1.584	2.485	11.8	19.8
3 2	12 11.84	+ 7 44.5	1.529	2.485	7.8	19.6
3 12	12 3.47	+ 8 52.4	1.500	2.484	4.1	19.3
3 22	11 54.21	+ 9 54.9	1.498	2.484	4.4	19.3
4 1	11 45.25	+10 44.1	1.523	2.483	8.2	19.6
4 11	11 37.71	+11 14.5	1.574	2.482	12.3	19.8
4 21	11 32.34	+11 24.1	1.645	2.481	15.9	20.0
501488 2014 CN_{12}			3 19.5 106°.16		0°.1/19.5 17	
2 11	12 20.65	− 1 5.7	2.374	3.162	12.5	21.5
2 21	12 16.24	− 0 55.6	2.290	3.168	9.7	21.3
3 2	12 10.03	− 0 35.5	2.229	3.175	6.4	21.1
3 12	12 2.57	− 0 8.5	2.196	3.181	2.8	20.9
3 22	11 54.53	+ 0 21.8	2.192	3.187	0.9	20.8
4 1	11 46.70	+ 0 51.1	2.218	3.194	4.6	21.1
4 11	11 39.85	+ 1 15.1	2.271	3.200	8.0	21.3
4 21	11 34.53	+ 1 31.0	2.350	3.206	11.0	21.5
69303 1992 EM_{13}			3 19.5 356°.10		3°.4/21.9 18	
2 11	12 22.48	− 7 19.2	1.656	2.440	17.1	18.7
2 21	12 18.61	− 7 57.9	1.568	2.437	13.9	18.5
3 2	12 12.13	− 8 20.6	1.502	2.435	10.0	18.3
3 12	12 3.64	− 8 27.4	1.459	2.433	5.9	18.0
3 22	11 54.13	− 8 20.2	1.442	2.433	3.4	17.9
4 1	11 44.81	− 8 3.2	1.452	2.432	6.0	18.0
4 11	11 36.85	− 7 42.6	1.488	2.433	10.1	18.2
4 21	11 31.12	− 7 24.2	1.547	2.434	14.0	18.5
126145 2001 YH_{132}			3 19.5 229°.40		0°.2/19.6 18	
2 11	12 25.01	− 1 54.6	1.742	2.537	16.0	20.2
2 21	12 20.49	− 1 43.5	1.646	2.528	12.6	19.9
3 2	12 13.35	− 1 17.8	1.573	2.519	8.5	19.7
3 12	12 4.19	− 0 40.7	1.524	2.509	3.8	19.4
3 22	11 53.95	+ 0 2.8	1.504	2.499	1.2	19.1
4 1	11 43.84	+ 0 45.9	1.511	2.489	6.2	19.5
4 11	11 35.03	+ 1 22.1	1.545	2.477	10.8	19.7
4 21	11 28.41	+ 1 46.4	1.603	2.466	14.9	19.9
21893 1999 VL_{4}			3 19.5 259°.22		1°.6/17.9 18	
2 11	12 23.94	+ 1 41.5	2.083	2.880	13.6	19.4
2 21	12 19.42	+ 2 25.4	1.966	2.852	10.6	19.1
3 2	12 12.57	+ 3 22.4	1.873	2.823	7.0	18.8
3 12	12 3.86	+ 4 27.9	1.807	2.793	3.1	18.5
3 22	11 54.04	+ 5 35.9	1.770	2.761	2.5	18.4
4 1	11 44.13	+ 6 38.9	1.762	2.729	6.6	18.6
4 11	11 35.17	+ 7 30.5	1.783	2.696	10.8	18.8
4 21	11 28.02	+ 8 6.1	1.827	2.662	14.6	19.0
386989 2012 QC_{21}			3 19.5 223°.32		2°.4/22.4 17	
2 11	12 20.67	−10 9.3	2.846	3.585	11.8	22.6
2 21	12 16.15	−10 4.0	2.732	3.572	9.6	22.4
3 2	12 9.97	− 9 45.1	2.640	3.559	7.0	22.2
3 12	12 2.57	− 9 13.4	2.576	3.545	4.2	22.0
3 22	11 54.52	− 8 31.4	2.542	3.530	2.4	21.8
4 1	11 46.51	− 7 42.7	2.538	3.515	4.0	21.9
4 11	11 39.22	− 6 51.9	2.563	3.499	6.9	22.1
4 21	11 33.22	− 6 3.6	2.616	3.482	9.7	22.2
50898 2000 GF_{47}			3 19.5 58°.13		0°.4/19.9 18	
2 11	12 18.93	− 3 15.2	2.115	2.905	13.7	19.3
2 21	12 15.19	− 2 55.4	2.029	2.907	10.7	19.1
3 2	12 9.49	− 2 22.2	1.965	2.910	7.2	18.9
3 12	12 2.38	− 1 38.7	1.927	2.912	3.3	18.7
3 22	11 54.60	− 0 49.6	1.918	2.914	1.0	18.5
4 1	11 47.02	− 0 0.5	1.938	2.916	4.9	18.8
4 11	11 40.49	+ 0 43.1	1.985	2.919	8.7	19.0
4 21	11 35.61	+ 1 16.8	2.057	2.921	12.0	19.2

2607 Yakutia 3 19.5 212.°59 0.°0/19.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.65	− 2 9.1	2.099	2.883	14.0	18.3
2 21	12 18.96	− 1 43.8	1.999	2.876	10.9	18.1
3 2	12 12.09	− 1 4.9	1.923	2.868	7.3	17.8
3 12	12 3.57	− 0 15.7	1.873	2.858	3.2	17.6
3 22	11 54.19	+ 0 38.6	1.853	2.849	1.1	17.4
4 1	11 44.93	+ 1 32.1	1.862	2.838	5.4	17.7
4 11	11 36.73	+ 2 18.7	1.900	2.827	9.4	17.9
4 21	11 30.34	+ 2 54.0	1.962	2.814	13.0	18.1

292557 2006 TF_{67} 3 19.5 100.°93 4.°0/23.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.36	−13 29.3	2.489	3.217	13.5	20.6
2 21	12 16.80	−13 54.6	2.400	3.227	11.2	20.4
3 2	12 10.43	−14 4.3	2.333	3.237	8.5	20.3
3 12	12 2.76	−13 58.5	2.292	3.246	5.8	20.1
3 22	11 54.48	−13 38.6	2.278	3.256	4.0	20.0
4 1	11 46.37	−13 7.9	2.294	3.265	4.9	20.1
4 11	11 39.21	−12 31.1	2.337	3.274	7.4	20.3
4 21	11 33.57	−11 53.4	2.407	3.283	10.1	20.4

371040 2005 UJ_{161} 3 19.5 211.°39 0.°3/19.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.95	− 4 2.2	2.560	3.332	12.1	22.8
2 21	12 16.48	− 3 27.0	2.454	3.323	9.5	22.6
3 2	12 10.25	− 2 38.6	2.373	3.314	6.4	22.4
3 12	12 2.70	− 1 40.0	2.320	3.303	2.9	22.1
3 22	11 54.49	− 0 35.6	2.296	3.292	0.8	21.9
4 1	11 46.36	+ 0 29.4	2.304	3.280	4.5	22.2
4 11	11 39.07	+ 1 29.4	2.341	3.267	7.9	22.4
4 21	11 33.20	+ 2 20.0	2.404	3.254	11.0	22.6

295814 2008 US_{328} 3 19.5 230.°29 4.°1/23.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.11	−13 6.5	1.810	2.561	17.1	21.3
2 21	12 19.09	−13 5.9	1.705	2.549	14.2	21.1
3 2	12 12.49	−12 42.1	1.619	2.536	10.6	20.8
3 12	12 3.85	−11 54.7	1.557	2.523	6.8	20.6
3 22	11 54.08	−10 46.7	1.522	2.508	4.2	20.4
4 1	11 44.33	− 9 24.4	1.515	2.493	6.0	20.5
4 11	11 35.78	− 7 57.1	1.535	2.478	10.0	20.6
4 21	11 29.36	− 6 33.9	1.579	2.461	14.1	20.8

421639 2014 OQ_{305} 3 19.5 71.°46 5.°1/14.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.80	+ 7 45.3	1.427	2.265	16.6	21.2
2 21	12 17.53	+ 9 10.4	1.359	2.268	12.7	21.0
3 2	12 11.46	+10 46.4	1.314	2.271	8.5	20.8
3 12	12 3.35	+12 22.8	1.293	2.274	5.4	20.6
3 22	11 54.29	+13 48.2	1.299	2.277	6.4	20.6
4 1	11 45.63	+14 52.6	1.330	2.279	10.2	20.9
4 11	11 38.58	+15 30.2	1.384	2.282	14.4	21.1
4 21	11 33.95	+15 39.9	1.458	2.285	18.0	21.3

402010 2003 QP_{104} 3 19.5 59.°83 1.°1/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 35.29	− 2 24.5	1.399	2.189	19.5	20.2
2 21	12 28.06	− 2 44.3	1.357	2.234	15.1	20.0
3 2	12 17.92	− 2 48.4	1.335	2.278	10.0	19.9
3 12	12 5.94	− 2 40.1	1.339	2.323	4.7	19.7
3 22	11 53.52	− 2 24.4	1.371	2.366	1.5	19.6
4 1	11 42.14	− 2 7.3	1.431	2.409	6.2	20.0
4 11	11 32.93	− 1 54.3	1.517	2.452	10.7	20.3
4 21	11 26.53	− 1 49.3	1.626	2.493	14.5	20.7

33100 Udine 3 19.5 74.°93 3.°6/16.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.35	+ 6 47.0	1.450	2.278	17.0	18.6
2 21	12 20.94	+ 7 23.2	1.383	2.285	13.1	18.4
3 2	12 13.64	+ 8 7.9	1.336	2.292	8.6	18.1
3 12	12 4.27	+ 8 53.7	1.315	2.299	4.5	17.9
3 22	11 54.01	+ 9 32.4	1.320	2.307	4.5	17.9
4 1	11 44.21	+ 9 56.7	1.351	2.314	8.7	18.2
4 11	11 36.15	+10 2.4	1.407	2.321	13.0	18.4
4 21	11 30.60	+ 9 48.5	1.483	2.329	16.8	18.7

414243 2008 GW_{17} 3 19.5 75.°91 1.°7/17.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.12	− 0 16.6	1.698	2.513	15.5	20.8
2 21	12 15.02	+ 0 52.7	1.622	2.517	11.9	20.6
3 2	12 9.59	+ 2 18.8	1.567	2.522	7.7	20.3
3 12	12 2.48	+ 3 54.9	1.539	2.527	3.3	20.1
3 22	11 54.60	+ 5 31.9	1.539	2.531	2.6	20.0
4 1	11 47.01	+ 7 0.4	1.567	2.536	7.0	20.3
4 11	11 40.71	+ 8 12.4	1.620	2.541	11.2	20.6
4 21	11 36.40	+ 9 3.6	1.696	2.545	14.8	20.8

339444 2005 EH_{160} 3 19.5 83.°99 0.°7/18.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.72	− 0 24.1	2.121	2.921	13.3	21.0
2 21	12 14.98	+ 0 11.5	2.041	2.928	10.3	20.8
3 2	12 9.31	+ 0 59.1	1.985	2.935	6.7	20.6
3 12	12 2.30	+ 1 54.1	1.956	2.942	2.8	20.4
3 22	11 54.67	+ 2 51.2	1.955	2.949	1.5	20.3
4 1	11 47.29	+ 3 44.4	1.983	2.956	5.3	20.6
4 11	11 40.97	+ 4 28.3	2.038	2.963	9.0	20.8
4 21	11 36.28	+ 4 59.6	2.117	2.970	12.2	21.0

310931 2003 SC_{268} 3 19.5 91.°81 0.°2/19.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.32	− 3 8.7	1.641	2.439	16.7	21.2
2 21	12 18.97	− 2 39.9	1.573	2.457	13.0	21.0
3 2	12 12.13	− 1 54.3	1.527	2.475	8.6	20.8
3 12	12 3.55	− 0 56.6	1.507	2.492	3.8	20.5
3 22	11 54.27	+ 0 6.5	1.514	2.509	1.2	20.4
4 1	11 45.43	+ 1 7.1	1.548	2.526	6.0	20.7
4 11	11 38.08	+ 1 58.2	1.609	2.543	10.3	21.0
4 21	11 32.92	+ 2 35.1	1.693	2.559	14.1	21.3

235945 2005 EV_{143} 3 19.5 246.°54 0.°5/18.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.51	− 0 17.4	2.208	3.005	13.0	21.0
2 21	12 15.61	+ 0 7.2	2.116	3.000	10.1	20.8
3 2	12 9.77	+ 0 43.1	2.047	2.995	6.6	20.5
3 12	12 2.53	+ 1 26.5	2.005	2.991	2.8	20.3
3 22	11 54.59	+ 2 12.7	1.991	2.986	1.3	20.2
4 1	11 46.81	+ 2 56.3	2.007	2.981	5.2	20.4
4 11	11 40.01	+ 3 32.3	2.050	2.976	8.9	20.6
4 21	11 34.81	+ 3 57.2	2.118	2.971	12.1	20.8

5699 Munch 3 19.5 117.°02 2.°5/21.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.47	− 9 13.1	1.834	2.600	16.4	18.2
2 21	12 18.93	− 9 2.2	1.757	2.616	13.1	18.0
3 2	12 12.05	− 8 31.7	1.701	2.631	9.3	17.8
3 12	12 3.52	− 7 43.6	1.671	2.646	5.2	17.6
3 22	11 54.27	− 6 42.9	1.668	2.660	2.5	17.4
4 1	11 45.37	− 5 36.1	1.693	2.673	5.3	17.6
4 11	11 37.81	− 4 31.2	1.746	2.687	9.2	17.9
4 21	11 32.28	− 3 34.5	1.824	2.699	12.8	18.1

284307 2006 QR_{13} 3 19.5 277.°96 4.°6/23.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.94	−13 57.3	2.240	2.974	14.7	20.5
2 21	12 16.88	−14 28.1	2.134	2.964	12.3	20.3
3 2	12 10.75	−14 42.0	2.049	2.953	9.5	20.1
3 12	12 3.01	−14 38.2	1.989	2.943	6.6	19.9
3 22	11 54.41	−14 17.8	1.955	2.932	4.7	19.8
4 1	11 45.83	−13 43.7	1.950	2.922	5.6	19.8
4 11	11 38.21	−13 1.5	1.973	2.911	8.4	20.0
4 21	11 32.26	−12 17.2	2.020	2.901	11.5	20.1

378790 2008 SA_{79} 3 19.5 146.°59 1.°0/20.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.75	− 5 2.6	2.287	3.062	13.3	21.6
2 21	12 16.43	− 4 47.2	2.200	3.069	10.4	21.4
3 2	12 10.23	− 4 18.3	2.136	3.075	7.1	21.2
3 12	12 2.70	− 3 38.5	2.099	3.080	3.5	21.0
3 22	11 54.54	− 2 51.8	2.091	3.086	1.2	20.8
4 1	11 46.60	− 2 3.4	2.112	3.091	4.5	21.1
4 11	11 39.66	− 1 18.4	2.162	3.096	8.0	21.3
4 21	11 34.30	− 0 41.3	2.236	3.100	11.2	21.5

61377 2000 PO_{28} 3 19.5 263.°51 3.°5/22.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.66	−10 50.5	1.629	2.403	17.8	19.8
2 21	12 17.43	−10 47.1	1.528	2.389	14.6	19.5
3 2	12 11.52	−10 20.0	1.447	2.375	10.7	19.3
3 12	12 3.48	− 9 29.5	1.388	2.361	6.4	19.0
3 22	11 54.24	− 8 19.4	1.356	2.347	3.5	18.7
4 1	11 45.03	− 6 57.1	1.351	2.332	6.1	18.9
4 11	11 37.12	− 5 32.7	1.372	2.317	10.7	19.1
4 21	11 31.44	− 4 15.4	1.415	2.302	15.0	19.3

383704 2007 TV_{441} 3 19.5 128.°70 3.°5/23.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.01	−13 5.0	2.516	3.248	13.3	21.6
2 21	12 15.74	−13 11.3	2.426	3.257	10.9	21.5
3 2	12 9.72	−13 1.3	2.358	3.266	8.2	21.3
3 12	12 2.46	−12 35.7	2.316	3.275	5.4	21.1
3 22	11 54.63	−11 57.0	2.302	3.284	3.5	21.0
4 1	11 46.97	−11 8.9	2.317	3.292	4.6	21.1
4 11	11 40.24	−10 17.0	2.361	3.300	7.2	21.3
4 21	11 34.97	− 9 26.3	2.431	3.308	9.9	21.5

60390 2000 AD_{223} 3 19.5 241.°26 2.°0/17.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.90	+ 1 54.1	1.646	2.458	16.0	20.2
2 21	12 19.84	+ 2 39.7	1.550	2.444	12.5	19.9
3 2	12 13.05	+ 3 40.5	1.477	2.430	8.2	19.6
3 12	12 4.13	+ 4 50.5	1.429	2.415	3.6	19.3
3 22	11 54.04	+ 6 1.7	1.408	2.400	3.0	19.3
4 1	11 44.04	+ 7 5.2	1.415	2.384	7.7	19.5
4 11	11 35.38	+ 7 53.3	1.448	2.367	12.4	19.7
4 21	11 28.99	+ 8 21.8	1.503	2.350	16.5	19.9

227877 2007 ER_{21} 3 19.5 313.°23 1.°7/18.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.10	+ 0 59.3	1.580	2.405	16.0	19.9
2 21	12 14.74	+ 1 40.1	1.478	2.379	12.5	19.6
3 2	12 9.78	+ 2 37.7	1.396	2.353	8.2	19.3
3 12	12 2.74	+ 3 46.9	1.340	2.327	3.6	18.9
3 22	11 54.49	+ 5 0.0	1.309	2.302	2.7	18.8
4 1	11 46.23	+ 6 7.7	1.305	2.278	7.6	19.0
4 11	11 39.18	+ 7 1.3	1.325	2.254	12.5	19.2
4 21	11 34.31	+ 7 35.2	1.367	2.231	16.9	19.4

83581 2001 SX_{232} 3 19.5 263°.32 0°.4/19.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 17.54	− 1 19.9	2.294	3.089	12.6	20.0
2 21	12 14.03	− 0 45.2	2.201	3.084	9.8	19.8
3 2	12 8.70	+ 0 1.6	2.131	3.079	6.4	19.6
3 12	12 2.06	+ 0 57.0	2.088	3.074	2.8	19.3
3 22	11 54.77	+ 1 55.8	2.074	3.069	1.2	19.2
4 1	11 47.62	+ 2 52.4	2.089	3.064	5.0	19.5
4 11	11 41.38	+ 3 41.4	2.132	3.058	8.6	19.7
4 21	11 36.65	+ 4 18.9	2.199	3.053	11.7	19.8

163463 2002 RQ_{161} 3 19.5 81°.89 0°.1/19.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.86	− 2 18.6	2.174	2.964	13.4	20.3
2 21	12 15.69	− 1 44.9	2.105	2.985	10.3	20.2
3 2	12 9.68	− 0 58.7	2.060	3.006	6.8	20.0
3 12	12 2.43	− 0 4.3	2.042	3.027	2.9	19.8
3 22	11 54.67	+ 0 53.3	2.052	3.048	1.0	19.6
4 1	11 47.25	+ 1 48.2	2.092	3.068	4.9	20.0
4 11	11 40.92	+ 2 35.2	2.160	3.089	8.4	20.2
4 21	11 36.21	+ 3 10.9	2.253	3.109	11.4	20.4

127577 2003 AF_{44} 3 19.5 99°.19 0°.9/18.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.14	+ 0 9.2	1.509	2.314	17.6	20.9
2 21	12 22.81	+ 0 33.7	1.448	2.336	13.5	20.7
3 2	12 14.71	+ 1 12.4	1.408	2.358	8.8	20.5
3 12	12 4.69	+ 1 59.7	1.393	2.379	3.7	20.3
3 22	11 53.93	+ 2 48.5	1.405	2.400	1.9	20.2
4 1	11 43.77	+ 3 31.3	1.445	2.419	6.8	20.5
4 11	11 35.38	+ 4 2.0	1.511	2.439	11.3	20.8
4 21	11 29.47	+ 4 17.5	1.600	2.457	15.2	21.1

303315 2004 TX_{58} 3 19.5 215°.08 0°.4/19.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.54	− 4 4.5	1.749	2.541	16.0	21.4
2 21	12 18.54	− 3 35.0	1.656	2.536	12.6	21.2
3 2	12 12.04	− 2 47.2	1.585	2.530	8.6	20.9
3 12	12 3.63	− 1 45.0	1.539	2.523	3.9	20.6
3 22	11 54.23	− 0 34.3	1.520	2.516	1.1	20.4
4 1	11 44.99	+ 0 36.9	1.530	2.508	6.0	20.7
4 11	11 37.03	+ 1 40.4	1.567	2.500	10.6	20.9
4 21	11 31.17	+ 2 30.2	1.627	2.492	14.6	21.2

46518 1978 VH_{10} 3 19.5 135°.19 1°.5/17.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.68	+ 2 31.5	2.251	3.054	12.5	19.4
2 21	12 15.62	+ 3 9.4	2.169	3.059	9.6	19.2
3 2	12 9.70	+ 3 56.5	2.112	3.064	6.2	19.0
3 12	12 2.47	+ 4 48.2	2.082	3.069	2.7	18.8
3 22	11 54.65	+ 5 39.2	2.081	3.073	2.2	18.8
4 1	11 47.05	+ 6 24.2	2.110	3.077	5.6	19.0
4 11	11 40.47	+ 6 58.5	2.166	3.081	9.0	19.2
4 21	11 35.46	+ 7 19.5	2.246	3.085	12.0	19.4

12964 1071 $T\text{-}_3$ 3 19.5 224°.70 2°.1/21.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.06	− 6 53.1	1.911	2.683	15.6	18.7
2 21	12 19.57	− 6 56.0	1.811	2.675	12.5	18.5
3 2	12 12.66	− 6 42.3	1.733	2.666	8.8	18.2
3 12	12 3.90	− 6 13.5	1.680	2.657	4.8	18.0
3 22	11 54.14	− 5 33.0	1.654	2.648	2.1	17.8
4 1	11 44.47	− 4 46.3	1.658	2.638	5.4	17.9
4 11	11 35.97	− 4 0.1	1.689	2.627	9.6	18.2
4 21	11 29.46	− 3 20.3	1.744	2.616	13.4	18.4

229965 1999 TY_{185} 3 19.5 173°.34 3°.0/22.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.33	−11 19.9	2.475	3.215	13.3	21.3
2 21	12 16.83	−11 23.2	2.378	3.217	10.8	21.1
3 2	12 10.49	−11 10.9	2.304	3.220	8.0	20.9
3 12	12 2.83	−10 43.7	2.256	3.221	5.0	20.7
3 22	11 54.52	−10 4.3	2.236	3.223	3.0	20.6
4 1	11 46.36	− 9 16.6	2.247	3.223	4.5	20.7
4 11	11 39.11	− 8 26.0	2.286	3.224	7.4	20.9
4 21	11 33.38	− 7 37.7	2.351	3.223	10.4	21.1

457261 2008 RY_{25} 3 19.5 313°.79 5°.9/16.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 38.56	+14 39.9	1.557	2.366	16.9	20.4
2 21	12 32.33	+14 39.0	1.429	2.316	13.8	20.1
3 2	12 22.19	+14 35.2	1.322	2.266	10.0	19.7
3 12	12 8.55	+14 20.0	1.240	2.216	6.5	19.4
3 22	11 52.47	+13 44.8	1.187	2.165	6.7	19.3
4 1	11 35.72	+12 43.3	1.162	2.114	11.0	19.3
4 11	11 20.33	+11 14.4	1.163	2.064	16.3	19.5
4 21	11 7.92	+ 9 21.8	1.187	2.013	21.3	19.6

225875 2001 YS_{25} 3 19.5 220°.48 0°.6/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.45	− 4 1.7	2.201	2.981	13.6	21.7
2 21	12 17.19	− 3 41.2	2.101	2.973	10.7	21.5
3 2	12 10.88	− 3 6.8	2.023	2.964	7.3	21.2
3 12	12 3.06	− 2 21.1	1.972	2.956	3.4	21.0
3 22	11 54.45	− 1 28.5	1.950	2.946	1.0	20.8
4 1	11 45.95	− 0 34.5	1.958	2.936	4.9	21.0
4 11	11 38.43	+ 0 14.8	1.994	2.926	8.8	21.2
4 21	11 32.58	+ 0 54.9	2.054	2.915	12.2	21.4

57069 2001 OA_3 3 19.5 180°.71 5°.3/13.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 20.96	+11 52.4	2.055	2.879	12.8	19.6
2 21	12 16.87	+13 21.7	1.981	2.880	9.9	19.4
3 2	12 10.66	+14 55.6	1.932	2.880	7.0	19.2
3 12	12 2.94	+16 26.0	1.911	2.880	5.3	19.1
3 22	11 54.52	+17 44.4	1.918	2.880	6.3	19.2
4 1	11 46.34	+18 44.1	1.953	2.879	9.1	19.4
4 11	11 39.30	+19 21.1	2.013	2.878	12.1	19.5
4 21	11 34.06	+19 34.9	2.095	2.876	14.8	19.7

96159 1978 VR_3 3 19.5 123°.16 0°.7/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.87	− 4 35.5	1.835	2.620	15.7	21.0
2 21	12 19.20	− 4 8.3	1.761	2.635	12.3	20.8
3 2	12 12.22	− 3 24.5	1.708	2.650	8.3	20.6
3 12	12 3.62	− 2 27.8	1.681	2.664	3.9	20.3
3 22	11 54.31	− 1 24.3	1.682	2.678	1.1	20.1
4 1	11 45.36	− 0 21.0	1.713	2.691	5.4	20.5
4 11	11 37.76	+ 0 35.2	1.770	2.704	9.6	20.7
4 21	11 32.18	+ 1 19.2	1.852	2.715	13.2	21.0

5913 1990 BU 3 19.5 190°.86 3°.6/23.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.14	−11 58.6	2.360	3.094	14.0	17.3
2 21	12 19.15	−12 17.6	2.259	3.093	11.5	17.1
3 2	12 12.13	−12 20.7	2.180	3.091	8.6	16.9
3 12	12 3.60	−12 8.2	2.127	3.089	5.6	16.7
3 22	11 54.30	−11 41.6	2.103	3.086	3.7	16.6
4 1	11 45.09	−11 4.6	2.108	3.082	5.0	16.7
4 11	11 36.86	−10 22.5	2.142	3.078	8.0	16.9
4 21	11 30.29	− 9 40.6	2.201	3.073	11.0	17.0

228354 2000 SD_{315} 3 19.5 184°.70 5°.4/25.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.71	−18 13.6	2.328	3.033	14.9	20.9
2 21	12 17.37	−18 34.9	2.229	3.033	12.7	20.7
3 2	12 11.00	−18 36.4	2.149	3.033	10.1	20.5
3 12	12 3.12	−18 17.1	2.094	3.032	7.4	20.4
3 22	11 54.46	−17 38.2	2.065	3.031	5.6	20.2
4 1	11 45.91	−16 43.3	2.065	3.030	6.0	20.3
4 11	11 38.36	−15 38.6	2.093	3.028	8.2	20.4
4 21	11 32.47	−14 30.8	2.146	3.025	11.0	20.5

168728 2000 OZ_{33} 3 19.5 164°.20 2°.1/21.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.40	− 9 6.1	2.250	3.001	14.2	21.8
2 21	12 19.31	− 8 49.8	2.159	3.009	11.4	21.6
3 2	12 12.19	− 8 16.6	2.090	3.016	8.1	21.4
3 12	12 3.60	− 7 28.5	2.048	3.022	4.5	21.2
3 22	11 54.32	− 6 29.4	2.035	3.027	2.1	21.0
4 1	11 45.26	− 5 24.8	2.052	3.031	4.6	21.2
4 11	11 37.27	− 4 21.2	2.099	3.034	8.2	21.4
4 21	11 31.01	− 3 24.2	2.172	3.036	11.4	21.6

140884 2001 VH_{25} 3 19.5 159°.30 4°.0/14.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.73	+12 44.8	2.596	3.410	10.8	20.2
2 21	12 16.18	+13 31.6	2.521	3.414	8.3	20.1
3 2	12 9.95	+14 19.8	2.471	3.417	5.8	19.9
3 12	12 2.57	+15 4.1	2.449	3.420	4.1	19.8
3 22	11 54.68	+15 39.6	2.456	3.423	4.7	19.8
4 1	11 47.01	+16 2.2	2.492	3.425	7.0	20.0
4 11	11 40.28	+16 9.8	2.555	3.428	9.5	20.1
4 21	11 34.98	+16 1.8	2.641	3.430	11.9	20.3

63927 2001 SU_{45} 3 19.5 100°.13 0°.2/19.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.47	− 1 36.9	1.813	2.613	15.2	20.3
2 21	12 17.46	− 1 11.7	1.734	2.620	11.8	20.1
3 2	12 11.14	− 0 32.2	1.678	2.627	7.8	19.9
3 12	12 3.18	+ 0 17.3	1.647	2.633	3.4	19.6
3 22	11 54.47	+ 1 10.9	1.645	2.640	1.3	19.5
4 1	11 46.05	+ 2 2.0	1.670	2.647	5.8	19.8
4 11	11 38.92	+ 2 44.2	1.722	2.653	9.9	20.0
4 21	11 33.75	+ 3 13.5	1.797	2.659	13.6	20.3

27159 1999 AA_2 3 19.5 164°.19 2°.3/21.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.28	− 8 38.1	1.948	2.717	15.4	19.1
2 21	12 17.26	− 8 29.6	1.858	2.719	12.4	18.9
3 2	12 11.02	− 8 2.8	1.791	2.722	8.8	18.6
3 12	12 3.14	− 7 19.5	1.748	2.724	4.9	18.4
3 22	11 54.47	− 6 23.9	1.733	2.726	2.3	18.2
4 1	11 46.00	− 5 22.0	1.747	2.727	5.1	18.4
4 11	11 38.70	− 4 21.0	1.788	2.728	9.0	18.6
4 21	11 33.28	− 3 27.3	1.853	2.729	12.6	18.9

500359 2012 TC_{28} 3 19.5 91°.59 0°.6/20.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.72	− 6 11.4	2.272	3.051	13.2	21.3
2 21	12 13.33	− 5 20.4	2.190	3.062	10.4	21.1
3 2	12 8.19	− 4 13.3	2.132	3.073	7.0	20.9
3 12	12 1.82	− 2 53.9	2.101	3.084	3.3	20.7
3 22	11 54.92	− 1 28.0	2.099	3.095	0.9	20.5
4 1	11 48.26	− 0 2.4	2.127	3.106	4.5	20.8
4 11	11 42.56	+ 1 16.4	2.184	3.116	8.0	21.0
4 21	11 38.35	+ 2 23.2	2.265	3.127	11.1	21.2

5770 1987 *RY* 3 19.5 239.°50 0.°1/19.4 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 17.89	− 1 26.9	2.824	3.607	10.8	18.4
2 21	12 13.99	− 1 0.9	2.719	3.595	8.4	18.2
3 2	12 8.55	− 0 25.1	2.638	3.583	5.6	18.0
3 12	12 1.99	+ 0 17.8	2.586	3.571	2.4	17.8
3 22	11 54.87	+ 1 3.9	2.563	3.559	0.9	17.6
4 1	11 47.81	+ 1 49.1	2.571	3.546	4.2	17.9
4 11	11 41.48	+ 2 29.3	2.608	3.533	7.3	18.1
4 21	11 36.37	+ 3 1.1	2.670	3.520	10.1	18.2

81385 2000 GM_{72} 3 19.5 223.°70 1.°8/17.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.59	+ 3 19.4	2.298	3.096	12.5	20.2
2 21	12 17.98	+ 3 57.9	2.198	3.085	9.6	20.0
3 2	12 11.38	+ 4 45.7	2.123	3.074	6.3	19.8
3 12	12 3.29	+ 5 38.2	2.076	3.061	2.9	19.5
3 22	11 54.43	+ 6 30.1	2.058	3.048	2.5	19.5
4 1	11 45.68	+ 7 15.7	2.070	3.035	6.0	19.7
4 11	11 37.88	+ 7 50.2	2.110	3.020	9.5	19.8
4 21	11 31.70	+ 8 10.8	2.174	3.005	12.7	20.0

462903 2010 XR_{48} 3 19.5 92.°00 3.°7/15.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.26	+ 6 15.0	1.819	2.640	14.4	21.0
2 21	12 17.13	+ 7 35.4	1.760	2.660	10.9	20.8
3 2	12 10.80	+ 9 4.4	1.726	2.680	7.1	20.6
3 12	12 2.98	+10 33.6	1.718	2.700	4.1	20.5
3 22	11 54.57	+11 54.5	1.739	2.719	4.7	20.6
4 1	11 46.60	+12 59.6	1.787	2.738	8.0	20.8
4 11	11 39.96	+13 44.3	1.862	2.757	11.4	21.1
4 21	11 35.26	+14 7.4	1.958	2.775	14.4	21.3

265561 2005 QW_{29} 3 19.5 94.°86 2.°1/21.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.77	− 6 37.8	2.023	2.787	15.1	21.5
2 21	12 21.14	− 6 47.6	1.953	2.812	12.0	21.3
3 2	12 13.35	− 6 42.7	1.905	2.837	8.4	21.1
3 12	12 4.08	− 6 24.8	1.884	2.861	4.5	21.0
3 22	11 54.22	− 5 57.3	1.892	2.885	2.1	20.8
4 1	11 44.77	− 5 25.1	1.929	2.908	4.9	21.1
4 11	11 36.64	− 4 53.5	1.994	2.930	8.5	21.3
4 21	11 30.45	− 4 27.1	2.085	2.953	11.7	21.6

461604 2004 TA_{186} 3 19.5 202.°19 1.°9/17.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.28	+ 5 7.0	2.069	2.872	13.5	21.2
2 21	12 20.16	+ 5 20.1	1.981	2.870	10.4	20.9
3 2	12 12.84	+ 5 39.8	1.918	2.868	6.8	20.7
3 12	12 3.93	+ 6 1.7	1.881	2.866	3.1	20.5
3 22	11 54.25	+ 6 21.2	1.873	2.864	2.6	20.4
4 1	11 44.80	+ 6 33.7	1.895	2.862	6.2	20.7
4 11	11 36.53	+ 6 35.6	1.944	2.859	9.9	20.9
4 21	11 30.12	+ 6 25.3	2.017	2.856	13.2	21.1

491517 2012 JX_{44} 3 19.5 43.°10 6.°5/26.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.08	−18 54.2	1.598	2.338	19.5	20.6
2 21	12 15.29	−19 8.2	1.522	2.349	16.5	20.5
3 2	12 9.94	−18 53.1	1.464	2.361	13.0	20.3
3 12	12 2.72	−18 7.9	1.427	2.374	9.4	20.1
3 22	11 54.64	−16 55.7	1.415	2.387	6.8	20.0
4 1	11 46.90	−15 23.6	1.428	2.400	7.1	20.0
4 11	11 40.61	−13 42.4	1.467	2.414	10.0	20.2
4 21	11 36.52	−12 3.0	1.529	2.428	13.4	20.4

363396 2003 BE_{93} 3 19.5 106.°04 4.°6/16.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.85	+ 8 50.3	1.431	2.260	17.1	21.2
2 21	12 22.18	+ 9 34.9	1.364	2.267	13.2	20.9
3 2	12 14.53	+10 26.3	1.319	2.274	8.8	20.7
3 12	12 4.73	+11 16.1	1.298	2.280	5.1	20.5
3 22	11 53.99	+11 55.4	1.304	2.286	5.6	20.5
4 1	11 43.76	+12 17.0	1.336	2.292	9.5	20.8
4 11	11 35.33	+12 17.1	1.392	2.298	13.7	21.0
4 21	11 29.50	+11 55.7	1.468	2.304	17.4	21.3

329838 2004 SM_{58} 3 19.5 271.°74 1.°7/21.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.43	− 7 20.9	2.250	3.015	13.7	22.1
2 21	12 17.39	− 7 3.5	2.123	2.984	11.1	21.9
3 2	12 11.21	− 6 29.2	2.019	2.952	7.9	21.6
3 12	12 3.32	− 5 39.6	1.940	2.918	4.2	21.3
3 22	11 54.41	− 4 38.1	1.891	2.885	1.7	21.1
4 1	11 45.36	− 3 30.1	1.871	2.850	4.9	21.3
4 11	11 37.13	− 2 22.5	1.879	2.815	9.0	21.4
4 21	11 30.51	− 1 21.7	1.913	2.779	12.7	21.6

232301 2002 RT_{249} 3 19.5 9.°48 0.°4/19.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.53	− 1 12.5	2.076	2.875	13.6	21.1
2 21	12 14.97	− 0 39.4	1.990	2.875	10.6	20.9
3 2	12 9.42	+ 0 6.6	1.926	2.875	6.9	20.6
3 12	12 2.43	+ 1 1.5	1.889	2.875	3.0	20.4
3 22	11 54.76	+ 1 59.8	1.881	2.876	1.3	20.2
4 1	11 47.29	+ 2 55.3	1.901	2.876	5.4	20.5
4 11	11 40.87	+ 3 42.3	1.948	2.876	9.2	20.8
4 21	11 36.11	+ 4 16.7	2.019	2.876	12.5	21.0

123415 2000 WN_{99} 3 19.5 95.°99 2.°2/21.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 20.72	− 8 23.4	1.992	2.762	15.1	20.2
2 21	12 16.70	− 8 16.0	1.911	2.773	12.1	20.0
3 2	12 10.57	− 7 51.1	1.852	2.783	8.6	19.8
3 12	12 2.94	− 7 10.8	1.818	2.794	4.8	19.6
3 22	11 54.62	− 6 19.4	1.811	2.804	2.2	19.5
4 1	11 46.57	− 5 22.5	1.834	2.814	4.9	19.7
4 11	11 39.69	− 4 26.9	1.883	2.824	8.6	19.9
4 21	11 34.61	− 3 38.3	1.958	2.834	12.0	20.1

83827 2001 UA_{21} 3 19.5 266.°08 4.°9/24.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.67	−16 33.2	2.333	3.054	14.5	19.7
2 21	12 15.08	−16 49.0	2.227	3.045	12.2	19.5
3 2	12 9.53	−16 45.7	2.142	3.036	9.6	19.3
3 12	12 2.52	−16 22.8	2.080	3.027	6.9	19.1
3 22	11 54.74	−15 41.6	2.046	3.018	5.0	19.0
4 1	11 47.01	−14 46.0	2.040	3.009	5.6	19.0
4 11	11 40.19	−13 41.8	2.061	3.000	8.0	19.1
4 21	11 34.94	−12 35.8	2.108	2.991	10.9	19.3

512299 2016 GJ_{247} 3 19.5 264.°52 1.°3/20.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.18	− 5 42.2	2.016	2.797	14.6	21.6
2 21	12 16.51	− 5 26.4	1.910	2.781	11.6	21.3
3 2	12 10.63	− 4 54.1	1.826	2.765	8.1	21.1
3 12	12 3.06	− 4 7.6	1.768	2.749	4.1	20.8
3 22	11 54.56	− 3 11.2	1.738	2.733	1.4	20.6
4 1	11 46.09	− 2 10.8	1.736	2.716	5.2	20.8
4 11	11 38.65	− 1 13.5	1.762	2.699	9.3	21.0
4 21	11 32.99	− 0 25.1	1.811	2.682	13.1	21.2

266887 Wolfgangries 3 19.5 246.°40 1.°5/17.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.69	+ 1 41.8	2.090	2.894	13.4	21.1
2 21	12 16.76	+ 2 24.6	1.991	2.880	10.4	20.9
3 2	12 10.70	+ 3 19.4	1.915	2.866	6.8	20.6
3 12	12 3.06	+ 4 21.3	1.866	2.852	3.0	20.3
3 22	11 54.57	+ 5 24.4	1.845	2.837	2.3	20.3
4 1	11 46.17	+ 6 21.9	1.854	2.822	6.2	20.5
4 11	11 38.78	+ 7 8.1	1.890	2.807	10.1	20.7
4 21	11 33.12	+ 7 39.1	1.949	2.791	13.5	20.9

142496 2002 TK_{31} 3 19.5 88.°99 2.°2/17.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.01	+ 3 23.4	1.688	2.503	15.5	19.9
2 21	12 18.75	+ 4 0.8	1.617	2.514	11.9	19.7
3 2	12 12.05	+ 4 49.0	1.570	2.524	7.7	19.4
3 12	12 3.61	+ 5 41.9	1.548	2.534	3.5	19.2
3 22	11 54.42	+ 6 32.4	1.553	2.544	3.0	19.2
4 1	11 45.63	+ 7 13.6	1.586	2.554	7.1	19.5
4 11	11 38.26	+ 7 40.3	1.645	2.564	11.2	19.7
4 21	11 33.03	+ 7 50.1	1.726	2.574	14.7	20.0

344810 2004 BZ_{130} 3 19.5 210.°31 2.°1/17.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.24	+ 3 45.6	2.222	3.032	12.5	21.7
2 21	12 14.62	+ 4 35.8	2.137	3.031	9.5	21.5
3 2	12 9.13	+ 5 35.3	2.076	3.030	6.2	21.3
3 12	12 2.30	+ 6 38.8	2.043	3.029	2.9	21.1
3 22	11 54.85	+ 7 40.4	2.039	3.028	2.9	21.0
4 1	11 47.58	+ 8 34.1	2.064	3.026	6.1	21.3
4 11	11 41.29	+ 9 15.0	2.115	3.025	9.5	21.5
4 21	11 36.56	+ 9 40.5	2.190	3.024	12.5	21.6

164496 2006 GD_{14} 3 19.5 25.°69 1.°2/18.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.03	− 1 20.0	1.092	1.934	20.4	19.4
2 21	12 15.23	− 0 34.6	1.034	1.944	15.7	19.2
3 2	12 10.24	+ 0 33.2	0.995	1.954	10.3	18.9
3 12	12 2.94	+ 1 55.6	0.978	1.966	4.3	18.6
3 22	11 54.65	+ 3 21.0	0.984	1.978	2.4	18.5
4 1	11 46.90	+ 4 37.2	1.014	1.992	8.2	18.9
4 11	11 41.08	+ 5 34.0	1.066	2.007	13.6	19.2
4 21	11 38.00	+ 6 6.7	1.138	2.022	18.1	19.5

207692 2007 RU_{27} 3 19.5 232.°29 5.°2/14.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.11	+10 20.7	1.711	2.536	14.9	20.6
2 21	12 19.85	+11 28.4	1.627	2.528	11.6	20.4
3 2	12 12.97	+12 43.2	1.567	2.518	8.0	20.1
3 12	12 4.10	+13 56.4	1.532	2.509	5.4	20.0
3 22	11 54.24	+14 58.8	1.525	2.498	6.3	20.0
4 1	11 44.59	+15 42.5	1.545	2.488	9.7	20.2
4 11	11 36.32	+16 2.9	1.589	2.477	13.5	20.4
4 21	11 30.26	+15 59.2	1.654	2.465	16.9	20.6

135655 2002 LC_{20} 3 19.5 314.°29 4.°3/22.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.18	− 9 8.7	1.389	2.183	19.4	19.5
2 21	12 17.64	− 9 43.1	1.289	2.163	16.0	19.2
3 2	12 12.04	− 9 56.7	1.208	2.142	11.8	18.9
3 12	12 3.92	− 9 48.4	1.149	2.123	7.3	18.6
3 22	11 54.26	− 9 19.9	1.114	2.103	4.3	18.3
4 1	11 44.51	− 8 36.5	1.103	2.085	7.1	18.4
4 11	11 36.19	− 7 47.2	1.116	2.067	12.0	18.6
4 21	11 30.46	− 7 1.1	1.151	2.050	16.8	18.9

129425 3497 $T\text{-}_3$ 3 19.5 138°.01 0°.2/19.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 20.78	− 2 12.2	1.851	2.649	15.1	20.1
2 21	12 16.93	− 1 37.3	1.769	2.653	11.7	19.9
3 2	12 10.83	− 0 47.2	1.709	2.657	7.8	19.6
3 12	12 3.10	+ 0 13.8	1.675	2.661	3.4	19.4
3 22	11 54.61	+ 1 19.4	1.670	2.665	1.3	19.2
4 1	11 46.37	+ 2 22.4	1.692	2.669	5.8	19.5
4 11	11 39.36	+ 3 15.9	1.742	2.672	9.9	19.8
4 21	11 34.27	+ 3 55.5	1.815	2.675	13.5	20.0

163344 2002 MS_2 3 19.5 301°.77 3°.7/22.7 18

2 11	12 19.53	−10 26.9	1.893	2.660	15.9	19.9
2 21	12 16.28	−10 43.9	1.782	2.638	13.1	19.6
3 2	12 10.66	−10 42.6	1.691	2.616	9.7	19.4
3 12	12 3.15	−10 22.8	1.625	2.594	6.1	19.1
3 22	11 54.55	− 9 46.5	1.585	2.572	3.7	18.9
4 1	11 45.88	− 8 58.4	1.572	2.551	5.7	19.0
4 11	11 38.25	− 8 5.3	1.585	2.530	9.6	19.1
4 21	11 32.53	− 7 14.3	1.622	2.509	13.5	19.3

251021 2006 QQ_{36} 3 19.5 166°.75 2°.8/16.6 18

2 11	12 23.16	+ 5 26.3	2.102	2.909	13.2	21.4
2 21	12 18.47	+ 6 22.0	2.022	2.914	10.1	21.2
3 2	12 11.69	+ 7 26.1	1.967	2.919	6.6	21.0
3 12	12 3.44	+ 8 32.7	1.939	2.923	3.4	20.8
3 22	11 54.50	+ 9 34.9	1.940	2.926	3.6	20.8
4 1	11 45.83	+10 26.5	1.971	2.928	6.9	21.0
4 11	11 38.30	+11 2.9	2.029	2.930	10.3	21.2
4 21	11 32.54	+11 22.0	2.110	2.931	13.4	21.4

10362 1994 UC_2 3 19.5 100°.06 3°.1/22.3 18

2 11	12 24.37	−10 31.7	1.612	2.381	18.2	19.0
2 21	12 19.92	−10 22.5	1.542	2.401	14.6	18.8
3 2	12 12.88	− 9 50.1	1.492	2.420	10.5	18.6
3 12	12 3.99	− 8 56.9	1.466	2.439	6.1	18.3
3 22	11 54.33	− 7 48.1	1.467	2.458	3.1	18.2
4 1	11 45.12	− 6 31.9	1.495	2.476	5.7	18.4
4 11	11 37.47	− 5 17.4	1.550	2.493	9.9	18.7
4 21	11 32.10	− 4 12.2	1.629	2.510	13.7	18.9

175965 2000 JR_{81} 3 19.5 270°.18 1°.3/18.4 18

2 11	12 21.86	+ 1 29.5	1.819	2.627	14.9	20.6
2 21	12 18.00	+ 1 57.2	1.721	2.613	11.6	20.4
3 2	12 11.72	+ 2 37.5	1.647	2.599	7.6	20.1
3 12	12 3.58	+ 3 25.7	1.598	2.584	3.3	19.8
3 22	11 54.43	+ 4 15.7	1.576	2.570	2.2	19.7
4 1	11 45.38	+ 5 0.6	1.583	2.555	6.6	19.9
4 11	11 37.51	+ 5 34.4	1.616	2.540	11.0	20.2
4 21	11 31.64	+ 5 53.0	1.671	2.525	14.8	20.4

72837 2001 HQ_{24} 3 19.5 109°.60 6°.0/13.2 18

2 11	12 23.85	+17 16.7	2.154	2.973	12.5	19.5
2 21	12 18.90	+18 13.9	2.091	2.983	9.8	19.3
3 2	12 11.89	+19 9.1	2.054	2.992	7.4	19.2
3 12	12 3.48	+19 55.1	2.043	3.002	6.1	19.1
3 22	11 54.52	+20 26.0	2.061	3.011	6.9	19.2
4 1	11 45.93	+20 37.6	2.105	3.020	9.1	19.3
4 11	11 38.59	+20 28.5	2.175	3.029	11.7	19.5
4 21	11 33.06	+19 59.9	2.266	3.038	14.1	19.7

171967 2001 TY_{100} 3 19.5 129°.11 4°.3/14.4 17

2 11	12 21.10	+13 19.9	2.507	3.322	11.1	20.4
2 21	12 16.52	+14 8.5	2.437	3.330	8.5	20.2
3 2	12 10.21	+14 58.1	2.392	3.337	6.0	20.1
3 12	12 2.73	+15 43.1	2.374	3.344	4.4	20.0
3 22	11 54.76	+16 18.3	2.386	3.351	5.0	20.0
4 1	11 47.05	+16 39.7	2.427	3.358	7.3	20.2
4 11	11 40.31	+16 45.3	2.494	3.364	9.8	20.4
4 21	11 35.08	+16 34.8	2.584	3.371	12.2	20.5

272563 2005 UD_{480} 3 19.5 209°.30 4°.6/24.5 17

2 11	12 24.29	−16 0.1	2.554	3.259	13.7	22.3
2 21	12 19.25	−16 23.4	2.443	3.252	11.6	22.1
3 2	12 12.23	−16 30.1	2.353	3.244	9.0	21.9
3 12	12 3.72	−16 19.2	2.289	3.235	6.4	21.7
3 22	11 54.40	−15 51.7	2.253	3.225	4.7	21.6
4 1	11 45.10	−15 10.5	2.247	3.214	5.4	21.6
4 11	11 36.68	−14 20.6	2.270	3.203	7.8	21.8
4 21	11 29.81	−13 28.0	2.319	3.191	10.6	21.9

363221 2001 VX_{81} 3 19.5 11°.41 19°.8/20.0 16

2 11	11 49.67	−43 58.6	0.781	1.487	37.3	18.8
2 21	11 55.52	−46 1.4	0.743	1.495	35.5	18.7
3 2	11 58.01	−46 55.4	0.710	1.507	33.1	18.5
3 12	11 57.84	−46 29.6	0.683	1.524	30.1	18.4
3 22	11 56.34	−44 37.6	0.665	1.545	26.6	18.3
4 1	11 55.31	−41 21.8	0.658	1.569	23.2	18.2
4 11	11 56.34	−37 0.3	0.666	1.597	20.7	18.2
4 21	12 0.18	−32 3.0	0.693	1.629	19.8	18.3

413459 2005 EH_{169} 3 19.5 302°.28 5°.0/15.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 19.96	+ 7 53.8	1.452	2.291	16.4	20.5
2 21	12 17.24	+ 8 58.3	1.359	2.268	12.7	20.2
3 2	12 11.62	+10 15.0	1.288	2.245	8.6	19.9
3 12	12 3.67	+11 35.2	1.240	2.222	5.3	19.6
3 22	11 54.41	+12 48.2	1.219	2.199	6.2	19.6
4 1	11 45.18	+13 43.4	1.222	2.177	10.4	19.8
4 11	11 37.37	+14 13.7	1.249	2.155	15.0	20.0
4 21	11 32.00	+14 16.5	1.294	2.133	19.2	20.2

389253 2009 FB_{46} 3 19.5 339°.99 4°.8/15.2 17

2 11	12 21.50	+12 27.3	1.888	2.716	13.6	20.5
2 21	12 17.53	+13 1.0	1.807	2.707	10.6	20.3
3 2	12 11.26	+13 36.8	1.749	2.699	7.4	20.1
3 12	12 3.31	+14 7.9	1.716	2.692	5.0	19.9
3 22	11 54.58	+14 28.2	1.711	2.685	5.6	20.0
4 1	11 46.09	+14 32.6	1.733	2.679	8.6	20.1
4 11	11 38.85	+14 18.5	1.780	2.673	12.0	20.3
4 21	11 33.56	+13 46.1	1.849	2.668	15.0	20.5

143480 2003 CU_{10} 3 19.5 101°.55 0°.0/19.6 17

2 11	12 17.01	− 3 26.9	2.397	3.183	12.4	20.1
2 21	12 13.49	− 2 42.0	2.315	3.192	9.6	19.9
3 2	12 8.29	− 1 44.0	2.256	3.201	6.4	19.7
3 12	12 1.93	− 0 36.8	2.225	3.210	2.8	19.5
3 22	11 55.04	+ 0 34.7	2.223	3.219	0.9	19.3
4 1	11 48.37	+ 1 44.3	2.252	3.228	4.5	19.6
4 11	11 42.60	+ 2 46.7	2.308	3.236	7.9	19.8
4 21	11 38.25	+ 3 37.7	2.389	3.245	10.9	20.0

196518 2003 OS_3 3 19.5 242°.88 0°.5/18.9 17

2 11	12 18.95	− 1 23.9	2.084	2.882	13.6	20.6
2 21	12 15.37	− 0 45.3	1.991	2.875	10.6	20.4
3 2	12 9.76	+ 0 7.1	1.920	2.869	7.0	20.1
3 12	12 2.66	+ 1 9.2	1.876	2.863	3.0	19.9
3 22	11 54.80	+ 2 15.2	1.861	2.856	1.4	19.7
4 1	11 47.09	+ 3 18.5	1.875	2.849	5.5	20.0
4 11	11 40.39	+ 4 13.0	1.915	2.842	9.4	20.2
4 21	11 35.38	+ 4 54.1	1.980	2.835	12.8	20.4

272712 2005 YV_{31} 3 19.5 235°.03 3°.8/23.3 17

2 11	12 21.98	−12 21.5	2.239	2.979	14.5	21.1
2 21	12 17.71	−12 37.1	2.132	2.969	12.0	20.9
3 2	12 11.35	−12 35.5	2.047	2.959	9.0	20.7
3 12	12 3.39	−12 16.9	1.987	2.948	5.9	20.5
3 22	11 54.56	−11 42.9	1.954	2.937	3.9	20.4
4 1	11 45.77	−10 57.5	1.951	2.926	5.2	20.4
4 11	11 37.94	−10 6.6	1.975	2.914	8.3	20.6
4 21	11 31.79	− 9 16.2	2.025	2.902	11.6	20.8

477600 2010 KU_{13} 3 19.5 275°.67 0°.8/18.5 17

2 11	12 16.88	− 0 2.9	2.474	3.270	11.8	21.7
2 21	12 13.50	+ 0 37.6	2.370	3.255	9.1	21.4
3 2	12 8.40	+ 1 29.4	2.290	3.240	6.0	21.2
3 12	12 2.04	+ 2 28.7	2.238	3.224	2.5	21.0
3 22	11 55.01	+ 3 30.5	2.215	3.209	1.5	20.9
4 1	11 48.05	+ 4 29.5	2.221	3.193	5.0	21.1
4 11	11 41.89	+ 5 20.3	2.256	3.177	8.4	21.3
4 21	11 37.11	+ 5 59.3	2.315	3.162	11.5	21.4

87002 2000 JK_{46} 3 19.5 221°.01 6°.1/13.2 18

2 11	12 24.37	+16 1.7	2.095	2.914	12.8	20.0
2 21	12 19.56	+17 6.6	2.015	2.907	10.1	19.8
3 2	12 12.52	+18 12.0	1.959	2.899	7.5	19.6
3 12	12 3.86	+19 10.2	1.930	2.891	6.1	19.5
3 22	11 54.42	+19 54.0	1.929	2.882	7.0	19.5
4 1	11 45.21	+20 17.8	1.955	2.873	9.5	19.7
4 11	11 37.19	+20 19.2	2.007	2.864	12.4	19.8
4 21	11 31.05	+19 58.9	2.079	2.854	15.1	20.0

465185 2007 FR_{26} 3 19.6 277°.02 0°.1/19.7 17

2 11	12 19.15	− 3 7.5	1.945	2.740	14.5	21.7
2 21	12 15.80	− 2 37.2	1.841	2.723	11.5	21.4
3 2	12 10.22	− 1 50.7	1.759	2.706	7.7	21.1
3 12	12 2.93	− 0 51.5	1.704	2.689	3.5	20.8
3 22	11 54.71	+ 0 15.0	1.676	2.671	1.1	20.6
4 1	11 46.53	+ 1 21.7	1.676	2.654	5.6	20.9
4 11	11 39.40	+ 2 21.4	1.704	2.636	9.9	21.1
4 21	11 34.07	+ 3 8.5	1.755	2.619	13.7	21.3

60928 2000 JR_{45} 3 19.6 243°.44 0°.1/19.6 18

2 11	12 22.52	− 2 36.0	1.578	2.382	17.0	19.6
2 21	12 18.85	− 2 10.7	1.488	2.375	13.3	19.3
3 2	12 12.46	− 1 27.3	1.419	2.368	9.0	19.0
3 12	12 3.98	− 0 29.9	1.374	2.360	4.0	18.7
3 22	11 54.38	+ 0 34.9	1.356	2.352	1.3	18.5
4 1	11 44.95	+ 1 38.6	1.365	2.343	6.6	18.8
4 11	11 36.91	+ 2 33.0	1.400	2.335	11.5	19.1
4 21	11 31.17	+ 3 12.2	1.457	2.326	15.8	19.3

17127 1999 JE_{69} 3 19.6 219°.84 1°.5/21.4 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 19.03	− 8 34.8	2.286	3.049	13.6	18.7
2 21	12 15.31	− 7 57.9	2.181	3.041	10.9	18.5
3 2	12 9.67	− 7 2.9	2.100	3.032	7.6	18.3
3 12	12 2.62	− 5 52.2	2.046	3.023	4.1	18.0
3 22	11 54.84	− 4 30.6	2.020	3.014	1.6	17.8
4 1	11 47.16	− 3 4.4	2.024	3.004	4.5	18.0
4 11	11 40.39	− 1 41.0	2.057	2.994	8.2	18.2
4 21	11 35.18	− 0 26.5	2.116	2.983	11.6	18.4

340093 2005 WR_{56} 3 19.6 168°.41 2°.7/16.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.92	+ 4 24.3	1.943	2.747	14.2	21.4
2 21	12 20.79	+ 5 19.8	1.863	2.753	10.9	21.2
3 2	12 13.34	+ 6 25.3	1.806	2.758	7.1	21.0
3 12	12 4.23	+ 7 34.5	1.778	2.762	3.5	20.8
3 22	11 54.35	+ 8 40.2	1.778	2.765	3.5	20.8
4 1	11 44.76	+ 9 35.1	1.808	2.768	7.1	21.0
4 11	11 36.46	+10 14.2	1.865	2.769	10.9	21.2
4 21	11 30.13	+10 35.1	1.945	2.769	14.2	21.5

144741 2004 GL_{59} 3 19.6 297°.06 1°.7/17.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.01	+ 2 29.6	2.178	2.987	12.7	20.0
2 21	12 14.70	+ 3 9.3	2.069	2.962	9.9	19.8
3 2	12 9.40	+ 4 0.1	1.984	2.937	6.5	19.5
3 12	12 2.56	+ 4 57.5	1.926	2.912	2.9	19.2
3 22	11 54.87	+ 5 56.0	1.896	2.887	2.4	19.2
4 1	11 47.18	+ 6 49.1	1.894	2.862	6.1	19.3
4 11	11 40.38	+ 7 31.3	1.920	2.837	9.9	19.5
4 21	11 35.17	+ 7 58.8	1.969	2.812	13.3	19.7

49267 1998 UU_{6} 3 19.6 159°.64 6°.3/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.72	+18 6.4	2.251	3.065	12.2	18.6
2 21	12 20.32	+19 15.6	2.186	3.073	9.7	18.5
3 2	12 12.85	+20 22.9	2.145	3.079	7.4	18.3
3 12	12 3.95	+21 20.6	2.133	3.085	6.3	18.3
3 22	11 54.46	+22 2.4	2.148	3.091	7.2	18.3
4 1	11 45.30	+22 23.7	2.191	3.095	9.4	18.5
4 11	11 37.36	+22 23.2	2.260	3.100	11.9	18.6
4 21	11 31.22	+22 1.9	2.350	3.103	14.2	18.8

240500 2004 EX_{19} 3 19.6 212°.94 2°.9/15.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.51	+ 6 31.9	2.455	3.268	11.3	20.3
2 21	12 13.92	+ 7 34.9	2.369	3.265	8.6	20.1
3 2	12 8.63	+ 8 45.0	2.309	3.262	5.7	19.9
3 12	12 2.12	+ 9 56.7	2.277	3.259	3.2	19.8
3 22	11 55.04	+11 4.1	2.274	3.255	3.6	19.8
4 1	11 48.11	+12 1.5	2.300	3.252	6.4	20.0
4 11	11 42.05	+12 44.7	2.354	3.248	9.4	20.1
4 21	11 37.39	+13 11.4	2.431	3.244	12.1	20.3

224330 2005 UC_{56} 3 19.6 84°.83 4°.5/24.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.92	−15 49.9	1.912	2.650	16.7	20.2
2 21	12 16.22	−15 42.4	1.834	2.666	13.9	20.0
3 2	12 10.34	−15 11.0	1.776	2.683	10.5	19.9
3 12	12 2.90	−14 16.6	1.742	2.699	7.1	19.7
3 22	11 54.79	−13 3.1	1.735	2.715	4.6	19.6
4 1	11 47.00	−11 37.3	1.755	2.731	5.6	19.7
4 11	11 40.46	−10 7.8	1.803	2.747	8.6	19.9
4 21	11 35.80	− 8 42.9	1.876	2.763	11.9	20.1

76965 2001 BH_{45} 3 19.6 4°.35 3°.4/22.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.69	− 9 54.9	1.477	2.264	18.7	19.3
2 21	12 16.79	− 9 58.5	1.394	2.264	15.2	19.0
3 2	12 11.14	− 9 38.2	1.330	2.264	11.0	18.8
3 12	12 3.40	− 8 55.4	1.289	2.264	6.5	18.5
3 22	11 54.61	− 7 54.3	1.273	2.265	3.4	18.3
4 1	11 46.05	− 6 43.0	1.284	2.266	6.2	18.5
4 11	11 38.98	− 5 31.4	1.319	2.267	10.7	18.8
4 21	11 34.27	− 4 28.1	1.376	2.269	15.0	19.0

166907 2003 AF_{82} 3 19.6 290°.32 8°.1/22.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 36.33	− 9 54.2	1.190	1.966	23.0	19.9
2 21	12 31.03	−11 56.7	1.102	1.960	19.3	19.7
3 2	12 21.50	−13 45.9	1.033	1.953	14.9	19.4
3 12	12 8.33	−15 14.9	0.986	1.947	10.5	19.1
3 22	11 52.92	−16 17.9	0.963	1.940	8.1	18.9
4 1	11 37.39	−16 53.1	0.965	1.934	10.2	19.0
4 11	11 23.98	−17 5.8	0.991	1.928	14.7	19.2
4 21	11 14.23	−17 5.4	1.036	1.922	19.4	19.5

262032 2006 QD_{132} 3 19.6 290°.30 4°.2/15.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.76	+ 6 21.3	1.555	2.386	15.9	20.6
2 21	12 17.71	+ 7 23.2	1.457	2.362	12.3	20.3
3 2	12 11.87	+ 8 38.4	1.382	2.338	8.3	20.0
3 12	12 3.81	+ 9 59.1	1.331	2.314	4.6	19.7
3 22	11 54.46	+11 15.3	1.306	2.290	5.3	19.7
4 1	11 45.09	+12 17.1	1.307	2.265	9.5	19.9
4 11	11 37.05	+12 56.8	1.333	2.241	14.1	20.1
4 21	11 31.32	+13 11.1	1.378	2.216	18.3	20.3

134245 2006 AG_{11} 3 19.6 10°.27 5°.2/16.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 28.97	+13 16.5	1.451	2.281	16.9	18.9
2 21	12 23.83	+13 16.9	1.382	2.283	13.2	18.7
3 2	12 15.65	+13 16.3	1.335	2.286	9.1	18.4
3 12	12 5.30	+13 7.8	1.312	2.291	5.7	18.2
3 22	11 54.04	+12 45.5	1.316	2.296	5.9	18.3
4 1	11 43.35	+12 6.0	1.346	2.302	9.4	18.5
4 11	11 34.52	+11 8.9	1.400	2.310	13.4	18.7
4 21	11 28.36	+ 9 56.6	1.476	2.318	17.1	19.0

437272 2012 XJ_{144} 3 19.6 228°.50 6°.3/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.45	−25 11.8	2.688	3.343	14.1	21.3
2 21	12 13.97	−25 16.8	2.578	3.336	12.4	21.1
3 2	12 8.73	−24 59.9	2.486	3.330	10.4	21.0
3 12	12 2.21	−24 19.8	2.417	3.323	8.3	20.8
3 22	11 55.03	−23 17.2	2.374	3.315	6.7	20.7
4 1	11 47.93	−21 55.6	2.359	3.308	6.4	20.7
4 11	11 41.68	−20 20.9	2.372	3.300	7.7	20.7
4 21	11 36.84	−18 40.3	2.412	3.292	9.9	20.8

268038 2004 PZ_{88} 3 19.6 195°.45 0°.6/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.61	− 2 41.6	2.494	3.265	12.4	21.0
2 21	12 19.36	− 2 39.7	2.395	3.262	9.8	20.8
3 2	12 12.24	− 2 27.6	2.320	3.259	6.6	20.6
3 12	12 3.73	− 2 7.3	2.272	3.255	3.1	20.4
3 22	11 54.54	− 1 42.1	2.255	3.251	0.9	20.2
4 1	11 45.48	− 1 15.8	2.268	3.246	4.4	20.4
4 11	11 37.34	− 0 52.5	2.311	3.240	7.9	20.6
4 21	11 30.73	− 0 35.6	2.380	3.234	11.0	20.8

374133 2004 TQ_{122} 3 19.6 164°.29 0°.9/20.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.25	− 5 36.4	2.082	2.863	14.2	21.2
2 21	12 15.57	− 5 5.7	1.993	2.865	11.2	21.0
3 2	12 9.88	− 4 18.5	1.926	2.867	7.6	20.8
3 12	12 2.72	− 3 18.3	1.886	2.868	3.7	20.5
3 22	11 54.87	− 2 10.2	1.874	2.870	1.1	20.3
4 1	11 47.21	− 1 0.6	1.892	2.871	4.9	20.6
4 11	11 40.61	+ 0 3.6	1.937	2.872	8.7	20.8
4 21	11 35.69	+ 0 57.1	2.006	2.873	12.2	21.0

409186 2003 UR_{314} 3 19.6 116°.08 0°.1/19.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.24	− 2 28.6	1.856	2.647	15.3	22.9
2 21	12 19.49	− 2 1.1	1.784	2.663	11.9	22.7
3 2	12 12.46	− 1 19.0	1.734	2.679	7.9	22.5
3 12	12 3.84	− 0 26.7	1.710	2.695	3.5	22.3
3 22	11 54.54	+ 0 30.1	1.714	2.710	1.1	22.1
4 1	11 45.61	+ 1 24.6	1.748	2.724	5.6	22.4
4 11	11 38.03	+ 2 10.5	1.808	2.738	9.6	22.7
4 21	11 32.43	+ 2 43.9	1.893	2.751	13.1	23.0

122620 2000 RY_{61} 3 19.6 185°.00 5°.9/12.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.52	+18 28.0	2.483	3.294	11.3	20.2
2 21	12 19.28	+19 30.0	2.409	3.294	9.0	20.0
3 2	12 12.14	+20 30.1	2.361	3.294	6.9	19.9
3 12	12 3.66	+21 21.5	2.341	3.293	5.9	19.8
3 22	11 54.60	+21 58.6	2.350	3.291	6.7	19.8
4 1	11 45.79	+22 17.1	2.386	3.289	8.8	20.0
4 11	11 38.03	+22 15.6	2.449	3.286	11.1	20.1
4 21	11 31.90	+21 54.9	2.533	3.283	13.3	20.3

399852 2005 UL_{183} 3 19.6 337°.12 3°.0/21.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.48	− 7 31.2	1.257	2.064	20.3	20.9
2 21	12 17.93	− 7 42.6	1.175	2.059	16.4	20.6
3 2	12 12.21	− 7 30.2	1.112	2.054	11.7	20.3
3 12	12 3.99	− 6 55.2	1.070	2.049	6.5	20.0
3 22	11 54.45	− 6 2.2	1.051	2.045	3.0	19.8
4 1	11 45.10	− 4 59.8	1.058	2.041	6.9	20.0
4 11	11 37.47	− 3 58.8	1.088	2.038	12.2	20.3
4 21	11 32.58	− 3 8.3	1.138	2.036	17.1	20.5

121011 1999 AW_{18} 3 19.6 192°.05 3°.5/22.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.18	−11 17.0	1.979	2.727	15.9	21.1
2 21	12 20.40	−11 21.5	1.881	2.726	13.0	20.9
3 2	12 13.24	−11 6.7	1.804	2.723	9.6	20.7
3 12	12 4.28	−10 33.0	1.753	2.720	5.9	20.5
3 22	11 54.37	− 9 43.3	1.729	2.717	3.5	20.3
4 1	11 44.60	− 8 43.1	1.734	2.712	5.4	20.4
4 11	11 36.01	− 7 39.7	1.767	2.706	9.1	20.6
4 21	11 29.39	− 6 40.2	1.825	2.700	12.8	20.8

321357 Mirzakhani 3 19.6 275°.70 0°.9/18.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.60	− 1 33.1	1.769	2.575	15.3	20.9
2 21	12 16.45	− 0 43.1	1.663	2.553	12.0	20.7
3 2	12 10.85	+ 0 25.4	1.579	2.530	8.0	20.4
3 12	12 3.31	+ 1 47.8	1.520	2.507	3.4	20.0
3 22	11 54.66	+ 3 16.8	1.490	2.484	1.9	19.9
4 1	11 45.99	+ 4 43.2	1.487	2.460	6.7	20.1
4 11	11 38.43	+ 5 58.1	1.510	2.437	11.4	20.3
4 21	11 32.87	+ 6 55.1	1.556	2.413	15.6	20.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
437542 2013 YP_{123}			3 19.6 263°.50	4°.4/24.3 17		
	h m	° ′			°	m
2 11	12 20.07	−14 39.3	2.407	3.134	14.0	21.0
2 21	12 16.13	−15 1.5	2.299	3.124	11.7	20.8
3 2	12 10.26	−15 6.9	2.212	3.113	9.0	20.6
3 12	12 2.93	−14 54.9	2.151	3.103	6.3	20.4
3 22	11 54.81	−14 26.9	2.116	3.092	4.5	20.3
4 1	11 46.73	−13 46.0	2.110	3.081	5.3	20.3
4 11	11 39.52	−12 57.5	2.132	3.070	7.9	20.4
4 21	11 33.84	−12 7.2	2.179	3.060	10.8	20.6
182095 2000 JX_{68}			3 19.6 234°.41	4°.3/15.6 17		
2 11	12 23.81	+ 9 47.7	1.869	2.690	14.0	20.5
2 21	12 19.37	+10 35.0	1.786	2.684	10.9	20.3
3 2	12 12.53	+11 27.8	1.726	2.678	7.4	20.1
3 12	12 3.94	+12 18.9	1.693	2.672	4.6	19.9
3 22	11 54.50	+13 1.3	1.688	2.666	5.2	19.9
4 1	11 45.29	+13 28.7	1.710	2.659	8.4	20.1
4 11	11 37.36	+13 37.4	1.757	2.652	12.0	20.3
4 21	11 31.44	+13 26.5	1.827	2.645	15.2	20.5
223624 2004 JQ_{20}			3 19.6 221°.38	4°.9/26.2 17		
2 11	12 19.77	−21 28.8	2.472	3.155	14.7	20.8
2 21	12 15.86	−20 54.3	2.354	3.145	12.5	20.6
3 2	12 10.05	−19 54.6	2.257	3.134	10.0	20.4
3 12	12 2.82	−18 29.3	2.185	3.122	7.2	20.2
3 22	11 54.87	−16 41.2	2.141	3.110	5.2	20.0
4 1	11 47.01	−14 36.1	2.128	3.098	5.4	20.0
4 11	11 40.06	−12 22.8	2.145	3.084	7.8	20.2
4 21	11 34.67	−10 10.3	2.190	3.070	10.7	20.3
225559 2000 SR_{364}			3 19.6 153°.20	5°.3/13.6 16		
2 11	12 24.92	+15 49.5	2.360	3.172	11.8	21.0
2 21	12 19.59	+16 46.8	2.292	3.181	9.2	20.8
3 2	12 12.33	+17 43.5	2.249	3.188	6.7	20.7
3 12	12 3.74	+18 33.0	2.234	3.196	5.3	20.6
3 22	11 54.60	+19 9.6	2.248	3.202	6.1	20.7
4 1	11 45.78	+19 29.0	2.290	3.209	8.3	20.8
4 11	11 38.09	+19 29.5	2.359	3.214	10.9	21.0
4 21	11 32.08	+19 11.7	2.449	3.219	13.2	21.2
466194 2012 KC_{47}			3 19.6 233°.98	3°.8/24.1 17		
2 11	12 20.26	−15 13.0	2.549	3.268	13.4	22.2
2 21	12 16.19	−15 5.2	2.432	3.253	11.2	22.0
3 2	12 10.26	−14 38.7	2.336	3.237	8.6	21.8
3 12	12 2.93	−13 53.8	2.265	3.221	5.8	21.6
3 22	11 54.83	−12 52.5	2.223	3.203	3.9	21.4
4 1	11 46.75	−11 39.2	2.211	3.185	4.8	21.4
4 11	11 39.47	−10 20.1	2.228	3.167	7.6	21.6
4 21	11 33.65	− 9 1.7	2.271	3.147	10.6	21.7
417509 2006 SH_{259}			3 19.6 242°.14	0°.2/19.8 17		
2 11	12 22.40	− 3 0.9	1.954	2.743	14.7	22.4
2 21	12 18.31	− 2 36.8	1.851	2.729	11.6	22.1
3 2	12 11.91	− 1 57.3	1.770	2.715	7.8	21.9
3 12	12 3.73	− 1 5.6	1.716	2.701	3.6	21.6
3 22	11 54.57	− 0 6.9	1.690	2.685	1.0	21.3
4 1	11 45.47	+ 0 52.2	1.692	2.670	5.6	21.6
4 11	11 37.46	+ 1 44.8	1.722	2.654	9.9	21.8
4 21	11 31.33	+ 2 25.7	1.776	2.637	13.8	22.0
8050 Beishida			3 19.6 181°.34	0°.7/20.2 18		
2 11	12 25.03	− 4 43.0	1.685	2.473	16.7	19.3
2 21	12 20.57	− 4 15.3	1.598	2.474	13.2	19.1
3 2	12 13.48	− 3 28.5	1.532	2.475	9.0	18.8
3 12	12 4.43	− 2 26.5	1.492	2.475	4.2	18.5
3 22	11 54.38	− 1 15.5	1.479	2.475	1.2	18.3
4 1	11 44.58	− 0 3.6	1.494	2.473	6.0	18.6
4 11	11 36.17	+ 1 0.6	1.537	2.471	10.7	18.9
4 21	11 29.99	+ 1 51.1	1.602	2.468	14.8	19.1
108990 2001 PP_{55}			3 19.6 161°.24	3°.4/15.3 18		
2 11	12 17.57	+ 7 6.1	2.278	3.096	11.9	20.3
2 21	12 14.10	+ 8 19.6	2.199	3.097	9.1	20.1
3 2	12 8.82	+ 9 40.5	2.145	3.099	6.0	19.9
3 12	12 2.26	+11 2.4	2.119	3.100	3.6	19.7
3 22	11 55.10	+12 18.5	2.122	3.101	4.2	19.8
4 1	11 48.15	+13 22.5	2.154	3.102	7.0	19.9
4 11	11 42.14	+14 9.8	2.213	3.103	10.1	20.1
4 21	11 37.64	+14 38.5	2.294	3.103	12.8	20.3
426574 2013 SF_{17}			3 19.6 193°.23	1°.3/18.4 17		
2 11	12 26.48	+ 3 30.2	2.132	2.927	13.4	21.6
2 21	12 21.10	+ 3 39.2	2.041	2.925	10.4	21.3
3 2	12 13.52	+ 3 55.6	1.975	2.924	6.8	21.1
3 12	12 4.36	+ 4 15.7	1.936	2.922	3.0	20.9
3 22	11 54.42	+ 4 35.2	1.926	2.919	2.0	20.8
4 1	11 44.70	+ 4 49.5	1.946	2.916	5.8	21.0
4 11	11 36.12	+ 4 54.9	1.994	2.913	9.5	21.2
4 21	11 29.37	+ 4 49.5	2.067	2.909	12.8	21.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
384078 2008 VM_{35}			3 19.6 334°.74	7°.7/27.6 17		
	h m	° ′			°	m
2 11	12 17.68	−22 28.1	1.935	2.637	17.7	20.5
2 21	12 14.84	−23 1.8	1.838	2.632	15.4	20.3
3 2	12 9.70	−23 10.1	1.758	2.626	12.8	20.1
3 12	12 2.78	−22 50.3	1.699	2.622	10.1	19.9
3 22	11 54.91	−22 2.6	1.665	2.617	8.1	19.8
4 1	11 47.14	−20 50.9	1.656	2.613	7.9	19.7
4 11	11 40.51	−19 22.9	1.672	2.609	9.8	19.8
4 21	11 35.81	−17 48.2	1.713	2.606	12.5	20.0
18320 1981 UJ_{28}			3 19.6 38°.83	1°.3/20.6 18		
2 11	12 21.33	− 4 41.3	1.277	2.092	19.6	17.8
2 21	12 18.21	− 4 36.1	1.214	2.105	15.5	17.6
3 2	12 12.10	− 4 9.6	1.170	2.118	10.5	17.3
3 12	12 3.82	− 3 25.9	1.148	2.131	5.1	17.1
3 22	11 54.61	− 2 31.8	1.150	2.146	1.6	16.9
4 1	11 45.90	− 1 36.2	1.178	2.161	6.6	17.2
4 11	11 38.97	− 0 48.0	1.231	2.176	11.6	17.5
4 21	11 34.65	− 0 13.6	1.304	2.192	16.0	17.8
36307 2000 JY_{65}			3 19.6 165°.34	6°.0/12.3 18		
2 11	12 22.60	+16 9.3	2.266	3.085	11.9	18.5
2 21	12 17.98	+17 34.4	2.198	3.090	9.4	18.4
3 2	12 11.37	+18 59.7	2.156	3.095	7.1	18.2
3 12	12 3.37	+20 17.5	2.142	3.099	6.0	18.2
3 22	11 54.76	+21 20.6	2.156	3.102	6.9	18.2
4 1	11 46.42	+22 3.7	2.199	3.105	9.2	18.4
4 11	11 39.18	+22 24.4	2.266	3.108	11.8	18.6
4 21	11 33.63	+22 23.2	2.354	3.109	14.1	18.7
433791 2015 BP_{87}			3 19.6 149°.65	1°.0/18.5 17		
2 11	12 20.77	+ 0 38.5	2.154	2.952	13.2	21.7
2 21	12 16.63	+ 1 12.5	2.071	2.957	10.2	21.5
3 2	12 10.52	+ 1 57.6	2.011	2.961	6.6	21.3
3 12	12 3.02	+ 2 49.3	1.979	2.965	2.8	21.0
3 22	11 54.87	+ 3 42.2	1.975	2.969	1.7	21.0
4 1	11 46.94	+ 4 30.6	2.000	2.972	5.5	21.2
4 11	11 40.06	+ 5 9.5	2.053	2.975	9.1	21.4
4 21	11 34.85	+ 5 35.6	2.130	2.978	12.3	21.6
125041 2001 TD_{203}			3 19.6 142°.86	3°.9/15.9 18		
2 11	12 24.61	+ 6 38.9	1.694	2.514	15.3	20.5
2 21	12 20.07	+ 7 48.3	1.625	2.523	11.7	20.3
3 2	12 13.00	+ 9 7.2	1.578	2.532	7.7	20.1
3 12	12 4.15	+10 27.1	1.559	2.541	4.4	19.9
3 22	11 54.51	+11 39.3	1.567	2.548	4.9	19.9
4 1	11 45.26	+12 35.6	1.602	2.556	8.5	20.1
4 11	11 37.47	+13 11.0	1.663	2.562	12.3	20.4
4 21	11 31.86	+13 24.2	1.746	2.568	15.7	20.6
496467 2014 SO_{112}			3 19.6 256°.06	0°.1/19.7 17		
2 11	12 22.84	− 3 8.3	1.744	2.539	16.0	22.7
2 21	12 19.03	− 2 39.8	1.638	2.520	12.6	22.4
3 2	12 12.62	− 1 53.4	1.554	2.501	8.6	22.1
3 12	12 4.14	− 0 52.3	1.495	2.481	3.9	21.8
3 22	11 54.47	+ 0 17.4	1.464	2.460	1.2	21.6
4 1	11 44.78	+ 1 27.7	1.461	2.439	6.3	21.8
4 11	11 36.27	+ 2 30.3	1.485	2.417	11.1	22.1
4 21	11 29.88	+ 3 18.7	1.531	2.395	15.4	22.3
392708 2012 BO_{117}			3 19.6 177°.16	1°.8/17.6 18		
2 11	12 23.00	+ 2 16.9	2.167	2.965	13.1	22.4
2 21	12 18.36	+ 3 11.6	2.081	2.968	10.1	22.2
3 2	12 11.69	+ 4 17.3	2.019	2.970	6.6	22.0
3 12	12 3.54	+ 5 28.7	1.985	2.971	2.9	21.8
3 22	11 54.71	+ 6 39.1	1.981	2.971	2.6	21.7
4 1	11 46.08	+ 7 42.1	2.007	2.971	6.1	22.0
4 11	11 38.53	+ 8 32.1	2.060	2.970	9.7	22.2
4 21	11 32.69	+ 9 6.2	2.138	2.968	12.9	22.4
427471 2001 VC_{91}			3 19.6 115°.16	6°.7/11.9 18		
2 11	12 25.01	+18 54.9	2.178	2.995	12.4	21.1
2 21	12 19.75	+20 17.2	2.129	3.016	9.9	21.0
3 2	12 12.45	+21 36.2	2.105	3.036	7.7	20.9
3 12	12 3.80	+22 43.8	2.108	3.056	6.7	20.9
3 22	11 54.66	+23 33.3	2.140	3.075	7.7	20.9
4 1	11 45.95	+24 0.6	2.198	3.093	9.8	21.1
4 11	11 38.53	+24 4.5	2.281	3.111	12.1	21.3
4 21	11 32.94	+23 46.8	2.385	3.128	14.2	21.5
155576 1999 XY_{128}			3 19.6 134°.39	2°.2/17.8 18		
2 11	12 28.76	+ 3 33.4	1.664	2.470	16.1	20.8
2 21	12 23.26	+ 4 8.0	1.593	2.484	12.4	20.6
3 2	12 15.10	+ 4 53.3	1.546	2.497	8.1	20.4
3 12	12 5.07	+ 5 43.0	1.524	2.510	3.7	20.2
3 22	11 54.25	+ 6 29.9	1.531	2.522	3.0	20.1
4 1	11 43.88	+ 7 7.3	1.566	2.533	7.2	20.4
4 11	11 35.11	+ 7 30.0	1.627	2.543	11.5	20.7
4 21	11 28.67	+ 7 36.1	1.711	2.553	15.1	20.9

214583 2006 QL_{52} 3 19.6 253°.60 1°.8/17.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 22.04	+ 1 43.4	1.777	2.587	15.1	20.8
2 21	12 18.24	+ 2 25.0	1.681	2.574	11.7	20.6
3 2	12 11.97	+ 3 20.3	1.608	2.561	7.7	20.3
3 12	12 3.80	+ 4 24.1	1.561	2.547	3.4	20.0
3 22	11 54.61	+ 5 29.1	1.541	2.533	2.6	19.9
4 1	11 45.52	+ 6 27.6	1.549	2.519	7.0	20.2
4 11	11 37.64	+ 7 12.7	1.583	2.504	11.4	20.4
4 21	11 31.80	+ 7 40.2	1.640	2.489	15.3	20.6

126077 2001 YX_{86} 3 19.6 341°.09 8°.1/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.66	+15 35.5	1.446	2.297	15.7	18.9
2 21	12 15.32	+17 7.8	1.377	2.287	12.5	18.6
3 2	12 10.22	+18 43.0	1.329	2.278	9.5	18.4
3 12	12 3.05	+20 9.4	1.306	2.269	8.1	18.3
3 22	11 54.88	+21 15.6	1.307	2.262	9.5	18.4
4 1	11 46.99	+21 52.9	1.332	2.255	12.7	18.5
4 11	11 40.65	+21 57.8	1.378	2.249	16.2	18.7
4 21	11 36.66	+21 31.8	1.442	2.245	19.4	18.9

100775 1998 FL_{42} 3 19.6 328°.17 1°.2/20.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 14.70	− 6 30.6	1.902	2.694	14.9	19.2
2 21	12 12.41	− 6 1.1	1.801	2.679	11.9	18.9
3 2	12 8.01	− 5 12.4	1.722	2.664	8.2	18.7
3 12	12 2.03	− 4 7.3	1.668	2.650	4.1	18.4
3 22	11 55.20	− 2 51.1	1.641	2.636	1.3	18.2
4 1	11 48.44	− 1 31.3	1.641	2.623	5.2	18.4
4 11	11 42.71	− 0 15.8	1.669	2.610	9.4	18.6
4 21	11 38.72	+ 0 48.5	1.720	2.599	13.2	18.8

490173 2008 UO_{255} 3 19.6 170°.36 2°.3/17.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.12	+ 2 30.5	1.850	2.656	14.8	21.9
2 21	12 19.57	+ 3 34.3	1.769	2.660	11.3	21.7
3 2	12 12.65	+ 4 51.1	1.712	2.664	7.4	21.4
3 12	12 4.02	+ 6 14.1	1.682	2.667	3.4	21.2
3 22	11 54.59	+ 7 35.3	1.680	2.670	3.2	21.2
4 1	11 45.42	+ 8 46.4	1.708	2.671	7.1	21.4
4 11	11 37.55	+ 9 41.2	1.762	2.672	11.1	21.7
4 21	11 31.68	+10 16.3	1.839	2.672	14.6	21.9

231635 2009 UV_{71} 3 19.6 236°.43 2°.0/17.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.71	+ 3 37.5	1.922	2.733	14.1	20.4
2 21	12 17.67	+ 4 12.6	1.836	2.729	10.8	20.2
3 2	12 11.40	+ 4 57.7	1.773	2.726	7.1	19.9
3 12	12 3.48	+ 5 47.5	1.736	2.722	3.2	19.7
3 22	11 54.76	+ 6 35.8	1.727	2.718	2.8	19.7
4 1	11 46.24	+ 7 16.4	1.747	2.714	6.6	19.9
4 11	11 38.89	+ 7 44.0	1.793	2.710	10.5	20.1
4 21	11 33.43	+ 7 56.1	1.862	2.706	14.0	20.3

7087 Lewotsky 3 19.6 38°.80 12°.7/ 1.8 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 14.60	−31 36.2	1.073	1.786	28.5	16.8
2 21	12 14.10	−32 2.9	1.004	1.794	25.6	16.5
3 2	12 10.00	−31 36.8	0.946	1.802	22.1	16.3
3 12	12 3.11	−30 9.9	0.902	1.811	18.1	16.1
3 22	11 54.86	−27 40.9	0.876	1.820	14.5	15.9
4 1	11 47.08	−24 20.0	0.871	1.830	12.7	15.9
4 11	11 41.47	−20 29.7	0.888	1.841	14.0	16.0
4 21	11 39.03	−16 36.6	0.928	1.852	17.4	16.2

467931 2012 BQ_{66} 3 19.6 97°.41 3°.9/23.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.85	−11 44.9	1.685	2.448	17.7	21.6
2 21	12 18.84	−11 52.8	1.606	2.459	14.5	21.4
3 2	12 12.29	−11 38.4	1.548	2.470	10.7	21.2
3 12	12 3.90	−11 2.6	1.512	2.480	6.6	21.0
3 22	11 54.64	−10 9.0	1.503	2.491	4.0	20.8
4 1	11 45.69	− 9 4.3	1.522	2.501	5.8	21.0
4 11	11 38.16	− 7 57.1	1.567	2.511	9.7	21.2
4 21	11 32.81	− 6 55.3	1.635	2.521	13.4	21.5

210554 1999 TO_{40} 3 19.6 198°.20 1°.4/18.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.27	+ 1 10.8	2.028	2.827	13.9	21.0
2 21	12 18.78	+ 1 51.9	1.937	2.824	10.8	20.8
3 2	12 12.09	+ 2 45.2	1.870	2.820	7.0	20.5
3 12	12 3.78	+ 3 45.7	1.830	2.816	3.0	20.3
3 22	11 54.67	+ 4 47.2	1.818	2.811	2.1	20.2
4 1	11 45.73	+ 5 43.1	1.836	2.806	6.1	20.4
4 11	11 37.91	+ 6 27.7	1.881	2.799	10.0	20.7
4 21	11 31.92	+ 6 57.2	1.950	2.793	13.5	20.9

301319 2009 BR_{157} 3 19.6 243°.00 1°.5/21.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.18	− 5 33.1	2.441	3.209	12.7	20.8
2 21	12 16.85	− 5 38.3	2.340	3.203	10.1	20.6
3 2	12 10.66	− 5 31.5	2.262	3.196	7.1	20.4
3 12	12 3.12	− 5 14.4	2.212	3.190	3.7	20.2
3 22	11 54.88	− 4 49.5	2.190	3.183	1.6	20.0
4 1	11 46.74	− 4 20.8	2.197	3.177	4.3	20.2
4 11	11 39.48	− 3 52.7	2.234	3.170	7.7	20.4
4 21	11 33.71	− 3 29.1	2.295	3.163	10.8	20.6

456854 2007 UT_{107} 3 19.6 195°.83 1°.5/18.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 25.85	+ 2 27.3	1.861	2.662	14.8	21.9
2 21	12 20.96	+ 2 53.0	1.773	2.661	11.5	21.7
3 2	12 13.63	+ 3 29.5	1.708	2.658	7.5	21.4
3 12	12 4.49	+ 4 12.0	1.669	2.655	3.3	21.2
3 22	11 54.46	+ 4 54.4	1.659	2.652	2.3	21.1
4 1	11 44.64	+ 5 30.6	1.677	2.647	6.5	21.3
4 11	11 36.10	+ 5 55.2	1.723	2.643	10.7	21.6
4 21	11 29.62	+ 6 5.5	1.791	2.638	14.3	21.8

241396 2008 TR_{75} 3 19.6 52°.25 1°.8/18.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.16	+ 1 55.5	1.276	2.104	18.8	20.6
2 21	12 20.42	+ 2 21.1	1.213	2.115	14.5	20.4
3 2	12 13.58	+ 3 1.3	1.170	2.126	9.5	20.1
3 12	12 4.52	+ 3 49.6	1.150	2.138	4.1	19.8
3 22	11 54.49	+ 4 37.5	1.156	2.149	2.8	19.8
4 1	11 45.01	+ 5 16.4	1.187	2.162	7.9	20.1
4 11	11 37.39	+ 5 39.7	1.242	2.174	12.9	20.4
4 21	11 32.47	+ 5 44.5	1.317	2.186	17.1	20.7

483321 2016 NS_{21} 3 19.6 267°.25 7°.1/27.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.96	−24 23.2	2.636	3.293	14.4	21.1
2 21	12 16.10	−25 2.9	2.518	3.276	12.7	20.9
3 2	12 10.32	−25 23.4	2.419	3.259	10.7	20.8
3 12	12 3.05	−25 22.2	2.343	3.242	8.8	20.6
3 22	11 54.92	−24 58.8	2.292	3.225	7.4	20.5
4 1	11 46.75	−24 14.7	2.268	3.208	7.2	20.4
4 11	11 39.37	−23 14.8	2.271	3.190	8.5	20.5
4 21	11 33.48	−22 5.1	2.300	3.172	10.6	20.6

496117 2009 XZ_{8} 3 19.6 119°.81 6°.6/27.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.12	−21 32.4	2.181	2.871	16.2	21.7
2 21	12 17.11	−21 57.4	2.091	2.880	13.9	21.5
3 2	12 10.98	−21 59.5	2.021	2.889	11.4	21.3
3 12	12 3.31	−21 37.1	1.974	2.898	8.7	21.2
3 22	11 54.88	−20 51.5	1.952	2.907	6.9	21.1
4 1	11 46.65	−19 46.5	1.957	2.915	6.9	21.1
4 11	11 39.52	−18 29.2	1.990	2.923	8.7	21.2
4 21	11 34.18	−17 7.5	2.048	2.931	11.2	21.4

182296 2001 MN_{12} 3 19.6 186°.75 3°.3/15.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.48	+ 8 57.9	2.597	3.400	11.1	21.2
2 21	12 18.42	+ 9 52.2	2.511	3.400	8.5	21.0
3 2	12 11.59	+10 51.3	2.450	3.398	5.7	20.9
3 12	12 3.50	+11 49.6	2.418	3.397	3.5	20.7
3 22	11 54.83	+12 41.8	2.417	3.394	4.0	20.7
4 1	11 46.33	+13 23.1	2.446	3.390	6.5	20.9
4 11	11 38.74	+13 50.1	2.502	3.385	9.3	21.1
4 21	11 32.62	+14 1.4	2.583	3.380	11.9	21.2

87012 2000 JM_{57} 3 19.6 252°.19 0°.3/19.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.50	− 2 26.2	2.116	2.905	13.7	20.0
2 21	12 16.71	− 1 46.6	2.008	2.888	10.7	19.8
3 2	12 10.81	− 0 51.6	1.923	2.869	7.2	19.5
3 12	12 3.29	+ 0 15.0	1.865	2.850	3.2	19.2
3 22	11 54.87	+ 1 27.6	1.836	2.831	1.2	19.1
4 1	11 46.47	+ 2 39.4	1.836	2.811	5.5	19.3
4 11	11 39.03	+ 3 43.4	1.864	2.791	9.6	19.5
4 21	11 33.27	+ 4 34.4	1.916	2.770	13.2	19.7

213071 1999 TW_{51} 3 19.6 233°.59 0°.5/20.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.09	− 3 18.3	2.013	2.795	14.6	21.5
2 21	12 19.59	− 3 2.2	1.908	2.782	11.5	21.2
3 2	12 12.77	− 2 31.7	1.826	2.769	7.8	21.0
3 12	12 4.17	− 1 49.3	1.771	2.754	3.6	20.7
3 22	11 54.59	− 0 59.8	1.744	2.739	1.0	20.5
4 1	11 45.05	− 0 8.9	1.746	2.724	5.4	20.7
4 11	11 36.59	+ 0 36.7	1.775	2.707	9.7	20.9
4 21	11 29.99	+ 1 12.2	1.830	2.690	13.4	21.1

148723 2001 TJ_{67} 3 19.6 116°.46 0°.6/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.13	− 4 9.7	2.015	2.799	14.5	20.8
2 21	12 17.78	− 3 45.0	1.938	2.812	11.4	20.6
3 2	12 11.34	− 3 5.4	1.883	2.825	7.6	20.4
3 12	12 3.43	− 2 14.6	1.854	2.837	3.6	20.1
3 22	11 54.87	− 1 17.7	1.854	2.850	1.0	20.0
4 1	11 46.62	− 0 20.9	1.883	2.861	5.0	20.3
4 11	11 39.53	+ 0 29.7	1.940	2.873	8.9	20.5
4 21	11 34.25	+ 1 9.6	2.021	2.884	12.2	20.8

323069 2002 TF_{57} 3 19.6 61°.66 10°.3/16.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 46.90	+21 49.5	1.017	1.845	22.6	20.1
2 21	12 38.87	+21 57.9	0.964	1.856	18.4	19.9
3 2	12 26.11	+21 53.0	0.929	1.867	13.9	19.7
3 12	12 10.03	+21 21.5	0.916	1.879	10.7	19.6
3 22	11 52.89	+20 15.3	0.927	1.891	10.9	19.6
4 1	11 37.22	+18 34.5	0.963	1.904	14.3	19.8
4 11	11 24.97	+16 26.8	1.021	1.916	18.6	20.1
4 21	11 17.01	+14 2.9	1.098	1.929	22.4	20.4

102447 1999 TR_{216} 3 19.6 199°.68 0°.9/20.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.26	− 3 44.1	1.637	2.434	16.8	20.1
2 21	12 19.30	− 3 39.1	1.553	2.434	13.3	19.9
3 2	12 12.72	− 3 17.6	1.489	2.433	9.0	19.6
3 12	12 4.18	− 2 42.5	1.450	2.433	4.3	19.3
3 22	11 54.66	− 1 58.9	1.437	2.433	1.3	19.1
4 1	11 45.36	− 1 13.6	1.452	2.433	5.9	19.4
4 11	11 37.47	− 0 33.6	1.493	2.432	10.5	19.7
4 21	11 31.80	− 0 4.5	1.557	2.432	14.6	19.9

5062 Glennmiller 3 19.6 129°.69 0°.8/18.9 18

2 11	12 26.53	− 0 16.9	1.696	2.495	16.2	17.8
2 21	12 21.55	+ 0 11.2	1.623	2.509	12.5	17.6
3 2	12 14.01	+ 0 53.2	1.572	2.521	8.2	17.4
3 12	12 4.67	+ 1 44.1	1.547	2.533	3.5	17.1
3 22	11 54.53	+ 2 37.3	1.550	2.545	1.7	17.0
4 1	11 44.79	+ 3 25.6	1.582	2.556	6.3	17.3
4 11	11 36.54	+ 4 3.0	1.639	2.566	10.7	17.6
4 21	11 30.51	+ 4 25.8	1.721	2.576	14.4	17.8

320304 2007 RB_{316} 3 19.6 100°.31 1°.2/18.1 18

2 11	12 17.72	+ 0 0.4	2.226	3.027	12.8	20.5
2 21	12 14.22	+ 1 1.3	2.149	3.037	9.8	20.3
3 2	12 8.92	+ 2 14.4	2.095	3.046	6.3	20.1
3 12	12 2.37	+ 3 34.4	2.070	3.056	2.7	19.9
3 22	11 55.26	+ 4 55.0	2.073	3.066	2.0	19.9
4 1	11 48.39	+ 6 9.4	2.106	3.075	5.5	20.1
4 11	11 42.50	+ 7 12.0	2.167	3.084	8.9	20.3
4 21	11 38.14	+ 7 59.2	2.252	3.094	11.9	20.5

200890 2002 AS_{15} 3 19.6 146°.67 4°.2/15.4 18

2 11	12 25.44	+ 8 43.7	1.930	2.743	13.9	20.2
2 21	12 20.42	+ 9 55.1	1.861	2.755	10.7	20.0
3 2	12 13.13	+11 12.8	1.816	2.767	7.2	19.8
3 12	12 4.24	+12 29.2	1.799	2.777	4.5	19.7
3 22	11 54.68	+13 36.2	1.811	2.787	5.1	19.7
4 1	11 45.48	+14 27.1	1.851	2.795	8.2	19.9
4 11	11 37.60	+14 57.9	1.917	2.803	11.6	20.2
4 21	11 31.69	+15 7.8	2.006	2.810	14.6	20.4

294867 2008 CE_{200} 3 19.6 195°.91 0°.7/20.3 18

2 11	12 22.30	− 4 27.3	2.156	2.934	13.9	21.2
2 21	12 17.95	− 4 4.9	2.061	2.932	10.9	21.0
3 2	12 11.52	− 3 28.0	1.989	2.929	7.4	20.8
3 12	12 3.58	− 2 39.3	1.943	2.926	3.5	20.5
3 22	11 54.87	− 1 43.5	1.926	2.922	1.0	20.3
4 1	11 46.31	− 0 46.4	1.939	2.917	4.9	20.6
4 11	11 38.78	+ 0 5.9	1.979	2.912	8.8	20.8
4 21	11 32.95	+ 0 48.6	2.045	2.906	12.2	21.0

67797 2000 UT_{106} 3 19.6 58°.41 4°.5/15.7 18

2 11	12 21.26	+ 6 52.1	1.459	2.294	16.5	19.2
2 21	12 17.94	+ 8 5.7	1.392	2.298	12.7	19.0
3 2	12 11.87	+ 9 30.3	1.345	2.302	8.4	18.7
3 12	12 3.80	+10 56.4	1.324	2.307	4.9	18.5
3 22	11 54.82	+12 13.5	1.329	2.311	5.6	18.6
4 1	11 46.22	+13 12.1	1.360	2.315	9.5	18.8
4 11	11 39.20	+13 46.6	1.415	2.320	13.7	19.1
4 21	11 34.54	+13 55.7	1.490	2.324	17.3	19.3

424644 2008 OC_{7} 3 19.6 209°.37 6°.3/26.7 17

2 11	12 20.89	−21 2.4	2.297	2.986	15.5	20.9
2 21	12 16.95	−21 26.3	2.193	2.982	13.4	20.8
3 2	12 10.94	−21 28.6	2.109	2.978	10.9	20.6
3 12	12 3.36	−21 7.7	2.048	2.973	8.4	20.4
3 22	11 54.95	−20 24.3	2.012	2.969	6.6	20.3
4 1	11 46.62	−19 21.7	2.005	2.963	6.6	20.3
4 11	11 39.27	−18 6.5	2.024	2.958	8.6	20.4
4 21	11 33.60	−16 46.1	2.070	2.952	11.2	20.5

368970 2007 CX_{7} 3 19.6 99°.57 2°.5/17.2 18

2 11	12 21.93	+ 4 3.5	1.804	2.619	14.7	21.4
2 21	12 17.88	+ 4 51.4	1.732	2.628	11.2	21.2
3 2	12 11.54	+ 5 49.5	1.682	2.637	7.3	21.0
3 12	12 3.58	+ 6 51.5	1.660	2.645	3.5	20.7
3 22	11 54.91	+ 7 50.1	1.665	2.654	3.3	20.8
4 1	11 46.57	+ 8 38.5	1.698	2.662	7.1	21.0
4 11	11 39.54	+ 9 11.5	1.757	2.670	10.9	21.2
4 21	11 34.47	+ 9 26.7	1.838	2.678	14.3	21.5

470004 2006 MJ_{10} 3 19.6 93°.89 18°.9/ 1.7 16

2 11	12 57.57	+49 8.8	1.585	2.309	20.2	22.4
2 21	12 46.89	+52 35.9	1.619	2.363	19.2	22.5
3 2	12 31.16	+55 17.8	1.674	2.414	18.9	22.6
3 12	12 12.10	+57 1.8	1.747	2.462	19.1	22.7
3 22	11 52.38	+57 44.5	1.839	2.509	19.8	22.9
4 1	11 34.77	+57 31.0	1.945	2.552	20.5	23.1
4 11	11 21.22	+56 32.9	2.063	2.594	21.2	23.3
4 21	11 12.37	+55 3.0	2.190	2.633	21.7	23.5

522317 2016 BC_{102} 3 19.6 243°.40 3°.0/16.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 18.70	+ 3 15.9	1.953	2.768	13.7	21.4
2 21	12 15.44	+ 4 43.6	1.861	2.758	10.5	21.1
3 2	12 10.01	+ 6 25.7	1.792	2.747	6.9	20.9
3 12	12 2.97	+ 8 14.9	1.752	2.736	3.5	20.6
3 22	11 55.08	+10 2.2	1.740	2.725	4.0	20.6
4 1	11 47.31	+11 38.2	1.757	2.713	7.6	20.8
4 11	11 40.59	+12 55.7	1.801	2.701	11.4	21.0
4 21	11 35.65	+13 50.6	1.867	2.689	14.8	21.2

303740 2005 QQ_{79} 3 19.6 225°.43 3°.5/23.9 17

2 11	12 20.90	−13 43.1	2.952	3.668	11.8	20.9
2 21	12 16.41	−14 1.1	2.839	3.659	9.8	20.7
3 2	12 10.31	−14 5.7	2.749	3.649	7.5	20.5
3 12	12 3.02	−13 56.6	2.686	3.639	5.2	20.4
3 22	11 55.08	−13 35.1	2.651	3.628	3.6	20.3
4 1	11 47.17	−13 3.8	2.646	3.617	4.4	20.3
4 11	11 39.96	−12 26.7	2.671	3.606	6.6	20.4
4 21	11 34.01	−11 48.1	2.722	3.595	9.1	20.6

413830 2006 RV_{67} 3 19.6 175°.74 0°.8/20.4 15

2 11	12 22.93	− 4 56.8	2.179	2.953	13.9	23.2
2 21	12 18.37	− 4 31.3	2.087	2.955	10.9	23.0
3 2	12 11.77	− 3 51.0	2.019	2.958	7.4	22.8
3 12	12 3.68	− 2 58.8	1.977	2.959	3.6	22.6
3 22	11 54.88	− 1 59.4	1.964	2.960	1.0	22.4
4 1	11 46.26	− 0 58.7	1.982	2.960	4.8	22.7
4 11	11 38.70	− 0 2.9	2.027	2.959	8.6	22.9
4 21	11 32.83	+ 0 43.2	2.098	2.958	12.0	23.1

432220 2009 FS_{53} 3 19.6 1°.35 0°.4/19.1 17

2 11	12 14.58	− 3 56.5	2.057	2.855	13.8	21.1
2 21	12 12.05	− 2 45.3	1.969	2.854	10.7	20.9
3 2	12 7.64	− 1 16.3	1.905	2.854	7.0	20.7
3 12	12 1.87	+ 0 25.3	1.868	2.854	3.0	20.4
3 22	11 55.45	+ 2 12.1	1.859	2.854	1.3	20.3
4 1	11 49.21	+ 3 55.6	1.880	2.855	5.4	20.6
4 11	11 43.95	+ 5 27.8	1.929	2.856	9.3	20.8
4 21	11 40.26	+ 6 43.3	2.002	2.858	12.6	21.0

170965 2005 CW_{11} 3 19.6 63°.78 0°.6/19.2 18

2 11	12 25.95	+ 0 19.9	1.427	2.241	18.0	20.2
2 21	12 21.49	+ 0 27.6	1.363	2.255	13.9	19.9
3 2	12 14.16	+ 0 49.3	1.318	2.270	9.2	19.7
3 12	12 4.79	+ 1 20.1	1.299	2.285	4.0	19.4
3 22	11 54.56	+ 1 53.6	1.305	2.300	1.6	19.3
4 1	11 44.85	+ 2 22.9	1.338	2.315	6.8	19.7
4 11	11 36.88	+ 2 42.0	1.396	2.331	11.5	20.0
4 21	11 31.43	+ 2 47.5	1.476	2.346	15.6	20.2

127694 2003 EN_{20} 3 19.6 273°.61 0°.2/19.7 18

2 11	12 23.44	− 2 6.9	1.531	2.337	17.3	20.0
2 21	12 19.87	− 1 54.3	1.432	2.320	13.7	19.7
3 2	12 13.41	− 1 24.4	1.355	2.304	9.3	19.4
3 12	12 4.64	− 0 40.7	1.301	2.287	4.2	19.0
3 22	11 54.54	+ 0 11.1	1.274	2.269	1.3	18.8
4 1	11 44.45	+ 1 3.0	1.273	2.252	6.8	19.1
4 11	11 35.74	+ 1 46.8	1.298	2.235	12.0	19.3
4 21	11 29.43	+ 2 16.6	1.344	2.217	16.6	19.6

238462 2004 RR_{45} 3 19.6 210°.53 0°.1/19.7 17

2 11	12 25.60	− 2 12.1	1.925	2.711	15.0	21.5
2 21	12 20.82	− 1 51.0	1.827	2.704	11.8	21.3
3 2	12 13.62	− 1 15.6	1.752	2.697	7.9	21.0
3 12	12 4.59	− 0 29.1	1.704	2.688	3.6	20.7
3 22	11 54.59	+ 0 23.1	1.684	2.679	1.1	20.5
4 1	11 44.70	+ 1 14.7	1.693	2.669	5.7	20.8
4 11	11 36.00	+ 1 59.2	1.730	2.659	10.1	21.1
4 21	11 29.29	+ 2 31.8	1.791	2.647	13.9	21.3

434804 2006 RX_{59} 3 19.6 250°.83 1°.3/18.2 17

2 11	12 21.52	+ 3 20.3	2.368	3.167	12.1	20.9
2 21	12 17.13	+ 3 37.1	2.275	3.162	9.4	20.7
3 2	12 10.88	+ 4 1.3	2.207	3.157	6.1	20.5
3 12	12 3.28	+ 4 29.2	2.166	3.152	2.7	20.3
3 22	11 55.02	+ 4 56.5	2.155	3.148	1.9	20.2
4 1	11 46.92	+ 5 19.0	2.173	3.143	5.3	20.4
4 11	11 39.76	+ 5 33.0	2.219	3.138	8.7	20.6
4 21	11 34.14	+ 5 36.2	2.290	3.133	11.7	20.8

501489 2014 CW_{12} 3 19.6 20°.14 3°.2/16.0 17

2 11	12 18.93	+ 7 43.4	2.227	3.044	12.2	21.3
2 21	12 15.21	+ 8 32.0	2.148	3.045	9.3	21.1
3 2	12 9.63	+ 9 26.5	2.093	3.046	6.2	20.9
3 12	12 2.72	+10 21.3	2.065	3.047	3.5	20.7
3 22	11 55.21	+11 10.4	2.066	3.048	3.9	20.8
4 1	11 47.91	+11 48.6	2.096	3.049	6.8	20.9
4 11	11 41.61	+12 12.0	2.152	3.050	9.9	21.1
4 21	11 36.88	+12 19.2	2.231	3.052	12.8	21.3

148331 2000 QO_{125} 3 19.6 281°.17 5°.5/23.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 25.88	−12 51.4	1.899	2.642	16.7	20.1
2 21	12 21.38	−13 47.0	1.790	2.625	14.0	19.9
3 2	12 14.24	−14 26.3	1.701	2.609	10.9	19.6
3 12	12 4.98	−14 47.1	1.637	2.592	7.6	19.4
3 22	11 54.45	−14 49.1	1.598	2.575	5.5	19.2
4 1	11 43.80	−14 34.2	1.588	2.558	6.8	19.3
4 11	11 34.27	−14 8.0	1.604	2.541	10.0	19.4
4 21	11 26.80	−13 37.1	1.644	2.525	13.6	19.6

277671 2006 BM_{214} 3 19.6 351°.46 7°.5/26.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.59	−19 55.7	1.944	2.652	17.4	19.9
2 21	12 18.66	−20 52.3	1.851	2.651	15.0	19.7
3 2	12 12.29	−21 27.2	1.776	2.651	12.3	19.5
3 12	12 4.04	−21 37.5	1.723	2.650	9.6	19.3
3 22	11 54.77	−21 22.6	1.695	2.650	7.7	19.2
4 1	11 45.58	−20 45.1	1.693	2.649	7.9	19.2
4 11	11 37.58	−19 51.5	1.717	2.649	9.9	19.3
4 21	11 31.60	−18 50.0	1.765	2.649	12.7	19.5

153910 2001 XO_{239} 3 19.6 32°.31 1°.6/18.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.76	+ 2 15.7	1.632	2.450	15.9	19.4
2 21	12 18.03	+ 2 40.0	1.558	2.455	12.3	19.1
3 2	12 11.80	+ 3 16.1	1.506	2.460	8.0	18.9
3 12	12 3.76	+ 3 58.5	1.479	2.466	3.5	18.6
3 22	11 54.90	+ 4 40.8	1.479	2.472	2.4	18.6
4 1	11 46.38	+ 5 16.1	1.506	2.479	6.8	18.9
4 11	11 39.27	+ 5 38.9	1.558	2.486	11.1	19.1
4 21	11 34.30	+ 5 46.5	1.633	2.493	14.8	19.4

246974 1999 TW_{155} 3 19.6 154°.44 2°.2/17.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.74	+ 3 21.8	2.021	2.824	13.8	21.0
2 21	12 19.06	+ 4 11.9	1.942	2.832	10.6	20.8
3 2	12 12.24	+ 5 12.1	1.888	2.840	6.9	20.6
3 12	12 3.90	+ 6 16.7	1.861	2.846	3.2	20.3
3 22	11 54.87	+ 7 19.0	1.863	2.853	2.9	20.3
4 1	11 46.12	+ 8 12.5	1.894	2.858	6.5	20.6
4 11	11 38.56	+ 8 52.1	1.953	2.863	10.2	20.8
4 21	11 32.83	+ 9 15.2	2.034	2.867	13.4	21.0

59249 1999 CZ_{15} 3 19.6 328°.29 17°.6/25.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 11.44	+30 44.8	1.058	1.926	19.0	17.0
2 21	12 12.06	+34 28.3	1.005	1.898	17.7	16.8
3 2	12 9.03	+38 1.5	0.972	1.871	17.9	16.7
3 12	12 2.94	+41 0.0	0.960	1.845	19.6	16.7
3 22	11 55.11	+43 4.2	0.965	1.820	22.2	16.8
4 1	11 47.44	+44 3.3	0.984	1.797	25.3	16.9
4 11	11 41.89	+43 57.5	1.015	1.776	28.1	17.0
4 21	11 39.67	+42 54.3	1.055	1.756	30.6	17.2

135388 2001 TN_{187} 3 19.6 269°.94 4°.0/16.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.39	+10 0.3	1.837	2.652	14.5	19.4
2 21	12 22.32	+10 22.3	1.746	2.640	11.3	19.1
3 2	12 14.68	+10 48.1	1.678	2.628	7.7	18.9
3 12	12 5.08	+11 11.6	1.636	2.616	4.5	18.7
3 22	11 54.50	+11 26.6	1.622	2.604	4.7	18.6
4 1	11 44.10	+11 27.9	1.637	2.592	8.1	18.8
4 11	11 35.03	+11 12.5	1.677	2.580	12.0	19.0
4 21	11 28.11	+10 40.2	1.740	2.568	15.5	19.2

53152 1999 BH_{25} 3 19.6 59°.01 4°.8/24.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.86	−14 10.2	1.619	2.377	18.5	18.2
2 21	12 17.42	−14 20.3	1.546	2.392	15.3	18.0
3 2	12 11.43	−14 5.3	1.491	2.407	11.5	17.8
3 12	12 3.62	−13 25.9	1.460	2.422	7.6	17.6
3 22	11 54.97	−12 25.6	1.454	2.437	4.9	17.5
4 1	11 46.69	−11 11.6	1.474	2.453	6.2	17.6
4 11	11 39.85	− 9 53.4	1.521	2.468	9.7	17.8
4 21	11 35.21	− 8 39.7	1.591	2.484	13.3	18.1

334687 2003 BO_{46} 3 19.6 69°.86 2°.0/22.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.87	−12 56.4	2.310	3.050	14.1	19.9
2 21	12 15.65	−11 48.0	2.246	3.087	11.3	19.8
3 2	12 9.72	−10 19.6	2.204	3.125	8.0	19.7
3 12	12 2.69	− 8 35.1	2.190	3.162	4.5	19.5
3 22	11 55.30	− 6 41.1	2.206	3.198	2.1	19.4
4 1	11 48.29	− 4 45.1	2.254	3.234	4.1	19.6
4 11	11 42.36	− 2 55.2	2.331	3.269	7.3	19.8
4 21	11 37.97	− 1 17.3	2.436	3.304	10.2	20.1

501504 2014 DA_{40} 3 19.6 69°.25 3°.6/15.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.81	+ 7 54.7	2.206	3.026	12.2	21.4
2 21	12 14.33	+ 9 3.6	2.136	3.035	9.3	21.2
3 2	12 9.03	+10 18.6	2.090	3.044	6.2	21.0
3 12	12 2.47	+11 33.3	2.073	3.053	3.8	20.9
3 22	11 55.35	+12 41.0	2.084	3.062	4.4	20.9
4 1	11 48.48	+13 35.7	2.123	3.071	7.1	21.1
4 11	11 42.63	+14 13.5	2.189	3.080	10.1	21.3
4 21	11 38.33	+14 32.9	2.278	3.089	12.8	21.5

345754 2007 EC_{62} 3 19.6 20°.56 2°.3/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 20.93	+ 1 33.0	1.174	2.012	19.5	20.5
2 21	12 18.31	+ 2 15.8	1.107	2.015	15.1	20.3
3 2	12 12.46	+ 3 16.7	1.059	2.018	9.9	20.0
3 12	12 4.20	+ 4 28.0	1.034	2.022	4.3	19.7
3 22	11 54.79	+ 5 39.1	1.033	2.026	3.4	19.6
4 1	11 45.82	+ 6 38.8	1.057	2.031	8.7	20.0
4 11	11 38.73	+ 7 18.8	1.103	2.036	14.0	20.3
4 21	11 34.42	+ 7 35.2	1.168	2.042	18.5	20.5

144803 2004 HL_{56} 3 19.6 138°.18 6°.7/ 8.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.79	+22 25.6	2.761	3.578	10.1	19.5
2 21	12 14.83	+24 11.2	2.707	3.587	8.3	19.4
3 2	12 9.25	+25 52.9	2.680	3.596	7.0	19.3
3 12	12 2.54	+27 23.3	2.682	3.605	6.8	19.3
3 22	11 55.33	+28 36.5	2.712	3.613	7.8	19.4
4 1	11 48.33	+29 28.5	2.768	3.621	9.4	19.5
4 11	11 42.20	+29 57.6	2.848	3.629	11.2	19.7
4 21	11 37.45	+30 4.9	2.948	3.636	12.8	19.8

77942 2002 GV_{90} 3 19.6 255°.58 1°.6/18.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.63	+ 1 45.2	1.825	2.631	14.9	20.5
2 21	12 19.53	+ 2 20.0	1.723	2.613	11.7	20.3
3 2	12 12.94	+ 3 8.0	1.643	2.595	7.7	20.0
3 12	12 4.38	+ 4 4.2	1.590	2.576	3.4	19.7
3 22	11 54.73	+ 5 2.2	1.564	2.557	2.4	19.6
4 1	11 45.09	+ 5 54.6	1.567	2.537	6.9	19.8
4 11	11 36.62	+ 6 34.6	1.596	2.517	11.3	20.0
4 21	11 30.18	+ 6 58.2	1.647	2.496	15.3	20.2

138405 2000 HV_{24} 3 19.6 33°.14 9°.1/14.1 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 32.10	+21 24.8	1.433	2.261	17.2	19.1
2 21	12 26.32	+22 2.7	1.378	2.269	13.9	18.9
3 2	12 17.34	+22 32.5	1.343	2.278	10.8	18.7
3 12	12 6.18	+22 43.8	1.333	2.287	9.1	18.6
3 22	11 54.24	+22 29.2	1.348	2.297	9.9	18.7
4 1	11 43.08	+21 45.5	1.387	2.307	12.5	18.9
4 11	11 34.02	+20 35.0	1.450	2.318	15.7	19.1
4 21	11 27.82	+19 2.9	1.532	2.330	18.6	19.3

88898 2001 SN_{343} 3 19.6 76°.00 7°.9/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.97	+17 21.5	1.715	2.552	14.4	18.7
2 21	12 17.40	+19 6.9	1.657	2.557	11.4	18.5
3 2	12 11.36	+20 52.1	1.623	2.562	8.9	18.4
3 12	12 3.58	+22 25.8	1.614	2.567	7.9	18.3
3 22	11 55.04	+23 38.4	1.632	2.573	9.2	18.4
4 1	11 46.87	+24 23.2	1.675	2.578	11.8	18.6
4 11	11 40.12	+24 37.8	1.740	2.583	14.7	18.8
4 21	11 35.49	+24 24.2	1.824	2.589	17.3	19.0

231495 2008 QJ_{27} 3 19.6 154°.16 2°.4/16.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.04	+ 5 23.8	2.400	3.204	11.8	21.3
2 21	12 16.67	+ 6 15.5	2.320	3.211	9.0	21.2
3 2	12 10.52	+ 7 14.2	2.266	3.218	5.9	21.0
3 12	12 3.13	+ 8 15.0	2.240	3.224	3.0	20.8
3 22	11 55.18	+ 9 12.1	2.244	3.229	3.1	20.8
4 1	11 47.45	+10 0.3	2.277	3.235	6.0	21.0
4 11	11 40.69	+10 35.5	2.338	3.239	9.1	21.2
4 21	11 35.43	+10 55.8	2.423	3.243	11.9	21.4

381692 2009 CP_{39} 3 19.6 30°.42 0°.9/20.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.68	− 5 5.1	1.941	2.732	14.7	21.1
2 21	12 14.54	− 4 41.2	1.860	2.738	11.6	20.9
3 2	12 9.34	− 4 1.1	1.802	2.745	7.9	20.7
3 12	12 2.67	− 3 8.1	1.769	2.751	3.8	20.5
3 22	11 55.33	− 2 7.6	1.763	2.759	1.1	20.3
4 1	11 48.22	− 1 6.1	1.786	2.766	5.0	20.6
4 11	11 42.22	− 0 10.1	1.835	2.774	8.9	20.8
4 21	11 37.96	+ 0 35.1	1.909	2.782	12.4	21.1

264280 1997 WM_{14} 3 19.6 144°.90 0°.7/18.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.48	− 0 24.0	2.248	3.037	13.0	22.3
2 21	12 17.88	+ 0 14.1	2.167	3.047	10.0	22.1
3 2	12 11.37	+ 1 3.7	2.110	3.058	6.6	21.9
3 12	12 3.52	+ 2 0.4	2.081	3.067	2.8	21.7
3 22	11 55.07	+ 2 58.8	2.082	3.076	1.4	21.6
4 1	11 46.87	+ 3 53.2	2.112	3.084	5.2	21.9
4 11	11 39.73	+ 4 38.6	2.171	3.092	8.7	22.1
4 21	11 34.21	+ 5 11.6	2.254	3.099	11.8	22.3

135484 2001 WZ_{100} 3 19.6 293°.35 2°.9/21.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.04	− 8 36.5	1.430	2.224	18.9	20.1
2 21	12 17.46	− 8 34.9	1.332	2.208	15.4	19.8
3 2	12 11.96	− 8 9.2	1.253	2.191	11.1	19.5
3 12	12 4.09	− 7 20.1	1.197	2.175	6.2	19.2
3 22	11 54.84	− 6 12.1	1.165	2.159	2.9	18.9
4 1	11 45.57	− 4 53.4	1.159	2.143	6.5	19.1
4 11	11 37.72	− 3 35.0	1.178	2.127	11.7	19.3
4 21	11 32.35	− 2 26.6	1.218	2.111	16.5	19.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
231352 2006 FP_{39}			3 19.6 272.°29		0.°2/19.5 17	
	h m	° ′			°	m
2 11	12 21.16	− 1 9.2	1.999	2.795	14.2	20.8
2 21	12 17.26	− 0 52.9	1.906	2.789	11.1	20.6
3 2	12 11.20	− 0 24.1	1.836	2.784	7.4	20.4
3 12	12 3.54	+ 0 13.7	1.792	2.778	3.3	20.1
3 22	11 55.06	+ 0 55.8	1.777	2.772	1.1	19.9
4 1	11 46.73	+ 1 36.5	1.789	2.766	5.4	20.2
4 11	11 39.48	+ 2 10.2	1.829	2.761	9.4	20.4
4 21	11 34.03	+ 2 32.9	1.893	2.755	13.0	20.6
472864 2015 FE_{296}			3 19.6 35.°85		5.°4/13.3 17	
2 11	12 19.42	+14 43.9	2.204	3.029	12.0	20.3
2 21	12 15.64	+15 50.9	2.134	3.032	9.4	20.2
3 2	12 9.95	+16 59.0	2.090	3.034	6.8	20.0
3 12	12 2.91	+18 0.9	2.072	3.037	5.4	19.9
3 22	11 55.28	+18 50.1	2.082	3.039	6.3	20.0
4 1	11 47.90	+19 21.6	2.120	3.042	8.7	20.1
4 11	11 41.58	+19 33.0	2.182	3.045	11.3	20.3
4 21	11 36.89	+19 24.2	2.266	3.048	13.8	20.5
498370 2007 VF_{330}			3 19.6 158.°50		1.°2/18.1 17	
2 11	12 19.09	+ 1 50.4	2.512	3.309	11.6	22.0
2 21	12 15.13	+ 2 29.9	2.426	3.312	8.9	21.8
3 2	12 9.50	+ 3 18.2	2.366	3.316	5.8	21.6
3 12	12 2.69	+ 4 11.4	2.333	3.319	2.5	21.4
3 22	11 55.34	+ 5 4.5	2.329	3.322	1.9	21.4
4 1	11 48.17	+ 5 52.7	2.356	3.324	5.0	21.6
4 11	11 41.87	+ 6 31.7	2.410	3.327	8.2	21.8
4 21	11 36.96	+ 6 58.6	2.490	3.329	11.0	22.0
1763 Williams			3 19.6 217.°60		2.°3/21.5 18	
2 11	12 25.80	− 7 40.7	1.828	2.597	16.3	17.1
2 21	12 21.22	− 7 37.6	1.727	2.588	13.2	16.8
3 2	12 14.06	− 7 15.9	1.647	2.579	9.4	16.6
3 12	12 4.89	− 6 37.0	1.592	2.569	5.1	16.3
3 22	11 54.63	− 5 44.8	1.565	2.558	2.3	16.1
4 1	11 44.42	− 4 45.4	1.566	2.546	5.6	16.3
4 11	11 35.44	− 3 46.7	1.595	2.533	10.0	16.5
4 21	11 28.56	− 2 55.5	1.648	2.520	14.1	16.7
432110 2009 BL_{3}			3 19.6 46.°73		4.°9/25.1 17	
2 11	12 18.44	−16 32.6	2.147	2.874	15.4	20.6
2 21	12 15.07	−16 41.8	2.055	2.878	12.9	20.4
3 2	12 9.70	−16 30.0	1.983	2.881	10.1	20.2
3 12	12 2.86	−15 57.1	1.936	2.885	7.1	20.1
3 22	11 55.29	−15 5.2	1.914	2.889	5.0	19.9
4 1	11 47.88	−13 59.1	1.921	2.893	5.6	20.0
4 11	11 41.51	−12 46.0	1.954	2.897	8.2	20.1
4 21	11 36.82	−11 32.9	2.013	2.901	11.2	20.3
413952 2007 BP_{14}			3 19.6 43.°40		0.°4/20.0 17	
2 11	12 22.10	− 2 32.1	1.582	2.387	16.9	21.4
2 21	12 18.38	− 2 23.7	1.509	2.396	13.2	21.2
3 2	12 12.09	− 1 59.5	1.457	2.405	8.9	20.9
3 12	12 3.95	− 1 23.3	1.429	2.414	4.1	20.7
3 22	11 54.96	− 0 40.8	1.428	2.424	1.1	20.5
4 1	11 46.33	+ 0 1.2	1.454	2.434	6.0	20.8
4 11	11 39.16	+ 0 36.0	1.506	2.445	10.5	21.1
4 21	11 34.21	+ 0 58.9	1.580	2.455	14.4	21.4
50619 2000 EM_{62}			3 19.6 49.°96		0.°7/18.9 18	
2 11	12 20.22	+ 0 13.6	2.003	2.805	13.9	18.7
2 21	12 16.42	+ 0 38.6	1.922	2.810	10.8	18.5
3 2	12 10.55	+ 1 15.0	1.865	2.815	7.1	18.3
3 12	12 3.21	+ 1 58.8	1.833	2.820	3.0	18.1
3 22	11 55.19	+ 2 44.6	1.830	2.825	1.5	18.0
4 1	11 47.41	+ 3 26.6	1.855	2.830	5.5	18.2
4 11	11 40.75	+ 3 59.7	1.907	2.835	9.3	18.5
4 21	11 35.83	+ 4 20.5	1.983	2.840	12.7	18.7
470917 2009 DN_{97}			3 19.6 266.°35		2.°5/16.3 17	
2 11	12 17.03	+ 4 35.3	2.423	3.233	11.6	21.6
2 21	12 13.75	+ 5 41.9	2.325	3.219	8.8	21.4
3 2	12 8.72	+ 6 58.1	2.252	3.205	5.8	21.2
3 12	12 2.41	+ 8 18.6	2.207	3.191	3.0	20.9
3 22	11 55.43	+ 9 37.1	2.191	3.176	3.3	20.9
4 1	11 48.53	+10 47.1	2.206	3.162	6.3	21.1
4 11	11 42.45	+11 43.5	2.247	3.147	9.5	21.3
4 21	11 37.77	+12 23.3	2.312	3.132	12.4	21.4
70385 1999 RU_{219}			3 19.6 197.°09		2.°4/17.1 18	
2 11	12 24.23	+ 4 32.3	2.213	3.013	12.8	20.8
2 21	12 19.39	+ 5 21.7	2.122	3.010	9.9	20.6
3 2	12 12.49	+ 6 20.1	2.055	3.006	6.5	20.3
3 12	12 4.08	+ 7 22.2	2.016	3.001	3.2	20.1
3 22	11 54.92	+ 8 21.7	2.007	2.995	3.1	20.1
4 1	11 45.92	+ 9 12.6	2.028	2.988	6.4	20.3
4 11	11 37.96	+ 9 50.0	2.076	2.980	10.0	20.5
4 21	11 31.71	+10 11.5	2.148	2.972	13.1	20.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
87710 2000 SY_{28}			3 19.6 281.°63		5.°2/26.1 18	
	h m	° ′			°	m
2 11	12 17.09	−19 30.1	2.435	3.138	14.4	19.5
2 21	12 13.98	−19 31.7	2.317	3.120	12.3	19.3
3 2	12 8.99	−19 12.1	2.219	3.101	9.9	19.1
3 12	12 2.57	−18 30.4	2.145	3.083	7.3	18.9
3 22	11 55.37	−17 27.8	2.098	3.064	5.5	18.8
4 1	11 48.17	−16 8.5	2.078	3.046	5.7	18.8
4 11	11 41.80	−14 38.8	2.087	3.027	7.9	18.9
4 21	11 36.91	−13 6.4	2.121	3.008	10.7	19.0
308484 2005 TV_{78}			3 19.6 207.°74		3.°8/14.9 17	
2 11	12 21.23	+ 8 41.3	2.386	3.197	11.7	21.7
2 21	12 16.97	+ 9 56.3	2.296	3.190	9.0	21.5
3 2	12 10.84	+11 18.0	2.233	3.183	6.1	21.3
3 12	12 3.34	+12 40.0	2.198	3.175	3.9	21.2
3 22	11 55.15	+13 55.4	2.193	3.167	4.6	21.2
4 1	11 47.09	+14 57.9	2.217	3.157	7.3	21.4
4 11	11 39.96	+15 43.2	2.268	3.147	10.3	21.5
4 21	11 34.36	+16 9.6	2.343	3.137	13.0	21.7
523803 1999 RV_{2}			3 19.6 129.°02		0.°8/20.6 18	C
2 11	12 26.34	− 5 18.4	2.637	3.390	12.2	24.2
2 21	12 20.45	− 4 53.7	2.559	3.415	9.6	24.0
3 2	12 12.86	− 4 16.9	2.507	3.440	6.5	23.9
3 12	12 4.13	− 3 30.7	2.482	3.463	3.2	23.7
3 22	11 54.94	− 2 39.2	2.489	3.484	1.0	23.5
4 1	11 46.05	− 1 46.8	2.528	3.505	4.0	23.8
4 11	11 38.16	− 0 58.4	2.597	3.525	7.2	24.0
4 21	11 31.77	− 0 17.6	2.693	3.543	10.0	24.2
386231 2007 YE_{49}			3 19.6 76.°69		4.°4/14.2 17	
2 11	12 18.82	+11 43.3	2.285	3.107	11.7	20.5
2 21	12 15.07	+12 49.2	2.217	3.115	9.0	20.3
3 2	12 9.52	+13 58.2	2.173	3.123	6.3	20.1
3 12	12 2.71	+15 3.5	2.158	3.130	4.5	20.0
3 22	11 55.37	+15 58.9	2.171	3.138	5.3	20.1
4 1	11 48.28	+16 39.3	2.212	3.146	7.7	20.3
4 11	11 42.20	+17 1.8	2.279	3.154	10.4	20.4
4 21	11 37.66	+17 5.7	2.368	3.162	12.9	20.6
382902 2004 RN_{71}			3 19.6 208.°97		1.°7/17.6 17	
2 11	12 21.71	+ 3 19.2	2.657	3.450	11.1	22.9
2 21	12 17.13	+ 4 3.0	2.558	3.442	8.6	22.7
3 2	12 10.85	+ 4 55.1	2.484	3.434	5.6	22.5
3 12	12 3.32	+ 5 51.2	2.439	3.424	2.6	22.3
3 22	11 55.17	+ 6 46.6	2.425	3.414	2.3	22.2
4 1	11 47.11	+ 7 36.2	2.441	3.404	5.3	22.4
4 11	11 39.87	+ 8 15.9	2.485	3.392	8.4	22.6
4 21	11 34.00	+ 8 42.9	2.555	3.380	11.2	22.8
348985 2006 UM_{164}			3 19.6 112.°62		3.°8/15.1 17	
2 11	12 21.92	+12 11.3	2.556	3.367	11.0	21.4
2 21	12 17.19	+12 52.2	2.486	3.378	8.4	21.2
3 2	12 10.79	+13 34.5	2.442	3.389	5.8	21.1
3 12	12 3.24	+14 12.9	2.426	3.400	4.0	20.9
3 22	11 55.22	+14 42.9	2.440	3.410	4.5	21.0
4 1	11 47.47	+15 0.6	2.482	3.420	6.8	21.2
4 11	11 40.69	+15 3.9	2.551	3.430	9.3	21.3
4 21	11 35.38	+14 52.6	2.644	3.440	11.7	21.5
329790 2004 PC_{41}			3 19.6 186.°77		6.°0/12.1 17	
2 11	12 22.90	+17 28.1	2.407	3.223	11.4	21.9
2 21	12 18.22	+18 46.0	2.334	3.222	9.1	21.7
3 2	12 11.62	+20 3.3	2.287	3.222	6.9	21.6
3 12	12 3.66	+21 12.8	2.267	3.220	6.0	21.5
3 22	11 55.08	+22 7.9	2.277	3.218	6.9	21.5
4 1	11 46.72	+22 43.7	2.314	3.215	9.1	21.7
4 11	11 39.39	+22 58.0	2.376	3.212	11.5	21.8
4 21	11 33.67	+22 51.3	2.459	3.208	13.7	22.0
388770 2007 YX_{27}			3 19.6 272.°85		4.°6/14.2 17	
2 11	12 19.60	+12 51.1	2.341	3.162	11.5	21.2
2 21	12 15.70	+13 48.5	2.264	3.161	8.9	21.0
3 2	12 9.97	+14 48.1	2.212	3.159	6.3	20.8
3 12	12 2.94	+15 43.7	2.187	3.157	4.7	20.7
3 22	11 55.31	+16 29.4	2.190	3.155	5.4	20.7
4 1	11 47.89	+17 0.3	2.222	3.154	7.8	20.9
4 11	11 41.45	+17 13.5	2.279	3.152	10.5	21.0
4 21	11 36.54	+17 8.7	2.358	3.150	13.0	21.2
246421 2007 VC_{32}			3 19.6 30.°26		3.°7/23.6 17	
2 11	12 18.46	−12 43.9	2.113	2.862	15.0	20.5
2 21	12 15.09	−12 47.4	2.022	2.865	12.3	20.4
3 2	12 9.71	−12 31.8	1.953	2.868	9.2	20.2
3 12	12 2.88	−11 57.9	1.908	2.871	6.0	20.0
3 22	11 55.32	−11 8.5	1.890	2.875	3.7	19.8
4 1	11 47.94	−10 8.8	1.900	2.878	5.0	19.9
4 11	11 41.58	− 9 5.3	1.937	2.882	8.1	20.1
4 21	11 36.89	− 8 4.7	2.000	2.886	11.3	20.3

174561 2003 FG_{130} 3 19.6 24°.26 1°.2/21.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 15.91	− 7 25.6	2.208	2.985	13.6	19.7
2 21	12 12.98	− 6 48.2	2.119	2.987	10.8	19.5
3 2	12 8.23	− 5 53.7	2.053	2.990	7.5	19.3
3 12	12 2.19	− 4 45.2	2.013	2.993	3.8	19.1
3 22	11 55.54	− 3 27.8	2.002	2.997	1.3	18.9
4 1	11 49.07	− 2 8.0	2.019	3.000	4.4	19.1
4 11	11 43.54	− 0 52.7	2.065	3.004	8.1	19.3
4 21	11 39.51	+ 0 12.7	2.136	3.008	11.3	19.5

362729 2011 UR_{276} 3 19.7 129°.80 1°.0/18.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.92	+ 1 7.1	1.704	2.506	16.0	21.4
2 21	12 21.93	+ 1 24.5	1.628	2.515	12.4	21.2
3 2	12 14.37	+ 1 53.7	1.574	2.524	8.2	21.0
3 12	12 4.95	+ 2 30.3	1.547	2.533	3.5	20.7
3 22	11 54.71	+ 3 8.1	1.547	2.541	1.8	20.6
4 1	11 44.82	+ 3 41.0	1.575	2.549	6.4	20.9
4 11	11 36.41	+ 4 3.5	1.630	2.557	10.7	21.2
4 21	11 30.23	+ 4 12.6	1.708	2.564	14.5	21.4

350932 2002 TO_{263} 3 19.7 150°.81 2°.1/21.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.40	− 8 1.9	1.692	2.466	17.2	21.9
2 21	12 20.87	− 7 47.4	1.610	2.474	13.8	21.7
3 2	12 13.75	− 7 12.3	1.548	2.482	9.7	21.5
3 12	12 4.71	− 6 19.0	1.512	2.489	5.2	21.2
3 22	11 54.77	− 5 12.7	1.502	2.496	2.1	21.0
4 1	11 45.11	− 4 1.1	1.521	2.502	5.6	21.3
4 11	11 36.89	− 2 52.9	1.567	2.507	10.1	21.5
4 21	11 30.89	− 1 55.0	1.636	2.511	14.0	21.8

140922 2001 VW_{65} 3 19.7 123°.31 1°.2/20.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.29	− 5 49.6	2.172	2.941	14.0	20.1
2 21	12 18.57	− 5 34.3	2.092	2.957	11.1	19.9
3 2	12 11.86	− 5 4.3	2.036	2.972	7.6	19.8
3 12	12 3.77	− 4 22.6	2.006	2.986	3.8	19.5
3 22	11 55.07	− 3 33.2	2.005	3.000	1.3	19.4
4 1	11 46.66	− 2 41.7	2.034	3.014	4.6	19.6
4 11	11 39.35	− 1 53.8	2.091	3.027	8.2	19.9
4 21	11 33.75	− 1 13.9	2.174	3.039	11.4	20.1

175454 2006 QY_{62} 3 19.7 249°.84 2°.6/21.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.71	− 7 42.5	1.815	2.589	16.3	20.7
2 21	12 19.64	− 7 50.4	1.714	2.577	13.2	20.5
3 2	12 13.04	− 7 40.8	1.633	2.566	9.4	20.2
3 12	12 4.48	− 7 14.5	1.578	2.554	5.3	20.0
3 22	11 54.81	− 6 34.7	1.549	2.542	2.6	19.8
4 1	11 45.19	− 5 46.9	1.548	2.529	5.6	19.9
4 11	11 36.75	− 4 58.3	1.574	2.516	9.9	20.1
4 21	11 30.38	− 4 15.5	1.624	2.503	13.9	20.3

412590 2014 OC_{64} 3 19.7 155°.45 1°.4/21.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.18	− 5 29.9	2.149	2.913	14.4	21.8
2 21	12 21.66	− 5 27.5	2.062	2.922	11.4	21.6
3 2	12 13.98	− 5 11.1	1.998	2.931	7.9	21.4
3 12	12 4.75	− 4 42.9	1.960	2.940	4.0	21.2
3 22	11 54.78	− 4 6.6	1.952	2.947	1.5	21.0
4 1	11 45.06	− 3 26.9	1.975	2.953	4.8	21.2
4 11	11 36.51	− 2 49.5	2.025	2.959	8.5	21.5
4 21	11 29.78	− 2 18.7	2.102	2.964	11.9	21.7

332368 2007 ED_{153} 3 19.7 227°.37 2°.5/16.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.63	+ 2 34.7	1.918	2.732	14.0	20.8
2 21	12 15.38	+ 3 46.2	1.833	2.730	10.7	20.6
3 2	12 10.00	+ 5 10.9	1.773	2.727	7.0	20.3
3 12	12 3.04	+ 6 42.3	1.739	2.725	3.3	20.1
3 22	11 55.32	+ 8 12.1	1.733	2.722	3.4	20.1
4 1	11 47.79	+ 9 32.0	1.757	2.719	7.1	20.3
4 11	11 41.37	+10 35.4	1.806	2.716	10.9	20.5
4 21	11 36.74	+11 18.7	1.878	2.713	14.2	20.7

293939 2007 TT_{12} 3 19.7 137°.70 1°.5/18.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.76	+ 1 49.2	2.021	2.816	14.1	21.5
2 21	12 20.59	+ 2 28.1	1.946	2.831	10.8	21.3
3 2	12 13.26	+ 3 17.5	1.895	2.845	7.0	21.1
3 12	12 4.42	+ 4 12.4	1.872	2.858	3.1	20.9
3 22	11 54.93	+ 5 6.8	1.878	2.870	2.2	20.8
4 1	11 45.77	+ 5 54.3	1.913	2.882	6.0	21.1
4 11	11 37.86	+ 6 30.2	1.976	2.892	9.7	21.3
4 21	11 31.83	+ 6 51.7	2.063	2.902	13.0	21.5

266539 2008 FG_{96} 3 19.7 143°.58 1°.4/18.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.78	+ 1 53.2	2.142	2.938	13.3	21.3
2 21	12 18.99	+ 2 28.0	2.063	2.948	10.3	21.1
3 2	12 12.18	+ 3 12.8	2.008	2.958	6.7	20.9
3 12	12 3.94	+ 4 2.8	1.981	2.967	2.9	20.6
3 22	11 55.07	+ 4 52.6	1.983	2.975	2.0	20.6
4 1	11 46.47	+ 5 36.5	2.014	2.983	5.7	20.8
4 11	11 39.00	+ 6 9.8	2.073	2.991	9.3	21.1
4 21	11 33.26	+ 6 30.0	2.156	2.997	12.4	21.3

143290 2003 AW_{33} 3 19.7 250°.31 4°.6/14.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 18.82	+12 3.0	2.323	3.145	11.6	19.8
2 21	12 15.15	+13 10.3	2.243	3.141	9.0	19.6
3 2	12 9.65	+14 21.0	2.189	3.137	6.3	19.5
3 12	12 2.84	+15 28.6	2.162	3.134	4.6	19.4
3 22	11 55.41	+16 26.6	2.164	3.130	5.4	19.4
4 1	11 48.16	+17 9.6	2.194	3.126	7.9	19.5
4 11	11 41.86	+17 34.3	2.249	3.122	10.7	19.7
4 21	11 37.09	+17 39.8	2.327	3.118	13.2	19.9

445290 2009 XH_{22} 3 19.7 145°.81 2°.4/21.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.51	− 8 23.9	1.746	2.512	17.1	22.5
2 21	12 22.41	− 8 18.0	1.665	2.524	13.7	22.3
3 2	12 14.72	− 7 52.3	1.605	2.536	9.7	22.1
3 12	12 5.15	− 7 9.0	1.570	2.546	5.3	21.8
3 22	11 54.70	− 6 12.4	1.563	2.555	2.4	21.7
4 1	11 44.57	− 5 9.7	1.584	2.564	5.5	21.9
4 11	11 35.88	− 4 8.7	1.633	2.572	9.8	22.2
4 21	11 29.43	− 3 16.2	1.706	2.579	13.6	22.4

94835 2001 XG_{194} 3 19.7 104°.62 2°.4/21.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.60	− 8 20.3	1.611	2.389	17.8	20.8
2 21	12 20.30	− 8 13.4	1.537	2.403	14.2	20.5
3 2	12 13.37	− 7 45.5	1.484	2.418	10.0	20.3
3 12	12 4.55	− 6 59.0	1.455	2.432	5.5	20.1
3 22	11 54.89	− 5 59.2	1.452	2.446	2.4	19.9
4 1	11 45.61	− 4 53.5	1.478	2.459	5.7	20.2
4 11	11 37.85	− 3 50.6	1.529	2.472	10.0	20.4
4 21	11 32.36	− 2 57.4	1.604	2.485	14.0	20.7

461584 2004 RT_{67} 3 19.7 267°.22 0°.5/20.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.67	− 1 32.1	2.157	2.936	13.8	21.6
2 21	12 21.63	− 1 37.6	2.039	2.911	11.0	21.4
3 2	12 14.26	− 1 32.6	1.944	2.886	7.5	21.1
3 12	12 5.03	− 1 19.1	1.876	2.859	3.5	20.8
3 22	11 54.70	− 1 0.3	1.837	2.832	1.0	20.5
4 1	11 44.26	− 0 40.5	1.828	2.805	5.3	20.8
4 11	11 34.76	− 0 24.3	1.847	2.777	9.5	21.0
4 21	11 27.05	− 0 15.6	1.891	2.748	13.2	21.1

300162 2006 VG_{135} 3 19.7 139°.62 1°.8/21.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.35	− 8 15.8	2.594	3.353	12.3	21.1
2 21	12 14.58	− 8 3.4	2.502	3.357	9.8	21.0
3 2	12 9.17	− 7 37.2	2.432	3.360	7.0	20.8
3 12	12 2.60	− 6 59.0	2.389	3.364	3.9	20.6
3 22	11 55.49	− 6 12.1	2.375	3.368	1.8	20.4
4 1	11 48.51	− 5 20.7	2.391	3.371	3.9	20.6
4 11	11 42.37	− 4 29.9	2.435	3.374	7.0	20.8
4 21	11 37.57	− 3 44.1	2.506	3.377	9.9	21.0

498028 2007 GH_{31} 3 19.7 298°.94 4°.9/24.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.13	−17 22.2	1.849	2.588	17.2	21.0
2 21	12 13.83	−17 4.9	1.738	2.570	14.5	20.8
3 2	12 9.22	−16 19.4	1.646	2.551	11.3	20.5
3 12	12 2.81	−15 5.1	1.577	2.533	7.8	20.3
3 22	11 55.39	−13 24.8	1.533	2.514	5.1	20.1
4 1	11 47.97	−11 25.7	1.518	2.496	6.0	20.1
4 11	11 41.63	− 9 18.6	1.529	2.478	9.5	20.2
4 21	11 37.20	− 7 14.8	1.565	2.460	13.4	20.4

19631 Greensleeves 3 19.7 119°.03 3°.8/15.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.01	+ 8 34.9	2.196	3.011	12.4	18.7
2 21	12 16.79	+ 9 44.9	2.129	3.025	9.5	18.6
3 2	12 10.68	+11 0.4	2.087	3.038	6.3	18.4
3 12	12 3.27	+12 14.6	2.073	3.051	4.0	18.3
3 22	11 55.30	+13 20.8	2.088	3.063	4.6	18.3
4 1	11 47.63	+14 13.2	2.131	3.075	7.3	18.5
4 11	11 41.04	+14 48.0	2.201	3.087	10.3	18.7
4 21	11 36.09	+15 4.1	2.294	3.099	13.0	18.9

380546 2004 NB_{25} 3 19.7 210°.95 1°.4/17.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.11	+ 2 10.8	2.855	3.642	10.6	22.9
2 21	12 16.58	+ 3 0.6	2.751	3.632	8.1	22.7
3 2	12 10.47	+ 3 59.2	2.674	3.622	5.3	22.5
3 12	12 3.20	+ 5 2.7	2.626	3.611	2.4	22.2
3 22	11 55.33	+ 6 6.3	2.608	3.599	2.0	22.2
4 1	11 47.53	+ 7 5.2	2.622	3.586	4.9	22.4
4 11	11 40.47	+ 7 55.0	2.665	3.573	7.9	22.6
4 21	11 34.67	+ 8 32.7	2.734	3.558	10.6	22.7

521135 2015 EP_{75} 3 19.7 183°.54 7°.2/10.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.19	+22 18.9	2.395	3.214	11.4	21.0
2 21	12 16.97	+23 40.9	2.332	3.214	9.3	20.9
3 2	12 10.83	+24 58.7	2.293	3.214	7.7	20.8
3 12	12 3.36	+26 4.7	2.281	3.214	7.3	20.8
3 22	11 55.29	+26 52.4	2.297	3.213	8.3	20.8
4 1	11 47.48	+27 17.8	2.339	3.213	10.1	20.9
4 11	11 40.71	+27 19.5	2.404	3.212	12.2	21.1
4 21	11 35.57	+26 59.0	2.489	3.211	14.2	21.2

69918 1998 TP_6 3 19.7 217°.24 3°.1/15.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 20.31	+ 8 9.0	2.743	3.548	10.5	20.5
2 21	12 16.05	+ 9 11.4	2.647	3.538	8.0	20.3
3 2	12 10.15	+10 19.7	2.578	3.527	5.4	20.1
3 12	12 3.06	+11 28.6	2.537	3.516	3.3	20.0
3 22	11 55.37	+12 32.7	2.527	3.504	3.8	20.0
4 1	11 47.77	+13 26.8	2.547	3.491	6.3	20.1
4 11	11 40.94	+14 7.2	2.594	3.477	9.0	20.3
4 21	11 35.42	+14 31.9	2.666	3.463	11.6	20.4

36310 2000 KN_{31} 3 19.7 201°.01 0°.5/20.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.22	− 3 54.7	2.527	3.304	12.1	18.8
2 21	12 15.32	− 3 32.2	2.431	3.302	9.5	18.6
3 2	12 9.71	− 2 57.7	2.359	3.299	6.4	18.4
3 12	12 2.88	− 2 13.8	2.314	3.296	3.0	18.2
3 22	11 55.45	− 1 24.3	2.298	3.293	0.8	18.0
4 1	11 48.13	− 0 34.1	2.312	3.290	4.2	18.3
4 11	11 41.66	+ 0 11.9	2.354	3.286	7.6	18.5
4 21	11 36.57	+ 0 49.9	2.422	3.283	10.6	18.7

410333 2007 US_{52} 3 19.7 214°.36 4°.7/14.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.27	+10 54.1	2.098	2.911	13.0	21.5
2 21	12 20.42	+12 0.9	2.009	2.902	10.1	21.3
3 2	12 13.32	+13 13.1	1.945	2.893	7.0	21.1
3 12	12 4.56	+14 23.4	1.908	2.882	4.8	20.9
3 22	11 54.94	+15 24.3	1.901	2.871	5.6	20.9
4 1	11 45.48	+16 9.1	1.922	2.859	8.5	21.1
4 11	11 37.13	+16 34.0	1.969	2.846	11.8	21.3
4 21	11 30.64	+16 37.9	2.038	2.832	14.7	21.4

186693 2004 BF_{22} 3 19.7 209°.18 0°.3/19.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.71	− 2 10.9	1.715	2.508	16.2	20.8
2 21	12 21.26	− 1 38.1	1.621	2.503	12.8	20.6
3 2	12 14.16	− 0 48.2	1.549	2.496	8.5	20.3
3 12	12 5.02	+ 0 14.5	1.503	2.488	3.8	20.0
3 22	11 54.80	+ 1 23.4	1.485	2.480	1.4	19.8
4 1	11 44.71	+ 2 30.4	1.495	2.471	6.4	20.1
4 11	11 35.95	+ 3 27.5	1.532	2.461	11.1	20.4
4 21	11 29.39	+ 4 9.2	1.592	2.450	15.2	20.6

375957 2009 WN_{178} 3 19.7 198°.40 1°.5/21.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.18	− 7 4.1	2.075	2.848	14.5	22.0
2 21	12 16.46	− 6 42.2	1.981	2.847	11.5	21.8
3 2	12 10.68	− 6 3.3	1.910	2.845	8.0	21.5
3 12	12 3.38	− 5 9.8	1.864	2.843	4.2	21.3
3 22	11 55.31	− 4 6.3	1.847	2.841	1.5	21.1
4 1	11 47.40	− 2 59.1	1.858	2.839	4.8	21.3
4 11	11 40.53	− 1 55.0	1.897	2.836	8.7	21.5
4 21	11 35.37	− 0 59.7	1.962	2.833	12.2	21.8

23746 1998 KQ_{19} 3 19.7 257°.34 0°.4/19.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.52	− 2 47.9	1.565	2.369	17.1	18.8
2 21	12 19.16	− 2 6.8	1.465	2.352	13.5	18.5
3 2	12 13.01	− 1 4.8	1.385	2.334	9.1	18.2
3 12	12 4.60	+ 0 13.7	1.330	2.316	4.0	17.8
3 22	11 54.91	+ 1 41.2	1.302	2.297	1.5	17.6
4 1	11 45.19	+ 3 7.6	1.301	2.278	7.0	17.9
4 11	11 36.80	+ 4 22.9	1.325	2.258	12.2	18.1
4 21	11 30.72	+ 5 19.8	1.372	2.238	16.8	18.3

201409 2002 VF_{141} 3 19.7 75°.94 3°.6/23.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.31	−12 4.9	2.199	2.946	14.6	20.3
2 21	12 16.44	−12 16.3	2.110	2.951	12.0	20.1
3 2	12 10.60	−12 10.3	2.041	2.956	8.9	19.9
3 12	12 3.32	−11 47.4	1.998	2.961	5.7	19.7
3 22	11 55.34	−11 10.3	1.981	2.966	3.6	19.6
4 1	11 47.53	−10 23.2	1.994	2.971	4.9	19.7
4 11	11 40.73	− 9 32.1	2.034	2.976	7.9	19.9
4 21	11 35.58	− 8 42.8	2.099	2.981	11.0	20.1

278672 2008 RO_{93} 3 19.7 249°.61 0°.3/19.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.69	− 1 53.4	2.019	2.815	14.1	21.5
2 21	12 16.13	− 1 20.6	1.927	2.811	11.0	21.3
3 2	12 10.49	− 0 33.6	1.859	2.806	7.3	21.0
3 12	12 3.30	+ 0 23.5	1.816	2.802	3.2	20.8
3 22	11 55.34	+ 1 25.2	1.802	2.797	1.2	20.6
4 1	11 47.54	+ 2 25.0	1.816	2.793	5.4	20.9
4 11	11 40.78	+ 3 16.5	1.858	2.788	9.4	21.1
4 21	11 35.76	+ 3 55.3	1.923	2.783	12.9	21.3

54476 2000 OK_{16} 3 19.7 194°.85 3°.5/24.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.78	−14 7.1	3.010	3.723	11.7	19.3
2 21	12 16.31	−14 19.2	2.903	3.721	9.7	19.1
3 2	12 10.29	−14 17.3	2.820	3.718	7.4	18.9
3 12	12 3.13	−14 1.8	2.762	3.714	5.1	18.8
3 22	11 55.40	−13 34.0	2.733	3.710	3.5	18.7
4 1	11 47.74	−12 56.7	2.735	3.706	4.2	18.7
4 11	11 40.78	−12 14.2	2.766	3.701	6.4	18.8
4 21	11 35.06	−11 30.7	2.823	3.696	8.8	19.0

321278 2009 EW_{15} 3 19.7 84°.67 1°.1/18.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 18.83	+ 0 43.7	2.262	3.062	12.6	20.8
2 21	12 15.09	+ 1 26.1	2.186	3.073	9.7	20.7
3 2	12 9.57	+ 2 19.0	2.134	3.085	6.3	20.5
3 12	12 2.81	+ 3 17.8	2.110	3.096	2.7	20.3
3 22	11 55.51	+ 4 17.0	2.115	3.108	1.8	20.2
4 1	11 48.46	+ 5 11.1	2.149	3.119	5.2	20.5
4 11	11 42.39	+ 5 55.1	2.210	3.131	8.6	20.7
4 21	11 37.84	+ 6 26.0	2.296	3.142	11.6	20.9

97837 2000 PX_{13} 3 19.7 183°.25 2°.0/17.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.61	+ 1 57.3	1.951	2.753	14.3	21.0
2 21	12 19.19	+ 2 55.3	1.865	2.754	11.0	20.7
3 2	12 12.52	+ 4 6.2	1.803	2.754	7.2	20.5
3 12	12 4.20	+ 5 23.8	1.768	2.753	3.2	20.3
3 22	11 55.08	+ 6 40.9	1.762	2.752	2.8	20.2
4 1	11 46.16	+ 7 49.8	1.785	2.750	6.7	20.5
4 11	11 38.42	+ 8 44.2	1.835	2.747	10.6	20.7
4 21	11 32.57	+ 9 20.6	1.908	2.744	14.0	20.9

109437 2001 QT_{198} 3 19.7 158°.23 1°.8/21.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.11	− 7 58.2	2.296	3.055	13.7	20.4
2 21	12 17.68	− 7 40.7	2.206	3.062	10.9	20.2
3 2	12 11.34	− 7 7.5	2.138	3.068	7.7	20.0
3 12	12 3.63	− 6 20.7	2.098	3.074	4.2	19.8
3 22	11 55.26	− 5 24.4	2.086	3.079	1.8	19.7
4 1	11 47.09	− 4 23.8	2.104	3.084	4.4	19.8
4 11	11 39.91	− 3 25.1	2.151	3.088	7.9	20.1
4 21	11 34.33	− 2 33.2	2.223	3.091	11.1	20.3

140877 2001 VN_{19} 3 19.7 92°.97 0°.1/19.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.95	− 2 24.5	2.438	3.221	12.3	20.5
2 21	12 15.79	− 1 59.8	2.363	3.238	9.5	20.3
3 2	12 9.95	− 1 23.9	2.311	3.254	6.3	20.2
3 12	12 2.96	− 0 40.4	2.286	3.271	2.8	20.0
3 22	11 55.48	+ 0 6.6	2.291	3.287	0.8	19.8
4 1	11 48.25	+ 0 52.3	2.326	3.303	4.3	20.1
4 11	11 41.96	+ 1 32.2	2.389	3.319	7.6	20.3
4 21	11 37.12	+ 2 2.9	2.478	3.334	10.5	20.6

242252 2003 SQ_{258} 3 19.7 237°.07 0°.7/19.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.50	− 0 59.4	1.957	2.750	14.5	21.7
2 21	12 19.29	− 0 24.3	1.854	2.736	11.4	21.4
3 2	12 12.73	+ 0 25.4	1.774	2.721	7.6	21.2
3 12	12 4.37	+ 1 25.6	1.720	2.706	3.3	20.9
3 22	11 55.01	+ 2 30.5	1.694	2.689	1.5	20.7
4 1	11 45.69	+ 3 32.9	1.698	2.672	6.0	21.0
4 11	11 37.46	+ 4 26.0	1.729	2.654	10.3	21.2
4 21	11 31.11	+ 5 4.8	1.784	2.636	14.1	21.4

132740 2002 PF_{32} 3 19.7 223°.26 0°.3/19.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.77	− 2 15.7	2.330	3.118	12.6	20.5
2 21	12 15.14	− 1 35.0	2.233	3.112	9.8	20.3
3 2	12 9.70	− 0 41.2	2.160	3.107	6.5	20.0
3 12	12 2.92	+ 0 22.1	2.115	3.100	2.9	19.8
3 22	11 55.48	+ 1 29.8	2.099	3.094	1.1	19.6
4 1	11 48.15	+ 2 35.7	2.112	3.087	4.9	19.9
4 11	11 41.71	+ 3 34.2	2.153	3.080	8.5	20.1
4 21	11 36.76	+ 4 21.0	2.220	3.073	11.7	20.3

26383 1999 MA_2 3 19.7 318°.75 16°.4/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.92	+24 47.5	1.005	1.876	19.5	17.2
2 21	12 16.26	+29 11.5	0.966	1.870	17.1	17.0
3 2	12 11.76	+33 28.1	0.949	1.864	16.4	16.9
3 12	12 4.20	+37 8.7	0.954	1.859	17.7	17.0
3 22	11 55.06	+39 51.4	0.980	1.854	20.5	17.1
4 1	11 46.33	+41 25.9	1.022	1.849	23.6	17.3
4 11	11 39.87	+41 54.3	1.078	1.845	26.4	17.5
4 21	11 36.80	+41 26.7	1.143	1.841	28.9	17.7

317531 2002 TB_{280} 3 19.7 135°.22 2°.8/21.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.91	− 8 57.6	1.607	2.381	18.0	21.5
2 21	12 21.42	− 8 54.7	1.529	2.391	14.5	21.2
3 2	12 14.22	− 8 30.2	1.470	2.401	10.4	21.0
3 12	12 5.01	− 7 46.0	1.435	2.410	5.8	20.8
3 22	11 54.86	− 6 46.9	1.427	2.419	2.8	20.6
4 1	11 45.03	− 5 40.3	1.446	2.427	5.8	20.8
4 11	11 36.73	− 4 35.2	1.492	2.435	10.2	21.1
4 21	11 30.76	− 3 38.9	1.562	2.442	14.3	21.3

371160 2005 XV_{102} 3 19.7 111°.82 2°.6/16.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.83	+ 4 51.5	2.109	2.917	13.1	21.5
2 21	12 17.50	+ 5 45.9	2.040	2.932	10.0	21.3
3 2	12 11.20	+ 6 48.5	1.995	2.947	6.5	21.1
3 12	12 3.55	+ 7 53.3	1.977	2.961	3.2	21.0
3 22	11 55.33	+ 8 53.9	1.989	2.975	3.3	21.0
4 1	11 47.42	+ 9 44.4	2.029	2.989	6.5	21.2
4 11	11 40.65	+10 20.3	2.097	3.002	9.8	21.4
4 21	11 35.57	+10 39.8	2.188	3.015	12.7	21.6

44057 1998 FW_{39} 3 19.7 245°.52 2°.2/21.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 22.14	− 8 5.6	1.466	2.257	18.7	19.4
2 21	12 18.98	− 7 48.9	1.375	2.249	15.1	19.1
3 2	12 12.91	− 7 7.7	1.302	2.241	10.7	18.8
3 12	12 4.57	− 6 4.1	1.253	2.233	5.7	18.5
3 22	11 54.98	− 4 43.8	1.230	2.224	2.2	18.2
4 1	11 45.49	− 3 16.1	1.233	2.215	6.3	18.5
4 11	11 37.48	− 1 52.2	1.261	2.206	11.5	18.7
4 21	11 31.91	− 0 41.2	1.312	2.197	16.1	19.0

473863 2016 EC_{134} 3 19.7 295°.39 0°.1/19.8 17

2 11	12 20.33	− 2 51.3	1.711	2.513	15.9	21.6
2 21	12 17.04	− 2 24.9	1.622	2.508	12.5	21.4
3 2	12 11.31	− 1 41.7	1.554	2.502	8.4	21.1
3 12	12 3.75	− 0 45.4	1.512	2.497	3.8	20.8
3 22	11 55.24	+ 0 17.7	1.496	2.492	1.1	20.6
4 1	11 46.90	+ 1 20.0	1.508	2.486	6.0	20.9
4 11	11 39.80	+ 2 13.9	1.545	2.481	10.5	21.2
4 21	11 34.75	+ 2 53.9	1.606	2.476	14.5	21.4

199491 2006 DD_{85} 3 19.7 189°.62 0°.1/19.8 18

2 11	12 19.63	− 3 14.6	2.208	2.994	13.3	21.0
2 21	12 15.89	− 2 39.6	2.117	2.994	10.4	20.8
3 2	12 10.23	− 1 50.5	2.049	2.993	7.0	20.6
3 12	12 3.18	− 0 51.0	2.007	2.992	3.1	20.3
3 22	11 55.45	+ 0 13.8	1.995	2.991	0.9	20.1
4 1	11 47.87	+ 1 17.8	2.012	2.989	4.9	20.4
4 11	11 41.27	+ 2 14.8	2.057	2.987	8.6	20.6
4 21	11 36.26	+ 3 0.6	2.126	2.985	11.9	20.8

504515 2008 QT_{46} 3 19.7 262°.99 5°.3/24.1 17

2 11	12 26.18	−14 27.2	2.191	2.913	15.3	21.4
2 21	12 21.37	−15 14.7	2.073	2.894	12.9	21.2
3 2	12 14.19	−15 46.3	1.976	2.874	10.1	20.9
3 12	12 5.09	−16 0.1	1.904	2.853	7.3	20.7
3 22	11 54.84	−15 55.8	1.860	2.832	5.4	20.5
4 1	11 44.44	−15 35.4	1.844	2.811	6.3	20.6
4 11	11 34.96	−15 3.8	1.855	2.789	9.1	20.7
4 21	11 27.29	−14 27.0	1.892	2.767	12.4	20.8

507017 2008 UY_{13} 3 19.7 152°.80 1°.3/21.1 17

2 11	12 21.06	− 6 11.6	2.309	3.078	13.3	22.0
2 21	12 16.88	− 5 56.9	2.220	3.083	10.6	21.8
3 2	12 10.82	− 5 27.9	2.153	3.088	7.3	21.6
3 12	12 3.43	− 4 47.1	2.113	3.093	3.8	21.4
3 22	11 55.39	− 3 58.4	2.102	3.097	1.4	21.3
4 1	11 47.54	− 3 6.8	2.121	3.101	4.4	21.5
4 11	11 40.66	− 2 17.8	2.168	3.104	7.9	21.7
4 21	11 35.33	− 1 36.0	2.240	3.108	11.0	21.9

123588 2000 XM_{42} 3 19.7 123°.14 0°.4/19.3 18

2 11	12 26.37	+ 0 40.0	2.301	3.084	12.9	19.9
2 21	12 20.81	+ 0 47.8	2.223	3.099	10.0	19.7
3 2	12 13.33	+ 1 4.3	2.170	3.115	6.6	19.5
3 12	12 4.50	+ 1 26.4	2.144	3.129	2.9	19.3
3 22	11 55.10	+ 1 50.1	2.148	3.143	1.1	19.2
4 1	11 46.00	+ 2 11.3	2.183	3.157	4.9	19.5
4 11	11 38.01	+ 2 26.2	2.246	3.170	8.3	19.7
4 21	11 31.70	+ 2 32.5	2.335	3.183	11.4	20.0

452770 2006 CA_{47} 3 19.7 74°.64 0°.2/19.8 18

2 11	12 26.69	− 1 54.3	1.377	2.185	18.8	22.1
2 21	12 22.22	− 1 44.0	1.315	2.203	14.6	21.8
3 2	12 14.79	− 1 16.7	1.272	2.221	9.8	21.6
3 12	12 5.26	− 0 37.1	1.254	2.239	4.4	21.3
3 22	11 54.87	+ 0 8.0	1.262	2.258	1.2	21.1
4 1	11 45.04	+ 0 50.7	1.296	2.276	6.6	21.5
4 11	11 37.03	+ 1 23.9	1.356	2.293	11.5	21.9
4 21	11 31.61	+ 1 43.2	1.437	2.311	15.6	22.2

496913 2001 SH_{222} 3 19.7 159°.60 0°.8/18.5 17

2 11	12 19.94	+ 1 16.9	2.994	3.779	10.2	22.8
2 21	12 15.53	+ 1 48.8	2.907	3.786	7.8	22.7
3 2	12 9.70	+ 2 28.3	2.845	3.792	5.1	22.5
3 12	12 2.87	+ 3 12.0	2.812	3.798	2.2	22.3
3 22	11 55.60	+ 3 56.1	2.810	3.803	1.4	22.2
4 1	11 48.48	+ 4 36.9	2.838	3.808	4.2	22.4
4 11	11 42.10	+ 5 10.8	2.896	3.812	7.0	22.6
4 21	11 36.91	+ 5 35.4	2.980	3.816	9.5	22.8

116443 2003 YU_{170} 3 19.7 97°.75 5°.7/13.4 18

2 11	12 21.44	+15 18.8	2.143	2.966	12.4	20.1
2 21	12 17.31	+16 22.7	2.073	2.969	9.7	19.9
3 2	12 11.16	+17 27.0	2.028	2.971	7.1	19.7
3 12	12 3.59	+18 24.5	2.009	2.973	5.7	19.6
3 22	11 55.38	+19 8.5	2.019	2.975	6.6	19.7
4 1	11 47.45	+19 34.1	2.055	2.977	8.9	19.8
4 11	11 40.64	+19 38.9	2.117	2.979	11.7	20.0
4 21	11 35.56	+19 23.4	2.199	2.981	14.2	20.2

387242 2012 UU_{56} 3 19.7 228°.15 3°.0/23.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 18.48	−12 14.4	2.433	3.175	13.4	21.6
2 21	12 14.93	−12 5.1	2.330	3.170	11.0	21.4
3 2	12 9.58	−11 38.4	2.249	3.165	8.2	21.2
3 12	12 2.91	−10 55.3	2.194	3.159	5.1	21.0
3 22	11 55.57	− 9 58.9	2.167	3.154	3.1	20.9
4 1	11 48.32	− 8 53.6	2.169	3.148	4.4	21.0
4 11	11 41.92	− 7 45.8	2.200	3.142	7.4	21.1
4 21	11 36.98	− 6 41.2	2.256	3.136	10.5	21.3

291739 2006 JC_{51} 3 19.7 180°.40 1°.6/18.1 18

2 11	12 24.63	+ 2 0.1	2.103	2.899	13.6	21.7
2 21	12 19.82	+ 2 43.7	2.016	2.901	10.5	21.5
3 2	12 12.87	+ 3 38.3	1.952	2.902	6.8	21.3
3 12	12 4.38	+ 4 38.8	1.916	2.902	3.0	21.0
3 22	11 55.13	+ 5 39.1	1.910	2.901	2.3	21.0
4 1	11 46.09	+ 6 32.9	1.933	2.900	6.1	21.2
4 11	11 38.16	+ 7 14.9	1.983	2.898	9.8	21.4
4 21	11 32.02	+ 7 41.8	2.058	2.895	13.1	21.6

128763 2004 RF_{191} 3 19.7 198°.82 2°.9/22.7 18

2 11	12 23.41	−10 6.0	2.351	3.097	13.8	20.4
2 21	12 18.78	−10 16.9	2.250	3.094	11.2	20.2
3 2	12 12.17	−10 12.7	2.172	3.091	8.2	20.0
3 12	12 4.08	− 9 54.1	2.119	3.087	5.0	19.8
3 22	11 55.22	− 9 23.2	2.095	3.083	2.9	19.7
4 1	11 46.45	− 8 44.0	2.100	3.078	4.6	19.8
4 11	11 38.63	− 8 1.7	2.134	3.073	7.8	19.9
4 21	11 32.41	− 7 21.6	2.194	3.067	11.0	20.1

405403 2004 PJ_{50} 3 19.7 240°.90 2°.1/21.4 17

2 11	12 27.91	− 6 25.9	1.916	2.682	15.8	22.5
2 21	12 22.93	− 6 35.1	1.804	2.664	12.8	22.3
3 2	12 15.34	− 6 28.7	1.714	2.646	9.1	22.0
3 12	12 5.65	− 6 7.6	1.649	2.626	4.9	21.7
3 22	11 54.72	− 5 34.5	1.613	2.606	2.2	21.5
4 1	11 43.70	− 4 54.5	1.605	2.585	5.6	21.6
4 11	11 33.80	− 4 14.1	1.626	2.562	10.0	21.8
4 21	11 25.95	− 3 39.3	1.671	2.539	14.1	22.0

462142 2007 TJ_{13} 3 19.7 205°.16 1°.2/18.6 17

2 11	12 25.74	+ 1 11.0	2.105	2.896	13.7	22.5
2 21	12 20.77	+ 1 42.5	2.008	2.890	10.7	22.3
3 2	12 13.58	+ 2 25.1	1.936	2.884	7.0	22.1
3 12	12 4.73	+ 3 14.7	1.890	2.876	3.1	21.8
3 22	11 55.03	+ 4 5.7	1.874	2.868	1.9	21.7
4 1	11 45.46	+ 4 52.2	1.888	2.859	5.9	21.9
4 11	11 36.97	+ 5 28.7	1.930	2.849	9.8	22.1
4 21	11 30.30	+ 5 51.8	1.996	2.838	13.2	22.3

217852 2001 QU_{49} 3 19.7 207°.70 2°.0/21.6 17

2 11	12 24.59	− 7 7.0	2.237	2.997	14.0	21.4
2 21	12 19.80	− 7 9.8	2.135	2.991	11.2	21.2
3 2	12 12.90	− 6 58.4	2.056	2.985	8.0	21.0
3 12	12 4.43	− 6 33.9	2.003	2.979	4.4	20.8
3 22	11 55.12	− 5 59.3	1.979	2.971	2.0	20.6
4 1	11 45.90	− 5 19.1	1.984	2.964	4.7	20.8
4 11	11 37.67	− 4 38.8	2.018	2.955	8.3	21.0
4 21	11 31.13	− 4 3.3	2.078	2.946	11.7	21.1

428728 2008 RB_{82} 3 19.7 113°.28 0°.4/20.2 15

2 11	12 19.72	− 4 51.9	2.209	2.988	13.5	21.8
2 21	12 15.85	− 4 8.2	2.130	3.002	10.6	21.6
3 2	12 10.13	− 3 9.3	2.074	3.016	7.1	21.4
3 12	12 3.12	− 1 59.3	2.045	3.029	3.3	21.2
3 22	11 55.54	− 0 43.8	2.046	3.042	0.8	21.0
4 1	11 48.21	+ 0 30.9	2.076	3.054	4.7	21.3
4 11	11 41.91	+ 1 38.3	2.134	3.066	8.3	21.6
4 21	11 37.18	+ 2 33.9	2.218	3.078	11.4	21.8

358037 2006 FU_{52} 3 19.7 37°.88 3°.1/17.7 18

2 11	12 25.29	+ 5 21.2	1.197	2.035	19.2	20.7
2 21	12 21.55	+ 5 43.5	1.139	2.046	14.8	20.5
3 2	12 14.55	+ 6 16.4	1.101	2.059	9.7	20.2
3 12	12 5.22	+ 6 52.4	1.085	2.071	4.6	20.0
3 22	11 54.92	+ 7 22.8	1.094	2.085	4.0	20.0
4 1	11 45.24	+ 7 40.1	1.128	2.099	8.8	20.3
4 11	11 37.58	+ 7 39.5	1.185	2.114	13.6	20.6
4 21	11 32.75	+ 7 20.0	1.262	2.129	17.8	20.9

500641 2012 VK_{3} 3 19.7 67°.67 3°.1/16.4 17

2 11	12 20.56	+ 7 49.4	2.210	3.025	12.4	21.5
2 21	12 16.50	+ 8 30.9	2.137	3.032	9.4	21.3
3 2	12 10.56	+ 9 17.5	2.088	3.040	6.3	21.1
3 12	12 3.31	+10 4.0	2.067	3.049	3.5	20.9
3 22	11 55.49	+10 44.6	2.074	3.057	3.8	21.0
4 1	11 47.94	+11 14.5	2.110	3.065	6.6	21.2
4 11	11 41.43	+11 30.4	2.172	3.073	9.7	21.4
4 21	11 36.54	+11 31.0	2.258	3.081	12.5	21.6

300200 2006 WS_{100} 3 19.7 172°.21 3°.0/23.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 18.58	−12 49.6	2.737	3.469	12.3	21.1
2 21	12 14.75	−12 45.5	2.639	3.470	10.1	21.0
3 2	12 9.33	−12 26.0	2.562	3.472	7.6	20.8
3 12	12 2.77	−11 52.0	2.512	3.473	4.9	20.6
3 22	11 55.64	−11 5.9	2.490	3.474	3.1	20.5
4 1	11 48.63	−10 11.6	2.498	3.475	4.1	20.6
4 11	11 42.40	− 9 14.2	2.535	3.475	6.7	20.7
4 21	11 37.47	− 8 18.5	2.598	3.475	9.4	20.9

166803 2002 VJ_{58} 3 19.7 65°.20 2°.5/22.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.14	−10 25.8	2.144	2.904	14.5	19.8
2 21	12 14.78	−10 8.2	2.060	2.914	11.7	19.6
3 2	12 9.50	− 9 32.2	1.999	2.924	8.4	19.4
3 12	12 2.87	− 8 40.0	1.962	2.934	4.9	19.2
3 22	11 55.62	− 7 35.7	1.954	2.945	2.5	19.1
4 1	11 48.59	− 6 25.2	1.974	2.955	4.5	19.2
4 11	11 42.58	− 5 15.5	2.022	2.965	7.9	19.4
4 21	11 38.19	− 4 12.3	2.095	2.976	11.1	19.7

149929 2005 SV_{149} 3 19.7 269°.06 2°.1/17.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.78	+ 3 38.7	1.831	2.643	14.7	20.7
2 21	12 18.84	+ 4 9.9	1.738	2.631	11.4	20.5
3 2	12 12.49	+ 4 51.7	1.667	2.620	7.5	20.2
3 12	12 4.31	+ 5 38.9	1.622	2.608	3.4	20.0
3 22	11 55.16	+ 6 25.0	1.605	2.597	2.9	19.9
4 1	11 46.14	+ 7 3.4	1.617	2.585	6.9	20.1
4 11	11 38.31	+ 7 28.7	1.654	2.573	11.1	20.3
4 21	11 32.46	+ 7 37.8	1.713	2.561	14.8	20.5

469181 2016 ER_{201} 3 19.7 24°.04 9°.8/26.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.52	−18 41.6	1.346	2.092	22.2	19.6
2 21	12 21.11	−20 23.1	1.277	2.102	19.1	19.4
3 2	12 14.46	−21 38.4	1.225	2.113	15.7	19.2
3 12	12 5.30	−22 21.9	1.193	2.126	12.3	19.1
3 22	11 54.86	−22 31.4	1.182	2.139	10.1	19.0
4 1	11 44.72	−22 9.6	1.195	2.153	10.2	19.0
4 11	11 36.38	−21 25.2	1.231	2.168	12.5	19.2
4 21	11 30.86	−20 29.4	1.288	2.184	15.6	19.4

161774 2006 TU_{91} 3 19.7 90°.65 3°.0/23.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.80	−12 0.3	2.427	3.172	13.4	19.8
2 21	12 14.36	−11 52.0	2.332	3.174	10.9	19.6
3 2	12 9.17	−11 26.8	2.259	3.175	8.1	19.4
3 12	12 2.72	−10 45.7	2.212	3.177	5.1	19.3
3 22	11 55.66	− 9 52.0	2.192	3.179	3.0	19.1
4 1	11 48.74	− 8 50.1	2.202	3.181	4.3	19.2
4 11	11 42.70	− 7 46.1	2.240	3.183	7.3	19.4
4 21	11 38.09	− 6 45.6	2.304	3.185	10.2	19.6

363468 2003 SE_{273} 3 19.7 220°.72 3°.5/23.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.66	−12 28.6	2.152	2.891	15.1	22.2
2 21	12 19.28	−12 26.3	2.043	2.881	12.4	22.0
3 2	12 12.68	−12 4.6	1.955	2.870	9.3	21.8
3 12	12 4.39	−11 23.9	1.893	2.857	5.9	21.5
3 22	11 55.14	−10 26.7	1.858	2.844	3.5	21.4
4 1	11 45.93	− 9 18.1	1.853	2.830	5.2	21.4
4 11	11 37.71	− 8 5.4	1.876	2.816	8.6	21.6
4 21	11 31.25	− 6 55.8	1.924	2.800	12.2	21.8

9214 1995 UC_{6} 3 19.7 262°.85 3°.3/22.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.87	− 8 15.1	1.581	2.359	18.1	17.4
2 21	12 21.91	− 8 36.1	1.476	2.341	14.8	17.1
3 2	12 14.97	− 8 38.1	1.391	2.323	10.8	16.8
3 12	12 5.60	− 8 20.7	1.329	2.304	6.3	16.5
3 22	11 54.74	− 7 46.4	1.294	2.285	3.3	16.3
4 1	11 43.78	− 7 0.6	1.285	2.265	6.4	16.4
4 11	11 34.13	− 6 11.6	1.302	2.246	11.3	16.6
4 21	11 26.90	− 5 27.4	1.341	2.225	15.9	16.8

264684 2001 YJ_{129} 3 19.7 146°.73 7°.4/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.07	+20 10.8	2.057	2.876	13.0	20.3
2 21	12 20.20	+21 27.0	1.995	2.882	10.5	20.2
3 2	12 13.11	+22 39.6	1.959	2.888	8.3	20.0
3 12	12 4.46	+23 40.1	1.948	2.893	7.4	20.0
3 22	11 55.17	+24 21.4	1.965	2.898	8.4	20.1
4 1	11 46.23	+24 38.7	2.008	2.903	10.6	20.2
4 11	11 38.60	+24 31.2	2.075	2.907	13.0	20.4
4 21	11 32.91	+24 0.6	2.162	2.911	15.3	20.5

148843 2001 VZ_{16} 3 19.7 105°.02 4°.7/24.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.98	−13 47.0	2.006	2.739	16.2	20.2
2 21	12 20.99	−14 19.4	1.926	2.755	13.4	20.0
3 2	12 13.71	−14 32.7	1.865	2.770	10.2	19.8
3 12	12 4.77	−14 26.7	1.830	2.785	7.0	19.7
3 22	11 55.06	−14 2.8	1.822	2.800	4.8	19.5
4 1	11 45.62	−13 25.3	1.842	2.814	5.8	19.6
4 11	11 37.43	−12 40.4	1.889	2.828	8.7	19.8
4 21	11 31.19	−11 54.9	1.962	2.842	11.8	20.0

497752 2006 SA_{248} 3 19.7 193°.09 0°.9/18.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 21.59	+ 1 48.3	2.561	3.352	11.6	21.8
2 21	12 17.11	+ 2 5.7	2.469	3.350	8.9	21.6
3 2	12 10.92	+ 2 30.9	2.401	3.349	5.9	21.4
3 12	12 3.49	+ 3 0.7	2.362	3.347	2.5	21.2
3 22	11 55.47	+ 3 31.2	2.352	3.346	1.4	21.1
4 1	11 47.60	+ 3 58.3	2.372	3.344	4.7	21.3
4 11	11 40.59	+ 4 18.4	2.420	3.341	8.0	21.5
4 21	11 35.00	+ 4 29.0	2.494	3.339	10.8	21.7

292028 2006 QT_{162} 3 19.7 195°.83 1°.4/21.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.93	− 7 8.5	2.050	2.821	14.7	22.2
2 21	12 17.89	− 6 40.5	1.955	2.819	11.7	22.0
3 2	12 11.71	− 5 54.6	1.881	2.816	8.2	21.8
3 12	12 3.92	− 4 53.4	1.833	2.813	4.2	21.5
3 22	11 55.33	− 3 41.9	1.814	2.809	1.4	21.3
4 1	11 46.87	− 2 26.8	1.825	2.805	4.9	21.6
4 11	11 39.49	− 1 15.6	1.863	2.800	8.9	21.8
4 21	11 33.88	− 0 14.2	1.926	2.794	12.5	22.0

5190 Fry 3 19.7 60°.14 5°.7/25.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.45	−17 4.8	2.162	2.876	15.7	16.8
2 21	12 18.89	−17 47.4	2.085	2.896	13.2	16.7
3 2	12 12.25	−18 10.5	2.029	2.916	10.4	16.5
3 12	12 4.11	−18 13.3	1.997	2.937	7.7	16.4
3 22	11 55.30	−17 56.6	1.992	2.957	5.8	16.3
4 1	11 46.75	−17 24.1	2.014	2.978	6.2	16.4
4 11	11 39.36	−16 41.4	2.063	2.998	8.3	16.5
4 21	11 33.74	−15 55.0	2.138	3.019	10.9	16.7

373880 2003 SD_{214} 3 19.7 71°.46 5°.6/14.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.41	+14 57.3	1.997	2.818	13.2	20.7
2 21	12 19.68	+15 45.0	1.931	2.826	10.3	20.5
3 2	12 12.75	+16 32.5	1.889	2.833	7.5	20.4
3 12	12 4.32	+17 12.7	1.874	2.841	5.6	20.3
3 22	11 55.25	+17 39.3	1.886	2.849	6.4	20.3
4 1	11 46.56	+17 47.8	1.925	2.856	8.9	20.5
4 11	11 39.15	+17 36.4	1.990	2.864	11.8	20.7
4 21	11 33.65	+17 6.1	2.076	2.872	14.5	20.9

447453 2006 HS_{12} 3 19.7 284°.79 7°.4/16.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 40.98	+16 7.1	1.168	1.994	20.4	20.3
2 21	12 34.60	+16 10.1	1.089	1.984	16.4	20.1
3 2	12 23.85	+16 8.6	1.028	1.974	11.8	19.8
3 12	12 9.63	+15 51.7	0.990	1.964	8.0	19.5
3 22	11 53.62	+15 10.6	0.977	1.954	8.1	19.5
4 1	11 38.07	+14 1.1	0.990	1.945	12.3	19.7
4 11	11 25.07	+12 25.3	1.027	1.935	17.3	19.9
4 21	11 15.89	+10 29.9	1.083	1.926	21.9	20.2

497293 2005 SD_{98} 3 19.7 236°.96 2°.2/21.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.31	− 8 52.2	2.265	3.021	13.9	22.8
2 21	12 18.12	− 8 41.3	2.153	3.006	11.3	22.6
3 2	12 11.86	− 8 13.8	2.063	2.990	8.1	22.3
3 12	12 4.03	− 7 30.8	2.000	2.974	4.6	22.1
3 22	11 55.31	− 6 35.7	1.965	2.957	2.2	21.9
4 1	11 46.59	− 5 33.7	1.959	2.939	4.7	22.0
4 11	11 38.78	− 4 31.0	1.982	2.921	8.4	22.2
4 21	11 32.59	− 3 33.8	2.031	2.902	11.9	22.4

460020 2014 OL_{139} 3 19.7 117°.82 0°.8/18.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.35	− 1 0.2	1.783	2.581	15.6	22.0
2 21	12 19.83	− 0 16.1	1.712	2.597	12.0	21.8
3 2	12 12.96	+ 0 42.6	1.664	2.613	7.9	21.5
3 12	12 4.44	+ 1 50.5	1.642	2.628	3.4	21.3
3 22	11 55.23	+ 3 0.4	1.648	2.643	1.7	21.2
4 1	11 46.38	+ 4 4.8	1.683	2.657	6.1	21.5
4 11	11 38.91	+ 4 57.1	1.745	2.670	10.2	21.8
4 21	11 33.47	+ 5 33.5	1.830	2.683	13.8	22.0

247848 2003 SF_{369} 3 19.7 262°.70 1°.2/20.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.38	− 5 52.1	1.679	2.470	16.7	21.5
2 21	12 18.08	− 5 29.7	1.579	2.456	13.3	21.2
3 2	12 12.19	− 4 47.0	1.500	2.442	9.2	20.9
3 12	12 4.28	− 3 46.5	1.446	2.428	4.6	20.6
3 22	11 55.23	− 2 34.0	1.418	2.414	1.3	20.4
4 1	11 46.22	− 1 17.4	1.418	2.399	5.9	20.6
4 11	11 38.44	− 0 5.9	1.444	2.384	10.7	20.9
4 21	11 32.79	+ 0 53.1	1.493	2.369	15.0	21.1

93562 2000 UW_{37} 3 19.7 110°.38 2°.1/22.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.84	− 9 28.7	2.121	2.882	14.6	20.2
2 21	12 16.84	− 9 6.1	2.041	2.896	11.7	20.0
3 2	12 10.86	− 8 25.4	1.982	2.910	8.3	19.8
3 12	12 3.49	− 7 29.2	1.950	2.924	4.6	19.6
3 22	11 55.51	− 6 21.9	1.945	2.938	2.1	19.4
4 1	11 47.78	− 5 9.9	1.970	2.951	4.6	19.6
4 11	11 41.15	− 4 0.0	2.023	2.964	8.1	19.9
4 21	11 36.20	− 2 58.0	2.102	2.976	11.4	20.1

456769 2007 TW_{121} 3 19.7 180°.72 2°.2/17.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 26.45	+ 4 8.5	2.038	2.837	13.8	22.1
2 21	12 21.31	+ 4 44.7	1.952	2.839	10.7	21.9
3 2	12 13.93	+ 5 29.9	1.890	2.840	7.0	21.7
3 12	12 4.90	+ 6 18.9	1.855	2.840	3.3	21.4
3 22	11 55.09	+ 7 5.6	1.850	2.839	2.9	21.4
4 1	11 45.51	+ 7 44.1	1.873	2.838	6.5	21.6
4 11	11 37.11	+ 8 9.9	1.925	2.836	10.2	21.8
4 21	11 30.61	+ 8 20.6	2.000	2.833	13.6	22.0

264554 2001 SR_{254} 3 19.7 135°.54 1°.2/18.3 17

2 11	12 22.52	+ 0 39.9	2.404	3.192	12.3	22.0
2 21	12 17.83	+ 1 30.1	2.328	3.209	9.4	21.8
3 2	12 11.36	+ 2 30.6	2.276	3.224	6.1	21.6
3 12	12 3.68	+ 3 36.7	2.253	3.239	2.6	21.4
3 22	11 55.47	+ 4 42.8	2.260	3.253	1.8	21.4
4 1	11 47.53	+ 5 43.3	2.298	3.266	5.1	21.6
4 11	11 40.58	+ 6 33.5	2.364	3.279	8.4	21.8
4 21	11 35.15	+ 7 10.3	2.455	3.291	11.3	22.0

380102 2013 TX_{11} 3 19.7 139°.48 1°.9/22.0 17

2 11	12 19.95	− 9 40.8	2.272	3.028	13.9	21.4
2 21	12 16.07	− 9 8.7	2.184	3.038	11.1	21.2
3 2	12 10.33	− 8 18.8	2.119	3.046	7.9	21.0
3 12	12 3.26	− 7 13.5	2.080	3.055	4.4	20.8
3 22	11 55.59	− 5 57.6	2.070	3.063	1.9	20.6
4 1	11 48.12	− 4 37.2	2.090	3.070	4.3	20.8
4 11	11 41.64	− 3 19.1	2.138	3.077	7.8	21.0
4 21	11 36.73	− 2 9.3	2.212	3.084	11.0	21.3

46232 2001 HS_{7} 3 19.7 231°.99 2°.4/22.8 18

2 11	12 18.75	−11 13.2	2.549	3.293	12.8	19.3
2 21	12 15.09	−10 51.5	2.439	3.282	10.5	19.1
3 2	12 9.70	−10 12.7	2.352	3.271	7.6	18.9
3 12	12 3.02	− 9 18.4	2.291	3.260	4.6	18.7
3 22	11 55.65	− 8 11.7	2.258	3.248	2.4	18.5
4 1	11 48.35	− 6 57.6	2.256	3.236	4.2	18.6
4 11	11 41.83	− 5 42.4	2.283	3.223	7.3	18.8
4 21	11 36.70	− 4 31.7	2.336	3.210	10.4	18.9

257218 2009 BK_{112} 3 19.7 337°.54 0°.4/20.0 17

2 11	12 17.28	− 3 22.7	1.259	2.086	19.1	20.4
2 21	12 15.57	− 3 4.7	1.176	2.075	15.2	20.1
3 2	12 10.85	− 2 24.6	1.111	2.064	10.3	19.8
3 12	12 3.77	− 1 26.4	1.069	2.055	4.8	19.4
3 22	11 55.41	− 0 17.4	1.050	2.046	1.3	19.1
4 1	11 47.19	+ 0 52.0	1.056	2.039	7.2	19.5
4 11	11 40.56	+ 1 51.3	1.086	2.032	12.7	19.8
4 21	11 36.51	+ 2 32.9	1.135	2.027	17.6	20.0

211897 2004 JP_{39} 3 19.7 95°.44 3°.2/15.7 17

2 11	12 18.29	+ 7 15.6	2.370	3.184	11.6	20.7
2 21	12 14.66	+ 8 20.6	2.298	3.194	8.8	20.5
3 2	12 9.32	+ 9 31.7	2.251	3.203	5.9	20.4
3 12	12 2.79	+10 43.1	2.232	3.213	3.4	20.2
3 22	11 55.74	+11 48.6	2.242	3.222	3.9	20.3
4 1	11 48.92	+12 42.8	2.281	3.231	6.6	20.4
4 11	11 43.03	+13 21.7	2.347	3.240	9.5	20.6
4 21	11 38.60	+13 43.7	2.437	3.249	12.1	20.8

346856 2009 EZ_{14} 3 19.7 91°.90 0°.5/20.2 17

2 11	12 21.89	− 2 20.0	2.299	3.081	13.0	21.3
2 21	12 17.50	− 2 15.3	2.214	3.088	10.1	21.1
3 2	12 11.25	− 1 59.7	2.153	3.095	6.8	20.9
3 12	12 3.67	− 1 35.9	2.119	3.103	3.2	20.7
3 22	11 55.48	− 1 7.5	2.114	3.110	0.8	20.5
4 1	11 47.50	− 0 38.8	2.138	3.117	4.5	20.8
4 11	11 40.51	− 0 14.2	2.191	3.124	8.0	21.0
4 21	11 35.10	+ 0 3.0	2.268	3.131	11.1	21.2

508788 2000 CQ_{114} 3 19.7 97°.10 0°.0/18.9 17

2 11	11 59.71	+ 1 57.0	46.372	47.156	0.7	23.7
2 21	11 59.16	+ 2 0.7	46.280	47.159	0.6	23.7
3 2	11 58.55	+ 2 4.8	46.214	47.161	0.4	23.7
3 12	11 57.89	+ 2 9.1	46.178	47.164	0.2	23.6
3 22	11 57.22	+ 2 13.4	46.172	47.167	0.1	23.6
4 1	11 56.55	+ 2 17.6	46.196	47.169	0.3	23.7
4 11	11 55.91	+ 2 21.6	46.250	47.172	0.5	23.7
4 21	11 55.32	+ 2 25.1	46.330	47.175	0.7	23.7

14852 1989 SE 3 19.7 182°.38 0°.5/19.1 18

2 11	12 24.67	+ 0 2.1	2.510	3.289	12.1	19.6
2 21	12 19.52	+ 0 25.8	2.416	3.290	9.4	19.4
3 2	12 12.55	+ 0 59.0	2.346	3.291	6.2	19.2
3 12	12 4.25	+ 1 38.5	2.305	3.291	2.7	19.0
3 22	11 55.31	+ 2 20.0	2.295	3.289	1.2	18.9
4 1	11 46.52	+ 2 59.0	2.315	3.287	4.7	19.1
4 11	11 38.66	+ 3 31.2	2.364	3.285	8.1	19.3
4 21	11 32.31	+ 3 53.6	2.438	3.281	11.1	19.5

113228 2002 RN_{122} 3 19.7 152°.14 3°.1/15.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 18.79	+ 6 41.5	2.394	3.206	11.6	19.6
2 21	12 15.07	+ 7 53.5	2.316	3.211	8.8	19.5
3 2	12 9.62	+ 9 12.7	2.263	3.215	5.8	19.3
3 12	12 2.94	+10 33.0	2.239	3.219	3.4	19.1
3 22	11 55.70	+11 48.0	2.244	3.223	3.9	19.2
4 1	11 48.66	+12 51.6	2.278	3.227	6.6	19.3
4 11	11 42.52	+13 39.7	2.340	3.231	9.6	19.5
4 21	11 37.84	+14 10.1	2.425	3.234	12.2	19.7

67938 2000 WV_{137} 3 19.7 93°.04 0°.2/19.5 18

2 11	12 25.87	− 1 41.0	1.642	2.440	16.7	19.4
2 21	12 21.15	− 1 17.4	1.576	2.460	12.9	19.2
3 2	12 13.90	− 0 38.7	1.532	2.479	8.6	19.0
3 12	12 4.88	+ 0 10.2	1.513	2.499	3.8	18.7
3 22	11 55.15	+ 1 3.0	1.522	2.518	1.2	18.6
4 1	11 45.87	+ 1 52.4	1.559	2.536	6.0	19.0
4 11	11 38.13	+ 2 31.9	1.622	2.554	10.4	19.2
4 21	11 32.61	+ 2 57.8	1.709	2.572	14.1	19.5

495842 2001 XE_{105} 3 19.7 131°.90 4°.6/27.2 17

2 11	12 20.39	−21 54.6	3.398	4.053	11.4	22.1
2 21	12 15.82	−22 0.6	3.306	4.071	9.8	22.0
3 2	12 9.88	−21 50.6	3.235	4.089	7.9	21.9
3 12	12 3.00	−21 24.4	3.190	4.106	6.1	21.8
3 22	11 55.70	−20 43.4	3.173	4.122	4.8	21.7
4 1	11 48.56	−19 50.3	3.186	4.138	4.8	21.7
4 11	11 42.13	−18 49.2	3.227	4.153	6.0	21.8
4 21	11 36.85	−17 44.9	3.297	4.168	7.8	21.9

5308 Hutchison 3 19.7 231°.73 3°.8/24.2 18

2 11	12 20.24	−14 55.4	2.366	3.092	14.2	18.5
2 21	12 16.46	−14 45.8	2.254	3.080	11.8	18.3
3 2	12 10.72	−14 16.3	2.164	3.068	9.0	18.1
3 12	12 3.52	−13 27.2	2.098	3.055	6.0	17.9
3 22	11 55.52	−12 21.0	2.060	3.042	3.9	17.7
4 1	11 47.55	−11 2.7	2.052	3.028	4.9	17.8
4 11	11 40.46	− 9 39.0	2.072	3.014	7.9	17.9
4 21	11 34.92	− 8 17.1	2.119	2.999	11.0	18.1

456835 2007 TP_{444} 3 19.7 162°.07 1°.3/20.9 18

2 11	12 25.00	− 5 33.6	1.929	2.704	15.4	22.2
2 21	12 20.34	− 5 20.2	1.842	2.710	12.2	22.0
3 2	12 13.36	− 4 50.5	1.777	2.715	8.4	21.8
3 12	12 4.68	− 4 7.3	1.738	2.719	4.2	21.6
3 22	11 55.19	− 3 15.1	1.728	2.723	1.4	21.3
4 1	11 45.92	− 2 20.2	1.746	2.726	5.2	21.6
4 11	11 37.88	− 1 29.3	1.792	2.729	9.3	21.9
4 21	11 31.78	− 0 47.7	1.863	2.731	12.9	22.1

6058 Carlnielsen 3 19.7 233°.98 3°.1/22.3 18

2 11	12 24.27	− 9 48.4	1.759	2.524	17.0	17.6
2 21	12 20.27	− 9 48.2	1.656	2.513	13.9	17.4
3 2	12 13.65	− 9 27.1	1.574	2.501	10.1	17.1
3 12	12 4.95	− 8 45.9	1.516	2.489	5.9	16.9
3 22	11 55.09	− 7 47.7	1.485	2.476	3.1	16.6
4 1	11 45.24	− 6 39.3	1.481	2.462	5.8	16.8
4 11	11 36.62	− 5 29.1	1.505	2.448	10.1	17.0
4 21	11 30.14	− 4 25.2	1.552	2.433	14.3	17.2

471056 2009 UK_{127} 3 19.7 58°.79 6°.9/13.4 18

2 11	12 24.29	+15 54.1	1.676	2.508	14.9	20.3
2 21	12 19.80	+17 9.9	1.634	2.533	11.6	20.2
3 2	12 12.89	+18 24.2	1.614	2.557	8.6	20.1
3 12	12 4.39	+19 27.3	1.620	2.582	6.9	20.0
3 22	11 55.35	+20 11.4	1.652	2.607	7.9	20.1
4 1	11 46.90	+20 31.6	1.710	2.632	10.4	20.3
4 11	11 40.01	+20 26.7	1.792	2.657	13.3	20.6
4 21	11 35.29	+19 59.1	1.894	2.682	15.9	20.8

329473 2002 QN_{62} 3 19.7 170°.02 0°.5/20.3 17

2 11	12 23.75	− 3 59.9	2.193	2.968	13.7	22.6
2 21	12 19.09	− 3 35.0	2.103	2.973	10.8	22.4
3 2	12 12.40	− 2 56.2	2.036	2.976	7.3	22.1
3 12	12 4.23	− 2 6.4	1.997	2.980	3.4	21.9
3 22	11 55.36	− 1 10.6	1.986	2.982	0.9	21.7
4 1	11 46.68	− 0 14.3	2.006	2.984	4.8	22.0
4 11	11 39.04	+ 0 36.5	2.054	2.985	8.6	22.2
4 21	11 33.11	+ 1 17.3	2.127	2.985	11.9	22.4

211868 2004 GB_{67} 3 19.7 215°.95 1°.8/17.8 17

2 11	12 22.97	+ 5 17.6	2.425	3.224	11.9	21.2
2 21	12 18.29	+ 5 34.5	2.335	3.222	9.1	21.0
3 2	12 11.77	+ 5 57.1	2.270	3.220	6.0	20.8
3 12	12 3.93	+ 6 21.7	2.232	3.217	2.8	20.6
3 22	11 55.45	+ 6 43.9	2.224	3.215	2.4	20.5
4 1	11 47.15	+ 6 59.9	2.246	3.212	5.5	20.7
4 11	11 39.79	+ 7 6.5	2.296	3.209	8.7	20.9
4 21	11 33.95	+ 7 1.9	2.370	3.206	11.6	21.1

111882 2002 EC_{130} 3 19.7 33°.86 4°.1/24.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 17.67	−15 41.6	2.507	3.230	13.6	19.8
2 21	12 14.28	−15 43.3	2.409	3.230	11.3	19.7
3 2	12 9.16	−15 26.9	2.331	3.230	8.7	19.5
3 12	12 2.79	−14 52.8	2.279	3.231	6.0	19.3
3 22	11 55.79	−14 3.0	2.254	3.231	4.2	19.2
4 1	11 48.90	−13 1.7	2.258	3.232	4.8	19.2
4 11	11 42.87	−11 54.8	2.290	3.232	7.2	19.4
4 21	11 38.24	−10 48.1	2.348	3.233	9.9	19.5

459575 2013 GF_{109} 3 19.7 315°.36 3°.9/22.7 17

2 11	12 18.89	−10 11.0	1.371	2.165	19.6	21.1
2 21	12 16.78	−10 24.2	1.277	2.149	16.1	20.8
3 2	12 11.70	−10 12.6	1.200	2.134	11.9	20.5
3 12	12 4.21	− 9 35.8	1.145	2.119	7.2	20.2
3 22	11 55.32	− 8 37.1	1.114	2.105	4.0	19.9
4 1	11 46.43	− 7 24.0	1.108	2.091	6.7	20.0
4 11	11 38.99	− 6 7.6	1.126	2.078	11.7	20.3
4 21	11 34.08	− 4 58.2	1.165	2.066	16.5	20.5

432135 2009 BZ_{63} 3 19.7 52°.25 2°.3/17.6 17

2 11	12 21.64	+ 4 41.4	1.913	2.726	14.0	20.7
2 21	12 17.58	+ 5 13.8	1.846	2.741	10.7	20.5
3 2	12 11.40	+ 5 54.2	1.804	2.757	7.0	20.3
3 12	12 3.76	+ 6 37.2	1.787	2.772	3.3	20.1
3 22	11 55.53	+ 7 16.8	1.798	2.788	3.0	20.1
4 1	11 47.65	+ 7 47.5	1.838	2.804	6.4	20.4
4 11	11 41.01	+ 8 5.3	1.904	2.820	10.0	20.6
4 21	11 36.21	+ 8 8.5	1.992	2.836	13.2	20.8

287511 2003 BP_{65} 3 19.7 59°.65 1°.5/18.3 18

2 11	12 21.66	− 0 19.5	1.522	2.337	17.0	20.5
2 21	12 17.99	+ 0 39.5	1.468	2.363	13.0	20.3
3 2	12 11.82	+ 1 54.2	1.435	2.389	8.4	20.1
3 12	12 3.97	+ 3 17.1	1.428	2.415	3.6	19.8
3 22	11 55.48	+ 4 39.3	1.447	2.441	2.4	19.8
4 1	11 47.53	+ 5 51.6	1.494	2.467	6.9	20.1
4 11	11 41.12	+ 6 47.2	1.567	2.493	11.1	20.4
4 21	11 36.89	+ 7 23.0	1.661	2.519	14.7	20.7

426549 2013 RW_{84} 3 19.7 185°.47 2°.7/22.4 17

2 11	12 21.30	− 9 39.9	2.043	2.804	15.1	21.3
2 21	12 17.45	− 9 37.8	1.950	2.804	12.2	21.1
3 2	12 11.45	− 9 17.9	1.878	2.804	8.8	20.9
3 12	12 3.87	− 8 41.4	1.831	2.803	5.2	20.7
3 22	11 55.48	− 7 51.8	1.812	2.803	2.7	20.5
4 1	11 47.24	− 6 54.4	1.822	2.802	4.9	20.7
4 11	11 40.08	− 5 56.2	1.859	2.801	8.6	20.9
4 21	11 34.69	− 5 3.1	1.921	2.800	12.0	21.1

162745 2000 WT_{18} 3 19.7 135°.47 2°.2/21.9 18

2 11	12 25.07	− 8 51.7	2.021	2.779	15.3	20.8
2 21	12 20.21	− 8 35.9	1.940	2.795	12.3	20.6
3 2	12 13.17	− 8 1.9	1.881	2.809	8.7	20.4
3 12	12 4.58	− 7 12.2	1.848	2.823	4.8	20.2
3 22	11 55.29	− 6 11.1	1.843	2.836	2.2	20.0
4 1	11 46.29	− 5 4.9	1.868	2.848	4.8	20.2
4 11	11 38.51	− 4 0.7	1.921	2.860	8.6	20.5
4 21	11 32.60	− 3 4.4	1.999	2.870	12.0	20.7

290309 2005 SN_{184} 3 19.7 207°.73 1°.3/21.4 17

2 11	12 17.99	− 6 48.9	2.696	3.459	11.8	21.5
2 21	12 14.34	− 6 30.3	2.597	3.457	9.3	21.3
3 2	12 9.11	− 5 58.7	2.522	3.454	6.5	21.1
3 12	12 2.75	− 5 16.3	2.473	3.451	3.4	20.9
3 22	11 55.83	− 4 26.4	2.454	3.448	1.3	20.7
4 1	11 49.01	− 3 33.3	2.465	3.445	3.8	20.9
4 11	11 42.96	− 2 41.9	2.505	3.442	6.9	21.1
4 21	11 38.18	− 1 56.4	2.571	3.439	9.8	21.3

504681 2009 FA_{2} 3 19.7 13°.97 1°.5/18.4 17

2 11	12 21.56	+ 3 17.8	1.974	2.783	13.8	21.2
2 21	12 17.58	+ 3 31.4	1.894	2.786	10.7	21.0
3 2	12 11.48	+ 3 53.3	1.836	2.788	7.0	20.8
3 12	12 3.85	+ 4 19.4	1.805	2.791	3.1	20.5
3 22	11 55.51	+ 4 44.9	1.802	2.795	2.1	20.5
4 1	11 47.42	+ 5 4.7	1.827	2.799	5.9	20.7
4 11	11 40.47	+ 5 14.9	1.878	2.803	9.7	20.9
4 21	11 35.32	+ 5 13.0	1.953	2.807	13.0	21.2

216243 2006 VP_{45} 3 19.7 357°.96 6°.2/26.8 17

2 11	12 15.55	−19 59.9	1.986	2.705	16.8	19.6
2 21	12 13.19	−20 12.4	1.891	2.702	14.4	19.5
3 2	12 8.73	−20 0.0	1.816	2.701	11.6	19.3
3 12	12 2.69	−19 21.7	1.762	2.699	8.7	19.1
3 22	11 55.84	−18 19.3	1.733	2.699	6.5	18.9
4 1	11 49.13	−16 57.6	1.731	2.699	6.6	18.9
4 11	11 43.49	−15 25.0	1.755	2.700	8.8	19.1
4 21	11 39.60	−13 50.3	1.804	2.702	11.8	19.3

112888 2002 QR_{44} 3 19.7 197°.17 0°.6/19.1 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 20.78	− 0 4.3	2.430	3.220	12.2	20.1
2 21	12 16.63	+ 0 22.9	2.337	3.218	9.4	19.9
3 2	12 10.70	+ 1 0.1	2.269	3.215	6.2	19.7
3 12	12 3.48	+ 1 44.1	2.227	3.213	2.7	19.5
3 22	11 55.63	+ 2 30.2	2.215	3.210	1.2	19.3
4 1	11 47.91	+ 3 13.7	2.233	3.207	4.8	19.6
4 11	11 41.09	+ 3 50.0	2.279	3.204	8.2	19.8
4 21	11 35.73	+ 4 15.8	2.350	3.200	11.2	20.0

70394 1999 RP_{237} 3 19.7 105°.76 3°.8/15.9 18

2 11	12 24.10	+ 6 31.4	1.812	2.628	14.6	19.1
2 21	12 19.55	+ 7 49.4	1.753	2.650	11.1	18.9
3 2	12 12.74	+ 9 15.7	1.718	2.670	7.3	18.7
3 12	12 4.37	+10 42.0	1.710	2.691	4.2	18.6
3 22	11 55.39	+11 59.8	1.730	2.710	4.7	18.7
4 1	11 46.85	+13 1.6	1.778	2.729	8.0	18.9
4 11	11 39.69	+13 43.0	1.853	2.748	11.5	19.1
4 21	11 34.51	+14 2.9	1.949	2.766	14.5	19.4

433034 2012 SZ_{17} 3 19.7 46°.45 2°.8/22.9 17

2 11	12 18.64	−10 49.7	2.212	2.968	14.2	21.7
2 21	12 15.22	−10 41.8	2.119	2.969	11.6	21.5
3 2	12 9.88	−10 16.3	2.048	2.970	8.4	21.3
3 12	12 3.15	− 9 34.4	2.001	2.971	5.1	21.1
3 22	11 55.73	− 8 39.6	1.983	2.972	2.8	20.9
4 1	11 48.45	− 7 37.0	1.993	2.973	4.6	21.1
4 11	11 42.14	− 6 33.2	2.031	2.975	7.9	21.3
4 21	11 37.41	− 5 34.1	2.094	2.976	11.1	21.5

462557 2009 CS_{62} 3 19.7 254°.50 4°.4/15.3 16

2 11	12 20.79	+ 6 33.3	1.667	2.494	15.2	21.5
2 21	12 17.58	+ 7 59.0	1.580	2.483	11.7	21.3
3 2	12 11.83	+ 9 37.5	1.517	2.472	7.8	21.0
3 12	12 4.14	+11 19.9	1.480	2.461	4.7	20.8
3 22	11 55.43	+12 55.9	1.471	2.450	5.6	20.8
4 1	11 46.86	+14 15.4	1.488	2.439	9.3	21.0
4 11	11 39.57	+15 11.2	1.530	2.427	13.3	21.2
4 21	11 34.39	+15 40.7	1.593	2.415	17.0	21.4

24318 Vivianlee 3 19.7 250°.77 0°.3/19.9 18

2 11	12 23.48	− 2 47.8	1.894	2.684	15.1	18.8
2 21	12 19.44	− 2 29.4	1.791	2.669	11.9	18.5
3 2	12 12.98	− 1 55.9	1.709	2.653	8.1	18.3
3 12	12 4.65	− 1 10.3	1.653	2.637	3.7	17.9
3 22	11 55.27	− 0 17.4	1.625	2.621	1.0	17.7
4 1	11 45.91	+ 0 36.0	1.626	2.604	5.7	18.0
4 11	11 37.66	+ 1 23.3	1.653	2.587	10.1	18.2
4 21	11 31.34	+ 1 59.1	1.705	2.569	14.1	18.4

87482 2000 QJ_{146} 3 19.7 96°.67 2°.2/17.3 18

2 11	12 21.64	+ 2 34.7	2.064	2.868	13.5	20.1
2 21	12 17.38	+ 3 42.4	2.001	2.892	10.3	20.0
3 2	12 11.18	+ 5 0.3	1.962	2.914	6.6	19.8
3 12	12 3.66	+ 6 22.1	1.951	2.937	3.1	19.6
3 22	11 55.62	+ 7 40.7	1.970	2.958	2.9	19.6
4 1	11 47.93	+ 8 49.1	2.017	2.980	6.3	19.9
4 11	11 41.40	+ 9 42.4	2.092	3.001	9.7	20.1
4 21	11 36.58	+10 18.1	2.190	3.021	12.6	20.4

434716 2006 DA_{58} 3 19.7 6°.35 0°.9/20.5 17

2 11	12 20.49	− 3 16.9	1.596	2.401	16.8	21.0
2 21	12 17.32	− 3 18.6	1.516	2.401	13.2	20.8
3 2	12 11.61	− 3 4.5	1.456	2.403	9.0	20.5
3 12	12 4.01	− 2 37.5	1.421	2.404	4.3	20.3
3 22	11 55.49	− 2 2.4	1.411	2.407	1.2	20.0
4 1	11 47.20	− 1 25.7	1.428	2.410	5.8	20.3
4 11	11 40.28	− 0 54.0	1.471	2.414	10.3	20.6
4 21	11 35.52	− 0 32.3	1.536	2.418	14.3	20.9

500599 2012 UX_{118} 3 19.7 154°.42 1°.0/18.5 17

2 11	12 19.86	+ 1 20.6	2.630	3.421	11.3	22.3
2 21	12 15.74	+ 1 52.3	2.544	3.426	8.7	22.1
3 2	12 10.01	+ 2 32.5	2.482	3.431	5.7	21.9
3 12	12 3.15	+ 3 17.5	2.449	3.435	2.4	21.7
3 22	11 55.77	+ 4 3.1	2.445	3.439	1.5	21.6
4 1	11 48.56	+ 4 44.7	2.472	3.442	4.7	21.9
4 11	11 42.18	+ 5 18.5	2.527	3.446	7.8	22.1
4 21	11 37.13	+ 5 41.8	2.607	3.449	10.5	22.2

351909 2006 SL_{354} 3 19.7 159°.04 3°.1/15.4 17

2 11	12 21.08	+10 52.0	3.030	3.834	9.6	22.4
2 21	12 16.43	+11 34.7	2.952	3.841	7.4	22.2
3 2	12 10.34	+12 19.6	2.900	3.847	5.0	22.1
3 12	12 3.26	+13 2.2	2.878	3.853	3.3	21.9
3 22	11 55.75	+13 38.6	2.885	3.858	3.7	22.0
4 1	11 48.42	+14 5.1	2.923	3.863	5.8	22.1
4 11	11 41.86	+14 19.4	2.988	3.867	8.1	22.3
4 21	11 36.51	+14 20.9	3.078	3.871	10.3	22.4

483341 2016 QW_{75} 3 19.7 240°.37 6°.1/27.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 21.13	−23 9.2	2.926	3.581	13.1	22.1
2 21	12 16.91	−23 43.4	2.808	3.568	11.5	21.9
3 2	12 10.95	−24 0.3	2.710	3.555	9.6	21.7
3 12	12 3.66	−23 58.3	2.636	3.541	7.7	21.6
3 22	11 55.62	−23 37.2	2.588	3.527	6.4	21.5
4 1	11 47.55	−22 58.6	2.569	3.512	6.3	21.5
4 11	11 40.20	−22 6.8	2.577	3.497	7.6	21.5
4 21	11 34.16	−21 7.0	2.611	3.482	9.6	21.6

184989 2006 KA_{56} 3 19.7 182°.09 0°.3/19.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.76	− 1 20.4	2.574	3.358	11.7	21.3
2 21	12 15.75	− 0 50.2	2.482	3.359	9.1	21.1
3 2	12 10.08	− 0 9.6	2.414	3.359	6.0	20.9
3 12	12 3.22	+ 0 38.4	2.373	3.358	2.6	20.7
3 22	11 55.79	+ 1 29.3	2.363	3.358	1.0	20.5
4 1	11 48.49	+ 2 18.5	2.382	3.357	4.4	20.8
4 11	11 42.03	+ 3 1.3	2.430	3.356	7.7	21.0
4 21	11 36.93	+ 3 34.4	2.503	3.354	10.6	21.2

209487 2004 HP_{60} 3 19.7 333°.07 6°.3/27.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 15.66	−21 5.6	2.050	2.759	16.6	19.7
2 21	12 13.29	−21 11.2	1.947	2.750	14.3	19.5
3 2	12 8.83	−20 51.3	1.862	2.742	11.6	19.3
3 12	12 2.78	−20 4.5	1.800	2.734	8.8	19.1
3 22	11 55.90	−18 52.4	1.763	2.726	6.6	18.9
4 1	11 49.10	−17 19.8	1.752	2.719	6.6	18.9
4 11	11 43.32	−15 35.3	1.769	2.713	8.8	19.0
4 21	11 39.26	−13 48.1	1.810	2.707	11.8	19.2

477580 2010 JO_{17} 3 19.7 263°.08 5°.1/27.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.90	−22 32.7	3.107	3.767	12.3	22.4
2 21	12 15.11	−22 28.2	2.971	3.740	10.7	22.2
3 2	12 9.71	−22 4.9	2.856	3.712	8.8	22.0
3 12	12 3.11	−21 22.0	2.765	3.684	6.8	21.8
3 22	11 55.81	−20 20.0	2.702	3.655	5.3	21.7
4 1	11 48.47	−19 2.0	2.669	3.626	5.3	21.7
4 11	11 41.76	−17 32.9	2.664	3.596	6.8	21.7
4 21	11 36.24	−15 58.7	2.688	3.565	9.1	21.8

160729 2000 QC_{201} 3 19.7 152°.07 1°.4/18.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.18	+ 1 27.1	1.884	2.682	14.8	21.1
2 21	12 21.24	+ 2 1.6	1.805	2.690	11.5	20.9
3 2	12 13.97	+ 2 47.6	1.749	2.698	7.5	20.7
3 12	12 5.01	+ 3 40.3	1.720	2.706	3.3	20.5
3 22	11 55.28	+ 4 33.2	1.719	2.712	2.1	20.4
4 1	11 45.84	+ 5 19.9	1.747	2.718	6.2	20.7
4 11	11 37.71	+ 5 54.9	1.803	2.723	10.2	20.9
4 21	11 31.58	+ 6 15.0	1.882	2.728	13.7	21.1

176301 2001 SR_{137} 3 19.7 132°.02 0°.2/19.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.93	− 2 52.0	2.720	3.495	11.4	21.2
2 21	12 15.72	− 2 25.4	2.637	3.507	8.8	21.0
3 2	12 9.96	− 1 48.3	2.577	3.519	5.9	20.9
3 12	12 3.14	− 1 3.6	2.546	3.530	2.7	20.7
3 22	11 55.83	− 0 15.3	2.545	3.540	0.7	20.5
4 1	11 48.72	+ 0 32.3	2.574	3.551	4.0	20.8
4 11	11 42.42	+ 1 14.9	2.632	3.560	7.0	21.0
4 21	11 37.43	+ 1 49.3	2.716	3.570	9.7	21.2

426974 2013 YH_{133} 3 19.8 221°.38 2°.5/22.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.95	− 8 10.5	2.314	3.070	13.7	20.9
2 21	12 18.50	− 8 26.6	2.215	3.067	11.1	20.7
3 2	12 12.07	− 8 29.2	2.139	3.064	8.0	20.5
3 12	12 4.17	− 8 18.8	2.089	3.061	4.7	20.3
3 22	11 55.52	− 7 57.9	2.068	3.058	2.5	20.2
4 1	11 46.96	− 7 30.1	2.075	3.055	4.5	20.3
4 11	11 39.35	− 7 0.0	2.111	3.051	7.9	20.5
4 21	11 33.33	− 6 32.5	2.173	3.047	11.0	20.7

115283 2003 SV_{190} 3 19.8 29°.83 0°.3/19.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.28	− 2 42.2	1.444	2.258	17.8	19.7
2 21	12 17.40	− 2 4.9	1.368	2.261	13.9	19.4
3 2	12 11.79	− 1 7.7	1.313	2.264	9.3	19.2
3 12	12 4.15	+ 0 3.9	1.282	2.268	4.1	18.9
3 22	11 55.54	+ 1 21.8	1.276	2.272	1.4	18.7
4 1	11 47.22	+ 2 36.3	1.297	2.276	6.7	19.1
4 11	11 40.42	+ 3 38.3	1.343	2.280	11.6	19.3
4 21	11 35.94	+ 4 22.1	1.410	2.285	15.8	19.6

259331 2003 FY_{97} 3 19.8 357°.43 2°.3/21.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.81	− 2 41.0	1.409	2.213	18.6	19.3
2 21	12 22.72	− 3 34.4	1.327	2.210	14.9	19.1
3 2	12 15.51	− 4 15.6	1.264	2.207	10.4	18.8
3 12	12 5.90	− 4 45.1	1.225	2.206	5.5	18.5
3 22	11 55.02	− 5 4.6	1.211	2.205	2.3	18.3
4 1	11 44.35	− 5 17.4	1.224	2.206	6.5	18.5
4 11	11 35.34	− 5 28.5	1.261	2.207	11.4	18.8
4 21	11 28.97	− 5 42.4	1.321	2.209	15.8	19.1

337712 2001 UC_{23} 3 19.8 92°.50 1°.9/21.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 24.40	− 6 46.7	2.497	3.252	12.8	20.8
2 21	12 19.24	− 6 57.9	2.420	3.273	10.2	20.6
3 2	12 12.32	− 6 57.0	2.366	3.294	7.2	20.5
3 12	12 4.20	− 6 45.5	2.340	3.314	4.0	20.3
3 22	11 55.56	− 6 25.9	2.342	3.335	1.9	20.2
4 1	11 47.18	− 6 1.8	2.375	3.355	4.1	20.4
4 11	11 39.80	− 5 37.3	2.438	3.374	7.1	20.6
4 21	11 33.93	− 5 16.1	2.526	3.394	9.9	20.8

436252 2010 BR_{86} 3 19.8 91°.34 4°.1/15.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.60	+10 48.7	2.226	3.043	12.2	21.1
2 21	12 17.32	+11 42.2	2.160	3.056	9.4	20.9
3 2	12 11.15	+12 38.8	2.119	3.068	6.4	20.8
3 12	12 3.70	+13 32.3	2.105	3.081	4.3	20.6
3 22	11 55.71	+14 16.7	2.120	3.093	4.8	20.7
4 1	11 48.02	+14 47.3	2.163	3.105	7.4	20.9
4 11	11 41.41	+15 1.2	2.232	3.117	10.2	21.1
4 21	11 36.43	+14 58.1	2.324	3.129	12.8	21.3

377406 2004 TF_{62} 3 19.8 242°.08 0°.4/20.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.61	− 2 59.0	2.196	2.978	13.5	22.0
2 21	12 18.39	− 2 45.2	2.092	2.966	10.7	21.7
3 2	12 12.10	− 2 18.6	2.011	2.953	7.3	21.5
3 12	12 4.23	− 1 41.7	1.957	2.940	3.4	21.2
3 22	11 55.52	− 0 58.7	1.931	2.927	0.9	21.0
4 1	11 46.86	− 0 14.8	1.935	2.913	4.9	21.3
4 11	11 39.16	+ 0 24.6	1.967	2.899	8.8	21.5
4 21	11 33.10	+ 0 55.1	2.023	2.885	12.3	21.7

373113 2011 GG_{75} 3 19.8 91°.14 3°.4/16.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.12	+ 7 42.7	2.014	2.828	13.4	20.6
2 21	12 18.62	+ 8 34.2	1.950	2.846	10.2	20.4
3 2	12 12.07	+ 9 31.5	1.911	2.863	6.8	20.2
3 12	12 4.12	+10 28.1	1.899	2.881	3.9	20.0
3 22	11 55.60	+11 17.5	1.916	2.898	4.2	20.1
4 1	11 47.45	+11 54.2	1.961	2.915	7.2	20.3
4 11	11 40.53	+12 14.8	2.032	2.931	10.4	20.5
4 21	11 35.40	+12 18.2	2.126	2.947	13.3	20.8

328226 2008 FU_{15} 3 19.8 266°.90 2°.2/17.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.17	+ 2 7.9	1.851	2.663	14.5	21.3
2 21	12 16.88	+ 3 4.4	1.755	2.650	11.2	21.0
3 2	12 11.28	+ 4 14.8	1.683	2.636	7.4	20.8
3 12	12 3.92	+ 5 33.5	1.637	2.623	3.4	20.5
3 22	11 55.62	+ 6 52.7	1.618	2.609	3.0	20.4
4 1	11 47.39	+ 8 4.0	1.628	2.595	7.0	20.6
4 11	11 40.28	+ 9 0.5	1.664	2.581	11.2	20.9
4 21	11 35.06	+ 9 38.0	1.722	2.566	14.9	21.1

33292 1998 KT_{26} 3 19.8 57°.91 7°.9/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.94	+22 7.1	2.171	2.999	12.1	17.9
2 21	12 15.47	+23 54.5	2.123	3.010	9.9	17.8
3 2	12 10.03	+25 36.8	2.100	3.022	8.3	17.7
3 12	12 3.23	+27 5.3	2.104	3.034	8.0	17.7
3 22	11 55.85	+28 12.6	2.135	3.045	9.1	17.8
4 1	11 48.79	+28 54.2	2.191	3.057	11.0	17.9
4 11	11 42.85	+29 8.9	2.269	3.069	13.1	18.1
4 21	11 38.60	+28 58.5	2.366	3.082	15.0	18.2

349378 2007 VG_{326} 3 19.8 139°.09 1°.8/21.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.47	− 8 17.9	2.326	3.090	13.4	21.5
2 21	12 14.99	− 7 59.7	2.233	3.092	10.7	21.3
3 2	12 9.71	− 7 25.7	2.162	3.093	7.6	21.1
3 12	12 3.12	− 6 38.1	2.118	3.094	4.2	20.9
3 22	11 55.89	− 5 40.5	2.102	3.095	1.8	20.7
4 1	11 48.80	− 4 38.4	2.115	3.096	4.3	20.9
4 11	11 42.62	− 3 37.7	2.156	3.097	7.7	21.1
4 21	11 37.93	− 2 43.6	2.223	3.098	10.8	21.3

172559 2003 UZ_{133} 3 19.8 82°.22 5°.2/24.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.30	−15 6.1	1.658	2.402	18.7	19.9
2 21	12 20.87	−15 23.9	1.590	2.425	15.5	19.7
3 2	12 13.86	−15 17.0	1.541	2.448	11.8	19.5
3 12	12 5.00	−14 45.4	1.514	2.471	8.0	19.3
3 22	11 55.36	−13 52.4	1.513	2.493	5.4	19.2
4 1	11 46.14	−12 44.6	1.540	2.515	6.3	19.3
4 11	11 38.46	−11 31.1	1.593	2.537	9.6	19.6
4 21	11 33.04	−10 20.6	1.670	2.559	13.0	19.8

5874 1989 XB 3 19.8 77°.74 3°.3/16.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.21	+ 3 44.9	1.491	2.313	16.9	17.2
2 21	12 20.04	+ 5 0.4	1.438	2.338	12.8	17.0
3 2	12 13.25	+ 6 28.1	1.408	2.363	8.3	16.8
3 12	12 4.69	+ 7 58.8	1.404	2.388	4.1	16.6
3 22	11 55.47	+ 9 22.4	1.426	2.413	4.2	16.7
4 1	11 46.83	+10 29.9	1.476	2.438	8.2	17.0
4 11	11 39.84	+11 15.7	1.551	2.462	12.3	17.2
4 21	11 35.14	+11 38.3	1.647	2.486	15.7	17.5

396684 2002 TM_{14} 3 19.8 145°.92 1°.8/18.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 27.16	+ 1 45.7	1.677	2.481	16.1	22.2
2 21	12 22.28	+ 2 29.1	1.602	2.491	12.4	21.9
3 2	12 14.80	+ 3 25.7	1.550	2.501	8.1	21.7
3 12	12 5.44	+ 4 29.2	1.524	2.510	3.6	21.5
3 22	11 55.24	+ 5 32.1	1.526	2.518	2.6	21.4
4 1	11 45.39	+ 6 26.5	1.556	2.526	7.0	21.7
4 11	11 37.02	+ 7 6.3	1.613	2.533	11.3	22.0
4 21	11 30.90	+ 7 28.4	1.692	2.538	15.0	22.2

459982 2014 OM_{34} 3 19.8 146°.52 0°.3/19.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.23	− 1 24.8	1.896	2.685	15.1	22.7
2 21	12 21.29	− 1 1.2	1.816	2.694	11.8	22.5
3 2	12 14.02	− 0 24.1	1.758	2.704	7.8	22.2
3 12	12 5.07	+ 0 22.4	1.727	2.712	3.4	22.0
3 22	11 55.35	+ 1 12.6	1.725	2.720	1.2	21.8
4 1	11 45.92	+ 2 0.3	1.752	2.728	5.6	22.1
4 11	11 37.78	+ 2 39.7	1.806	2.734	9.7	22.4
4 21	11 31.63	+ 3 6.6	1.884	2.740	13.3	22.6

239476 2007 UF_{21} 3 19.8 141°.47 0°.3/19.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.19	− 1 14.5	2.307	3.096	12.7	21.1
2 21	12 16.28	− 0 49.3	2.220	3.099	9.9	20.9
3 2	12 10.54	− 0 12.9	2.156	3.102	6.6	20.7
3 12	12 3.48	+ 0 31.4	2.120	3.105	2.9	20.5
3 22	11 55.81	+ 1 18.8	2.112	3.108	1.0	20.3
4 1	11 48.31	+ 2 4.3	2.134	3.110	4.8	20.6
4 11	11 41.75	+ 2 43.1	2.184	3.112	8.3	20.8
4 21	11 36.72	+ 3 11.5	2.258	3.115	11.4	21.0

232581 2003 SF_{363} 3 19.8 14°.60 0°.4/20.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.55	− 3 9.8	2.022	2.812	14.2	21.0
2 21	12 16.86	− 2 52.0	1.934	2.812	11.2	20.8
3 2	12 11.08	− 2 20.3	1.869	2.813	7.6	20.5
3 12	12 3.77	− 1 37.8	1.829	2.813	3.5	20.3
3 22	11 55.72	− 0 49.4	1.817	2.813	0.9	20.1
4 1	11 47.84	− 0 0.8	1.834	2.814	5.0	20.4
4 11	11 41.04	+ 0 42.1	1.879	2.814	9.0	20.6
4 21	11 35.97	+ 1 14.9	1.947	2.814	12.4	20.8

212121 2005 EP_{195} 3 19.8 250°.10 0°.4/20.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.76	− 3 30.9	1.860	2.650	15.3	21.8
2 21	12 18.94	− 3 7.8	1.758	2.636	12.1	21.6
3 2	12 12.71	− 2 28.2	1.677	2.621	8.3	21.3
3 12	12 4.60	− 1 35.3	1.623	2.607	3.8	21.0
3 22	11 55.46	− 0 34.3	1.596	2.592	1.0	20.7
4 1	11 46.35	+ 0 27.7	1.597	2.576	5.7	21.0
4 11	11 38.36	+ 1 23.4	1.625	2.560	10.2	21.3
4 21	11 32.31	+ 2 7.0	1.677	2.544	14.2	21.5

463189 2012 BX_{120} 3 19.8 35°.73 8°.4/26.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.19	−19 21.3	1.507	2.240	20.7	21.0
2 21	12 19.85	−20 25.2	1.428	2.247	17.8	20.8
3 2	12 13.58	−21 2.3	1.367	2.254	14.5	20.6
3 12	12 5.05	−21 8.9	1.326	2.261	11.1	20.4
3 22	11 55.34	−20 44.5	1.308	2.269	8.8	20.3
4 1	11 45.85	−19 53.3	1.314	2.277	8.9	20.3
4 11	11 37.93	−18 44.4	1.345	2.285	11.3	20.4
4 21	11 32.52	−17 28.7	1.398	2.294	14.6	20.6

243293 2008 DH_{73} 3 19.8 30°.12 5°.8/13.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.17	+15 18.3	2.119	2.945	12.4	20.3
2 21	12 16.44	+16 28.2	2.051	2.948	9.7	20.1
3 2	12 10.71	+17 38.7	2.007	2.950	7.2	20.0
3 12	12 3.57	+18 42.3	1.990	2.953	5.8	19.9
3 22	11 55.80	+19 32.1	2.001	2.956	6.7	20.0
4 1	11 48.29	+20 2.9	2.039	2.959	9.1	20.1
4 11	11 41.88	+20 12.4	2.101	2.962	11.8	20.3
4 21	11 37.18	+20 0.7	2.184	2.965	14.3	20.5

324545 2006 WK_{44} 3 19.8 38°.94 3°.7/16.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.36	+ 4 50.5	1.345	2.183	17.5	20.3
2 21	12 17.43	+ 5 53.8	1.291	2.199	13.3	20.0
3 2	12 11.73	+ 7 9.2	1.257	2.216	8.7	19.8
3 12	12 4.10	+ 8 27.3	1.248	2.233	4.5	19.6
3 22	11 55.69	+ 9 38.0	1.264	2.251	4.6	19.7
4 1	11 47.81	+10 32.2	1.306	2.270	8.8	20.0
4 11	11 41.60	+11 4.2	1.371	2.289	13.0	20.2
4 21	11 37.77	+11 12.7	1.456	2.308	16.7	20.5

153721 2001 UO_{109} 3 19.8 132°.47 2°.6/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.40	+ 5 19.3	2.060	2.867	13.4	20.1
2 21	12 18.90	+ 6 6.4	1.985	2.877	10.3	19.9
3 2	12 12.33	+ 7 1.5	1.935	2.887	6.7	19.7
3 12	12 4.30	+ 7 58.7	1.912	2.896	3.4	19.5
3 22	11 55.63	+ 8 51.8	1.918	2.905	3.3	19.6
4 1	11 47.24	+ 9 34.9	1.953	2.913	6.6	19.8
4 11	11 40.02	+10 3.6	2.014	2.921	10.1	20.0
4 21	11 34.56	+10 16.1	2.099	2.929	13.1	20.2

347003 2010 CH_{229} 3 19.8 179°.62 6°.3/12.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 26.94	+22 8.9	2.639	3.442	10.9	21.0
2 21	12 21.23	+22 53.4	2.568	3.443	8.9	20.8
3 2	12 13.67	+23 32.8	2.522	3.443	7.1	20.7
3 12	12 4.84	+24 1.2	2.504	3.444	6.3	20.7
3 22	11 55.48	+24 13.9	2.515	3.444	7.0	20.7
4 1	11 46.41	+24 7.8	2.553	3.443	8.8	20.8
4 11	11 38.41	+23 42.5	2.617	3.443	10.9	21.0
4 21	11 32.01	+22 59.5	2.703	3.442	12.8	21.1

105174 2000 OK_{22} 3 19.8 290°.43 15°.3/23.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 41.31	−17 56.5	1.124	1.864	26.1	18.5
2 21	12 36.25	−21 17.6	1.035	1.853	23.2	18.2
3 2	12 26.24	−24 27.9	0.963	1.842	19.8	17.9
3 12	12 11.51	−27 13.1	0.912	1.831	16.8	17.7
3 22	11 53.32	−29 17.1	0.882	1.820	15.3	17.6
4 1	11 34.17	−30 29.3	0.875	1.809	16.3	17.6
4 11	11 17.05	−30 52.1	0.890	1.798	19.2	17.7
4 21	11 4.26	−30 38.9	0.922	1.788	22.9	17.9

325136 2008 ED_{149} 3 19.8 142°.40 3°.6/15.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.99	+ 6 42.6	2.128	2.939	12.9	20.2
2 21	12 17.77	+ 8 5.2	2.056	2.951	9.8	20.1
3 2	12 11.56	+ 9 36.0	2.010	2.961	6.5	19.9
3 12	12 3.96	+11 7.5	1.991	2.971	3.9	19.7
3 22	11 55.73	+12 32.1	2.002	2.980	4.4	19.8
4 1	11 47.77	+13 42.7	2.042	2.989	7.4	20.0
4 11	11 40.91	+14 34.7	2.109	2.997	10.6	20.2
4 21	11 35.74	+15 6.2	2.199	3.005	13.4	20.4

342978 2009 BQ_{40} 3 19.8 54°.92 5°.0/24.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.14	−13 48.5	2.003	2.738	16.2	20.6
2 21	12 20.40	−14 34.8	1.928	2.757	13.4	20.4
3 2	12 13.41	−15 2.8	1.873	2.775	10.3	20.2
3 12	12 4.82	−15 11.7	1.842	2.794	7.2	20.1
3 22	11 55.49	−15 2.6	1.838	2.814	5.1	20.0
4 1	11 46.43	−14 39.1	1.862	2.833	5.9	20.1
4 11	11 38.62	−14 7.0	1.913	2.852	8.6	20.3
4 21	11 32.73	−13 32.3	1.989	2.872	11.5	20.5

143551 2003 EH_{37} 3 19.8 273°.63 7°.1/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.57	+22 32.9	2.462	3.275	11.3	19.9
2 21	12 18.97	+23 35.2	2.379	3.258	9.3	19.8
3 2	12 12.39	+24 33.5	2.320	3.241	7.7	19.6
3 12	12 4.36	+25 20.7	2.289	3.224	7.1	19.6
3 22	11 55.61	+25 50.8	2.284	3.206	8.0	19.6
4 1	11 47.02	+25 59.6	2.306	3.189	9.9	19.7
4 11	11 39.43	+25 45.6	2.353	3.171	12.1	19.8
4 21	11 33.47	+25 10.2	2.420	3.154	14.3	19.9

386259 2008 EJ_{1} 3 19.8 84°.27 13°.9/ 1.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 58.18	−34 15.1	1.799	2.348	23.0	19.9
2 21	12 47.07	−36 45.9	1.746	2.402	20.8	19.8
3 2	12 31.73	−38 44.0	1.710	2.453	18.4	19.8
3 12	12 13.15	−39 58.7	1.695	2.503	16.2	19.7
3 22	11 53.10	−40 23.6	1.704	2.550	14.5	19.7
4 1	11 33.82	−39 59.9	1.740	2.596	13.9	19.8
4 11	11 17.31	−38 58.2	1.800	2.640	14.4	19.9
4 21	11 4.69	−37 33.1	1.885	2.682	15.6	20.1

454163 2013 FF_{4} 3 19.8 91°.88 1°.8/18.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.00	+ 3 0.5	1.528	2.340	17.1	21.3
2 21	12 23.10	+ 3 19.3	1.461	2.353	13.2	21.0
3 2	12 15.42	+ 3 49.0	1.415	2.367	8.6	20.8
3 12	12 5.75	+ 4 24.1	1.394	2.380	3.8	20.6
3 22	11 55.23	+ 4 57.9	1.400	2.393	2.6	20.5
4 1	11 45.19	+ 5 23.8	1.434	2.406	7.1	20.8
4 11	11 36.81	+ 5 36.8	1.493	2.419	11.6	21.1
4 21	11 30.86	+ 5 34.6	1.574	2.431	15.4	21.4

250983 2006 KE_{1} 3 19.8 274°.10 2°.8/22.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.13	−10 6.0	1.714	2.486	17.1	21.3
2 21	12 18.07	− 9 53.1	1.602	2.463	14.0	21.0
3 2	12 12.39	− 9 16.8	1.510	2.440	10.2	20.7
3 12	12 4.58	− 8 17.6	1.442	2.416	6.0	20.4
3 22	11 55.50	− 6 59.5	1.400	2.392	2.9	20.1
4 1	11 46.30	− 5 29.9	1.386	2.368	5.8	20.2
4 11	11 38.23	− 3 58.9	1.398	2.343	10.5	20.4
4 21	11 32.26	− 2 35.9	1.433	2.318	15.0	20.6

114295 2002 XP_{30} 3 19.8 115°.83 2°.7/23.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.85	−12 4.6	2.486	3.227	13.2	20.2
2 21	12 15.13	−11 45.2	2.398	3.238	10.7	20.0
3 2	12 9.72	−11 8.7	2.332	3.249	7.9	19.9
3 12	12 3.12	−10 16.8	2.293	3.259	4.8	19.7
3 22	11 55.98	− 9 13.0	2.282	3.270	2.7	19.6
4 1	11 49.02	− 8 2.4	2.300	3.280	4.1	19.7
4 11	11 42.95	− 6 51.1	2.348	3.290	7.1	19.9
4 21	11 38.30	− 5 44.5	2.422	3.300	9.9	20.1

124199 2001 OV_{78} 3 19.8 197°.37 3°.9/15.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 25.68	+ 7 11.3	1.872	2.685	14.4	20.8
2 21	12 21.06	+ 8 17.8	1.788	2.682	11.1	20.6
3 2	12 14.00	+ 9 33.4	1.727	2.678	7.4	20.4
3 12	12 5.15	+10 50.7	1.693	2.674	4.3	20.2
3 22	11 55.39	+12 1.4	1.688	2.668	4.8	20.2
4 1	11 45.82	+12 57.7	1.711	2.662	8.2	20.4
4 11	11 37.52	+13 34.5	1.760	2.655	12.0	20.6
4 21	11 31.23	+13 49.8	1.831	2.647	15.3	20.8

519538 2012 LV_4 3 19.8 310°.73 8°.9/10.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.24	+19 30.7	1.647	2.486	14.8	20.9
2 21	12 18.07	+21 8.8	1.576	2.474	12.0	20.7
3 2	12 12.25	+22 46.2	1.527	2.462	9.7	20.5
3 12	12 4.42	+24 11.2	1.503	2.450	8.9	20.4
3 22	11 55.59	+25 13.6	1.504	2.439	10.3	20.5
4 1	11 47.00	+25 45.9	1.529	2.428	13.0	20.6
4 11	11 39.83	+25 45.5	1.575	2.417	16.0	20.8
4 21	11 34.90	+25 14.6	1.640	2.407	18.8	20.9

439552 2014 DA_{32} 3 19.8 260°.30 1°.4/21.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.83	− 4 18.6	2.546	3.311	12.3	20.6
2 21	12 19.05	− 4 33.7	2.439	3.300	9.8	20.4
3 2	12 12.41	− 4 38.9	2.355	3.289	6.8	20.2
3 12	12 4.38	− 4 35.3	2.299	3.278	3.6	19.9
3 22	11 55.61	− 4 25.2	2.272	3.267	1.4	19.7
4 1	11 46.87	− 4 11.7	2.276	3.255	4.2	19.9
4 11	11 38.97	− 3 58.5	2.309	3.244	7.5	20.1
4 21	11 32.52	− 3 48.9	2.367	3.232	10.6	20.3

401201 2011 YR_1 3 19.8 236°.29 12°.4/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.60	−35 36.2	2.039	2.626	19.7	20.9
2 21	12 20.89	−36 38.1	1.929	2.613	18.3	20.8
3 2	12 14.35	−37 11.2	1.833	2.599	16.6	20.6
3 12	12 5.49	−37 8.8	1.754	2.584	14.7	20.4
3 22	11 55.25	−36 26.7	1.695	2.569	13.1	20.3
4 1	11 44.91	−35 4.5	1.658	2.553	12.4	20.2
4 11	11 35.84	−33 8.6	1.646	2.537	12.9	20.2
4 21	11 29.07	−30 49.7	1.656	2.519	14.5	20.2

195205 2002 DH 3 19.8 156°.38 12°.6/25.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 40.64	−18 56.1	1.239	1.964	24.8	20.6
2 21	12 34.75	−21 29.6	1.159	1.968	21.7	20.3
3 2	12 24.45	−23 42.6	1.095	1.972	18.1	20.1
3 12	12 10.32	−25 23.8	1.052	1.975	14.8	19.9
3 22	11 53.83	−26 24.1	1.032	1.977	12.7	19.8
4 1	11 37.22	−26 40.5	1.036	1.979	13.3	19.8
4 11	11 22.84	−26 20.5	1.063	1.981	15.9	20.0
4 21	11 12.33	−25 37.6	1.110	1.982	19.4	20.2

66024 1998 QZ_{45} 3 19.8 265°.54 2°.2/21.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.50	− 7 6.9	2.123	2.891	14.4	18.8
2 21	12 18.44	− 7 15.7	2.019	2.880	11.6	18.5
3 2	12 12.23	− 7 9.8	1.937	2.868	8.3	18.3
3 12	12 4.37	− 6 50.4	1.881	2.857	4.6	18.1
3 22	11 55.62	− 6 20.3	1.853	2.845	2.2	17.9
4 1	11 46.90	− 5 43.9	1.853	2.834	4.8	18.0
4 11	11 39.17	− 5 6.7	1.881	2.822	8.6	18.2
4 21	11 33.15	− 4 34.0	1.934	2.810	12.1	18.4

337943 2001 YE_{97} 3 19.8 139°.18 3°.9/14.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.49	+12 49.9	2.913	3.722	9.8	21.6
2 21	12 16.07	+13 48.1	2.844	3.734	7.6	21.5
3 2	12 10.18	+14 47.5	2.801	3.745	5.3	21.3
3 12	12 3.28	+15 43.2	2.787	3.756	3.9	21.3
3 22	11 55.97	+16 30.3	2.803	3.766	4.5	21.3
4 1	11 48.85	+17 5.2	2.849	3.776	6.5	21.5
4 11	11 42.55	+17 25.5	2.921	3.786	8.7	21.6
4 21	11 37.51	+17 30.8	3.018	3.795	10.8	21.8

464678 2001 TQ_{206} 3 19.8 181°.34 1°.9/17.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.04	+ 1 50.1	2.534	3.326	11.6	21.9
2 21	12 16.81	+ 3 8.1	2.444	3.328	8.9	21.8
3 2	12 10.85	+ 4 37.1	2.379	3.329	5.8	21.6
3 12	12 3.66	+ 6 11.8	2.344	3.329	2.7	21.3
3 22	11 55.86	+ 7 45.7	2.339	3.328	2.6	21.3
4 1	11 48.21	+ 9 12.0	2.366	3.326	5.7	21.5
4 11	11 41.41	+10 25.3	2.422	3.324	8.8	21.7
4 21	11 36.01	+11 22.3	2.503	3.320	11.6	21.9

458857 2011 UT_{87} 3 19.8 78°.70 4°.0/16.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.29	+ 7 22.7	1.495	2.320	16.7	21.1
2 21	12 21.78	+ 8 11.8	1.436	2.336	12.8	20.9
3 2	12 14.52	+ 9 8.6	1.399	2.353	8.5	20.7
3 12	12 5.35	+10 5.1	1.387	2.369	4.7	20.5
3 22	11 55.42	+10 52.6	1.401	2.386	4.9	20.5
4 1	11 46.02	+11 24.2	1.443	2.402	8.6	20.8
4 11	11 38.32	+11 35.7	1.509	2.418	12.7	21.1
4 21	11 33.01	+11 26.8	1.596	2.434	16.2	21.3

192716 1999 TL_{130} 3 19.8 173°.33 0°.2/19.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 25.02	− 0 57.5	2.074	2.861	14.0	20.4
2 21	12 20.27	− 0 58.0	1.985	2.862	11.0	20.2
3 2	12 13.35	− 0 47.9	1.918	2.862	7.4	19.9
3 12	12 4.84	− 0 30.0	1.878	2.863	3.4	19.7
3 22	11 55.54	− 0 7.9	1.867	2.863	0.9	19.5
4 1	11 46.43	+ 0 13.6	1.886	2.863	5.1	19.8
4 11	11 38.44	+ 0 30.2	1.931	2.863	9.0	20.0
4 21	11 32.25	+ 0 38.5	2.002	2.863	12.4	20.2

433190 2012 UZ_{17} 3 19.8 145°.35 1°.4/21.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.52	− 8 19.0	2.332	3.098	13.3	21.2
2 21	12 14.28	− 7 39.1	2.239	3.100	10.6	21.0
3 2	12 9.26	− 6 41.9	2.169	3.102	7.4	20.8
3 12	12 2.98	− 5 30.5	2.126	3.104	3.9	20.6
3 22	11 56.09	− 4 9.7	2.111	3.106	1.4	20.4
4 1	11 49.34	− 2 45.7	2.126	3.107	4.2	20.6
4 11	11 43.49	− 1 25.4	2.170	3.109	7.7	20.8
4 21	11 39.10	− 0 14.5	2.240	3.111	10.9	21.0

242198 2003 QJ_{12} 3 19.8 267°.42 2°.0/18.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.62	+ 2 26.7	1.742	2.551	15.4	20.9
2 21	12 20.70	+ 3 4.5	1.636	2.527	12.1	20.6
3 2	12 14.11	+ 3 56.1	1.551	2.503	8.0	20.3
3 12	12 5.37	+ 4 56.2	1.492	2.478	3.7	20.0
3 22	11 55.36	+ 5 57.8	1.461	2.453	2.9	19.9
4 1	11 45.27	+ 6 52.7	1.457	2.427	7.4	20.1
4 11	11 36.34	+ 7 33.8	1.480	2.400	12.1	20.3
4 21	11 29.54	+ 7 56.6	1.525	2.374	16.3	20.5

493485 2015 AV_{143} 3 19.8 230°.50 1°.2/18.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.12	+ 1 6.4	2.005	2.806	14.0	21.3
2 21	12 18.15	+ 1 36.4	1.915	2.802	10.8	21.1
3 2	12 12.01	+ 2 17.8	1.847	2.797	7.1	20.9
3 12	12 4.27	+ 3 6.4	1.806	2.792	3.1	20.6
3 22	11 55.71	+ 3 56.4	1.793	2.787	1.9	20.5
4 1	11 47.31	+ 4 41.8	1.809	2.782	5.9	20.8
4 11	11 40.00	+ 5 17.2	1.852	2.776	9.8	21.0
4 21	11 34.47	+ 5 38.9	1.918	2.771	13.3	21.2

117072 2004 KU_{13} 3 19.8 145°.52 5°.9/13.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.72	+11 33.4	1.741	2.573	14.4	19.9
2 21	12 17.35	+13 5.6	1.670	2.574	11.1	19.7
3 2	12 11.59	+14 43.7	1.624	2.574	7.9	19.5
3 12	12 4.09	+16 18.1	1.603	2.574	5.9	19.3
3 22	11 55.77	+17 38.9	1.610	2.575	7.0	19.4
4 1	11 47.72	+18 38.2	1.643	2.575	10.1	19.6
4 11	11 40.97	+19 11.6	1.700	2.575	13.4	19.8
4 21	11 36.24	+19 18.7	1.777	2.576	16.4	20.0

167003 2003 PD_8 3 19.8 162°.85 0°.9/18.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.70	− 1 23.7	1.877	2.674	14.9	20.7
2 21	12 18.67	− 0 30.5	1.794	2.679	11.6	20.5
3 2	12 12.37	+ 0 38.4	1.734	2.683	7.6	20.3
3 12	12 4.42	+ 1 57.6	1.701	2.687	3.3	20.0
3 22	11 55.68	+ 3 19.9	1.696	2.690	1.7	19.9
4 1	11 47.18	+ 4 37.1	1.720	2.693	6.0	20.2
4 11	11 39.88	+ 5 42.2	1.771	2.695	10.2	20.4
4 21	11 34.48	+ 6 30.6	1.845	2.696	13.8	20.7

378840 2008 SS_{307} 3 19.8 220°.13 2°.8/22.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.97	−10 1.3	2.159	2.916	14.5	20.9
2 21	12 17.17	−10 1.8	2.062	2.913	11.8	20.7
3 2	12 11.32	− 9 45.2	1.987	2.910	8.6	20.5
3 12	12 3.96	− 9 12.7	1.936	2.907	5.2	20.3
3 22	11 55.81	− 8 27.2	1.914	2.904	2.8	20.1
4 1	11 47.78	− 7 33.7	1.920	2.900	4.7	20.2
4 11	11 40.73	− 6 38.4	1.954	2.897	8.2	20.4
4 21	11 35.35	− 5 47.2	2.013	2.893	11.5	20.6

8005 Albinadubois 3 19.8 242°.76 2°.3/17.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.12	+ 2 52.6	1.993	2.802	13.8	17.7
2 21	12 17.47	+ 3 50.2	1.898	2.790	10.6	17.5
3 2	12 11.62	+ 5 0.2	1.826	2.779	7.0	17.2
3 12	12 4.13	+ 6 17.0	1.781	2.766	3.3	17.0
3 22	11 55.76	+ 7 33.2	1.765	2.754	3.1	16.9
4 1	11 47.48	+ 8 41.2	1.777	2.741	6.8	17.1
4 11	11 40.25	+ 9 34.8	1.816	2.728	10.7	17.3
4 21	11 34.80	+10 10.2	1.878	2.714	14.2	17.5

156054 2001 SO_{51} 3 19.8 113°.73 1°.3/18.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.94	+ 0 4.3	2.006	2.804	14.0	20.7
2 21	12 17.82	+ 0 59.5	1.934	2.820	10.8	20.5
3 2	12 11.64	+ 2 7.4	1.885	2.835	7.0	20.3
3 12	12 4.04	+ 3 22.6	1.863	2.849	3.0	20.0
3 22	11 55.82	+ 4 38.2	1.871	2.864	2.0	20.0
4 1	11 47.91	+ 5 47.0	1.907	2.878	5.8	20.3
4 11	11 41.15	+ 6 43.2	1.971	2.891	9.5	20.5
4 21	11 36.16	+ 7 23.3	2.059	2.904	12.8	20.7

433226 2012 UY_{150} 3 19.8 122°.22 4°.8/14.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 21.92	+14 9.4	2.385	3.202	11.5	20.8
2 21	12 17.56	+14 59.5	2.312	3.205	9.0	20.7
3 2	12 11.36	+15 50.2	2.265	3.208	6.4	20.5
3 12	12 3.89	+16 35.7	2.244	3.212	4.8	20.4
3 22	11 55.86	+17 10.3	2.252	3.215	5.5	20.4
4 1	11 48.07	+17 29.9	2.288	3.218	7.8	20.6
4 11	11 41.28	+17 32.3	2.351	3.221	10.4	20.8
4 21	11 36.05	+17 17.4	2.435	3.224	12.8	20.9

185882 2000 QC_{15} 3 19.8 274°.15 4°.4/14.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.92	+ 6 54.9	1.858	2.683	13.9	19.9
2 21	12 15.97	+ 8 28.2	1.765	2.667	10.7	19.6
3 2	12 10.75	+10 13.9	1.697	2.651	7.2	19.4
3 12	12 3.78	+12 3.7	1.655	2.635	4.6	19.2
3 22	11 55.86	+13 47.5	1.642	2.618	5.5	19.2
4 1	11 48.01	+15 15.9	1.656	2.601	9.0	19.4
4 11	11 41.24	+16 21.7	1.696	2.585	12.7	19.6
4 21	11 36.33	+17 2.1	1.757	2.568	16.1	19.7

61138 2000 NX_4 3 19.8 288°.62 1°.8/21.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.58	− 5 12.3	1.462	2.261	18.3	19.3
2 21	12 20.29	− 5 18.9	1.368	2.248	14.7	19.1
3 2	12 14.03	− 5 6.6	1.293	2.236	10.3	18.8
3 12	12 5.39	− 4 37.0	1.242	2.223	5.4	18.4
3 22	11 55.40	− 3 54.5	1.216	2.211	1.9	18.2
4 1	11 45.43	− 3 6.2	1.216	2.199	6.4	18.4
4 11	11 36.91	− 2 20.6	1.241	2.187	11.6	18.7
4 21	11 30.87	− 1 45.0	1.288	2.175	16.3	18.9

165305 2000 UO_{22} 3 19.8 175°.69 1°.7/18.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.14	+ 2 2.7	2.087	2.882	13.7	21.4
2 21	12 20.33	+ 2 49.3	2.001	2.885	10.6	21.2
3 2	12 13.38	+ 3 47.1	1.939	2.888	6.9	21.0
3 12	12 4.86	+ 4 50.7	1.904	2.890	3.1	20.7
3 22	11 55.59	+ 5 54.0	1.899	2.890	2.4	20.7
4 1	11 46.53	+ 6 50.4	1.923	2.891	6.1	20.9
4 11	11 38.59	+ 7 34.4	1.976	2.890	9.9	21.1
4 21	11 32.45	+ 8 2.9	2.052	2.888	13.1	21.3

338976 2004 FC_{89} 3 19.8 61°.33 2°.3/17.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.86	+ 5 49.8	2.034	2.842	13.5	20.7
2 21	12 19.23	+ 6 11.4	1.966	2.857	10.3	20.5
3 2	12 12.53	+ 6 39.2	1.921	2.873	6.8	20.3
3 12	12 4.42	+ 7 8.2	1.904	2.889	3.3	20.1
3 22	11 55.74	+ 7 33.5	1.915	2.904	2.9	20.1
4 1	11 47.40	+ 7 50.4	1.955	2.920	6.2	20.4
4 11	11 40.28	+ 7 55.7	2.022	2.936	9.6	20.6
4 21	11 34.95	+ 7 48.1	2.112	2.952	12.7	20.8

340635 2006 QU_{139} 3 19.8 81°.60 1°.1/18.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.87	+ 4 14.0	2.363	3.146	12.6	20.1
2 21	12 23.47	+ 4 5.3	2.291	3.168	9.7	19.9
3 2	12 15.15	+ 4 1.9	2.244	3.189	6.4	19.8
3 12	12 5.54	+ 4 0.5	2.225	3.210	2.8	19.6
3 22	11 55.43	+ 3 58.3	2.238	3.231	1.6	19.5
4 1	11 45.70	+ 3 52.3	2.281	3.252	5.0	19.8
4 11	11 37.13	+ 3 40.1	2.354	3.272	8.3	20.0
4 21	11 30.30	+ 3 20.5	2.452	3.293	11.1	20.2

519903 2013 PR_{80} 3 19.8 216°.45 0°.9/18.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.49	− 0 34.5	2.183	2.975	13.3	22.3
2 21	12 17.53	+ 0 9.4	2.086	2.968	10.3	22.1
3 2	12 11.54	+ 1 6.4	2.013	2.961	6.8	21.9
3 12	12 4.07	+ 2 12.2	1.967	2.953	2.9	21.6
3 22	11 55.82	+ 3 20.9	1.950	2.944	1.6	21.5
4 1	11 47.67	+ 4 26.2	1.963	2.935	5.5	21.7
4 11	11 40.50	+ 5 21.9	2.003	2.926	9.3	22.0
4 21	11 34.95	+ 6 3.8	2.068	2.916	12.6	22.1

248296 2005 LK_9 3 19.8 349°.04 8°.8/ 9.8 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.56	+24 10.8	2.016	2.840	13.0	20.5
2 21	12 18.54	+25 32.9	1.956	2.838	10.9	20.3
3 2	12 12.25	+26 48.6	1.919	2.836	9.2	20.2
3 12	12 4.36	+27 48.8	1.907	2.835	8.8	20.2
3 22	11 55.75	+28 26.3	1.921	2.833	9.9	20.2
4 1	11 47.48	+28 36.5	1.960	2.832	11.9	20.3
4 11	11 40.48	+28 19.1	2.021	2.832	14.1	20.5
4 21	11 35.43	+27 36.4	2.100	2.831	16.3	20.6

280868 2005 UA_{494} 3 19.8 115°.93 1°.3/18.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.54	+ 3 2.7	2.034	2.828	14.0	20.9
2 21	12 22.11	+ 3 12.6	1.958	2.841	10.8	20.7
3 2	12 14.48	+ 3 30.5	1.905	2.854	7.1	20.5
3 12	12 5.32	+ 3 52.5	1.880	2.866	3.1	20.3
3 22	11 55.49	+ 4 13.8	1.884	2.878	1.9	20.2
4 1	11 45.99	+ 4 30.0	1.917	2.889	5.7	20.5
4 11	11 37.75	+ 4 37.4	1.979	2.900	9.4	20.7
4 21	11 31.40	+ 4 33.9	2.064	2.911	12.7	20.9

337842 2001 VH_{80} 3 19.8 85°.94 8°.5/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 32.21	+28 52.5	2.377	3.168	12.3	20.4
2 21	12 25.33	+29 39.4	2.331	3.186	10.5	20.3
3 2	12 16.36	+30 15.3	2.309	3.204	9.0	20.3
3 12	12 6.04	+30 33.2	2.313	3.221	8.5	20.2
3 22	11 55.33	+30 28.6	2.345	3.239	9.2	20.3
4 1	11 45.21	+29 59.7	2.403	3.256	10.7	20.4
4 11	11 36.54	+29 8.1	2.485	3.273	12.5	20.6
4 21	11 29.86	+27 57.4	2.588	3.290	14.2	20.8

467384 2004 TO_{184} 3 19.8 239°.88 0°.5/20.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.80	− 2 49.8	2.094	2.878	14.0	21.9
2 21	12 18.66	− 2 38.7	1.995	2.870	11.0	21.7
3 2	12 12.37	− 2 14.6	1.920	2.862	7.5	21.4
3 12	12 4.47	− 1 40.2	1.870	2.853	3.5	21.2
3 22	11 55.72	− 0 59.7	1.849	2.844	0.9	20.9
4 1	11 47.05	− 0 18.4	1.856	2.835	5.0	21.2
4 11	11 39.42	+ 0 18.1	1.892	2.826	9.0	21.4
4 21	11 33.51	+ 0 45.5	1.952	2.816	12.5	21.6

105547 2000 RX_{44} 3 19.8 243°.64 1°.3/21.3 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.62	− 5 33.8	2.805	3.564	11.5	20.3
2 21	12 17.22	− 5 32.4	2.692	3.549	9.1	20.1
3 2	12 11.16	− 5 20.2	2.602	3.534	6.4	19.9
3 12	12 3.86	− 4 58.6	2.540	3.518	3.4	19.7
3 22	11 55.89	− 4 30.0	2.508	3.502	1.3	19.5
4 1	11 47.93	− 3 58.0	2.506	3.486	3.8	19.7
4 11	11 40.68	− 3 26.6	2.534	3.469	7.0	19.8
4 21	11 34.71	− 2 59.4	2.588	3.452	9.9	20.0

189848 Eivissa 3 19.8 309°.51 3°.6/16.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.83	+ 4 22.3	1.588	2.419	15.6	20.0
2 21	12 15.59	+ 5 29.5	1.490	2.395	12.1	19.7
3 2	12 10.77	+ 6 52.3	1.414	2.371	8.0	19.4
3 12	12 3.91	+ 8 23.5	1.362	2.347	4.2	19.1
3 22	11 55.86	+ 9 53.3	1.337	2.324	4.6	19.1
4 1	11 47.79	+11 11.1	1.338	2.300	8.8	19.2
4 11	11 40.93	+12 8.5	1.364	2.278	13.4	19.4
4 21	11 36.20	+12 41.0	1.409	2.256	17.5	19.6

95888 2003 HV_8 3 19.8 283°.58 1°.1/20.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.67	− 5 52.0	1.873	2.659	15.3	20.1
2 21	12 16.56	− 5 29.5	1.770	2.644	12.3	19.9
3 2	12 11.17	− 4 48.8	1.689	2.629	8.5	19.6
3 12	12 4.00	− 3 52.2	1.633	2.614	4.3	19.3
3 22	11 55.85	− 2 44.8	1.604	2.599	1.2	19.1
4 1	11 47.73	− 1 33.6	1.603	2.584	5.3	19.3
4 11	11 40.67	− 0 26.6	1.628	2.569	9.7	19.5
4 21	11 35.47	+ 0 29.7	1.678	2.554	13.7	19.7

379071 2008 WK_{107} 3 19.8 122°.57 0°.3/20.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.56	− 3 20.0	2.172	2.956	13.6	21.7
2 21	12 16.71	− 2 54.4	2.086	2.962	10.6	21.5
3 2	12 10.93	− 2 15.3	2.024	2.967	7.1	21.3
3 12	12 3.77	− 1 26.2	1.989	2.973	3.3	21.1
3 22	11 55.95	− 0 31.7	1.982	2.978	0.8	20.9
4 1	11 48.32	+ 0 22.3	2.004	2.983	4.7	21.2
4 11	11 41.71	+ 1 10.3	2.054	2.988	8.4	21.4
4 21	11 36.72	+ 1 48.0	2.129	2.993	11.7	21.6

464135 2014 WK_{504} 3 19.8 127°.74 7°.4/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.05	+19 32.6	2.024	2.843	13.2	21.6
2 21	12 21.03	+20 57.6	1.969	2.856	10.6	21.4
3 2	12 13.79	+22 19.1	1.940	2.870	8.3	21.3
3 12	12 5.01	+23 28.4	1.936	2.882	7.4	21.3
3 22	11 55.61	+24 17.9	1.961	2.894	8.4	21.3
4 1	11 46.63	+24 43.1	2.011	2.906	10.6	21.5
4 11	11 38.99	+24 42.8	2.086	2.917	13.0	21.7
4 21	11 33.31	+24 18.9	2.180	2.927	15.3	21.9

88385 2001 PV_{62} 3 19.8 118°.28 0°.4/20.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.00	− 7 44.3	1.911	2.690	15.4	19.4
2 21	12 15.77	− 6 23.5	1.827	2.698	12.1	19.2
3 2	12 10.42	− 4 40.0	1.766	2.707	8.2	19.0
3 12	12 3.57	− 2 39.2	1.732	2.715	3.8	18.7
3 22	11 56.01	− 0 29.7	1.727	2.723	0.9	18.5
4 1	11 48.70	+ 1 38.2	1.752	2.731	5.3	18.8
4 11	11 42.52	+ 3 34.7	1.806	2.738	9.5	19.1
4 21	11 38.13	+ 5 12.7	1.885	2.746	13.1	19.3

454255 2013 QQ_{44} 3 19.8 246°.31 0°.6/20.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 12.90	− 4 34.5	4.540	5.300	7.4	21.6
2 21	12 9.86	− 4 19.2	4.437	5.297	5.8	21.5
3 2	12 5.95	− 3 57.1	4.359	5.294	3.9	21.4
3 12	12 1.43	− 3 29.8	4.310	5.290	2.0	21.2
3 22	11 56.62	− 2 59.2	4.292	5.287	0.6	21.1
4 1	11 51.87	− 2 27.4	4.304	5.284	2.4	21.2
4 11	11 47.52	− 1 56.9	4.347	5.281	4.4	21.4
4 21	11 43.86	− 1 29.7	4.417	5.277	6.2	21.5

83841 2001 UE_{35} 3 19.8 216°.76 0°.6/19.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 17.91	− 1 38.0	2.577	3.364	11.6	19.6
2 21	12 14.43	− 0 48.8	2.480	3.359	9.0	19.4
3 2	12 9.33	+ 0 12.5	2.407	3.354	5.9	19.2
3 12	12 3.04	+ 1 22.0	2.363	3.348	2.6	19.0
3 22	11 56.16	+ 2 34.6	2.348	3.342	1.2	18.8
4 1	11 49.38	+ 3 44.8	2.363	3.336	4.6	19.1
4 11	11 43.39	+ 4 47.2	2.407	3.330	7.9	19.3
4 21	11 38.71	+ 5 37.9	2.476	3.324	10.8	19.5

317070 2001 SM_{206} 3 19.8 139°.76 0°.2/19.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.19	− 2 57.8	2.459	3.243	12.2	21.0
2 21	12 14.66	− 2 11.1	2.372	3.248	9.5	20.9
3 2	12 9.46	− 1 11.5	2.309	3.253	6.3	20.7
3 12	12 3.09	− 0 2.9	2.273	3.258	2.8	20.4
3 22	11 56.15	+ 1 9.6	2.267	3.263	0.9	20.3
4 1	11 49.39	+ 2 20.1	2.291	3.267	4.5	20.6
4 11	11 43.48	+ 3 23.2	2.344	3.271	7.8	20.8
4 21	11 38.95	+ 4 14.8	2.422	3.276	10.8	21.0

361557 2007 RS_{2} 3 19.8 190°.05 3°.5/22.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.30	−10 30.3	1.910	2.662	16.3	21.1
2 21	12 21.62	−10 44.9	1.814	2.661	13.3	20.9
3 2	12 14.48	−10 40.9	1.740	2.660	9.8	20.7
3 12	12 5.47	−10 18.8	1.690	2.658	6.0	20.4
3 22	11 55.46	− 9 41.0	1.668	2.656	3.5	20.3
4 1	11 45.57	− 8 52.6	1.674	2.652	5.5	20.4
4 11	11 36.88	− 8 0.5	1.707	2.649	9.3	20.6
4 21	11 30.22	− 7 11.6	1.766	2.644	13.0	20.8

271776 2004 TC_{13} 3 19.8 154°.10 6°.3/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.13	+21 9.0	2.619	3.424	10.9	21.3
2 21	12 20.63	+22 14.5	2.557	3.434	8.8	21.2
3 2	12 13.31	+23 16.0	2.520	3.443	7.1	21.1
3 12	12 4.76	+24 6.9	2.512	3.451	6.3	21.1
3 22	11 55.70	+24 41.9	2.532	3.459	7.1	21.1
4 1	11 46.94	+24 57.4	2.580	3.466	8.9	21.3
4 11	11 39.22	+24 52.6	2.654	3.472	10.9	21.4
4 21	11 33.10	+24 28.8	2.749	3.478	12.8	21.6

86761 2000 GR_{75} 3 19.8 62°.16 0°.4/20.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.19	− 4 9.8	1.588	2.389	17.0	19.8
2 21	12 17.81	− 3 37.1	1.519	2.403	13.3	19.6
3 2	12 11.93	− 2 45.6	1.470	2.416	8.9	19.4
3 12	12 4.28	− 1 40.1	1.445	2.430	4.1	19.1
3 22	11 55.84	− 0 27.7	1.448	2.444	1.0	18.9
4 1	11 47.76	+ 0 43.0	1.477	2.457	5.9	19.3
4 11	11 41.11	+ 1 44.0	1.533	2.471	10.4	19.6
4 21	11 36.59	+ 2 30.0	1.611	2.486	14.2	19.8

151737 2003 CV_{6} 3 19.8 346°.25 6°.5/13.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.76	+10 24.7	1.442	2.291	15.9	19.6
2 21	12 14.81	+12 9.9	1.372	2.285	12.3	19.3
3 2	12 10.21	+14 4.8	1.324	2.279	8.7	19.1
3 12	12 3.61	+15 57.7	1.301	2.275	6.6	19.0
3 22	11 56.02	+17 36.1	1.303	2.271	8.0	19.0
4 1	11 48.69	+18 49.2	1.330	2.267	11.5	19.2
4 11	11 42.79	+19 31.3	1.379	2.265	15.3	19.4
4 21	11 39.14	+19 41.7	1.447	2.263	18.7	19.6

266248 2006 XN_{73} 3 19.8 219°.45 1°.3/18.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.20	+ 0 42.0	2.144	2.942	13.3	20.9
2 21	12 17.34	+ 1 28.8	2.049	2.935	10.3	20.7
3 2	12 11.45	+ 2 28.1	1.978	2.928	6.8	20.4
3 12	12 4.06	+ 3 35.0	1.935	2.921	3.0	20.2
3 22	11 55.90	+ 4 43.6	1.920	2.913	2.0	20.1
4 1	11 47.86	+ 5 47.2	1.935	2.905	5.8	20.3
4 11	11 40.80	+ 6 39.8	1.977	2.896	9.5	20.5
4 21	11 35.39	+ 7 17.6	2.043	2.887	12.9	20.7

350143 2011 SW_{63} 3 19.8 301°.93 6°.1/12.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.75	+15 26.3	2.152	2.981	12.1	20.3
2 21	12 15.56	+16 46.5	2.065	2.963	9.6	20.1
3 2	12 10.33	+18 9.1	2.003	2.946	7.2	19.9
3 12	12 3.58	+19 26.3	1.968	2.929	6.1	19.8
3 22	11 56.05	+20 30.5	1.961	2.912	7.1	19.8
4 1	11 48.61	+21 15.2	1.980	2.895	9.6	19.9
4 11	11 42.15	+21 37.0	2.023	2.878	12.4	20.1
4 21	11 37.35	+21 35.3	2.087	2.862	15.0	20.2

43013 1999 UX_{50} 3 19.8 255°.68 0°.8/19.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.01	− 1 5.5	1.884	2.681	14.9	20.3
2 21	12 19.20	− 0 28.1	1.778	2.662	11.7	20.1
3 2	12 12.98	+ 0 25.0	1.694	2.642	7.8	19.8
3 12	12 4.87	+ 1 29.8	1.636	2.622	3.4	19.5
3 22	11 55.67	+ 2 40.0	1.607	2.602	1.6	19.3
4 1	11 46.44	+ 3 47.8	1.606	2.580	6.2	19.6
4 11	11 38.29	+ 4 45.8	1.631	2.559	10.7	19.8
4 21	11 32.06	+ 5 28.7	1.681	2.536	14.7	20.0

212665 2006 UR_{237} 3 19.8 17°.99 0°.2/19.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 17.96	− 1 57.1	2.045	2.844	13.8	20.1
2 21	12 14.85	− 1 26.9	1.963	2.847	10.7	19.9
3 2	12 9.77	− 0 43.4	1.903	2.850	7.1	19.7
3 12	12 3.29	+ 0 9.6	1.869	2.854	3.2	19.5
3 22	11 56.14	+ 1 6.7	1.863	2.858	1.0	19.3
4 1	11 49.19	+ 2 1.7	1.885	2.863	5.1	19.6
4 11	11 43.27	+ 2 48.8	1.935	2.868	8.9	19.8
4 21	11 38.98	+ 3 23.8	2.008	2.873	12.2	20.0

88940 2001 TA_{34} 3 19.8 141°.87 3°.5/15.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.64	+11 2.1	2.544	3.350	11.2	20.0
2 21	12 18.75	+11 34.2	2.466	3.356	8.6	19.9
3 2	12 12.11	+12 8.5	2.414	3.361	5.9	19.7
3 12	12 4.26	+12 39.9	2.390	3.366	3.7	19.6
3 22	11 55.89	+13 4.0	2.395	3.371	4.1	19.6
4 1	11 47.74	+13 17.1	2.430	3.375	6.5	19.8
4 11	11 40.55	+13 16.9	2.492	3.380	9.2	19.9
4 21	11 34.85	+13 2.9	2.578	3.384	11.7	20.1

38727 2000 QR_{131} 3 19.8 207°.90 2°.0/17.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.36	+ 2 25.0	2.085	2.883	13.6	21.0
2 21	12 19.87	+ 3 20.5	1.990	2.876	10.5	20.8
3 2	12 13.19	+ 4 28.0	1.919	2.869	6.9	20.5
3 12	12 4.87	+ 5 42.2	1.875	2.860	3.2	20.3
3 22	11 55.70	+ 6 56.0	1.861	2.851	2.8	20.2
4 1	11 46.63	+ 8 2.3	1.876	2.841	6.5	20.4
4 11	11 38.63	+ 8 55.1	1.919	2.830	10.3	20.6
4 21	11 32.40	+ 9 30.8	1.986	2.818	13.7	20.8

83620 2001 SA_{293} 3 19.8 12°.15 2°.1/22.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.20	− 9 6.9	2.192	2.957	14.1	19.7
2 21	12 14.97	− 8 48.9	2.099	2.958	11.3	19.5
3 2	12 9.84	− 8 13.5	2.029	2.958	8.1	19.3
3 12	12 3.33	− 7 22.8	1.984	2.959	4.6	19.0
3 22	11 56.14	− 6 20.8	1.967	2.959	2.1	18.9
4 1	11 49.08	− 5 13.3	1.978	2.960	4.4	19.0
4 11	11 42.98	− 4 6.9	2.018	2.961	8.0	19.2
4 21	11 38.44	− 3 7.2	2.082	2.962	11.3	19.4

200796 2001 XG_{104} 3 19.8 340°.44 18°.4/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 32.12	+39 59.0	1.272	2.081	20.0	19.5
2 21	12 27.89	+42 2.0	1.235	2.074	18.8	19.4
3 2	12 19.38	+43 38.2	1.215	2.067	18.4	19.3
3 12	12 7.76	+44 31.3	1.214	2.062	18.8	19.4
3 22	11 54.93	+44 31.0	1.229	2.057	20.1	19.4
4 1	11 43.09	+43 34.8	1.262	2.053	21.9	19.5
4 11	11 34.02	+41 49.0	1.309	2.049	23.8	19.7
4 21	11 28.62	+39 24.1	1.368	2.047	25.6	19.8

502832 2015 DD_{150} 3 19.8 288°.45 17°.4/30.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 34.62	−42 41.9	2.152	2.652	20.5	20.7
2 21	12 29.93	−45 24.4	2.037	2.624	19.8	20.5
3 2	12 21.46	−47 47.1	1.936	2.596	19.0	20.4
3 12	12 9.31	−49 40.2	1.852	2.568	18.2	20.2
3 22	11 54.26	−50 54.1	1.784	2.539	17.6	20.1
4 1	11 37.90	−51 22.0	1.736	2.510	17.4	20.0
4 11	11 22.38	−51 3.9	1.706	2.481	17.8	20.0
4 21	11 9.66	−50 6.3	1.693	2.452	18.6	19.9

460064 2014 OZ_{226} 3 19.8 224°.66 1°.4/18.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.11	+ 1 54.1	1.909	2.705	14.7	22.2
2 21	12 22.27	+ 2 21.5	1.810	2.694	11.5	21.9
3 2	12 14.95	+ 3 0.4	1.734	2.683	7.6	21.7
3 12	12 5.72	+ 3 46.4	1.685	2.670	3.4	21.4
3 22	11 55.46	+ 4 33.6	1.664	2.657	2.2	21.3
4 1	11 45.26	+ 5 15.3	1.672	2.643	6.4	21.5
4 11	11 36.25	+ 5 46.0	1.708	2.629	10.7	21.7
4 21	11 29.24	+ 6 2.1	1.767	2.613	14.5	21.9

411237 2010 PE_{80} 3 19.8 162°.66 0°.4/19.4 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.61	− 1 59.8	2.082	2.868	14.0	22.7
2 21	12 19.17	− 1 21.0	1.997	2.874	10.9	22.5
3 2	12 12.63	− 0 28.4	1.935	2.880	7.2	22.3
3 12	12 4.58	+ 0 33.8	1.899	2.885	3.2	22.0
3 22	11 55.82	+ 1 39.9	1.893	2.889	1.2	21.9
4 1	11 47.26	+ 2 43.3	1.917	2.892	5.3	22.2
4 11	11 39.81	+ 3 37.8	1.968	2.895	9.2	22.4
4 21	11 34.11	+ 4 19.2	2.044	2.897	12.5	22.6

58183 1991 PH_{9} 3 19.8 175°.08 3°.3/23.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.97	−12 20.7	2.668	3.389	12.8	20.2
2 21	12 19.85	−12 33.8	2.567	3.393	10.6	20.1
3 2	12 12.93	−12 32.4	2.489	3.395	7.9	19.9
3 12	12 4.69	−12 16.6	2.438	3.397	5.2	19.7
3 22	11 55.79	−11 48.4	2.416	3.398	3.3	19.6
4 1	11 46.99	−11 10.9	2.424	3.399	4.4	19.7
4 11	11 39.04	−10 28.9	2.462	3.399	7.1	19.8
4 21	11 32.55	− 9 47.1	2.527	3.398	9.8	20.0

185377 2006 VH_{137} 3 19.8 96°.58 1°.3/21.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 18.91	− 6 27.8	2.473	3.241	12.6	21.4
2 21	12 15.24	− 6 12.6	2.384	3.246	10.0	21.2
3 2	12 9.88	− 5 44.0	2.318	3.251	6.9	21.0
3 12	12 3.32	− 5 4.3	2.278	3.256	3.6	20.8
3 22	11 56.18	− 4 17.0	2.267	3.261	1.3	20.6
4 1	11 49.20	− 3 26.7	2.285	3.266	4.0	20.8
4 11	11 43.07	− 2 38.7	2.332	3.271	7.3	21.0
4 21	11 38.34	− 1 57.1	2.405	3.276	10.3	21.2

294711 2008 BG_{21} 3 19.8 77°.10 1°.2/20.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.36	− 4 37.7	1.670	2.462	16.7	21.3
2 21	12 19.53	− 4 31.4	1.589	2.466	13.2	21.0
3 2	12 13.15	− 4 8.1	1.528	2.470	9.1	20.8
3 12	12 4.90	− 3 30.6	1.492	2.474	4.5	20.5
3 22	11 55.73	− 2 44.0	1.483	2.478	1.3	20.3
4 1	11 46.81	− 1 55.1	1.501	2.482	5.6	20.6
4 11	11 39.24	− 1 10.8	1.545	2.486	10.1	20.9
4 21	11 33.81	− 0 37.0	1.613	2.490	14.0	21.1

205396 2001 DP_{92} 3 19.8 43°.04 9°.3/22.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 41.38	− 9 32.1	1.031	1.814	25.4	19.5
2 21	12 35.59	−12 5.4	0.960	1.820	21.3	19.3
3 2	12 25.11	−14 24.6	0.907	1.826	16.5	19.0
3 12	12 10.69	−16 20.4	0.874	1.833	11.8	18.7
3 22	11 54.06	−17 44.3	0.866	1.841	9.3	18.6
4 1	11 37.68	−18 33.6	0.881	1.849	11.2	18.8
4 11	11 23.99	−18 54.3	0.919	1.857	15.5	19.0
4 21	11 14.51	−18 57.8	0.976	1.865	20.0	19.3

224933 2007 DF_{60} 3 19.8 45°.95 0°.3/20.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.21	− 0 44.6	1.707	2.505	16.1	19.6
2 21	12 21.63	− 0 54.8	1.628	2.511	12.7	19.4
3 2	12 14.50	− 0 53.2	1.570	2.517	8.5	19.2
3 12	12 5.49	− 0 42.6	1.538	2.523	3.9	18.9
3 22	11 55.59	− 0 27.3	1.533	2.529	1.0	18.7
4 1	11 45.98	− 0 12.3	1.556	2.535	5.7	19.0
4 11	11 37.78	− 0 2.4	1.605	2.542	10.1	19.3
4 21	11 31.75	− 0 1.3	1.678	2.549	13.9	19.6

462200 2007 VZ_{48} 3 19.8 102°.51 2°.3/21.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.70	− 8 10.7	1.761	2.531	16.8	22.8
2 21	12 21.07	− 8 4.1	1.689	2.550	13.4	22.6
3 2	12 14.01	− 7 38.4	1.637	2.569	9.5	22.4
3 12	12 5.22	− 6 56.0	1.611	2.587	5.2	22.2
3 22	11 55.69	− 6 1.6	1.612	2.605	2.3	22.1
4 1	11 46.54	− 5 2.1	1.641	2.622	5.2	22.3
4 11	11 38.79	− 4 4.8	1.698	2.639	9.3	22.6
4 21	11 33.14	− 3 16.1	1.779	2.656	13.0	22.8

268486 2005 XX_{82} 3 19.8 99°.44 1°.2/20.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.21	− 4 46.2	1.984	2.760	15.0	21.1
2 21	12 20.42	− 4 43.8	1.908	2.776	11.8	20.9
3 2	12 13.45	− 4 27.1	1.855	2.793	8.1	20.7
3 12	12 4.95	− 3 58.8	1.828	2.809	4.1	20.5
3 22	11 55.77	− 3 22.9	1.830	2.825	1.3	20.3
4 1	11 46.91	− 2 44.7	1.860	2.840	4.8	20.6
4 11	11 39.28	− 2 9.8	1.918	2.855	8.7	20.9
4 21	11 33.53	− 1 42.6	2.001	2.870	12.1	21.1

170329 2003 SY_{89} 3 19.8 69°.37 4°.5/23.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.95	−12 26.8	1.555	2.321	18.8	19.9
2 21	12 19.45	−12 41.8	1.476	2.329	15.5	19.7
3 2	12 13.23	−12 32.9	1.416	2.337	11.6	19.5
3 12	12 4.98	−12 0.1	1.379	2.345	7.4	19.3
3 22	11 55.74	−11 7.0	1.367	2.354	4.5	19.1
4 1	11 46.78	−10 0.4	1.382	2.362	6.2	19.2
4 11	11 39.29	− 8 49.8	1.422	2.370	10.1	19.5
4 21	11 34.12	− 7 43.9	1.485	2.379	14.1	19.7

37647 1994 ES_{3} 3 19.8 320°.32 2°.6/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.48	+ 1 4.0	1.657	2.480	15.4	18.1
2 21	12 14.30	+ 2 27.0	1.569	2.470	11.9	17.9
3 2	12 9.76	+ 4 8.4	1.504	2.460	7.8	17.6
3 12	12 3.43	+ 6 0.5	1.465	2.451	3.6	17.3
3 22	11 56.17	+ 7 53.3	1.453	2.443	3.6	17.3
4 1	11 49.03	+ 9 35.8	1.469	2.434	7.8	17.5
4 11	11 43.09	+10 58.9	1.510	2.426	12.1	17.7
4 21	11 39.12	+11 57.6	1.572	2.419	16.0	18.0

60873 2000 HL_{86} 3 19.8 204°.54 4°.1/16.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.25	+ 7 59.0	1.811	2.626	14.7	19.5
2 21	12 21.64	+ 8 58.2	1.727	2.621	11.3	19.3
3 2	12 14.53	+10 5.6	1.665	2.617	7.6	19.0
3 12	12 5.53	+11 13.8	1.631	2.611	4.5	18.8
3 22	11 55.59	+12 14.5	1.625	2.605	5.0	18.9
4 1	11 45.85	+13 0.4	1.646	2.598	8.4	19.0
4 11	11 37.40	+13 26.5	1.693	2.590	12.2	19.2
4 21	11 31.06	+13 31.4	1.763	2.582	15.7	19.4

435902 2009 BZ_{1} 3 19.8 47°.85 4°.7/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 17.25	+ 7 3.3	1.808	2.638	14.0	19.9
2 21	12 14.43	+ 9 3.7	1.755	2.659	10.6	19.7
3 2	12 9.52	+11 12.8	1.726	2.681	7.1	19.5
3 12	12 3.19	+13 20.2	1.725	2.702	4.8	19.5
3 22	11 56.28	+15 15.6	1.753	2.724	5.8	19.6
4 1	11 49.72	+16 50.3	1.808	2.747	8.8	19.8
4 11	11 44.36	+17 59.2	1.889	2.769	12.0	20.0
4 21	11 40.79	+18 41.3	1.991	2.792	14.8	20.3

364231 2006 SX_{74} 3 19.8 207°.88 1°.1/18.7 14 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.03	+ 0 36.7	2.124	2.917	13.6	22.9
2 21	12 19.57	+ 1 12.8	2.029	2.911	10.5	22.7
3 2	12 12.98	+ 2 0.7	1.957	2.905	7.0	22.5
3 12	12 4.80	+ 2 56.1	1.912	2.898	3.0	22.2
3 22	11 55.81	+ 3 53.5	1.896	2.890	1.8	22.1
4 1	11 46.92	+ 4 46.6	1.910	2.882	5.7	22.4
4 11	11 39.08	+ 5 29.9	1.952	2.873	9.6	22.6
4 21	11 32.96	+ 5 59.5	2.017	2.863	13.0	22.8

505171 2012 TE_{31} 3 19.8 247°.63 0°.3/19.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.49	+ 0 2.2	2.243	3.032	13.1	21.9
2 21	12 19.07	+ 0 11.9	2.143	3.022	10.2	21.7
3 2	12 12.61	+ 0 31.7	2.066	3.012	6.8	21.5
3 12	12 4.63	+ 0 58.4	2.016	3.001	3.0	21.2
3 22	11 55.85	+ 1 28.0	1.995	2.991	1.1	21.0
4 1	11 47.15	+ 1 55.9	2.004	2.980	5.0	21.3
4 11	11 39.41	+ 2 17.6	2.041	2.969	8.8	21.5
4 21	11 33.29	+ 2 30.0	2.102	2.958	12.1	21.7

522834 2016 NQ_{83} 3 19.8 254°.47 3°.9/24.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.90	−13 47.2	2.569	3.294	13.2	21.9
2 21	12 16.92	−14 5.1	2.459	3.284	11.0	21.7
3 2	12 11.12	−14 7.6	2.370	3.273	8.4	21.5
3 12	12 3.96	−13 54.3	2.307	3.262	5.8	21.3
3 22	11 56.04	−13 26.6	2.272	3.250	4.0	21.2
4 1	11 48.14	−12 47.8	2.265	3.239	4.8	21.2
4 11	11 41.03	−12 2.5	2.287	3.227	7.3	21.4
4 21	11 35.33	−11 16.0	2.336	3.215	10.2	21.5

317385 2002 OA_{36} 3 19.8 170°.71 0°.3/20.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.80	− 3 15.7	2.446	3.224	12.4	21.5
2 21	12 16.73	− 2 51.3	2.355	3.226	9.7	21.3
3 2	12 10.90	− 2 14.8	2.287	3.228	6.6	21.1
3 12	12 3.81	− 1 29.3	2.247	3.230	3.0	20.9
3 22	11 56.10	− 0 38.9	2.235	3.231	0.7	20.7
4 1	11 48.54	+ 0 11.4	2.254	3.232	4.3	21.0
4 11	11 41.87	+ 0 56.7	2.301	3.233	7.8	21.2
4 21	11 36.64	+ 1 33.1	2.374	3.233	10.8	21.4

91299 1999 FL_{32} 3 19.8 39°.97 3°.5/17.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.83	+ 4 31.8	1.255	2.092	18.5	19.0
2 21	12 19.72	+ 5 20.9	1.194	2.101	14.2	18.8
3 2	12 13.54	+ 6 23.3	1.153	2.111	9.3	18.6
3 12	12 5.13	+ 7 30.1	1.135	2.121	4.6	18.3
3 22	11 55.74	+ 8 31.1	1.142	2.131	4.4	18.3
4 1	11 46.85	+ 9 17.0	1.174	2.142	9.0	18.6
4 11	11 39.77	+ 9 41.5	1.229	2.154	13.7	18.9
4 21	11 35.33	+ 9 42.9	1.304	2.166	17.7	19.2

432934 2011 UT_{228} 3 19.8 242°.19 4°.6/14.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.89	+15 14.2	2.609	3.418	10.9	21.3
2 21	12 19.03	+15 52.2	2.522	3.410	8.5	21.2
3 2	12 12.39	+16 30.0	2.461	3.401	6.2	21.0
3 12	12 4.46	+17 2.3	2.427	3.393	4.7	20.9
3 22	11 55.93	+17 24.2	2.423	3.384	5.3	20.9
4 1	11 47.55	+17 32.0	2.447	3.375	7.4	21.0
4 11	11 40.09	+17 23.9	2.498	3.366	9.9	21.2
4 21	11 34.11	+16 59.8	2.573	3.356	12.3	21.3

39100 2000 WD_{14} 3 19.8 137°.30 0°.4/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.29	− 3 12.5	2.087	2.871	14.1	20.4
2 21	12 18.16	− 2 51.9	2.002	2.877	11.0	20.2
3 2	12 11.98	− 2 17.7	1.940	2.882	7.4	20.0
3 12	12 4.32	− 1 33.2	1.904	2.888	3.4	19.7
3 22	11 55.96	− 0 43.1	1.897	2.893	0.8	19.5
4 1	11 47.81	+ 0 6.8	1.919	2.898	4.9	19.8
4 11	11 40.74	+ 0 50.8	1.969	2.903	8.7	20.1
4 21	11 35.38	+ 1 24.6	2.043	2.907	12.1	20.3

151772 2003 EW_{25} 3 19.8 53°.88 3°.2/16.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.43	+ 3 1.4	1.733	2.555	14.9	19.9
2 21	12 15.59	+ 4 31.5	1.658	2.558	11.4	19.6
3 2	12 10.47	+ 6 16.2	1.606	2.561	7.4	19.4
3 12	12 3.70	+ 8 7.1	1.580	2.565	3.8	19.2
3 22	11 56.13	+ 9 54.2	1.582	2.568	4.2	19.2
4 1	11 48.81	+11 27.7	1.613	2.572	7.9	19.4
4 11	11 42.71	+12 40.2	1.668	2.575	11.8	19.7
4 21	11 38.52	+13 28.5	1.746	2.579	15.2	19.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
362039 2009 AB_{22}			3 19.8	98°.32	4°.9/15.5	18
	h m	° ′			°	m
2 11	12 23.16	+ 7 44.3	1.494	2.326	16.4	20.9
2 21	12 19.57	+ 9 4.1	1.429	2.333	12.6	20.7
3 2	12 13.26	+10 33.7	1.385	2.340	8.5	20.4
3 12	12 4.97	+12 3.3	1.367	2.347	5.2	20.3
3 22	11 55.79	+13 22.4	1.376	2.354	6.0	20.3
4 1	11 47.00	+14 21.6	1.410	2.361	9.6	20.5
4 11	11 39.77	+14 55.9	1.469	2.368	13.6	20.8
4 21	11 34.87	+15 4.2	1.547	2.375	17.1	21.0
147813 2005 SW_{106}			3 19.8	72°.23	6°.8/26.8	18
2 11	12 21.60	−20 14.7	1.782	2.497	18.5	19.9
2 21	12 18.12	−20 36.3	1.703	2.512	15.8	19.7
3 2	12 12.19	−20 31.1	1.643	2.526	12.7	19.5
3 12	12 4.48	−19 57.5	1.604	2.540	9.5	19.4
3 22	11 55.93	−18 57.8	1.590	2.555	7.1	19.3
4 1	11 47.66	−17 37.6	1.603	2.569	7.2	19.3
4 11	11 40.73	−16 6.1	1.641	2.584	9.5	19.5
4 21	11 35.88	−14 33.3	1.704	2.598	12.5	19.7
345612 2006 SS_{205}			3 19.8	265°.17	0°.2/20.0	17
2 11	12 19.62	− 2 34.0	2.316	3.102	12.8	21.7
2 21	12 15.96	− 2 12.9	2.223	3.100	10.0	21.5
3 2	12 10.46	− 1 39.7	2.154	3.098	6.7	21.3
3 12	12 3.64	− 0 57.5	2.111	3.096	3.1	21.1
3 22	11 56.16	− 0 10.6	2.098	3.094	0.8	20.9
4 1	11 48.81	+ 0 35.9	2.113	3.091	4.6	21.2
4 11	11 42.37	+ 1 17.1	2.157	3.089	8.1	21.4
4 21	11 37.42	+ 1 48.9	2.225	3.087	11.3	21.6
5544 Kazakov			3 19.8	36°.67	1°.8/18.6	18
2 11	12 27.88	+ 4 41.8	1.642	2.453	16.1	17.1
2 21	12 22.97	+ 4 38.1	1.568	2.460	12.5	16.9
3 2	12 15.40	+ 4 41.7	1.515	2.467	8.2	16.6
3 12	12 5.91	+ 4 48.2	1.489	2.474	3.7	16.4
3 22	11 55.54	+ 4 52.8	1.489	2.482	2.4	16.3
4 1	11 45.56	+ 4 50.7	1.518	2.491	6.7	16.6
4 11	11 37.11	+ 4 38.5	1.572	2.499	11.0	16.9
4 21	11 30.95	+ 4 14.7	1.649	2.508	14.7	17.1
62053 2000 RB_{69}			3 19.8	112°.38	0°.5/20.5	18
2 11	12 18.98	− 4 20.6	2.649	3.421	11.7	19.4
2 21	12 15.13	− 3 50.4	2.566	3.434	9.1	19.2
3 2	12 9.72	− 3 8.4	2.508	3.447	6.2	19.1
3 12	12 3.24	− 2 17.7	2.477	3.459	2.9	18.9
3 22	11 56.29	− 1 22.2	2.475	3.471	0.7	18.7
4 1	11 49.51	− 0 26.7	2.504	3.483	3.9	19.0
4 11	11 43.57	+ 0 24.2	2.562	3.494	7.0	19.2
4 21	11 38.92	+ 1 6.7	2.646	3.506	9.8	19.4
308306 Dainere			3 19.8	218°.80	5°.8/ 7.8	17
2 11	12 22.02	+28 3.6	3.972	4.761	7.8	23.1
2 21	12 17.12	+29 13.1	3.895	4.747	6.7	23.0
3 2	12 10.90	+30 17.4	3.846	4.733	5.9	23.0
3 12	12 3.76	+31 11.9	3.825	4.718	5.9	22.9
3 22	11 56.14	+31 52.7	3.832	4.702	6.6	23.0
4 1	11 48.61	+32 17.4	3.867	4.686	7.7	23.0
4 11	11 41.68	+32 24.9	3.926	4.669	9.0	23.1
4 21	11 35.79	+32 15.9	4.006	4.651	10.2	23.2
246923 1998 XW_{11}			3 19.8	111°.75	4°.9/14.5	18
2 11	12 26.10	+12 8.7	2.149	2.960	12.8	21.0
2 21	12 20.83	+13 24.2	2.095	2.986	9.8	20.8
3 2	12 13.55	+14 41.7	2.066	3.011	6.9	20.7
3 12	12 4.94	+15 53.8	2.065	3.035	5.0	20.6
3 22	11 55.84	+16 53.4	2.093	3.058	5.7	20.7
4 1	11 47.15	+17 35.5	2.150	3.080	8.2	20.9
4 11	11 39.70	+17 57.6	2.233	3.101	10.9	21.1
4 21	11 34.03	+17 59.8	2.339	3.122	13.4	21.3
75628 2000 AU_{48}			3 19.8	119°.49	6°.3/13.8	18
2 11	12 26.78	+14 44.1	1.827	2.648	14.3	19.6
2 21	12 21.81	+15 59.6	1.769	2.663	11.2	19.5
3 2	12 14.43	+17 15.7	1.735	2.678	8.1	19.3
3 12	12 5.40	+18 23.5	1.727	2.692	6.4	19.2
3 22	11 55.71	+19 15.0	1.747	2.705	7.2	19.3
4 1	11 46.46	+19 44.3	1.794	2.718	9.9	19.5
4 11	11 38.65	+19 49.4	1.865	2.730	12.9	19.7
4 21	11 32.95	+19 31.8	1.958	2.742	15.6	19.9
12115 Robertgrimm			3 19.8	15°.01	1°.1/21.3	18
2 11	12 15.56	− 8 24.2	2.181	2.955	13.9	16.8
2 21	12 12.94	− 7 29.3	2.091	2.957	11.0	16.6
3 2	12 8.51	− 6 15.1	2.023	2.959	7.6	16.4
3 12	12 2.78	− 4 45.3	1.982	2.962	3.9	16.2
3 22	11 56.42	− 3 5.9	1.969	2.964	1.1	16.0
4 1	11 50.23	− 1 24.3	1.986	2.967	4.5	16.2
4 11	11 44.96	+ 0 11.5	2.031	2.970	8.2	16.5
4 21	11 41.19	+ 1 35.3	2.102	2.974	11.5	16.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
307429 2002 TV_{293}			3 19.8	214°.24	0°.5/19.4	17
	h m	° ′			°	m
2 11	12 25.38	− 0 21.2	2.131	2.917	13.7	21.7
2 21	12 20.64	− 0 1.2	2.032	2.910	10.7	21.4
3 2	12 13.73	+ 0 30.5	1.957	2.902	7.2	21.2
3 12	12 5.17	+ 1 10.1	1.908	2.893	3.2	20.9
3 22	11 55.76	+ 1 53.1	1.889	2.884	1.2	20.8
4 1	11 46.43	+ 2 33.9	1.899	2.874	5.4	21.0
4 11	11 38.15	+ 3 7.2	1.938	2.864	9.3	21.2
4 21	11 31.63	+ 3 29.4	2.001	2.853	12.8	21.4
187454 2005 WB_{192}			3 19.8	356°.63	4°.8/14.3	17
2 11	12 18.84	+12 49.0	2.202	3.028	12.0	19.6
2 21	12 15.44	+13 46.8	2.127	3.026	9.3	19.5
3 2	12 10.15	+14 47.0	2.077	3.025	6.6	19.3
3 12	12 3.50	+15 43.1	2.053	3.024	4.9	19.2
3 22	11 56.24	+16 28.7	2.057	3.023	5.6	19.2
4 1	11 49.18	+16 58.8	2.089	3.023	8.1	19.4
4 11	11 43.13	+17 10.5	2.145	3.023	10.9	19.5
4 21	11 38.65	+17 3.2	2.224	3.024	13.5	19.7
372468 2009 SX_{157}			3 19.8	261°.16	2°.3/22.3	17
2 11	12 19.14	−10 25.5	1.947	2.712	15.6	21.0
2 21	12 16.10	− 9 56.1	1.844	2.701	12.7	20.7
3 2	12 10.86	− 9 4.7	1.761	2.690	9.1	20.5
3 12	12 3.94	− 7 53.1	1.704	2.678	5.2	20.2
3 22	11 56.10	− 6 26.0	1.674	2.667	2.3	20.0
4 1	11 48.32	− 4 51.0	1.673	2.655	5.0	20.2
4 11	11 41.58	− 3 16.9	1.699	2.643	9.1	20.4
4 21	11 36.63	− 1 51.9	1.750	2.631	12.9	20.6
246159 2007 PY_{39}			3 19.8	255°.67	1°.4/18.6	17
2 11	12 22.75	− 0 30.2	1.698	2.504	15.9	21.3
2 21	12 19.28	+ 0 19.4	1.597	2.487	12.4	21.0
3 2	12 13.21	+ 1 26.9	1.518	2.469	8.3	20.7
3 12	12 5.08	+ 2 47.1	1.465	2.451	3.6	20.4
3 22	11 55.77	+ 4 12.1	1.439	2.433	2.2	20.3
4 1	11 46.46	+ 5 32.7	1.441	2.413	7.0	20.5
4 11	11 38.35	+ 6 40.0	1.468	2.394	11.8	20.7
4 21	11 32.35	+ 7 28.4	1.518	2.374	16.0	21.0
288571 2004 HE_{37}			3 19.8	222°.02	4°.4/13.7	17
2 11	12 21.95	+15 41.1	3.017	3.824	9.6	21.1
2 21	12 17.33	+16 30.0	2.928	3.814	7.5	21.0
3 2	12 11.18	+17 19.0	2.866	3.804	5.5	20.8
3 12	12 3.92	+18 3.0	2.832	3.793	4.4	20.7
3 22	11 56.13	+18 37.7	2.828	3.782	5.0	20.8
4 1	11 48.45	+18 59.3	2.853	3.771	6.9	20.9
4 11	11 41.53	+19 5.9	2.905	3.759	9.1	21.0
4 21	11 35.84	+18 57.0	2.980	3.746	11.2	21.1
299309 2005 QZ_{52}			3 19.8	214°.87	1°.1/21.2	17
2 11	12 20.06	− 5 32.6	2.717	3.481	11.7	21.2
2 21	12 16.05	− 5 22.6	2.616	3.477	9.3	21.0
3 2	12 10.42	− 5 1.1	2.538	3.472	6.4	20.8
3 12	12 3.61	− 4 29.8	2.488	3.467	3.3	20.6
3 22	11 56.21	− 3 51.9	2.467	3.461	1.2	20.4
4 1	11 48.89	− 3 11.2	2.476	3.456	3.8	20.6
4 11	11 42.32	− 2 32.1	2.514	3.450	7.0	20.8
4 21	11 37.05	− 1 58.5	2.578	3.444	9.8	21.0
201534 2003 QV_{61}			3 19.8	207°.44	1°.7/17.8	17
2 11	12 19.79	+ 1 50.2	2.433	3.230	11.9	20.7
2 21	12 16.02	+ 2 47.8	2.339	3.225	9.2	20.5
3 2	12 10.48	+ 3 56.1	2.270	3.220	6.0	20.3
3 12	12 3.66	+ 5 10.3	2.229	3.215	2.7	20.1
3 22	11 56.20	+ 6 24.5	2.218	3.209	2.3	20.0
4 1	11 48.84	+ 7 32.8	2.237	3.202	5.5	20.2
4 11	11 42.34	+ 8 29.7	2.284	3.195	8.8	20.4
4 21	11 37.26	+ 9 12.0	2.355	3.188	11.8	20.6
348052 2003 UH_{187}			3 19.8	209°.56	1°.0/18.9	17
2 11	12 24.04	− 0 12.4	2.001	2.794	14.3	21.7
2 21	12 19.74	+ 0 26.3	1.906	2.789	11.1	21.5
3 2	12 13.19	+ 1 18.6	1.834	2.782	7.4	21.3
3 12	12 4.95	+ 2 19.9	1.789	2.775	3.2	21.0
3 22	11 55.83	+ 3 24.1	1.773	2.767	1.7	20.9
4 1	11 46.83	+ 4 24.4	1.786	2.759	5.9	21.1
4 11	11 38.93	+ 5 14.3	1.826	2.750	10.0	21.3
4 21	11 32.86	+ 5 49.8	1.891	2.740	13.5	21.6
150735 2001 QX_{50}			3 19.8	148°.93	1°.7/17.8	17
2 11	12 22.97	+ 2 19.1	2.329	3.124	12.5	21.8
2 21	12 18.42	+ 3 12.3	2.250	3.134	9.6	21.6
3 2	12 12.01	+ 4 15.1	2.195	3.145	6.2	21.4
3 12	12 4.32	+ 5 22.6	2.169	3.154	2.8	21.2
3 22	11 56.03	+ 6 28.9	2.172	3.163	2.4	21.1
4 1	11 47.98	+ 7 28.0	2.206	3.171	5.6	21.4
4 11	11 40.92	+ 8 15.3	2.268	3.179	8.9	21.6
4 21	11 35.43	+ 8 48.0	2.354	3.185	11.8	21.8

69091 2003 BE_{25} 3 19.8 53°.27 1°.7/17.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 17.14	− 0 3.3	2.006	2.813	13.7	19.5
2 21	12 14.16	+ 1 18.6	1.939	2.831	10.5	19.4
3 2	12 9.29	+ 2 54.1	1.897	2.850	6.7	19.2
3 12	12 3.11	+ 4 36.6	1.882	2.868	3.0	19.0
3 22	11 56.37	+ 6 17.8	1.896	2.887	2.5	19.0
4 1	11 49.93	+ 7 49.6	1.939	2.906	6.1	19.2
4 11	11 44.55	+ 9 5.7	2.009	2.925	9.6	19.5
4 21	11 40.79	+10 2.6	2.103	2.944	12.7	19.7

2275 Cuitlahuac 3 19.8 189°.84 1°.1/20.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.49	− 6 38.3	1.911	2.686	15.5	16.9
2 21	12 19.40	− 6 4.5	1.818	2.685	12.3	16.7
3 2	12 13.01	− 5 11.5	1.746	2.684	8.5	16.4
3 12	12 4.88	− 4 2.5	1.701	2.681	4.3	16.2
3 22	11 55.86	− 2 43.2	1.683	2.679	1.2	15.9
4 1	11 47.00	− 1 21.2	1.695	2.675	5.2	16.2
4 11	11 39.29	− 0 4.8	1.735	2.671	9.5	16.5
4 21	11 33.50	+ 0 59.7	1.799	2.666	13.3	16.7

389278 2009 HD_{32} 3 19.8 253°.08 0°.3/19.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.30	− 2 17.9	2.466	3.254	12.0	21.3
2 21	12 14.08	− 1 32.4	2.371	3.250	9.4	21.2
3 2	12 9.18	− 0 34.3	2.300	3.246	6.2	20.9
3 12	12 3.08	+ 0 32.8	2.257	3.242	2.7	20.7
3 22	11 56.37	+ 1 43.7	2.242	3.238	1.0	20.6
4 1	11 49.77	+ 2 52.8	2.258	3.233	4.6	20.8
4 11	11 43.99	+ 3 54.4	2.302	3.229	8.0	21.0
4 21	11 39.56	+ 4 44.5	2.371	3.225	11.0	21.2

188085 2001 XC_{127} 3 19.8 163°.23 1°.4/18.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.09	+ 1 5.1	2.080	2.879	13.6	21.4
2 21	12 18.03	+ 1 50.0	1.996	2.883	10.5	21.2
3 2	12 11.92	+ 2 46.7	1.936	2.886	6.9	20.9
3 12	12 4.33	+ 3 50.1	1.903	2.889	3.0	20.7
3 22	11 56.03	+ 4 54.1	1.899	2.892	2.1	20.6
4 1	11 47.94	+ 5 52.2	1.924	2.894	5.8	20.9
4 11	11 40.92	+ 6 38.9	1.976	2.896	9.5	21.1
4 21	11 35.62	+ 7 10.7	2.052	2.897	12.8	21.3

497805 2006 TS_{30} 3 19.8 156°.11 0°.4/19.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.99	− 0 19.1	2.929	3.710	10.5	22.8
2 21	12 15.78	+ 0 9.0	2.841	3.716	8.1	22.7
3 2	12 10.12	+ 0 45.6	2.778	3.722	5.3	22.5
3 12	12 3.44	+ 1 27.7	2.743	3.728	2.3	22.3
3 22	11 56.29	+ 2 11.4	2.738	3.733	1.0	22.2
4 1	11 49.29	+ 2 53.0	2.765	3.738	4.0	22.4
4 11	11 43.02	+ 3 28.7	2.820	3.743	6.9	22.6
4 21	11 37.96	+ 3 55.8	2.901	3.747	9.4	22.8

34824 2001 SY_{156} 3 19.8 108°.19 2°.1/22.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.20	− 8 56.6	2.570	3.319	12.6	18.9
2 21	12 16.91	− 8 51.6	2.487	3.335	10.1	18.7
3 2	12 10.95	− 8 32.7	2.426	3.350	7.2	18.6
3 12	12 3.83	− 8 1.6	2.393	3.365	4.2	18.4
3 22	11 56.18	− 7 21.4	2.389	3.380	2.1	18.3
4 1	11 48.74	− 6 36.1	2.414	3.394	3.9	18.4
4 11	11 42.19	− 5 50.6	2.468	3.408	6.9	18.6
4 21	11 37.04	− 5 9.3	2.549	3.422	9.7	18.8

173487 2000 SR_{134} 3 19.8 130°.97 4°.5/25.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.96	−16 1.1	2.688	3.393	13.1	20.7
2 21	12 18.34	−16 31.2	2.593	3.400	11.0	20.5
3 2	12 11.97	−16 45.8	2.520	3.408	8.6	20.4
3 12	12 4.33	−16 44.3	2.473	3.415	6.2	20.2
3 22	11 56.05	−16 27.8	2.453	3.422	4.6	20.1
4 1	11 47.89	−15 58.9	2.463	3.429	5.0	20.2
4 11	11 40.57	−15 22.0	2.501	3.435	7.1	20.3
4 21	11 34.67	−14 42.0	2.565	3.441	9.5	20.5

216630 2003 AX_{38} 3 19.8 106°.96 12°.0/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.85	+30 2.9	1.827	2.648	14.3	19.7
2 21	12 19.26	+32 57.2	1.795	2.658	12.7	19.6
3 2	12 13.04	+35 38.2	1.788	2.668	12.0	19.6
3 12	12 4.90	+37 52.6	1.806	2.678	12.4	19.7
3 22	11 55.90	+39 30.9	1.848	2.688	13.8	19.8
4 1	11 47.26	+40 28.5	1.912	2.697	15.7	19.9
4 11	11 40.12	+40 46.7	1.994	2.706	17.4	20.1
4 21	11 35.22	+40 30.3	2.090	2.715	19.0	20.2

520279 2014 ET_{226} 3 19.8 211°.61 2°.9/23.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.88	−12 40.5	2.525	3.264	13.1	21.6
2 21	12 14.54	−12 25.2	2.425	3.262	10.7	21.5
3 2	12 9.50	−11 52.6	2.347	3.261	8.0	21.3
3 12	12 3.24	−11 4.0	2.295	3.259	5.0	21.1
3 22	11 56.35	−10 2.4	2.271	3.257	3.0	20.9
4 1	11 49.58	− 8 52.5	2.276	3.255	4.2	21.0
4 11	11 43.62	− 7 40.4	2.310	3.253	7.1	21.2
4 21	11 39.03	− 6 31.8	2.370	3.251	10.0	21.4

411329 2010 UM_{30} 3 19.9 70°.94 9°.8/13.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 35.86	+25 17.9	1.659	2.469	16.0	20.7
2 21	12 29.16	+26 4.4	1.603	2.477	13.3	20.6
3 2	12 19.44	+26 40.3	1.568	2.485	10.9	20.4
3 12	12 7.68	+26 55.2	1.559	2.493	9.8	20.4
3 22	11 55.19	+26 42.3	1.574	2.501	10.6	20.4
4 1	11 43.43	+25 58.8	1.616	2.509	12.8	20.6
4 11	11 33.66	+24 47.2	1.681	2.518	15.4	20.8
4 21	11 26.60	+23 13.0	1.766	2.526	17.9	21.0

177363 2004 BS_{11} 3 19.9 115°.94 5°.7/13.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.04	+11 23.1	1.798	2.624	14.3	20.7
2 21	12 19.02	+12 59.1	1.737	2.637	11.0	20.5
3 2	12 12.66	+14 40.1	1.701	2.649	7.7	20.3
3 12	12 4.68	+16 16.3	1.691	2.662	5.8	20.2
3 22	11 55.99	+17 38.3	1.709	2.673	6.8	20.3
4 1	11 47.66	+18 38.6	1.755	2.685	9.7	20.5
4 11	11 40.68	+19 13.7	1.824	2.696	12.8	20.7
4 21	11 35.69	+19 23.5	1.915	2.706	15.6	20.9

16931 1998 FO_{75} 3 19.9 120°.77 1°.0/21.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.06	− 7 21.7	2.620	3.382	12.1	18.7
2 21	12 14.49	− 6 40.9	2.533	3.393	9.6	18.5
3 2	12 9.35	− 5 45.5	2.470	3.403	6.6	18.3
3 12	12 3.13	− 4 38.7	2.434	3.413	3.4	18.1
3 22	11 56.41	− 3 24.9	2.428	3.423	1.1	18.0
4 1	11 49.86	− 2 9.4	2.453	3.433	3.8	18.2
4 11	11 44.13	− 0 57.8	2.506	3.442	7.0	18.4
4 21	11 39.70	+ 0 5.2	2.586	3.451	9.8	18.6

435981 2009 DT_{127} 3 19.9 297°.39 2°.7/17.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 30.35	+ 9 26.8	2.271	3.067	12.7	21.3
2 21	12 24.29	+ 9 21.9	2.176	3.060	9.9	21.1
3 2	12 16.04	+ 9 18.6	2.105	3.052	6.6	20.8
3 12	12 6.19	+ 9 12.9	2.063	3.044	3.5	20.6
3 22	11 55.56	+ 9 1.1	2.050	3.037	3.3	20.6
4 1	11 45.11	+ 8 40.3	2.069	3.029	6.3	20.8
4 11	11 35.78	+ 8 8.7	2.115	3.022	9.7	21.0
4 21	11 28.26	+ 7 26.4	2.187	3.015	12.7	21.1

106347 2000 UG_{112} 3 19.9 197°.36 3°.5/15.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.54	+11 58.3	2.920	3.726	9.9	21.1
2 21	12 17.03	+12 41.4	2.834	3.723	7.7	21.0
3 2	12 10.98	+13 26.3	2.774	3.720	5.3	20.8
3 12	12 3.85	+14 8.6	2.744	3.716	3.7	20.7
3 22	11 56.22	+14 43.7	2.742	3.712	4.1	20.7
4 1	11 48.72	+15 8.0	2.771	3.708	6.2	20.8
4 11	11 41.99	+15 19.1	2.827	3.703	8.6	21.0
4 21	11 36.53	+15 16.3	2.907	3.698	10.9	21.1

142941 2002 VC_{69} 3 19.9 56°.42 4°.7/23.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.30	−13 13.6	1.628	2.388	18.4	20.0
2 21	12 18.85	−13 31.8	1.549	2.397	15.2	19.8
3 2	12 12.81	−13 26.6	1.489	2.406	11.4	19.6
3 12	12 4.84	−12 57.8	1.452	2.415	7.5	19.4
3 22	11 55.94	−12 8.7	1.440	2.424	4.8	19.2
4 1	11 47.29	−11 5.4	1.455	2.434	6.1	19.3
4 11	11 40.05	− 9 56.9	1.495	2.443	9.8	19.6
4 21	11 35.01	− 8 51.8	1.559	2.453	13.5	19.8

250944 2005 YK_{211} 3 19.9 118°.09 11°.3/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.28	+15 21.0	1.170	2.024	18.5	20.2
2 21	12 20.51	+19 0.3	1.125	2.035	14.7	20.0
3 2	12 14.32	+22 44.3	1.105	2.046	11.9	19.9
3 12	12 5.61	+26 9.7	1.110	2.056	11.5	19.9
3 22	11 55.73	+28 56.0	1.141	2.066	13.8	20.1
4 1	11 46.38	+30 50.7	1.194	2.076	17.2	20.3
4 11	11 39.06	+31 51.9	1.266	2.085	20.5	20.5
4 21	11 34.67	+32 5.4	1.352	2.094	23.3	20.8

30861 1992 DS_5 3 19.9 1°.12 1°.1/18.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.75	+ 0 56.6	1.987	2.795	13.8	18.9
2 21	12 15.58	+ 1 26.9	1.903	2.794	10.7	18.7
3 2	12 10.37	+ 2 8.6	1.842	2.794	7.0	18.5
3 12	12 3.68	+ 2 57.4	1.807	2.794	3.1	18.2
3 22	11 56.26	+ 3 47.6	1.800	2.794	1.8	18.1
4 1	11 49.04	+ 4 33.0	1.821	2.795	5.7	18.4
4 11	11 42.87	+ 5 8.5	1.869	2.796	9.5	18.6
4 21	11 38.39	+ 5 30.5	1.939	2.798	12.9	18.8

267282 2001 SC_{21} 3 19.9 143°.20 1°.3/18.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.94	+ 0 54.3	2.273	3.065	12.8	21.9
2 21	12 18.44	+ 1 42.1	2.194	3.076	9.9	21.7
3 2	12 12.07	+ 2 40.7	2.139	3.087	6.4	21.5
3 12	12 4.37	+ 3 45.1	2.112	3.098	2.8	21.3
3 22	11 56.08	+ 4 49.8	2.115	3.108	1.9	21.2
4 1	11 48.03	+ 5 48.7	2.148	3.117	5.4	21.5
4 11	11 41.00	+ 6 36.8	2.208	3.125	8.8	21.7
4 21	11 35.56	+ 7 11.1	2.294	3.133	11.8	21.9

457634 2009 BO_{145} 3 19.9 55°.78 3°.7/16.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 21.50	+ 4 31.3	1.440	2.271	16.9	21.2
2 21	12 18.43	+ 5 43.3	1.371	2.276	13.0	20.9
3 2	12 12.61	+ 7 9.2	1.323	2.280	8.5	20.7
3 12	12 4.77	+ 8 39.8	1.300	2.285	4.5	20.5
3 22	11 55.98	+10 4.6	1.304	2.290	4.7	20.5
4 1	11 47.53	+11 13.5	1.333	2.295	8.9	20.7
4 11	11 40.63	+11 59.6	1.386	2.300	13.2	21.0
4 21	11 36.07	+12 20.6	1.460	2.305	17.1	21.2

157889 1999 RO_{195} 3 19.9 191°.75 5°.7/26.5 18

2 11	12 23.85	−20 19.1	2.640	3.318	13.9	20.3
2 21	12 19.21	−20 47.8	2.534	3.316	12.0	20.1
3 2	12 12.67	−20 58.4	2.449	3.314	9.7	20.0
3 12	12 4.71	−20 49.6	2.387	3.311	7.5	19.8
3 22	11 55.99	−20 21.6	2.353	3.307	5.9	19.7
4 1	11 47.31	−19 37.2	2.347	3.303	6.0	19.7
4 11	11 39.48	−18 41.2	2.370	3.299	7.7	19.8
4 21	11 33.14	−17 39.8	2.419	3.294	10.1	20.0

390495 2014 AA_{41} 3 19.9 274°.21 2°.8/16.5 17

2 11	12 18.81	+ 5 44.9	2.293	3.105	12.1	20.8
2 21	12 15.43	+ 6 41.2	2.199	3.094	9.3	20.6
3 2	12 10.20	+ 7 46.0	2.130	3.083	6.1	20.4
3 12	12 3.60	+ 8 53.7	2.088	3.071	3.3	20.2
3 22	11 56.30	+ 9 58.3	2.076	3.060	3.5	20.2
4 1	11 49.09	+10 53.5	2.092	3.049	6.5	20.3
4 11	11 42.76	+11 34.5	2.134	3.037	9.8	20.5
4 21	11 37.93	+11 59.0	2.201	3.026	12.8	20.7

199046 2005 WU_{158} 3 19.9 118°.08 3°.0/22.5 18

2 11	12 26.22	−10 2.9	1.651	2.417	17.9	20.6
2 21	12 21.74	− 9 57.1	1.576	2.432	14.5	20.4
3 2	12 14.64	− 9 29.1	1.520	2.447	10.4	20.2
3 12	12 5.63	− 8 41.0	1.489	2.462	6.0	20.0
3 22	11 55.76	− 7 37.5	1.485	2.476	3.0	19.8
4 1	11 46.24	− 6 26.1	1.508	2.489	5.6	20.0
4 11	11 38.21	− 5 15.9	1.558	2.502	9.8	20.3
4 21	11 32.43	− 4 14.3	1.633	2.514	13.7	20.6

232816 2004 RW_{313} 3 19.9 79°.88 0°.3/20.1 17

2 11	12 23.32	− 2 5.9	1.894	2.686	15.0	20.7
2 21	12 19.22	− 1 57.5	1.809	2.689	11.8	20.5
3 2	12 12.86	− 1 36.0	1.747	2.691	7.9	20.2
3 12	12 4.82	− 1 4.5	1.710	2.694	3.7	20.0
3 22	11 55.97	− 0 27.7	1.701	2.697	0.9	19.8
4 1	11 47.34	+ 0 8.9	1.720	2.700	5.3	20.1
4 11	11 39.89	+ 0 39.6	1.767	2.702	9.4	20.3
4 21	11 34.34	+ 1 0.3	1.837	2.705	13.0	20.5

423546 2005 UX_{273} 3 19.9 154°.39 1°.9/21.8 18

2 11	12 26.43	− 7 12.3	2.488	3.236	13.0	22.0
2 21	12 21.04	− 7 16.7	2.397	3.246	10.4	21.8
3 2	12 13.77	− 7 8.2	2.329	3.255	7.4	21.6
3 12	12 5.15	− 6 48.3	2.289	3.263	4.1	21.4
3 22	11 55.90	− 6 19.7	2.279	3.271	1.9	21.3
4 1	11 46.82	− 5 46.2	2.299	3.278	4.2	21.5
4 11	11 38.70	− 5 12.6	2.348	3.284	7.4	21.7
4 21	11 32.15	− 4 42.9	2.424	3.289	10.4	21.9

376979 2002 OS_{2} 3 19.9 76°.51 2°.9/23.6 18

2 11	12 23.25	−13 3.5	2.436	3.164	13.8	20.4
2 21	12 18.40	−12 43.5	2.373	3.204	11.2	20.3
3 2	12 11.86	−12 6.0	2.333	3.244	8.2	20.2
3 12	12 4.21	−11 13.2	2.319	3.283	5.1	20.0
3 22	11 56.18	−10 9.0	2.335	3.321	2.9	19.9
4 1	11 48.51	− 8 58.9	2.380	3.358	4.1	20.1
4 11	11 41.91	− 7 48.7	2.455	3.395	6.9	20.3
4 21	11 36.83	− 6 43.9	2.557	3.431	9.6	20.5

369590 2011 BZ_{153} 3 19.9 196°.68 0°.7/19.2 17

2 11	12 21.51	− 0 57.9	1.893	2.692	14.7	21.8
2 21	12 17.85	− 0 23.6	1.806	2.692	11.5	21.5
3 2	12 11.97	+ 0 24.9	1.742	2.691	7.6	21.3
3 12	12 4.43	+ 1 22.9	1.705	2.690	3.3	21.0
3 22	11 56.08	+ 2 24.5	1.694	2.690	1.4	20.9
4 1	11 47.92	+ 3 22.7	1.713	2.689	5.8	21.2
4 11	11 40.90	+ 4 11.0	1.758	2.687	9.9	21.4
4 21	11 35.73	+ 4 45.3	1.826	2.686	13.5	21.6

491674 2012 UB_{23} 3 19.9 130°.08 3°.5/23.9 17

2 11	12 21.22	−12 50.4	2.435	3.168	13.7	21.6
2 21	12 17.16	−13 0.7	2.342	3.174	11.3	21.5
3 2	12 11.27	−12 54.7	2.271	3.179	8.5	21.3
3 12	12 4.06	−12 32.9	2.225	3.184	5.6	21.1
3 22	11 56.19	−11 57.5	2.207	3.190	3.6	21.0
4 1	11 48.47	−11 12.3	2.218	3.195	4.6	21.1
4 11	11 41.65	−10 22.7	2.258	3.199	7.3	21.2
4 21	11 36.32	− 9 34.0	2.323	3.204	10.2	21.4

110685 2001 TC_{203} 3 19.9 5°.58 5°.9/13.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 13.50	+ 6 23.9	1.277	2.132	17.2	18.3
2 21	12 12.55	+ 8 28.2	1.213	2.132	13.1	18.0
3 2	12 8.86	+10 48.7	1.172	2.133	8.8	17.8
3 12	12 3.14	+13 11.6	1.155	2.135	6.0	17.6
3 22	11 56.45	+15 21.8	1.163	2.138	7.4	17.7
4 1	11 50.08	+17 5.6	1.196	2.143	11.4	17.9
4 11	11 45.23	+18 15.2	1.250	2.149	15.6	18.2
4 21	11 42.68	+18 49.0	1.324	2.155	19.2	18.5

506731 2006 UX_{288} 3 19.9 224°.63 0°.6/20.6 17

2 11	12 19.86	− 4 27.5	2.865	3.631	11.1	22.9
2 21	12 15.86	− 4 3.9	2.757	3.621	8.7	22.7
3 2	12 10.31	− 3 28.8	2.673	3.610	6.0	22.5
3 12	12 3.62	− 2 44.7	2.617	3.598	2.9	22.3
3 22	11 56.33	− 1 55.0	2.591	3.586	0.7	22.1
4 1	11 49.09	− 1 3.8	2.595	3.574	3.8	22.3
4 11	11 42.54	− 0 15.7	2.629	3.561	6.9	22.5
4 21	11 37.20	+ 0 25.7	2.689	3.547	9.7	22.6

438634 2008 AN_{128} 3 19.9 341°.32 4°.6/14.1 17

2 11	12 18.16	+11 26.0	2.241	3.065	11.9	21.2
2 21	12 14.93	+12 39.7	2.164	3.063	9.2	21.0
3 2	12 9.84	+13 57.6	2.112	3.061	6.4	20.8
3 12	12 3.43	+15 12.9	2.088	3.060	4.7	20.7
3 22	11 56.39	+16 18.6	2.092	3.058	5.5	20.8
4 1	11 49.52	+17 8.8	2.123	3.057	8.0	20.9
4 11	11 43.60	+17 39.9	2.180	3.055	10.8	21.1
4 21	11 39.22	+17 50.9	2.259	3.054	13.4	21.3

456943 2008 AB_{17} 3 19.9 322°.10 0°.1/19.9 17

2 11	12 19.77	− 2 37.2	1.442	2.258	17.7	20.9
2 21	12 17.34	− 2 19.5	1.352	2.245	14.0	20.6
3 2	12 12.11	− 1 42.9	1.282	2.232	9.5	20.3
3 12	12 4.67	− 0 51.1	1.235	2.220	4.4	20.0
3 22	11 56.02	+ 0 9.4	1.213	2.209	1.1	19.7
4 1	11 47.45	+ 1 9.7	1.217	2.198	6.7	20.0
4 11	11 40.27	+ 2 1.1	1.245	2.188	11.8	20.3
4 21	11 35.44	+ 2 36.9	1.295	2.178	16.4	20.5

501474 2014 BQ_{44} 3 19.9 107°.76 2°.1/22.3 17

2 11	12 21.21	− 8 20.2	2.455	3.211	13.0	21.3
2 21	12 17.06	− 8 19.5	2.368	3.220	10.4	21.2
3 2	12 11.15	− 8 4.9	2.304	3.230	7.4	21.0
3 12	12 4.00	− 7 37.9	2.266	3.239	4.3	20.8
3 22	11 56.26	− 7 1.6	2.257	3.249	2.1	20.7
4 1	11 48.69	− 6 20.0	2.278	3.258	4.1	20.8
4 11	11 42.04	− 5 38.2	2.326	3.267	7.2	21.0
4 21	11 36.84	− 5 0.5	2.401	3.276	10.1	21.2

32799 1990 QN_{1} 3 19.9 278°.28 2°.5/21.6 18

2 11	12 24.41	− 6 36.2	1.517	2.306	18.2	18.5
2 21	12 20.95	− 6 48.3	1.419	2.293	14.7	18.2
3 2	12 14.57	− 6 41.2	1.342	2.280	10.5	17.9
3 12	12 5.82	− 6 15.8	1.288	2.266	5.8	17.6
3 22	11 55.71	− 5 35.8	1.259	2.253	2.5	17.3
4 1	11 45.59	− 4 47.6	1.257	2.239	6.2	17.5
4 11	11 36.84	− 3 59.7	1.280	2.226	11.2	17.8
4 21	11 30.52	− 3 19.6	1.325	2.212	15.8	18.0

277810 2006 FV_{35} 3 19.9 190°.85 0°.2/19.9 18

2 11	13 0.18	−12 22.6	0.555	1.369	37.4	22.5
2 21	12 54.61	−10 53.4	0.489	1.377	30.8	22.1
3 2	12 41.06	− 8 7.6	0.432	1.379	21.8	21.5
3 12	12 19.37	− 3 55.7	0.391	1.376	10.4	20.9
3 22	11 51.75	+ 1 23.0	0.371	1.366	2.9	20.4
4 1	11 23.30	+ 6 50.2	0.373	1.351	16.6	21.0
4 11	10 59.64	+11 22.7	0.395	1.330	28.8	21.5
4 21	10 43.75	+14 34.3	0.429	1.303	38.9	21.9

83852 2001 UY_{47} 3 19.9 225°.53 0°.2/19.6 18

2 11	12 18.33	− 2 41.8	2.563	3.345	11.8	20.1
2 21	12 14.85	− 1 58.7	2.463	3.339	9.2	19.9
3 2	12 9.72	− 1 3.0	2.388	3.332	6.1	19.7
3 12	12 3.38	+ 0 1.7	2.340	3.325	2.7	19.4
3 22	11 56.44	+ 1 10.7	2.323	3.318	0.9	19.3
4 1	11 49.58	+ 2 18.6	2.335	3.311	4.4	19.5
4 11	11 43.50	+ 3 19.8	2.376	3.303	7.8	19.7
4 21	11 38.75	+ 4 10.4	2.442	3.295	10.7	19.9

119504 2001 UQ_{126} 3 19.9 40°.34 0°.8/20.6 18

2 11	12 20.56	− 4 48.1	1.562	2.363	17.2	20.0
2 21	12 17.49	− 4 26.5	1.489	2.372	13.6	19.8
3 2	12 11.88	− 3 45.7	1.436	2.381	9.3	19.6
3 12	12 4.45	− 2 49.7	1.408	2.391	4.5	19.3
3 22	11 56.16	− 1 45.1	1.406	2.402	1.1	19.1
4 1	11 48.19	− 0 40.0	1.431	2.412	5.8	19.4
4 11	11 41.63	+ 0 17.4	1.481	2.424	10.3	19.7
4 21	11 37.22	+ 1 1.3	1.554	2.435	14.3	20.0

225066 2007 HN_{44} 3 19.9 300°.83 6°.1/14.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.42	+13 47.2	1.755	2.584	14.4	20.1
2 21	12 19.66	+14 46.2	1.671	2.571	11.4	19.9
3 2	12 13.36	+15 48.2	1.611	2.558	8.2	19.6
3 12	12 5.15	+16 44.7	1.576	2.546	6.2	19.5
3 22	11 55.96	+17 27.5	1.567	2.533	7.1	19.5
4 1	11 46.94	+17 49.6	1.585	2.521	10.1	19.7
4 11	11 39.22	+17 47.8	1.627	2.509	13.5	19.8
4 21	11 33.61	+17 22.3	1.689	2.497	16.7	20.0

327883 2007 BB_{5} 3 19.9 56°.92 3°.6/16.7 18

2 11	12 22.48	+ 5 53.8	1.575	2.402	15.9	20.7
2 21	12 18.84	+ 6 50.8	1.514	2.415	12.2	20.4
3 2	12 12.69	+ 7 57.2	1.475	2.430	8.0	20.2
3 12	12 4.76	+ 9 5.3	1.460	2.444	4.3	20.0
3 22	11 56.10	+10 6.3	1.473	2.459	4.4	20.1
4 1	11 47.85	+10 52.8	1.513	2.474	8.1	20.3
4 11	11 41.09	+11 19.8	1.577	2.489	12.0	20.6
4 21	11 36.49	+11 25.9	1.662	2.504	15.5	20.8

21992 1999 XZ_{23} 3 19.9 268°.24 2°.2/18.4 18

2 11	12 25.95	+ 2 44.8	1.390	2.211	17.9	17.8
2 21	12 22.30	+ 3 11.7	1.303	2.201	14.0	17.5
3 2	12 15.51	+ 3 52.9	1.237	2.191	9.3	17.2
3 12	12 6.26	+ 4 42.3	1.194	2.181	4.3	16.9
3 22	11 55.65	+ 5 31.9	1.177	2.170	3.0	16.7
4 1	11 45.16	+ 6 12.9	1.186	2.159	8.1	17.0
4 11	11 36.27	+ 6 38.0	1.220	2.149	13.3	17.3
4 21	11 30.01	+ 6 43.4	1.273	2.138	17.9	17.5

243188 2007 TK_{272} 3 19.9 262°.06 2°.4/17.8 16

2 11	12 23.59	+ 2 45.8	1.677	2.490	15.7	21.3
2 21	12 19.98	+ 3 32.2	1.580	2.474	12.2	21.0
3 2	12 13.73	+ 4 32.9	1.504	2.457	8.1	20.7
3 12	12 5.40	+ 5 41.8	1.454	2.440	3.8	20.4
3 22	11 55.89	+ 6 51.1	1.432	2.422	3.2	20.3
4 1	11 46.40	+ 7 51.9	1.436	2.405	7.6	20.5
4 11	11 38.16	+ 8 37.0	1.467	2.386	12.2	20.8
4 21	11 32.07	+ 9 2.2	1.519	2.368	16.3	21.0

216597 2002 PR_{127} 3 19.9 182°.70 1°.8/18.1 16

2 11	12 24.73	+ 2 41.3	2.131	2.928	13.4	21.9
2 21	12 20.08	+ 3 22.1	2.044	2.929	10.3	21.6
3 2	12 13.33	+ 4 13.1	1.980	2.929	6.8	21.4
3 12	12 5.05	+ 5 9.2	1.943	2.929	3.1	21.2
3 22	11 56.02	+ 6 4.6	1.936	2.928	2.4	21.1
4 1	11 47.17	+ 6 53.3	1.959	2.926	6.0	21.4
4 11	11 39.39	+ 7 30.1	2.009	2.924	9.7	21.6
4 21	11 33.35	+ 7 52.3	2.083	2.921	12.9	21.8

169224 2001 RO_{148} 3 19.9 199°.84 2°.0/17.7 18

2 11	12 22.94	+ 5 11.4	2.409	3.209	11.9	20.3
2 21	12 18.45	+ 5 36.4	2.320	3.208	9.2	20.1
3 2	12 12.12	+ 6 7.7	2.256	3.206	6.0	19.9
3 12	12 4.47	+ 6 41.1	2.219	3.204	2.9	19.7
3 22	11 56.18	+ 7 12.2	2.212	3.201	2.5	19.6
4 1	11 48.05	+ 7 36.6	2.234	3.199	5.6	19.8
4 11	11 40.85	+ 7 50.7	2.284	3.196	8.8	20.0
4 21	11 35.16	+ 7 52.7	2.359	3.193	11.7	20.2

143369 2003 BB_{9} 3 19.9 71°.42 0°.9/18.7 18

2 11	12 18.14	− 0 39.1	2.226	3.024	12.9	19.9
2 21	12 14.85	+ 0 12.7	2.147	3.032	9.9	19.7
3 2	12 9.76	+ 1 16.8	2.091	3.041	6.5	19.5
3 12	12 3.41	+ 2 28.4	2.063	3.049	2.8	19.3
3 22	11 56.48	+ 3 41.7	2.064	3.058	1.6	19.2
4 1	11 49.75	+ 4 50.2	2.093	3.066	5.2	19.5
4 11	11 43.97	+ 5 48.3	2.151	3.075	8.7	19.7
4 21	11 39.70	+ 6 32.4	2.233	3.083	11.7	19.9

430833 2005 JT_{74} 3 19.9 17°.92 3°.0/23.1 17

2 11	12 17.17	−11 34.8	1.861	2.628	16.1	20.8
2 21	12 14.58	−11 18.2	1.776	2.632	13.1	20.6
3 2	12 9.84	−10 39.6	1.711	2.636	9.6	20.4
3 12	12 3.52	− 9 40.9	1.670	2.640	5.8	20.2
3 22	11 56.44	− 8 26.5	1.655	2.645	3.1	20.0
4 1	11 49.55	− 7 3.7	1.668	2.651	5.0	20.1
4 11	11 43.79	− 5 41.0	1.708	2.657	8.7	20.4
4 21	11 39.81	− 4 25.8	1.773	2.663	12.3	20.6

13103 1993 FR_{12} 3 19.9 19°.41 3°.0/17.6 18

2 11	12 20.72	+ 3 36.7	1.317	2.153	17.9	18.0
2 21	12 18.06	+ 4 22.2	1.251	2.157	13.8	17.7
3 2	12 12.50	+ 5 21.7	1.204	2.162	9.0	17.5
3 12	12 4.80	+ 6 27.3	1.182	2.168	4.3	17.2
3 22	11 56.11	+ 7 29.5	1.184	2.175	3.9	17.2
4 1	11 47.80	+ 8 18.8	1.211	2.182	8.4	17.5
4 11	11 41.14	+ 8 48.6	1.262	2.190	13.1	17.8
4 21	11 36.96	+ 8 56.2	1.333	2.198	17.2	18.0

375026 2007 GU_{74} 3 19.9 229°.75 4°.7/15.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 26.46	+13 35.3	2.290	3.099	12.2	20.9
2 21	12 21.36	+14 17.7	2.201	3.089	9.5	20.7
3 2	12 14.16	+15 1.6	2.136	3.079	6.8	20.5
3 12	12 5.43	+15 40.9	2.099	3.068	4.9	20.4
3 22	11 55.93	+16 9.6	2.090	3.057	5.5	20.4
4 1	11 46.59	+16 23.1	2.111	3.046	8.0	20.5
4 11	11 38.30	+16 18.9	2.158	3.034	10.9	20.7
4 21	11 31.73	+15 57.0	2.228	3.021	13.6	20.8

231399 2006 QH_{84} 3 19.9 131°.16 2°.1/17.1 17

2 11	12 18.72	+ 3 30.3	2.508	3.310	11.4	21.1
2 21	12 15.09	+ 4 32.4	2.429	3.318	8.7	20.9
3 2	12 9.83	+ 5 43.1	2.374	3.326	5.7	20.7
3 12	12 3.42	+ 6 57.3	2.349	3.333	2.8	20.6
3 22	11 56.49	+ 8 9.3	2.352	3.340	2.7	20.6
4 1	11 49.74	+ 9 13.3	2.386	3.347	5.6	20.8
4 11	11 43.84	+10 5.0	2.448	3.354	8.6	21.0
4 21	11 39.30	+10 41.7	2.534	3.360	11.2	21.1

225514 2000 QG_{138} 3 19.9 231°.42 0°.5/19.4 17

2 11	12 23.94	− 0 14.8	2.280	3.065	13.0	21.1
2 21	12 19.46	+ 0 7.0	2.176	3.053	10.1	20.9
3 2	12 12.96	+ 0 39.8	2.096	3.041	6.8	20.6
3 12	12 4.93	+ 1 20.2	2.043	3.028	3.0	20.4
3 22	11 56.07	+ 2 3.8	2.019	3.015	1.2	20.2
4 1	11 47.26	+ 2 45.3	2.026	3.001	5.1	20.4
4 11	11 39.38	+ 3 19.8	2.060	2.986	8.9	20.6
4 21	11 33.10	+ 3 43.6	2.120	2.971	12.2	20.8

368584 2004 QZ_{7} 3 19.9 196°.25 5°.4/12.8 17

2 11	12 23.48	+16 3.9	2.534	3.346	11.1	22.0
2 21	12 18.85	+17 19.5	2.455	3.343	8.7	21.9
3 2	12 12.39	+18 35.7	2.402	3.339	6.5	21.7
3 12	12 4.60	+19 45.8	2.378	3.334	5.4	21.6
3 22	11 56.18	+20 43.5	2.382	3.329	6.3	21.7
4 1	11 47.92	+21 23.8	2.415	3.323	8.4	21.8
4 11	11 40.58	+21 44.1	2.473	3.317	10.8	22.0
4 21	11 34.76	+21 44.5	2.554	3.309	13.1	22.1

45654 2000 EV_{71} 3 19.9 141°.53 0°.5/20.5 18

2 11	12 21.02	− 3 51.4	2.233	3.013	13.4	20.7
2 21	12 17.12	− 3 30.5	2.145	3.017	10.5	20.5
3 2	12 11.32	− 2 56.2	2.080	3.021	7.1	20.3
3 12	12 4.14	− 2 11.6	2.042	3.024	3.4	20.1
3 22	11 56.31	− 1 21.2	2.032	3.028	0.8	19.9
4 1	11 48.64	− 0 30.2	2.052	3.031	4.6	20.2
4 11	11 41.95	+ 0 15.8	2.099	3.034	8.2	20.4
4 21	11 36.83	+ 0 52.6	2.172	3.037	11.4	20.6

417205 2005 XZ_{41} 3 19.9 141°.53 1°.5/18.2 16

2 11	12 23.53	+ 2 20.8	2.255	3.050	12.8	22.4
2 21	12 18.95	+ 3 0.7	2.176	3.061	9.8	22.3
3 2	12 12.46	+ 3 50.0	2.122	3.071	6.4	22.1
3 12	12 4.62	+ 4 43.9	2.095	3.080	2.9	21.8
3 22	11 56.18	+ 5 36.9	2.097	3.089	2.1	21.8
4 1	11 47.98	+ 6 23.7	2.130	3.098	5.5	22.0
4 11	11 40.82	+ 6 59.6	2.190	3.106	8.9	22.3
4 21	11 35.27	+ 7 22.2	2.275	3.113	11.9	22.5

352729 2008 SH_{289} 3 19.9 50°.83 0°.5/20.3 18

2 11	12 25.34	− 2 35.9	1.277	2.091	19.6	21.2
2 21	12 21.74	− 2 33.2	1.210	2.101	15.4	21.0
3 2	12 15.00	− 2 11.9	1.162	2.111	10.4	20.7
3 12	12 5.95	− 1 36.1	1.137	2.122	4.9	20.4
3 22	11 55.82	− 0 52.3	1.137	2.133	1.2	20.2
4 1	11 46.14	− 0 9.0	1.163	2.144	6.8	20.6
4 11	11 38.29	+ 0 25.8	1.212	2.156	12.0	20.9
4 21	11 33.14	+ 0 46.7	1.283	2.168	16.4	21.2

242208 2003 QY_{65} 3 19.9 214°.07 3°.6/23.3 17

2 11	12 25.55	−12 3.5	2.159	2.896	15.1	21.2
2 21	12 20.93	−12 10.6	2.052	2.888	12.5	21.0
3 2	12 14.07	−11 59.4	1.966	2.879	9.3	20.8
3 12	12 5.48	−11 30.2	1.905	2.869	5.9	20.6
3 22	11 55.93	−10 45.2	1.872	2.858	3.6	20.4
4 1	11 46.39	− 9 48.8	1.869	2.847	5.1	20.5
4 11	11 37.86	− 8 47.8	1.894	2.834	8.6	20.6
4 21	11 31.10	− 7 48.9	1.944	2.821	12.0	20.8

155835 2000 YA_{8} 3 19.9 173°.39 4°.9/13.9 18

2 11	12 23.89	+14 17.2	2.433	3.245	11.5	20.5
2 21	12 19.16	+15 20.5	2.358	3.248	8.9	20.3
3 2	12 12.58	+16 25.0	2.308	3.250	6.5	20.2
3 12	12 4.68	+17 24.2	2.287	3.252	5.0	20.1
3 22	11 56.18	+18 12.1	2.295	3.253	5.7	20.1
4 1	11 47.89	+18 44.1	2.331	3.254	8.0	20.3
4 11	11 40.60	+18 57.6	2.393	3.254	10.5	20.4
4 21	11 34.88	+18 52.5	2.478	3.254	12.9	20.6

276976 2004 VR_{70} 3 19.9 164°.30 0°.8/20.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 21.95	− 5 20.5	2.520	3.285	12.4	21.8
2 21	12 17.61	− 4 56.6	2.428	3.291	9.8	21.7
3 2	12 11.53	− 4 19.7	2.360	3.296	6.7	21.5
3 12	12 4.21	− 3 32.4	2.319	3.300	3.3	21.2
3 22	11 56.30	− 2 38.6	2.308	3.304	0.9	21.1
4 1	11 48.54	− 1 43.3	2.327	3.307	4.1	21.3
4 11	11 41.65	− 0 51.5	2.376	3.310	7.4	21.5
4 21	11 36.19	− 0 7.6	2.450	3.312	10.4	21.7

199227 2006 AO_{49} 3 19.9 188°.35 3°.6/16.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.18	+ 5 58.1	1.668	2.484	15.7	21.1
2 21	12 21.81	+ 6 52.3	1.588	2.483	12.1	20.9
3 2	12 14.80	+ 7 56.8	1.530	2.483	8.0	20.7
3 12	12 5.82	+ 9 4.1	1.498	2.482	4.3	20.4
3 22	11 55.86	+10 5.9	1.494	2.480	4.4	20.4
4 1	11 46.15	+10 54.2	1.518	2.478	8.2	20.6
4 11	11 37.86	+11 23.4	1.567	2.475	12.3	20.9
4 21	11 31.80	+11 31.6	1.637	2.472	16.0	21.1

351548 2005 TN_{72} 3 19.9 153°.00 4°.5/16.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.43	+ 8 43.9	1.715	2.530	15.3	21.2
2 21	12 23.37	+ 9 44.4	1.644	2.539	11.8	21.0
3 2	12 15.70	+10 51.8	1.596	2.547	8.0	20.8
3 12	12 6.16	+11 58.0	1.575	2.554	4.9	20.6
3 22	11 55.78	+12 54.5	1.581	2.560	5.3	20.7
4 1	11 45.77	+13 34.3	1.616	2.566	8.7	20.9
4 11	11 37.24	+13 53.2	1.675	2.571	12.4	21.1
4 21	11 30.95	+13 50.7	1.757	2.575	15.8	21.3

495447 2014 TY_{5} 3 19.9 195°.51 0°.1/19.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.08	− 2 43.2	2.075	2.857	14.2	22.7
2 21	12 19.71	− 2 9.3	1.980	2.855	11.1	22.5
3 2	12 13.18	− 1 20.8	1.909	2.852	7.5	22.2
3 12	12 5.04	− 0 21.5	1.864	2.848	3.4	22.0
3 22	11 56.07	+ 0 43.3	1.848	2.844	1.0	21.8
4 1	11 47.23	+ 1 46.9	1.862	2.839	5.3	22.0
4 11	11 39.46	+ 2 42.8	1.903	2.833	9.3	22.3
4 21	11 33.45	+ 3 26.5	1.970	2.826	12.8	22.5

196659 2003 SR_{38} 3 19.9 144°.11 2°.3/22.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.90	− 8 55.6	2.258	3.015	13.9	20.4
2 21	12 17.82	− 8 52.8	2.167	3.019	11.3	20.2
3 2	12 11.80	− 8 34.3	2.099	3.024	8.1	20.0
3 12	12 4.38	− 8 1.7	2.056	3.029	4.7	19.8
3 22	11 56.26	− 7 18.1	2.042	3.033	2.3	19.6
4 1	11 48.30	− 6 28.3	2.056	3.037	4.4	19.8
4 11	11 41.32	− 5 38.1	2.099	3.041	7.8	20.0
4 21	11 35.94	− 4 52.8	2.168	3.044	11.0	20.2

136701 1995 SY_{79} 3 19.9 139°.55 0°.9/20.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.85	− 4 8.1	2.611	3.377	12.0	20.6
2 21	12 18.22	− 4 7.2	2.521	3.384	9.5	20.4
3 2	12 11.89	− 3 55.6	2.455	3.391	6.5	20.2
3 12	12 4.37	− 3 35.5	2.417	3.397	3.3	20.0
3 22	11 56.27	− 3 9.8	2.408	3.403	1.0	19.8
4 1	11 48.33	− 2 42.1	2.430	3.409	3.9	20.1
4 11	11 41.26	− 2 16.4	2.481	3.415	7.1	20.3
4 21	11 35.58	− 1 56.0	2.557	3.421	10.0	20.5

240041 2001 UQ_{177} 3 19.9 126°.40 3°.6/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.58	+ 7 2.0	1.596	2.413	16.2	20.7
2 21	12 23.64	+ 7 41.7	1.527	2.422	12.5	20.5
3 2	12 15.95	+ 8 29.2	1.479	2.431	8.3	20.3
3 12	12 6.29	+ 9 17.4	1.457	2.440	4.4	20.0
3 22	11 55.76	+ 9 58.4	1.463	2.449	4.4	20.1
4 1	11 45.64	+10 25.5	1.496	2.457	8.2	20.3
4 11	11 37.12	+10 34.6	1.554	2.464	12.3	20.6
4 21	11 30.97	+10 24.7	1.634	2.472	15.9	20.8

312172 2007 UA_{129} 3 19.9 94°.70 3°.9/16.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.08	+ 6 3.0	1.631	2.453	15.7	20.6
2 21	12 20.00	+ 7 15.7	1.570	2.469	12.0	20.4
3 2	12 13.44	+ 8 38.2	1.532	2.486	7.9	20.2
3 12	12 5.12	+10 1.9	1.520	2.502	4.4	20.0
3 22	11 56.09	+11 17.3	1.535	2.518	4.8	20.0
4 1	11 47.49	+12 16.6	1.578	2.534	8.3	20.3
4 11	11 40.36	+12 54.5	1.646	2.549	12.1	20.5
4 21	11 35.38	+13 9.9	1.735	2.564	15.5	20.8

501039 2013 RL_{74} 3 19.9 209°.95 7°.5/27.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.34	−23 44.2	2.491	3.143	15.2	23.5
2 21	12 22.24	−24 38.1	2.380	3.136	13.4	23.3
3 2	12 14.94	−25 12.9	2.288	3.128	11.3	23.2
3 12	12 5.90	−25 25.5	2.220	3.120	9.2	23.0
3 22	11 55.85	−25 14.7	2.178	3.111	7.7	22.9
4 1	11 45.74	−24 42.0	2.163	3.101	7.6	22.9
4 11	11 36.54	−23 51.9	2.175	3.090	9.0	22.9
4 21	11 29.02	−22 51.2	2.214	3.079	11.2	23.1

189790 2002 EU_{127} 3 19.9 195°.52 1°.1/18.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 20.64	− 0 16.9	2.102	2.899	13.5	20.8
2 21	12 16.99	+ 0 30.4	2.013	2.897	10.5	20.6
3 2	12 11.33	+ 1 30.8	1.947	2.896	6.9	20.4
3 12	12 4.20	+ 2 39.6	1.908	2.894	3.0	20.1
3 22	11 56.34	+ 3 50.6	1.898	2.892	1.7	20.0
4 1	11 48.63	+ 4 57.1	1.918	2.890	5.6	20.3
4 11	11 41.94	+ 5 53.0	1.964	2.888	9.4	20.5
4 21	11 36.89	+ 6 34.3	2.035	2.885	12.7	20.7

36481 2000 QU_{30} 3 19.9 128°.85 3°.0/17.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.40	+ 3 31.3	1.671	2.487	15.6	19.1
2 21	12 19.54	+ 4 41.8	1.599	2.496	12.0	18.9
3 2	12 13.20	+ 6 5.2	1.551	2.504	7.8	18.7
3 12	12 5.07	+ 7 33.8	1.528	2.513	3.9	18.5
3 22	11 56.13	+ 8 58.2	1.533	2.521	3.9	18.5
4 1	11 47.50	+10 9.7	1.566	2.528	7.8	18.7
4 11	11 40.27	+11 1.8	1.625	2.536	11.8	19.0
4 21	11 35.13	+11 31.8	1.705	2.542	15.3	19.2

320413 2007 VF_{2} 3 19.9 84°.84 3°.2/22.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.02	− 9 49.7	1.629	2.397	18.0	21.2
2 21	12 21.58	− 9 54.6	1.560	2.418	14.6	21.0
3 2	12 14.55	− 9 38.4	1.511	2.438	10.5	20.8
3 12	12 5.66	− 9 2.6	1.486	2.459	6.1	20.6
3 22	11 55.98	− 8 11.7	1.488	2.479	3.2	20.5
4 1	11 46.71	− 7 12.6	1.517	2.498	5.6	20.6
4 11	11 38.96	− 6 13.6	1.573	2.518	9.6	20.9
4 21	11 33.45	− 5 21.7	1.652	2.537	13.4	21.2

175546 2006 SQ_{271} 3 19.9 35°.87 1°.4/21.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.56	− 5 6.6	2.274	3.047	13.4	20.2
2 21	12 17.55	− 5 9.0	2.184	3.049	10.6	20.0
3 2	12 11.62	− 4 58.9	2.116	3.051	7.4	19.8
3 12	12 4.32	− 4 38.1	2.074	3.054	3.8	19.6
3 22	11 56.33	− 4 9.8	2.061	3.056	1.4	19.4
4 1	11 48.49	− 3 38.3	2.077	3.058	4.3	19.6
4 11	11 41.61	− 3 8.3	2.122	3.061	7.9	19.8
4 21	11 36.29	− 2 43.9	2.191	3.063	11.0	20.0

228388 2000 YM_{60} 3 19.9 13°.36 6°.3/14.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.26	+10 39.9	1.406	2.255	16.2	19.3
2 21	12 15.22	+12 8.8	1.346	2.259	12.5	19.1
3 2	12 10.53	+13 44.7	1.309	2.265	8.8	18.9
3 12	12 3.92	+15 16.4	1.296	2.271	6.4	18.7
3 22	11 56.45	+16 32.8	1.308	2.279	7.5	18.8
4 1	11 49.36	+17 24.9	1.345	2.287	10.8	19.0
4 11	11 43.78	+17 48.4	1.403	2.297	14.5	19.3
4 21	11 40.44	+17 43.6	1.481	2.307	17.8	19.5

89636 2001 XR_{213} 3 19.9 153°.35 1°.1/18.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.68	+ 0 39.5	2.675	3.457	11.3	20.5
2 21	12 18.01	+ 1 28.3	2.592	3.469	8.7	20.4
3 2	12 11.72	+ 2 26.6	2.533	3.479	5.7	20.2
3 12	12 4.29	+ 3 30.2	2.504	3.489	2.5	20.0
3 22	11 56.36	+ 4 34.2	2.505	3.498	1.6	19.9
4 1	11 48.61	+ 5 33.5	2.538	3.506	4.7	20.2
4 11	11 41.71	+ 6 23.7	2.599	3.514	7.8	20.4
4 21	11 36.18	+ 7 1.9	2.686	3.520	10.5	20.5

420052 2011 DS_{23} 3 19.9 28°.89 3°.7/16.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.04	+ 7 6.1	1.646	2.473	15.3	20.9
2 21	12 18.53	+ 7 51.5	1.576	2.478	11.8	20.7
3 2	12 12.54	+ 8 44.9	1.529	2.484	7.8	20.5
3 12	12 4.78	+ 9 39.1	1.507	2.490	4.3	20.3
3 22	11 56.22	+10 26.3	1.512	2.497	4.5	20.3
4 1	11 48.00	+10 59.8	1.544	2.504	8.1	20.5
4 11	11 41.16	+11 15.0	1.600	2.512	11.9	20.7
4 21	11 36.41	+11 10.8	1.678	2.520	15.3	21.0

18140 2000 OD_{39} 3 19.9 199°.25 2°.3/22.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.91	−10 29.9	2.533	3.275	13.0	19.4
2 21	12 17.70	−10 11.3	2.428	3.271	10.5	19.2
3 2	12 11.69	− 9 36.4	2.346	3.266	7.6	19.0
3 12	12 4.35	− 8 46.7	2.291	3.261	4.5	18.8
3 22	11 56.33	− 7 45.5	2.264	3.255	2.3	18.6
4 1	11 48.38	− 6 37.5	2.268	3.248	4.1	18.7
4 11	11 41.27	− 5 28.9	2.301	3.241	7.3	18.9
4 21	11 35.59	− 4 25.1	2.361	3.232	10.4	19.1

278970 2008 UD_{131} 3 19.9 234°.41 1°.3/21.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.93	− 6 2.9	2.193	2.966	13.8	21.1
2 21	12 17.21	− 5 47.0	2.095	2.960	11.0	20.8
3 2	12 11.50	− 5 16.0	2.018	2.954	7.7	20.6
3 12	12 4.31	− 4 32.2	1.968	2.948	4.0	20.4
3 22	11 56.35	− 3 39.5	1.947	2.942	1.3	20.2
4 1	11 48.47	− 2 43.5	1.954	2.935	4.6	20.4
4 11	11 41.55	− 1 50.1	1.989	2.928	8.3	20.6
4 21	11 36.22	− 1 4.6	2.050	2.921	11.7	20.8

523624 2008 CT_{190} 3 19.9 7.°68 0.°9/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 1.76	+38 50.0	34.300	35.056	1.0	21.4
2 21	12 0.92	+39 0.1	34.262	35.059	1.0	21.3
3 2	11 59.95	+39 8.9	34.249	35.061	0.9	21.3
3 12	11 58.90	+39 16.2	34.261	35.064	1.0	21.3
3 22	11 57.82	+39 21.7	34.297	35.066	1.0	21.4
4 1	11 56.75	+39 25.3	34.357	35.069	1.2	21.4
4 11	11 55.73	+39 26.7	34.438	35.071	1.3	21.4
4 21	11 54.81	+39 26.1	34.538	35.074	1.4	21.4

278179 2007 DO_{90} 3 19.9 199.°08 1.°7/21.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.42	− 5 44.5	2.293	3.053	13.7	20.9
2 21	12 21.36	− 5 53.5	2.193	3.050	10.9	20.7
3 2	12 14.23	− 5 49.9	2.116	3.046	7.7	20.5
3 12	12 5.55	− 5 35.2	2.065	3.042	4.1	20.3
3 22	11 56.05	− 5 11.9	2.044	3.038	1.7	20.1
4 1	11 46.64	− 4 44.1	2.053	3.033	4.5	20.3
4 11	11 38.20	− 4 16.5	2.090	3.027	8.1	20.5
4 21	11 31.44	− 3 53.3	2.154	3.021	11.4	20.7

506710 2006 UE_{117} 3 19.9 230.°10 0.°8/18.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.84	+ 0 59.3	2.767	3.552	10.9	22.3
2 21	12 16.71	+ 1 27.2	2.663	3.542	8.5	22.2
3 2	12 10.95	+ 2 3.7	2.584	3.530	5.6	22.0
3 12	12 4.02	+ 2 45.5	2.533	3.519	2.5	21.7
3 22	11 56.46	+ 3 28.8	2.512	3.506	1.3	21.6
4 1	11 48.97	+ 4 9.3	2.522	3.494	4.5	21.8
4 11	11 42.21	+ 4 43.0	2.560	3.481	7.6	22.0
4 21	11 36.71	+ 5 7.0	2.624	3.468	10.4	22.2

50871 2000 GX_{9} 3 19.9 95.°76 0.°3/20.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.43	− 3 12.8	2.172	2.955	13.6	19.4
2 21	12 17.46	− 2 51.1	2.092	2.966	10.6	19.2
3 2	12 11.55	− 2 16.4	2.034	2.977	7.2	19.0
3 12	12 4.29	− 1 32.1	2.004	2.987	3.3	18.8
3 22	11 56.41	− 0 42.7	2.002	2.998	0.8	18.6
4 1	11 48.75	+ 0 6.2	2.029	3.008	4.6	18.9
4 11	11 42.12	+ 0 49.3	2.084	3.018	8.3	19.2
4 21	11 37.11	+ 1 22.7	2.163	3.028	11.5	19.4

102135 1999 RN_{182} 3 19.9 266.°93 0.°7/20.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.10	− 3 49.3	1.764	2.553	16.0	20.7
2 21	12 20.38	− 3 35.3	1.656	2.533	12.8	20.5
3 2	12 14.06	− 3 4.4	1.569	2.512	8.8	20.2
3 12	12 5.65	− 2 19.0	1.508	2.491	4.3	19.9
3 22	11 56.00	− 1 24.0	1.473	2.469	1.0	19.6
4 1	11 46.27	− 0 26.4	1.467	2.447	5.9	19.8
4 11	11 37.67	+ 0 26.1	1.487	2.425	10.7	20.1
4 21	11 31.14	+ 1 7.1	1.531	2.402	15.0	20.3

214750 2006 TS_{67} 3 19.9 65.°05 2.°8/23.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.04	−13 17.9	2.348	3.090	13.9	20.2
2 21	12 14.05	−12 43.3	2.254	3.094	11.3	20.0
3 2	12 9.30	−11 48.6	2.182	3.098	8.4	19.8
3 12	12 3.29	−10 35.9	2.135	3.101	5.2	19.6
3 22	11 56.68	− 9 9.2	2.117	3.105	2.8	19.5
4 1	11 50.21	− 7 34.8	2.128	3.109	4.2	19.6
4 11	11 44.64	− 6 0.2	2.168	3.113	7.4	19.8
4 21	11 40.50	− 4 32.0	2.235	3.117	10.4	20.0

161671 2006 DT_{90} 3 19.9 183.°87 0.°4/19.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.62	− 0 26.0	1.835	2.626	15.4	20.6
2 21	12 22.73	− 0 10.7	1.747	2.626	12.1	20.3
3 2	12 15.36	+ 0 17.5	1.681	2.626	8.1	20.1
3 12	12 6.11	+ 0 54.5	1.641	2.626	3.6	19.8
3 22	11 55.93	+ 1 35.2	1.629	2.625	1.2	19.6
4 1	11 45.93	+ 2 13.3	1.647	2.623	5.9	19.9
4 11	11 37.23	+ 2 43.2	1.691	2.621	10.2	20.2
4 21	11 30.60	+ 3 0.9	1.760	2.618	14.0	20.4

243444 2009 FQ_{41} 3 19.9 241.°87 3.°5/16.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.49	+ 5 5.6	1.764	2.582	14.9	20.7
2 21	12 18.95	+ 6 15.3	1.674	2.572	11.5	20.5
3 2	12 12.95	+ 7 37.6	1.608	2.561	7.6	20.2
3 12	12 5.07	+ 9 5.1	1.567	2.550	4.1	20.0
3 22	11 56.19	+10 28.8	1.554	2.539	4.4	20.0
4 1	11 47.42	+11 39.7	1.569	2.527	8.2	20.2
4 11	11 39.86	+12 31.1	1.610	2.515	12.3	20.4
4 21	11 34.31	+12 59.8	1.672	2.503	15.9	20.6

247775 2003 QW_{105} 3 19.9 293.°83 2.°7/21.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 37.01	− 2 13.8	1.540	2.319	18.4	19.8
2 21	12 31.36	− 3 23.0	1.421	2.289	15.1	19.5
3 2	12 22.08	− 4 26.2	1.322	2.259	10.8	19.2
3 12	12 9.59	− 5 22.6	1.249	2.228	5.9	18.8
3 22	11 54.91	− 6 11.7	1.204	2.197	2.8	18.5
4 1	11 39.64	− 6 54.1	1.187	2.166	7.2	18.7
4 11	11 25.65	− 7 32.3	1.197	2.135	12.7	18.9
4 21	11 14.43	− 8 9.9	1.231	2.104	17.8	19.1

38902 2000 SO_{158} 3 19.9 42.°44 1.°8/18.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 32.98	+ 6 7.8	1.786	2.585	15.5	19.4
2 21	12 26.87	+ 5 49.6	1.704	2.589	12.1	19.1
3 2	12 18.07	+ 5 35.7	1.644	2.592	8.0	18.9
3 12	12 7.32	+ 5 22.5	1.611	2.596	3.7	18.7
3 22	11 55.64	+ 5 6.2	1.607	2.599	2.4	18.6
4 1	11 44.30	+ 4 43.5	1.632	2.603	6.5	18.8
4 11	11 34.45	+ 4 12.1	1.684	2.607	10.7	19.1
4 21	11 26.90	+ 3 31.5	1.761	2.612	14.3	19.3

410685 2008 WA_{59} 3 19.9 265.°95 0.°4/20.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.25	− 4 56.3	1.627	2.420	17.0	22.3
2 21	12 20.01	− 4 20.1	1.517	2.396	13.6	22.0
3 2	12 13.99	− 3 21.6	1.428	2.372	9.4	21.7
3 12	12 5.70	− 2 3.8	1.363	2.347	4.5	21.3
3 22	11 56.02	− 0 32.9	1.325	2.321	1.0	21.0
4 1	11 46.17	+ 1 1.3	1.315	2.294	6.5	21.3
4 11	11 37.50	+ 2 28.2	1.330	2.267	11.7	21.5
4 21	11 31.05	+ 3 39.2	1.369	2.240	16.5	21.7

208981 2002 YZ_{25} 3 19.9 34.°87 1.°3/18.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.58	+ 1 15.3	1.944	2.752	14.1	20.2
2 21	12 16.26	+ 1 50.5	1.869	2.761	10.8	20.0
3 2	12 10.87	+ 2 37.0	1.818	2.769	7.1	19.8
3 12	12 4.03	+ 3 29.8	1.792	2.778	3.1	19.6
3 22	11 56.52	+ 4 23.1	1.795	2.788	2.0	19.5
4 1	11 49.27	+ 5 10.5	1.825	2.798	5.8	19.8
4 11	11 43.14	+ 5 46.9	1.882	2.808	9.5	20.0
4 21	11 38.74	+ 6 9.0	1.962	2.819	12.8	20.3

93824 2000 WW_{72} 3 19.9 190.°95 0.°8/20.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.38	− 4 25.2	2.363	3.133	13.0	21.2
2 21	12 18.92	− 4 11.0	2.266	3.132	10.3	21.0
3 2	12 12.56	− 3 44.1	2.193	3.130	7.1	20.8
3 12	12 4.79	− 3 6.8	2.147	3.128	3.5	20.6
3 22	11 56.31	− 2 22.9	2.129	3.125	0.9	20.4
4 1	11 47.95	− 1 37.3	2.142	3.122	4.4	20.6
4 11	11 40.51	− 0 55.1	2.184	3.118	8.0	20.8
4 21	11 34.61	− 0 20.5	2.251	3.114	11.2	21.0

508522 2016 QB_{85} 3 19.9 240.°59 3.°4/14.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.86	+ 7 42.8	2.816	3.625	10.2	21.1
2 21	12 14.44	+ 9 17.9	2.719	3.612	7.8	20.9
3 2	12 9.48	+11 0.8	2.649	3.599	5.3	20.7
3 12	12 3.38	+12 45.4	2.609	3.586	3.5	20.6
3 22	11 56.69	+14 25.1	2.601	3.572	4.2	20.6
4 1	11 50.03	+15 53.8	2.622	3.558	6.6	20.7
4 11	11 44.06	+17 6.7	2.672	3.543	9.2	20.9
4 21	11 39.28	+18 1.3	2.746	3.529	11.6	21.0

152666 1998 FN_{7} 3 19.9 182.°37 0.°7/19.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.01	− 0 14.3	2.124	2.916	13.6	21.1
2 21	12 18.81	+ 0 13.3	2.035	2.916	10.6	20.9
3 2	12 12.56	+ 0 52.4	1.969	2.916	7.0	20.7
3 12	12 4.81	+ 1 39.3	1.931	2.916	3.1	20.5
3 22	11 56.32	+ 2 28.8	1.921	2.915	1.3	20.3
4 1	11 47.99	+ 3 15.2	1.940	2.915	5.3	20.6
4 11	11 40.70	+ 3 53.2	1.987	2.913	9.1	20.8
4 21	11 35.10	+ 4 19.2	2.058	2.912	12.4	21.0

471863 2013 AH_{17} 3 19.9 211.°62 5.°4/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.90	−21 40.3	3.025	3.689	12.5	21.8
2 21	12 16.78	−22 4.4	2.913	3.683	10.9	21.6
3 2	12 11.04	−22 11.7	2.822	3.677	8.9	21.5
3 12	12 4.09	−22 1.3	2.755	3.670	7.0	21.3
3 22	11 56.50	−21 33.5	2.716	3.663	5.6	21.2
4 1	11 48.93	−20 50.6	2.704	3.656	5.6	21.2
4 11	11 42.06	−19 56.8	2.722	3.648	6.9	21.3
4 21	11 36.43	−18 57.2	2.765	3.640	8.9	21.4

244121 2001 VX_{35} 3 19.9 111.°45 2.°4/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.67	+ 3 23.3	1.639	2.448	16.2	20.9
2 21	12 22.80	+ 4 6.6	1.574	2.465	12.5	20.7
3 2	12 15.34	+ 5 1.1	1.530	2.482	8.2	20.5
3 12	12 6.06	+ 6 0.1	1.513	2.498	3.8	20.2
3 22	11 56.01	+ 6 55.9	1.523	2.514	3.1	20.2
4 1	11 46.41	+ 7 41.2	1.561	2.529	7.2	20.5
4 11	11 38.35	+ 8 10.8	1.626	2.544	11.3	20.8
4 21	11 32.54	+ 8 22.4	1.712	2.558	14.9	21.0

40357 1999 NM_{18} 3 19.9 168.°86 0.°8/19.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.17	+ 0 1.5	2.188	2.972	13.5	20.2
2 21	12 21.15	+ 0 33.4	2.101	2.978	10.5	20.0
3 2	12 14.06	+ 1 16.5	2.037	2.983	6.9	19.8
3 12	12 5.47	+ 2 6.9	2.001	2.986	3.0	19.6
3 22	11 56.16	+ 2 59.3	1.995	2.990	1.4	19.5
4 1	11 47.04	+ 3 47.9	2.019	2.992	5.3	19.7
4 11	11 39.01	+ 4 27.6	2.071	2.993	9.0	20.0
4 21	11 32.70	+ 4 55.0	2.148	2.994	12.3	20.2

269800 1999 VY_{16} 3 19.9 25°.78 3°.7/16.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 26.74	+ 9 23.5	1.838	2.653	14.5	20.0
2 21	12 21.96	+ 9 44.1	1.761	2.655	11.2	19.7
3 2	12 14.76	+10 8.6	1.707	2.657	7.6	19.5
3 12	12 5.82	+10 31.2	1.679	2.660	4.3	19.3
3 22	11 56.08	+10 46.0	1.679	2.662	4.3	19.3
4 1	11 46.64	+10 48.3	1.706	2.665	7.6	19.5
4 11	11 38.55	+10 35.4	1.760	2.668	11.2	19.8
4 21	11 32.51	+10 6.9	1.837	2.671	14.5	20.0

100258 1994 SW_{10} 3 19.9 156°.43 0°.4/19.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.50	− 0 51.1	2.984	3.763	10.4	21.0
2 21	12 15.46	− 0 19.3	2.895	3.769	8.0	20.9
3 2	12 10.01	+ 0 21.2	2.831	3.775	5.3	20.7
3 12	12 3.58	+ 1 7.4	2.796	3.780	2.3	20.5
3 22	11 56.68	+ 1 55.7	2.790	3.786	0.9	20.4
4 1	11 49.91	+ 2 41.9	2.816	3.790	3.9	20.6
4 11	11 43.86	+ 3 22.4	2.871	3.795	6.7	20.8
4 21	11 38.96	+ 3 54.3	2.952	3.799	9.3	21.0

384500 2010 CL_{95} 3 19.9 264°.37 0°.7/20.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.34	− 2 28.5	2.216	2.995	13.5	21.0
2 21	12 19.88	− 2 33.9	2.114	2.985	10.7	20.8
3 2	12 13.33	− 2 28.5	2.035	2.975	7.3	20.5
3 12	12 5.20	− 2 14.3	1.982	2.965	3.5	20.3
3 22	11 56.23	− 1 54.5	1.958	2.954	0.9	20.1
4 1	11 47.31	− 1 33.1	1.964	2.943	4.7	20.3
4 11	11 39.35	− 1 14.7	1.997	2.933	8.5	20.5
4 21	11 33.04	− 1 2.8	2.056	2.922	11.9	20.7

205565 2001 SR_{303} 3 19.9 12°.93 0°.3/19.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.95	+ 0 6.5	2.181	2.972	13.3	20.5
2 21	12 18.71	+ 0 12.6	2.092	2.973	10.4	20.3
3 2	12 12.46	+ 0 28.6	2.027	2.973	6.9	20.1
3 12	12 4.77	+ 0 51.1	1.989	2.974	3.1	19.9
3 22	11 56.36	+ 1 16.3	1.979	2.974	1.0	19.7
4 1	11 48.12	+ 1 39.8	1.998	2.975	4.9	20.0
4 11	11 40.90	+ 1 57.2	2.045	2.976	8.6	20.2
4 21	11 35.32	+ 2 5.5	2.116	2.977	11.9	20.4

502547 2015 BP_{463} 3 19.9 45°.66 4°.5/14.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.68	+ 9 8.0	1.961	2.786	13.3	21.5
2 21	12 16.40	+10 26.0	1.888	2.788	10.2	21.3
3 2	12 11.02	+11 50.8	1.838	2.790	7.0	21.1
3 12	12 4.13	+13 14.6	1.816	2.793	4.6	20.9
3 22	11 56.54	+14 29.5	1.821	2.795	5.4	21.0
4 1	11 49.17	+15 28.1	1.854	2.797	8.3	21.2
4 11	11 42.90	+16 6.2	1.912	2.800	11.6	21.4
4 21	11 38.39	+16 22.4	1.992	2.802	14.5	21.5

224475 2005 VT_{73} 3 19.9 344°.49 0°.2/20.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.40	− 3 34.4	1.820	2.615	15.4	20.6
2 21	12 17.17	− 3 1.6	1.733	2.614	12.1	20.4
3 2	12 11.66	− 2 12.0	1.668	2.614	8.2	20.2
3 12	12 4.48	− 1 9.5	1.629	2.613	3.8	19.9
3 22	11 56.45	− 0 0.2	1.617	2.613	0.9	19.7
4 1	11 48.59	+ 1 8.3	1.633	2.613	5.5	20.0
4 11	11 41.90	+ 2 8.6	1.676	2.612	9.8	20.2
4 21	11 37.09	+ 2 55.5	1.742	2.612	13.5	20.5

409900 2006 TX_{6} 3 19.9 95°.00 2°.5/17.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.00	+ 4 13.8	1.896	2.701	14.5	22.3
2 21	12 21.08	+ 5 5.3	1.837	2.727	11.1	22.1
3 2	12 13.97	+ 6 5.6	1.801	2.752	7.2	21.9
3 12	12 5.39	+ 7 8.3	1.793	2.777	3.5	21.7
3 22	11 56.25	+ 8 6.6	1.813	2.801	3.2	21.7
4 1	11 47.55	+ 8 54.0	1.862	2.825	6.7	22.0
4 11	11 40.18	+ 9 26.3	1.937	2.848	10.2	22.3
4 21	11 34.75	+ 9 41.7	2.036	2.870	13.3	22.5

512973 2017 TU_{11} 3 19.9 258°.52 0°.6/19.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.12	+ 0 52.6	2.156	2.942	13.6	21.2
2 21	12 22.23	+ 1 1.2	2.043	2.920	10.7	21.0
3 2	12 15.05	+ 1 19.6	1.952	2.897	7.2	20.7
3 12	12 6.06	+ 1 44.9	1.889	2.874	3.2	20.4
3 22	11 56.02	+ 2 12.8	1.855	2.850	1.3	20.2
4 1	11 45.91	+ 2 38.4	1.851	2.826	5.5	20.4
4 11	11 36.76	+ 2 57.1	1.875	2.801	9.6	20.6
4 21	11 29.35	+ 3 5.3	1.923	2.775	13.3	20.8

124080 2001 GO_{4} 3 19.9 119°.34 16°.3/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 30.61	+32 16.3	1.265	2.092	19.0	18.9
2 21	12 26.43	+35 33.7	1.243	2.107	17.1	18.8
3 2	12 18.40	+38 28.9	1.243	2.121	16.3	18.8
3 12	12 7.60	+40 43.1	1.265	2.135	16.8	18.9
3 22	11 55.69	+42 4.7	1.307	2.148	18.4	19.0
4 1	11 44.61	+42 30.2	1.367	2.160	20.4	19.2
4 11	11 36.01	+42 5.2	1.442	2.172	22.4	19.4
4 21	11 30.73	+40 59.5	1.529	2.183	24.1	19.5

416595 2004 NZ_{8} 3 19.9 101°.56 3°.0/16.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 25.99	+ 8 33.0	2.712	3.506	10.9	21.7
2 21	12 20.35	+ 9 31.5	2.658	3.542	8.3	21.5
3 2	12 13.15	+10 33.2	2.631	3.577	5.5	21.4
3 12	12 4.95	+11 32.9	2.633	3.611	3.3	21.3
3 22	11 56.40	+12 25.6	2.667	3.644	3.6	21.4
4 1	11 48.20	+13 7.3	2.731	3.676	5.9	21.6
4 11	11 40.99	+13 35.3	2.823	3.707	8.4	21.8
4 21	11 35.22	+13 48.9	2.941	3.736	10.6	22.0

225593 2000 WA_{134} 3 19.9 141°.03 0°.3/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.75	− 2 40.7	2.621	3.388	11.9	21.5
2 21	12 19.65	− 2 21.9	2.537	3.403	9.3	21.3
3 2	12 12.86	− 1 52.7	2.478	3.417	6.3	21.1
3 12	12 4.89	− 1 15.9	2.447	3.430	2.9	20.9
3 22	11 56.40	− 0 35.3	2.447	3.442	0.7	20.7
4 1	11 48.11	+ 0 4.9	2.477	3.454	4.1	21.0
4 11	11 40.74	+ 0 40.5	2.537	3.465	7.3	21.3
4 21	11 34.79	+ 1 8.3	2.623	3.476	10.1	21.4

36698 2000 RN_{17} 3 19.9 14°.66 4°.9/23.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.17	−12 50.9	1.447	2.219	19.8	19.2
2 21	12 19.26	−13 9.8	1.364	2.219	16.4	19.0
3 2	12 13.46	−13 3.0	1.299	2.220	12.3	18.7
3 12	12 5.43	−12 30.1	1.256	2.222	8.0	18.5
3 22	11 56.23	−11 34.0	1.237	2.223	5.0	18.3
4 1	11 47.21	−10 22.1	1.244	2.225	6.6	18.4
4 11	11 39.70	− 9 4.6	1.276	2.227	10.7	18.6
4 21	11 34.64	− 7 51.8	1.330	2.229	15.0	18.9

58694 1998 BQ_{25} 3 19.9 193°.42 7°.3/11.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.75	+19 28.9	2.077	2.897	12.8	19.7
2 21	12 20.29	+20 51.7	2.009	2.896	10.4	19.5
3 2	12 13.61	+22 12.5	1.964	2.895	8.2	19.3
3 12	12 5.33	+23 22.4	1.947	2.893	7.4	19.3
3 22	11 56.29	+24 14.0	1.956	2.890	8.4	19.3
4 1	11 47.52	+24 41.7	1.992	2.888	10.6	19.5
4 11	11 39.95	+24 43.9	2.051	2.885	13.1	19.6
4 21	11 34.25	+24 21.9	2.131	2.881	15.5	19.8

117530 2005 CP_{59} 3 19.9 91°.77 2°.4/22.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.94	− 9 12.8	1.624	2.399	17.8	20.1
2 21	12 20.06	− 8 57.4	1.551	2.415	14.3	19.9
3 2	12 13.64	− 8 19.8	1.499	2.431	10.1	19.7
3 12	12 5.37	− 7 22.8	1.470	2.446	5.6	19.4
3 22	11 56.29	− 6 11.9	1.469	2.462	2.4	19.3
4 1	11 47.56	− 4 55.4	1.494	2.477	5.4	19.5
4 11	11 40.28	− 3 42.1	1.547	2.492	9.7	19.8
4 21	11 35.18	− 2 39.5	1.623	2.506	13.6	20.0

155091 2005 SX_{164} 3 19.9 165°.54 1°.1/18.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.53	− 0 32.4	2.207	2.999	13.2	20.8
2 21	12 17.58	+ 0 22.6	2.121	3.003	10.2	20.6
3 2	12 11.71	+ 1 30.5	2.059	3.007	6.7	20.4
3 12	12 4.45	+ 2 46.5	2.024	3.010	2.9	20.1
3 22	11 56.53	+ 4 4.3	2.019	3.013	1.7	20.0
4 1	11 48.78	+ 5 17.2	2.044	3.015	5.4	20.3
4 11	11 42.01	+ 6 19.2	2.097	3.017	9.0	20.5
4 21	11 36.84	+ 7 6.4	2.174	3.019	12.2	20.7

476914 2008 WJ_{61} 3 19.9 34°.33 23°.3/ 8.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 48.38	+44 3.3	0.926	1.730	26.1	20.1
2 21	12 41.66	+45 45.6	0.904	1.737	24.5	20.0
3 2	12 28.91	+46 47.3	0.895	1.745	23.5	20.0
3 12	12 12.19	+46 48.0	0.901	1.754	23.4	20.0
3 22	11 54.66	+45 37.9	0.922	1.764	24.1	20.1
4 1	11 39.52	+43 20.2	0.958	1.775	25.5	20.2
4 11	11 28.83	+40 9.7	1.009	1.786	27.3	20.4
4 21	11 23.11	+36 25.1	1.073	1.798	29.0	20.6

412263 2013 HA_{110} 3 19.9 235°.81 0°.4/19.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.94	− 1 30.2	1.926	2.716	14.9	22.2
2 21	12 20.73	− 1 3.4	1.824	2.703	11.7	22.0
3 2	12 14.13	− 0 22.1	1.745	2.690	7.9	21.7
3 12	12 5.67	+ 0 30.1	1.691	2.676	3.5	21.4
3 22	11 56.19	+ 1 27.6	1.666	2.661	1.2	21.2
4 1	11 46.73	+ 2 23.6	1.669	2.646	5.8	21.5
4 11	11 38.36	+ 3 11.5	1.700	2.630	10.1	21.7
4 21	11 31.91	+ 3 46.3	1.755	2.614	14.0	21.9

11890 1991 FF 3 19.9 356°.00 3°.8/23.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.78	−11 1.8	2.343	3.081	14.0	18.0
2 21	12 20.13	−11 42.4	2.245	3.080	11.6	17.8
3 2	12 13.47	−12 9.4	2.169	3.080	8.7	17.6
3 12	12 5.29	−12 22.3	2.119	3.079	5.8	17.4
3 22	11 56.31	−12 21.9	2.097	3.079	3.9	17.3
4 1	11 47.40	−12 10.8	2.105	3.079	5.0	17.4
4 11	11 39.43	−11 53.2	2.140	3.079	7.8	17.5
4 21	11 33.07	−11 33.7	2.201	3.079	10.8	17.7

52875 1998 SB_{43} 3 19.9 77°.91 0°.5/20.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.25	− 5 6.4	1.373	2.178	19.0	19.4
2 21	12 19.95	− 4 30.7	1.305	2.191	15.0	19.2
3 2	12 13.77	− 3 32.4	1.257	2.204	10.1	19.0
3 12	12 5.50	− 2 16.5	1.232	2.216	4.8	18.7
3 22	11 56.27	− 0 51.5	1.233	2.229	1.1	18.5
4 1	11 47.46	+ 0 32.0	1.261	2.242	6.4	18.8
4 11	11 40.30	+ 1 44.1	1.313	2.255	11.4	19.2
4 21	11 35.59	+ 2 38.2	1.387	2.267	15.7	19.4

295374 2008 HU_{60} 3 19.9 160°.57 3°.8/16.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.67	+10 35.5	2.354	3.155	12.1	21.1
2 21	12 22.13	+11 17.5	2.276	3.163	9.4	20.9
3 2	12 14.62	+12 2.4	2.224	3.170	6.4	20.7
3 12	12 5.73	+12 44.6	2.200	3.176	4.1	20.6
3 22	11 56.22	+13 18.8	2.206	3.181	4.4	20.6
4 1	11 46.97	+13 40.5	2.241	3.186	7.0	20.8
4 11	11 38.81	+13 47.0	2.304	3.190	9.9	21.0
4 21	11 32.32	+13 37.8	2.391	3.194	12.6	21.2

236862 2007 RG_{189} 3 19.9 169°.64 0°.7/19.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.28	− 0 36.7	2.182	2.976	13.2	21.0
2 21	12 16.67	− 0 3.0	2.094	2.976	10.2	20.8
3 2	12 11.14	+ 0 42.6	2.029	2.977	6.8	20.6
3 12	12 4.21	+ 1 36.2	1.991	2.977	3.0	20.4
3 22	11 56.61	+ 2 32.6	1.982	2.977	1.3	20.2
4 1	11 49.15	+ 3 25.7	2.002	2.977	5.1	20.5
4 11	11 42.67	+ 4 10.4	2.050	2.978	8.8	20.7
4 21	11 37.77	+ 4 42.8	2.122	2.978	12.0	20.9

10837 Yuyakekoyake 3 19.9 86°.68 0°.0/19.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.37	− 6 58.5	1.857	2.642	15.5	16.8
2 21	12 15.50	− 5 32.0	1.774	2.650	12.2	16.6
3 2	12 10.50	− 3 42.7	1.714	2.657	8.2	16.4
3 12	12 3.95	− 1 36.3	1.680	2.664	3.7	16.1
3 22	11 56.68	+ 0 38.1	1.676	2.672	1.0	15.9
4 1	11 49.64	+ 2 49.5	1.701	2.679	5.6	16.2
4 11	11 43.73	+ 4 47.9	1.755	2.686	9.8	16.5
4 21	11 39.60	+ 6 26.2	1.833	2.694	13.4	16.7

158160 2001 PC_{20} 3 19.9 232°.40 2°.3/17.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.64	+ 2 54.2	1.829	2.632	15.0	21.2
2 21	12 22.20	+ 3 39.1	1.730	2.618	11.7	21.0
3 2	12 15.20	+ 4 36.7	1.653	2.603	7.8	20.7
3 12	12 6.19	+ 5 41.6	1.603	2.588	3.6	20.4
3 22	11 56.07	+ 6 46.4	1.581	2.572	3.0	20.4
4 1	11 45.98	+ 7 43.3	1.588	2.555	7.2	20.6
4 11	11 37.06	+ 8 25.7	1.621	2.537	11.5	20.8
4 21	11 30.21	+ 8 49.8	1.677	2.518	15.4	21.0

341592 2007 UH_{97} 3 19.9 247°.43 1°.6/18.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.33	+ 3 0.3	2.323	3.122	12.3	21.5
2 21	12 17.42	+ 3 32.8	2.227	3.114	9.5	21.3
3 2	12 11.62	+ 4 14.1	2.156	3.106	6.3	21.1
3 12	12 4.44	+ 5 0.1	2.112	3.098	2.9	20.9
3 22	11 56.55	+ 5 45.7	2.098	3.089	2.2	20.8
4 1	11 48.75	+ 6 25.8	2.112	3.081	5.5	21.0
4 11	11 41.86	+ 6 55.9	2.154	3.072	9.0	21.2
4 21	11 36.48	+ 7 13.2	2.220	3.063	12.1	21.4

498754 2008 UM_{10} 3 19.9 174°.36 0°.9/20.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.42	− 4 46.1	2.309	3.080	13.2	22.4
2 21	12 18.23	− 4 31.3	2.216	3.082	10.5	22.2
3 2	12 12.14	− 4 3.1	2.146	3.084	7.2	22.0
3 12	12 4.66	− 3 24.2	2.104	3.085	3.6	21.8
3 22	11 56.50	− 2 38.5	2.090	3.085	1.0	21.6
4 1	11 48.47	− 1 50.8	2.106	3.086	4.4	21.9
4 11	11 41.39	− 1 6.7	2.150	3.086	8.0	22.1
4 21	11 35.86	− 0 30.3	2.219	3.085	11.2	22.3

12962 4297 T-$_2$ 3 19.9 19°.71 1°.4/18.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.11	+ 2 50.7	2.504	3.304	11.5	18.3
2 21	12 15.50	+ 3 23.7	2.417	3.304	8.9	18.1
3 2	12 10.22	+ 4 4.7	2.355	3.305	5.8	17.9
3 12	12 3.76	+ 4 49.8	2.320	3.306	2.6	17.7
3 22	11 56.74	+ 5 34.4	2.315	3.307	2.0	17.7
4 1	11 49.86	+ 6 13.7	2.339	3.307	5.0	17.9
4 11	11 43.81	+ 6 43.9	2.390	3.308	8.2	18.1
4 21	11 39.13	+ 7 2.4	2.466	3.309	11.0	18.2

109302 2001 QW_{129} 3 19.9 99°.74 6°.2/25.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.08	−17 15.8	1.926	2.641	17.3	19.1
2 21	12 22.31	−18 1.6	1.845	2.656	14.7	19.0
3 2	12 15.09	−18 26.0	1.783	2.671	11.6	18.8
3 12	12 6.06	−18 27.4	1.745	2.685	8.5	18.6
3 22	11 56.14	−18 6.4	1.732	2.699	6.4	18.5
4 1	11 46.46	−17 26.8	1.747	2.713	6.8	18.6
4 11	11 38.07	−16 35.4	1.789	2.726	9.2	18.8
4 21	11 31.73	−15 40.0	1.856	2.739	12.2	19.0

497566 2006 DU_{154} 3 19.9 44°.42 2°.0/21.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 21.48	− 7 11.9	1.693	2.478	16.8	21.3
2 21	12 18.08	− 7 7.9	1.620	2.491	13.4	21.1
3 2	12 12.29	− 6 45.2	1.568	2.504	9.4	20.9
3 12	12 4.79	− 6 6.2	1.540	2.518	5.1	20.7
3 22	11 56.51	− 5 15.8	1.538	2.532	2.0	20.5
4 1	11 48.54	− 4 20.8	1.564	2.547	5.2	20.7
4 11	11 41.90	− 3 28.6	1.616	2.562	9.4	21.0
4 21	11 37.27	− 2 45.1	1.692	2.577	13.1	21.3

430114 2013 TB_{10} 3 19.9 131°.51 4°.4/24.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.13	−15 41.8	2.294	3.012	14.8	21.4
2 21	12 18.84	−15 52.5	2.205	3.023	12.4	21.3
3 2	12 12.57	−15 44.0	2.137	3.034	9.5	21.1
3 12	12 4.88	−15 16.5	2.093	3.044	6.6	20.9
3 22	11 56.49	−14 32.0	2.077	3.053	4.6	20.8
4 1	11 48.27	−13 35.0	2.090	3.063	5.2	20.9
4 11	11 41.07	−12 31.6	2.131	3.071	7.7	21.0
4 21	11 35.50	−11 28.2	2.197	3.080	10.6	21.2

302057 2000 UJ_{20} 3 19.9 80°.05 3°.6/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.28	+ 6 21.7	1.502	2.321	16.9	20.4
2 21	12 23.41	+ 7 9.0	1.447	2.345	13.0	20.2
3 2	12 15.80	+ 8 4.8	1.415	2.368	8.5	20.0
3 12	12 6.32	+ 9 1.0	1.408	2.391	4.5	19.8
3 22	11 56.15	+ 9 49.3	1.427	2.414	4.4	19.9
4 1	11 46.57	+10 22.7	1.474	2.436	8.2	20.1
4 11	11 38.71	+10 37.2	1.546	2.458	12.2	20.4
4 21	11 33.26	+10 32.2	1.639	2.480	15.7	20.7

42942 1999 TK_{77} 3 19.9 255°.23 0°.5/19.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.88	− 0 55.3	1.864	2.658	15.1	20.2
2 21	12 20.83	− 0 31.8	1.759	2.640	11.9	20.0
3 2	12 14.31	+ 0 6.0	1.676	2.622	8.0	19.7
3 12	12 5.83	+ 0 54.6	1.618	2.603	3.6	19.4
3 22	11 56.22	+ 1 48.3	1.589	2.584	1.3	19.1
4 1	11 46.58	+ 2 40.4	1.588	2.564	6.0	19.4
4 11	11 38.03	+ 3 23.9	1.614	2.544	10.5	19.6
4 21	11 31.46	+ 3 54.2	1.663	2.523	14.6	19.8

415968 2001 XO_{218} 3 19.9 87°.64 6°.4/27.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.50	−21 1.9	2.008	2.702	17.3	21.8
2 21	12 20.11	−21 18.6	1.935	2.728	14.8	21.6
3 2	12 13.49	−21 10.3	1.881	2.754	11.8	21.5
3 12	12 5.28	−20 36.2	1.849	2.779	8.9	21.4
3 22	11 56.40	−19 38.6	1.843	2.804	6.7	21.3
4 1	11 47.86	−18 22.8	1.865	2.828	6.7	21.3
4 11	11 40.60	−16 56.9	1.914	2.852	8.7	21.5
4 21	11 35.27	−15 29.6	1.989	2.875	11.4	21.7

284632 2007 VK_{227} 3 19.9 72°.28 3°.2/16.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.56	+ 7 34.1	2.164	2.978	12.6	20.3
2 21	12 17.56	+ 8 20.9	2.096	2.990	9.7	20.1
3 2	12 11.65	+ 9 13.3	2.052	3.003	6.4	19.9
3 12	12 4.42	+10 5.5	2.035	3.016	3.6	19.8
3 22	11 56.63	+10 51.7	2.046	3.029	3.8	19.8
4 1	11 49.12	+11 26.7	2.087	3.042	6.7	20.0
4 11	11 42.68	+11 46.9	2.153	3.055	9.8	20.2
4 21	11 37.86	+11 51.3	2.243	3.067	12.6	20.4

99989 1981 EL_{35} 3 19.9 288°.29 3°.9/24.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.40	−14 48.5	2.369	3.099	14.1	20.0
2 21	12 15.27	−14 48.5	2.261	3.089	11.8	19.8
3 2	12 10.28	−14 29.6	2.174	3.078	9.0	19.6
3 12	12 3.89	−13 52.2	2.112	3.068	6.1	19.4
3 22	11 56.75	−12 58.2	2.077	3.057	4.1	19.3
4 1	11 49.64	−11 52.2	2.070	3.047	4.8	19.3
4 11	11 43.37	−10 40.4	2.092	3.037	7.6	19.5
4 21	11 38.57	− 9 29.3	2.139	3.026	10.6	19.6

379697 2011 FB_{81} 3 19.9 190°.25 0°.7/19.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.28	+ 0 51.7	2.398	3.184	12.4	21.2
2 21	12 19.59	+ 1 11.7	2.305	3.183	9.6	21.0
3 2	12 13.02	+ 1 40.9	2.236	3.181	6.4	20.7
3 12	12 5.08	+ 2 15.9	2.194	3.179	2.8	20.5
3 22	11 56.46	+ 2 52.4	2.182	3.177	1.3	20.4
4 1	11 47.96	+ 3 26.0	2.200	3.174	4.9	20.6
4 11	11 40.40	+ 3 52.2	2.247	3.170	8.4	20.8
4 21	11 34.37	+ 4 8.3	2.319	3.166	11.4	21.0

207788 2007 TQ_{133} 3 19.9 338°.25 0°.4/19.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.91	− 1 8.0	2.143	2.937	13.4	21.0
2 21	12 16.45	− 0 38.8	2.054	2.936	10.4	20.8
3 2	12 11.04	+ 0 2.7	1.988	2.935	6.9	20.5
3 12	12 4.21	+ 0 52.8	1.949	2.934	3.1	20.3
3 22	11 56.68	+ 1 46.3	1.938	2.933	1.1	20.1
4 1	11 49.29	+ 2 37.4	1.955	2.932	5.1	20.4
4 11	11 42.88	+ 3 20.8	2.000	2.931	8.8	20.6
4 21	11 38.07	+ 3 52.4	2.070	2.930	12.1	20.8

337015 1994 TS_{10} 3 19.9 273°.95 0°.5/19.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 26.28	+ 0 49.5	2.106	2.895	13.8	21.4
2 21	12 21.65	+ 0 50.7	1.995	2.874	10.9	21.2
3 2	12 14.72	+ 1 1.3	1.907	2.853	7.3	20.9
3 12	12 5.98	+ 1 18.4	1.846	2.831	3.3	20.6
3 22	11 56.21	+ 1 38.2	1.814	2.809	1.2	20.4
4 1	11 46.39	+ 1 56.2	1.811	2.787	5.4	20.7
4 11	11 37.53	+ 2 7.8	1.835	2.764	9.6	20.9
4 21	11 30.45	+ 2 9.8	1.884	2.742	13.3	21.0

424009 2006 WP_{93} 3 19.9 85°.76 8°.0/12.7 16

2 11	12 26.43	+18 41.8	1.691	2.519	14.9	21.2
2 21	12 21.98	+19 58.5	1.632	2.526	12.0	21.0
3 2	12 14.90	+21 12.6	1.597	2.532	9.3	20.9
3 12	12 5.97	+22 13.8	1.586	2.539	8.0	20.8
3 22	11 56.26	+22 53.8	1.601	2.546	9.0	20.9
4 1	11 46.98	+23 7.0	1.642	2.552	11.5	21.0
4 11	11 39.25	+22 52.3	1.705	2.559	14.4	21.2
4 21	11 33.77	+22 12.3	1.788	2.565	17.1	21.4

211994 2005 AK_{70} 3 19.9 74°.37 0°.8/19.3 18

2 11	12 26.02	− 0 33.4	1.473	2.282	17.7	21.3
2 21	12 21.81	− 0 6.7	1.410	2.300	13.8	21.0
3 2	12 14.86	+ 0 35.5	1.369	2.319	9.1	20.8
3 12	12 5.97	+ 1 27.5	1.351	2.337	4.0	20.6
3 22	11 56.26	+ 2 22.1	1.361	2.356	1.6	20.4
4 1	11 47.04	+ 3 11.2	1.397	2.374	6.6	20.8
4 11	11 39.47	+ 3 48.0	1.459	2.392	11.2	21.1
4 21	11 34.27	+ 4 9.0	1.542	2.410	15.1	21.4

248545 2005 XR_{26} 3 19.9 50°.72 7°.1/25.2 18

2 11	12 25.00	−15 41.6	1.318	2.080	21.8	20.2
2 21	12 21.71	−16 32.9	1.247	2.091	18.4	20.0
3 2	12 15.22	−16 56.4	1.193	2.102	14.4	19.8
3 12	12 6.30	−16 49.5	1.160	2.113	10.2	19.6
3 22	11 56.16	−16 13.3	1.149	2.125	7.3	19.5
4 1	11 46.35	−15 14.2	1.163	2.138	8.0	19.5
4 11	11 38.33	−14 2.9	1.201	2.150	11.5	19.8
4 21	11 33.05	−12 50.9	1.261	2.163	15.4	20.0

488769 2004 TJ_{170} 3 19.9 95°.89 3°.9/16.8 18

2 11	12 29.06	+ 7 21.6	1.601	2.416	16.2	21.2
2 21	12 23.88	+ 8 13.2	1.544	2.439	12.4	21.0
3 2	12 16.07	+ 9 12.1	1.510	2.461	8.2	20.8
3 12	12 6.46	+10 10.2	1.501	2.483	4.6	20.7
3 22	11 56.16	+10 59.5	1.520	2.504	4.7	20.7
4 1	11 46.42	+11 33.2	1.567	2.525	8.2	21.0
4 11	11 38.32	+11 47.6	1.639	2.545	12.1	21.2
4 21	11 32.54	+11 42.4	1.733	2.564	15.4	21.5

424794 2008 UZ_{13} 3 19.9 26°.73 0°.7/19.4 17

2 11	12 25.63	+ 1 38.5	1.901	2.699	14.7	20.7
2 21	12 21.11	+ 1 39.4	1.816	2.701	11.4	20.5
3 2	12 14.26	+ 1 49.7	1.755	2.703	7.6	20.2
3 12	12 5.71	+ 2 5.8	1.719	2.705	3.4	20.0
3 22	11 56.33	+ 2 23.5	1.712	2.707	1.4	19.8
4 1	11 47.17	+ 2 37.9	1.733	2.709	5.7	20.1
4 11	11 39.22	+ 2 44.8	1.781	2.712	9.7	20.4
4 21	11 33.22	+ 2 41.4	1.853	2.714	13.3	20.6

377171 2003 TG_{40} 3 19.9 36°.02 1°.7/21.5 17

2 11	12 22.60	− 5 53.3	1.994	2.770	14.9	21.1
2 21	12 18.71	− 5 55.6	1.905	2.772	11.9	20.9
3 2	12 12.65	− 5 43.0	1.838	2.773	8.3	20.7
3 12	12 4.99	− 5 17.4	1.796	2.775	4.4	20.5
3 22	11 56.52	− 4 42.5	1.782	2.777	1.7	20.3
4 1	11 48.21	− 4 3.3	1.797	2.779	4.8	20.5
4 11	11 40.99	− 3 25.6	1.839	2.781	8.7	20.7
4 21	11 35.56	− 2 54.4	1.905	2.783	12.2	21.0

173336 1999 WS_{14} 3 19.9 236°.16 1°.2/21.1 16

2 11	12 23.80	− 5 56.2	1.996	2.770	15.0	21.4
2 21	12 19.81	− 5 36.0	1.891	2.757	12.0	21.2
3 2	12 13.53	− 4 58.6	1.807	2.744	8.3	21.0
3 12	12 5.45	− 4 6.3	1.749	2.729	4.2	20.7
3 22	11 56.38	− 3 3.7	1.719	2.714	1.2	20.4
4 1	11 47.32	− 1 57.2	1.718	2.699	5.1	20.7
4 11	11 39.28	− 0 54.2	1.745	2.683	9.4	20.9
4 21	11 33.07	− 0 0.7	1.797	2.666	13.2	21.1

98501 2000 VS_{12} 3 19.9 214°.67 3°.3/17.1 18

2 11	12 26.66	+ 6 20.8	1.829	2.639	14.7	20.1
2 21	12 22.11	+ 7 5.3	1.741	2.633	11.4	19.9
3 2	12 15.06	+ 7 58.7	1.676	2.627	7.6	19.7
3 12	12 6.13	+ 8 54.4	1.637	2.620	4.1	19.4
3 22	11 56.22	+ 9 45.4	1.627	2.613	4.0	19.4
4 1	11 46.47	+10 24.5	1.644	2.605	7.7	19.6
4 11	11 37.99	+10 46.8	1.688	2.596	11.6	19.8
4 21	11 31.56	+10 50.4	1.754	2.587	15.2	20.0

192727 1999 TS_{169} 3 19.9 147°.06 0°.7/20.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.01	− 4 13.0	2.414	3.184	12.8	21.4
2 21	12 18.56	− 3 54.6	2.327	3.193	10.1	21.2
3 2	12 12.30	− 3 23.7	2.264	3.201	6.8	21.0
3 12	12 4.76	− 2 43.2	2.227	3.209	3.3	20.8
3 22	11 56.61	− 1 57.0	2.220	3.216	0.8	20.6
4 1	11 48.64	− 1 10.0	2.244	3.223	4.2	20.9
4 11	11 41.60	− 0 26.9	2.295	3.229	7.7	21.1
4 21	11 36.06	+ 0 8.1	2.373	3.235	10.7	21.3

357991 2006 DQ_{28} 3 19.9 71°.02 1°.6/18.7 18

2 11	12 24.53	− 0 34.1	1.357	2.174	18.5	21.6
2 21	12 20.82	+ 0 22.4	1.301	2.196	14.3	21.4
3 2	12 14.27	+ 1 36.7	1.265	2.218	9.3	21.2
3 12	12 5.73	+ 3 1.1	1.254	2.240	4.0	20.9
3 22	11 56.40	+ 4 25.5	1.269	2.262	2.4	20.9
4 1	11 47.62	+ 5 39.6	1.310	2.284	7.3	21.2
4 11	11 40.59	+ 6 35.7	1.376	2.306	12.0	21.5
4 21	11 36.01	+ 7 10.1	1.464	2.328	16.0	21.8

265292 2004 GC_{38} 3 19.9 315°.34 8°.8/11.1 16

2 11	12 20.70	+17 25.2	1.526	2.369	15.5	20.0
2 21	12 18.09	+19 9.8	1.452	2.356	12.5	19.8
3 2	12 12.69	+20 56.7	1.401	2.342	9.8	19.6
3 12	12 5.15	+22 33.6	1.375	2.329	8.8	19.5
3 22	11 56.50	+23 48.6	1.373	2.317	10.3	19.6
4 1	11 48.04	+24 32.9	1.395	2.304	13.3	19.7
4 11	11 41.03	+24 42.9	1.438	2.293	16.6	19.9
4 21	11 36.35	+24 20.1	1.499	2.281	19.6	20.1

333741 2009 XM_{5} 3 19.9 289°.33 3°.8/16.2 17

2 11	12 22.00	+ 7 7.9	1.848	2.668	14.2	21.0
2 21	12 18.66	+ 8 3.4	1.745	2.644	11.0	20.7
3 2	12 12.90	+ 9 9.0	1.666	2.619	7.5	20.4
3 12	12 5.23	+10 18.0	1.613	2.594	4.3	20.2
3 22	11 56.47	+11 22.4	1.587	2.569	4.7	20.2
4 1	11 47.67	+12 14.2	1.588	2.544	8.3	20.3
4 11	11 39.94	+12 47.5	1.615	2.519	12.3	20.5
4 21	11 34.14	+12 59.3	1.664	2.494	16.0	20.7

271204 2003 SB_{365} 3 19.9 155°.73 1°.3/21.4 17

2 11	12 21.98	− 6 13.4	2.324	3.090	13.3	21.4
2 21	12 17.90	− 5 57.8	2.233	3.095	10.6	21.2
3 2	12 11.94	− 5 28.0	2.166	3.099	7.4	21.0
3 12	12 4.63	− 4 46.5	2.125	3.103	3.8	20.8
3 22	11 56.66	− 3 56.9	2.112	3.107	1.3	20.6
4 1	11 48.85	− 3 4.5	2.130	3.110	4.3	20.8
4 11	11 41.98	− 2 14.7	2.175	3.113	7.8	21.0
4 21	11 36.63	− 1 32.0	2.247	3.116	10.9	21.2

363035 1999 RS_{170} 3 19.9 214°.27 0°.5/19.4 17

2 11	12 24.32	− 1 39.4	2.166	2.949	13.6	22.0
2 21	12 19.96	− 0 59.2	2.065	2.941	10.7	21.8
3 2	12 13.48	− 0 5.1	1.987	2.931	7.1	21.6
3 12	12 5.40	+ 0 59.1	1.936	2.921	3.2	21.3
3 22	11 56.46	+ 2 7.8	1.915	2.910	1.2	21.1
4 1	11 47.58	+ 3 14.4	1.923	2.898	5.3	21.4
4 11	11 39.68	+ 4 12.4	1.960	2.885	9.3	21.6
4 21	11 33.46	+ 4 57.4	2.021	2.872	12.8	21.8

159560 2001 TO_{103} 3 19.9 264°.78 11°.7/ 7.6 17

2 11	12 40.10	+31 14.8	1.977	2.761	14.8	21.5
2 21	12 33.17	+32 49.0	1.884	2.727	13.1	21.3
3 2	12 22.88	+34 14.2	1.813	2.692	11.9	21.2
3 12	12 9.87	+35 17.8	1.768	2.655	11.9	21.1
3 22	11 55.29	+35 49.0	1.748	2.617	13.1	21.1
4 1	11 40.71	+35 41.0	1.753	2.578	15.2	21.1
4 11	11 27.72	+34 53.6	1.779	2.537	17.8	21.2
4 21	11 17.46	+33 31.9	1.824	2.495	20.2	21.3

175158 2005 EM_{66} 3 19.9 288°.91 8°.0/12.5 18

2 11	12 24.78	+16 12.1	1.601	2.435	15.4	20.1
2 21	12 21.32	+17 36.5	1.510	2.410	12.4	19.8
3 2	12 14.95	+19 5.0	1.442	2.384	9.5	19.6
3 12	12 6.25	+20 26.6	1.398	2.359	8.0	19.5
3 22	11 56.22	+21 30.1	1.380	2.333	9.3	19.5
4 1	11 46.18	+22 6.3	1.386	2.307	12.5	19.6
4 11	11 37.51	+22 10.6	1.415	2.281	16.2	19.7
4 21	11 31.22	+21 43.9	1.463	2.255	19.6	19.9

522553 2016 EF_{241} 3 19.9 224°.77 0°.6/20.5 17

2 11	12 25.33	− 3 14.1	2.098	2.875	14.2	22.1
2 21	12 20.83	− 3 5.4	1.996	2.866	11.3	21.9
3 2	12 14.11	− 2 43.7	1.917	2.857	7.7	21.6
3 12	12 5.70	− 2 11.2	1.865	2.847	3.7	21.4
3 22	11 56.39	− 1 32.1	1.841	2.837	0.9	21.1
4 1	11 47.12	− 0 51.6	1.847	2.827	5.0	21.4
4 11	11 38.88	− 0 15.2	1.881	2.815	9.0	21.6
4 21	11 32.41	+ 0 12.5	1.939	2.804	12.6	21.8

202830 2008 SY_{166} 3 19.9 205°.74 0°.2/19.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 21.47	− 2 13.5	2.536	3.314	12.0	21.8
2 21	12 17.40	− 1 37.7	2.436	3.308	9.4	21.7
3 2	12 11.57	− 0 50.0	2.360	3.302	6.3	21.4
3 12	12 4.47	+ 0 6.3	2.312	3.296	2.8	21.2
3 22	11 56.72	+ 1 6.6	2.293	3.289	0.9	21.0
4 1	11 49.04	+ 2 5.8	2.306	3.282	4.5	21.3
4 11	11 42.18	+ 2 58.7	2.346	3.274	7.9	21.5
4 21	11 36.71	+ 3 41.3	2.413	3.265	10.9	21.7

258514 2002 AR_{142} 3 19.9 276°.20 7°.1/11.7 18

2 11	12 20.49	+15 13.2	1.848	2.680	13.7	20.1
2 21	12 17.37	+16 59.0	1.772	2.672	10.8	19.9
3 2	12 11.92	+18 48.6	1.721	2.663	8.2	19.7
3 12	12 4.73	+20 31.6	1.696	2.655	7.1	19.6
3 22	11 56.64	+21 58.2	1.698	2.646	8.4	19.6
4 1	11 48.72	+23 0.2	1.727	2.637	11.1	19.8
4 11	11 41.98	+23 33.7	1.778	2.628	14.1	19.9
4 21	11 37.16	+23 38.9	1.849	2.620	16.8	20.1

437632 2014 BG_{34} 3 19.9 257°.39 1°.3/21.3 17

2 11	12 22.16	− 4 53.2	2.354	3.124	13.0	21.2
2 21	12 18.04	− 4 55.3	2.259	3.123	10.4	21.0
3 2	12 12.06	− 4 45.4	2.188	3.123	7.2	20.8
3 12	12 4.70	− 4 25.2	2.143	3.122	3.7	20.6
3 22	11 56.66	− 3 58.0	2.126	3.121	1.3	20.4
4 1	11 48.73	− 3 27.6	2.140	3.120	4.2	20.6
4 11	11 41.70	− 2 58.8	2.181	3.120	7.7	20.8
4 21	11 36.19	− 2 35.4	2.248	3.119	10.9	21.0

477762 2010 XZ_{67} 3 19.9 36°.80 15°.6/ 2.9 17 C

2 11	12 48.39	−31 12.9	0.627	1.375	40.6	21.0
2 21	12 40.23	−32 53.8	0.633	1.442	34.6	20.9
3 2	12 26.98	−33 24.2	0.645	1.509	28.4	20.9
3 12	12 11.00	−32 39.6	0.668	1.578	22.5	20.9
3 22	11 55.29	−30 48.9	0.707	1.646	17.8	21.0
4 1	11 42.52	−28 14.1	0.764	1.713	15.7	21.1
4 11	11 34.18	−25 24.0	0.841	1.780	16.4	21.5
4 21	11 30.45	−22 42.1	0.936	1.845	18.8	21.8

170240 2003 QH_{33} 3 19.9 204°.90 0°.3/20.3 17

2 11	12 25.20	− 3 40.2	2.052	2.830	14.5	21.6
2 21	12 20.74	− 3 14.0	1.954	2.825	11.4	21.4
3 2	12 14.06	− 2 32.6	1.878	2.819	7.8	21.2
3 12	12 5.68	− 1 39.3	1.829	2.812	3.7	20.9
3 22	11 56.41	− 0 39.0	1.809	2.805	0.8	20.7
4 1	11 47.23	+ 0 21.7	1.818	2.797	5.2	21.0
4 11	11 39.11	+ 1 16.4	1.855	2.788	9.3	21.2
4 21	11 32.79	+ 2 0.0	1.917	2.778	12.9	21.4

472988 2015 HO_{15} 3 19.9 127°.15 4°.3/14.7 17

2 11	12 20.49	+11 31.5	2.336	3.154	11.7	20.5
2 21	12 16.73	+12 33.3	2.260	3.156	9.0	20.4
3 2	12 11.14	+13 38.4	2.210	3.158	6.3	20.2
3 12	12 4.27	+14 40.6	2.187	3.160	4.4	20.1
3 22	11 56.79	+15 33.7	2.193	3.162	5.1	20.1
4 1	11 49.52	+16 12.5	2.227	3.164	7.5	20.3
4 11	11 43.19	+16 34.0	2.287	3.166	10.3	20.5
4 21	11 38.37	+16 37.4	2.369	3.167	12.8	20.6

262763 2006 XH_{66} 3 19.9 34°.48 1°.8/18.2 18

2 11	12 17.94	− 1 5.7	1.423	2.247	17.5	19.9
2 21	12 15.75	+ 0 9.0	1.358	2.257	13.4	19.7
3 2	12 10.96	+ 1 43.6	1.313	2.268	8.8	19.5
3 12	12 4.30	+ 3 30.0	1.293	2.280	3.8	19.2
3 22	11 56.80	+ 5 17.2	1.299	2.292	2.7	19.2
4 1	11 49.64	+ 6 53.8	1.331	2.304	7.4	19.5
4 11	11 43.95	+ 8 10.7	1.388	2.317	12.0	19.8
4 21	11 40.44	+ 9 3.1	1.467	2.331	15.9	20.0

18023 1999 JQ_{129} 3 19.9 173°.54 0°.2/19.8 18

2 11	12 20.84	− 3 49.2	2.358	3.135	12.8	19.1
2 21	12 16.99	− 2 54.2	2.266	3.138	10.0	18.9
3 2	12 11.34	− 1 44.5	2.198	3.140	6.7	18.7
3 12	12 4.38	− 0 24.0	2.158	3.142	3.0	18.5
3 22	11 56.78	+ 1 1.3	2.148	3.144	0.9	18.3
4 1	11 49.33	+ 2 25.0	2.168	3.144	4.7	18.6
4 11	11 42.78	+ 3 40.5	2.217	3.144	8.2	18.8
4 21	11 37.70	+ 4 43.2	2.292	3.144	11.4	19.0

171773 2001 BJ_{10} 3 19.9 2°.68 1°.9/18.8 18

2 11	12 22.96	+ 3 31.3	1.152	1.993	19.6	19.7
2 21	12 20.41	+ 3 31.5	1.083	1.991	15.3	19.4
3 2	12 14.52	+ 3 43.8	1.033	1.990	10.2	19.1
3 12	12 6.08	+ 4 2.6	1.004	1.991	4.6	18.8
3 22	11 56.37	+ 4 20.7	0.999	1.993	2.7	18.7
4 1	11 47.01	+ 4 30.6	1.018	1.996	8.2	19.0
4 11	11 39.54	+ 4 26.4	1.059	2.001	13.5	19.3
4 21	11 34.93	+ 4 5.8	1.120	2.007	18.2	19.6

369308 2009 SQ_{48} 3 19.9 132°.69 2°.0/21.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 22.01	− 8 8.8	1.993	2.761	15.2	22.0
2 21	12 18.27	− 7 54.9	1.905	2.766	12.2	21.8
3 2	12 12.38	− 7 23.2	1.839	2.771	8.6	21.6
3 12	12 4.92	− 6 35.9	1.799	2.775	4.7	21.4
3 22	11 56.68	− 5 37.3	1.786	2.779	2.0	21.2
4 1	11 48.62	− 4 33.6	1.802	2.784	4.7	21.4
4 11	11 41.67	− 3 31.8	1.845	2.787	8.6	21.6
4 21	11 36.48	− 2 37.8	1.913	2.791	12.1	21.9

317098 2001 TT_{84} 3 19.9 65°.96 1°.5/21.8 17

2 11	12 18.63	− 8 4.1	2.206	2.975	13.9	20.6
2 21	12 15.39	− 7 34.4	2.123	2.984	11.1	20.4
3 2	12 10.32	− 6 47.8	2.061	2.994	7.7	20.2
3 12	12 3.93	− 5 47.3	2.026	3.004	4.1	20.0
3 22	11 56.94	− 4 37.4	2.019	3.013	1.5	19.8
4 1	11 50.14	− 3 24.4	2.041	3.023	4.3	20.0
4 11	11 44.30	− 2 14.8	2.091	3.033	7.8	20.3
4 21	11 39.99	− 1 14.0	2.167	3.043	11.0	20.5

95277 2002 CH_{75} 3 19.9 284°.85 0°.8/19.0 17

2 11	12 19.69	+ 0 33.8	2.427	3.221	12.0	20.1
2 21	12 16.18	+ 1 1.6	2.322	3.205	9.4	19.9
3 2	12 10.88	+ 1 39.6	2.241	3.189	6.2	19.7
3 12	12 4.23	+ 2 24.3	2.187	3.173	2.7	19.4
3 22	11 56.86	+ 3 11.3	2.162	3.157	1.4	19.3
4 1	11 49.51	+ 3 55.5	2.167	3.141	4.9	19.5
4 11	11 42.97	+ 4 32.3	2.199	3.125	8.4	19.7
4 21	11 37.83	+ 4 58.1	2.256	3.109	11.5	19.8

378783 2008 SK_{33} 3 19.9 223°.92 0°.9/19.0 17

2 11	12 21.13	− 0 37.7	2.145	2.939	13.4	21.8
2 21	12 17.48	+ 0 4.6	2.051	2.933	10.4	21.6
3 2	12 11.82	+ 1 0.1	1.980	2.928	6.9	21.3
3 12	12 4.67	+ 2 4.3	1.936	2.921	3.0	21.1
3 22	11 56.75	+ 3 11.6	1.920	2.915	1.5	20.9
4 1	11 48.94	+ 4 15.4	1.934	2.908	5.4	21.2
4 11	11 42.09	+ 5 9.6	1.975	2.901	9.2	21.4
4 21	11 36.87	+ 5 50.2	2.041	2.893	12.6	21.6

83023 2001 QG_{178} 3 19.9 62°.64 4°.6/23.9 18

2 11	12 28.99	−12 15.2	2.134	2.864	15.4	18.9
2 21	12 23.51	−13 11.1	2.054	2.881	12.8	18.7
3 2	12 15.79	−13 51.5	1.994	2.898	9.7	18.5
3 12	12 6.44	−14 15.3	1.961	2.915	6.7	18.4
3 22	11 56.32	−14 23.0	1.955	2.932	4.7	18.3
4 1	11 46.42	−14 17.2	1.978	2.949	5.6	18.4
4 11	11 37.70	−14 2.6	2.030	2.966	8.3	18.6
4 21	11 30.85	−13 44.3	2.107	2.983	11.2	18.8

244628 2003 BK_{50} 3 19.9 91°.52 6°.9/ 9.8 18

2 11	12 21.07	+19 58.4	2.421	3.240	11.3	20.5
2 21	12 17.09	+21 56.5	2.378	3.263	9.1	20.4
3 2	12 11.33	+23 51.0	2.362	3.286	7.4	20.3
3 12	12 4.34	+25 33.6	2.374	3.308	7.0	20.3
3 22	11 56.86	+26 57.2	2.415	3.330	8.0	20.4
4 1	11 49.66	+27 57.2	2.482	3.351	9.8	20.5
4 11	11 43.48	+28 32.2	2.574	3.373	11.8	20.7
4 21	11 38.82	+28 43.3	2.685	3.393	13.6	20.9

357141 2002 AP_{179} 3 19.9 75°.33 3°.6/16.9 18

2 11	12 26.00	+ 4 22.6	1.414	2.238	17.6	20.6
2 21	12 21.81	+ 5 36.2	1.364	2.264	13.4	20.4
3 2	12 14.85	+ 7 1.8	1.336	2.290	8.7	20.2
3 12	12 6.01	+ 8 29.5	1.332	2.316	4.5	20.0
3 22	11 56.47	+ 9 49.1	1.355	2.342	4.5	20.1
4 1	11 47.54	+10 51.6	1.405	2.367	8.5	20.4
4 11	11 40.34	+11 31.4	1.479	2.392	12.6	20.7
4 21	11 35.55	+11 47.5	1.575	2.416	16.2	21.0

426391 2013 PL_{26} 3 19.9 208°.51 6°.7/28.3 17

2 11	12 23.92	−24 43.3	2.667	3.313	14.4	21.9
2 21	12 19.50	−25 7.9	2.553	3.305	12.7	21.8
3 2	12 13.13	−25 12.0	2.459	3.297	10.6	21.6
3 12	12 5.28	−24 53.7	2.388	3.289	8.6	21.5
3 22	11 56.61	−24 12.8	2.342	3.279	7.0	21.3
4 1	11 47.93	−23 11.7	2.325	3.269	6.8	21.3
4 11	11 40.10	−21 55.8	2.336	3.258	8.1	21.4
4 21	11 33.78	−20 32.0	2.373	3.247	10.3	21.5

329358 2001 SG_{338} 3 19.9 150°.13 0°.2/20.1 17

2 11	12 24.49	− 2 11.3	1.914	2.703	15.0	21.6
2 21	12 20.26	− 1 56.8	1.829	2.706	11.8	21.4
3 2	12 13.75	− 1 28.9	1.766	2.709	7.9	21.2
3 12	12 5.56	− 0 50.7	1.728	2.712	3.7	20.9
3 22	11 56.55	− 0 7.3	1.719	2.715	0.9	20.7
4 1	11 47.74	+ 0 35.4	1.739	2.718	5.3	21.0
4 11	11 40.10	+ 1 11.6	1.785	2.720	9.4	21.3
4 21	11 34.36	+ 1 37.1	1.856	2.722	13.0	21.5

160566 1998 SO_{156} 3 19.9 255°.65 0°.4/19.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.93	− 0 18.0	2.327	3.111	12.8	20.6
2 21	12 19.58	− 0 3.8	2.218	3.094	10.0	20.3
3 2	12 13.23	+ 0 20.8	2.132	3.077	6.7	20.1
3 12	12 5.34	+ 0 52.7	2.074	3.059	3.0	19.8
3 22	11 56.59	+ 1 28.1	2.045	3.040	1.0	19.6
4 1	11 47.84	+ 2 2.1	2.045	3.021	4.9	19.9
4 11	11 39.96	+ 2 30.0	2.074	3.002	8.7	20.1
4 21	11 33.62	+ 2 48.4	2.128	2.983	12.0	20.2

284620 2007 UW_{126} 3 19.9 237°.37 3°.1/16.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.67	+ 7 47.4	2.361	3.170	11.9	21.5
2 21	12 17.68	+ 8 32.1	2.272	3.164	9.1	21.3
3 2	12 11.84	+ 9 22.5	2.207	3.158	6.1	21.1
3 12	12 4.65	+10 13.4	2.170	3.151	3.5	20.9
3 22	11 56.78	+10 59.4	2.162	3.144	3.7	20.9
4 1	11 49.04	+11 35.3	2.183	3.137	6.5	21.1
4 11	11 42.21	+11 57.3	2.231	3.130	9.6	21.3
4 21	11 36.88	+12 3.8	2.303	3.123	12.4	21.4

198540 2004 XK_{122} 3 19.9 146°.86 2°.4/17.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.17	+ 4 35.9	2.357	3.158	12.1	20.9
2 21	12 17.96	+ 5 30.0	2.278	3.166	9.3	20.7
3 2	12 11.95	+ 6 32.2	2.224	3.175	6.1	20.5
3 12	12 4.66	+ 7 37.0	2.198	3.182	3.1	20.3
3 22	11 56.79	+ 8 38.8	2.202	3.189	3.0	20.3
4 1	11 49.12	+ 9 31.8	2.236	3.196	5.9	20.5
4 11	11 42.41	+10 11.8	2.296	3.202	9.1	20.7
4 21	11 37.20	+10 36.6	2.382	3.208	11.9	20.9

298966 2004 VN_{17} 3 19.9 101°.80 2°.1/18.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.35	+ 2 36.8	1.631	2.439	16.3	20.8
2 21	12 22.62	+ 3 20.3	1.568	2.458	12.6	20.6
3 2	12 15.33	+ 4 15.7	1.526	2.477	8.2	20.4
3 12	12 6.24	+ 5 16.3	1.510	2.496	3.7	20.1
3 22	11 56.41	+ 6 14.6	1.522	2.514	2.9	20.1
4 1	11 47.03	+ 7 3.0	1.562	2.531	7.0	20.4
4 11	11 39.18	+ 7 36.1	1.627	2.548	11.2	20.7
4 21	11 33.55	+ 7 51.5	1.715	2.564	14.7	20.9

432050 2008 XA_{37} 3 19.9 192°.80 0°.3/19.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.97	− 1 15.4	2.303	3.089	12.8	22.1
2 21	12 17.95	− 0 51.8	2.211	3.088	10.0	21.9
3 2	12 12.03	− 0 16.8	2.142	3.087	6.7	21.7
3 12	12 4.74	+ 0 26.1	2.101	3.086	3.0	21.5
3 22	11 56.77	+ 1 12.6	2.088	3.084	0.9	21.3
4 1	11 48.92	+ 1 57.4	2.105	3.082	4.7	21.6
4 11	11 42.00	+ 2 35.7	2.150	3.080	8.3	21.8
4 21	11 36.61	+ 3 3.8	2.220	3.078	11.5	22.0

100380 1995 VS_{10} 3 19.9 170°.90 2°.5/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.49	+ 5 56.6	2.395	3.196	12.0	20.4
2 21	12 18.99	+ 6 41.6	2.312	3.200	9.2	20.3
3 2	12 12.65	+ 7 33.4	2.253	3.202	6.1	20.1
3 12	12 4.99	+ 8 26.9	2.222	3.205	3.2	19.9
3 22	11 56.71	+ 9 16.6	2.221	3.207	3.1	19.9
4 1	11 48.61	+ 9 57.5	2.249	3.208	6.0	20.1
4 11	11 41.46	+10 25.7	2.306	3.209	9.1	20.3
4 21	11 35.82	+10 39.3	2.386	3.209	12.0	20.4

105881 2000 SZ_{178} 3 19.9 139°.37 0°.7/19.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.93	+ 1 17.2	2.783	3.567	10.9	20.6
2 21	12 17.49	+ 1 36.5	2.697	3.575	8.4	20.4
3 2	12 11.50	+ 2 3.3	2.637	3.582	5.5	20.2
3 12	12 4.43	+ 2 34.5	2.604	3.590	2.4	20.0
3 22	11 56.86	+ 3 6.5	2.602	3.597	1.2	19.9
4 1	11 49.45	+ 3 35.6	2.631	3.603	4.2	20.2
4 11	11 42.84	+ 3 58.3	2.688	3.610	7.2	20.4
4 21	11 37.51	+ 4 12.4	2.770	3.616	9.8	20.5

20244 1998 EF 3 19.9 327°.95 5°.9/14.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.72	+ 8 58.4	1.451	2.290	16.4	18.0
2 21	12 18.08	+10 32.4	1.378	2.287	12.6	17.7
3 2	12 12.68	+12 17.2	1.328	2.283	8.7	17.5
3 12	12 5.19	+14 2.0	1.303	2.280	6.0	17.3
3 22	11 56.65	+15 34.6	1.303	2.277	7.1	17.4
4 1	11 48.36	+16 44.6	1.329	2.274	10.7	17.6
4 11	11 41.55	+17 25.8	1.378	2.271	14.7	17.8
4 21	11 37.07	+17 37.1	1.445	2.269	18.3	18.0

237637 2001 SV_{57} 3 19.9 155°.97 2°.2/22.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.81	− 9 26.9	1.790	2.555	16.8	21.1
2 21	12 20.70	− 9 4.0	1.704	2.562	13.5	20.9
3 2	12 14.15	− 8 19.6	1.639	2.568	9.6	20.7
3 12	12 5.78	− 7 16.0	1.598	2.574	5.4	20.4
3 22	11 56.51	− 5 58.4	1.586	2.579	2.2	20.2
4 1	11 47.47	− 4 34.8	1.602	2.583	5.2	20.4
4 11	11 39.71	− 3 14.0	1.645	2.587	9.5	20.7
4 21	11 33.99	− 2 3.4	1.712	2.590	13.3	20.9

8866 Tanegashima 3 19.9 98°.09 3°.7/24.2 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.40	−13 14.4	2.504	3.229	13.5	17.4
2 21	12 18.87	−13 33.4	2.419	3.244	11.2	17.3
3 2	12 12.54	−13 36.7	2.357	3.260	8.4	17.1
3 12	12 4.93	−13 24.6	2.319	3.275	5.7	17.0
3 22	11 56.74	−12 59.1	2.311	3.290	3.8	16.9
4 1	11 48.72	−12 23.6	2.331	3.305	4.6	16.9
4 11	11 41.64	−11 42.9	2.380	3.320	7.1	17.1
4 21	11 36.04	−11 2.1	2.455	3.334	9.8	17.3

508415 2016 JU_{11} 3 19.9 260°.40 6°.3/12.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.65	+17 0.5	2.250	3.068	12.1	21.7
2 21	12 19.51	+18 16.8	2.159	3.048	9.7	21.5
3 2	12 13.24	+19 34.3	2.092	3.028	7.4	21.3
3 12	12 5.36	+20 45.4	2.052	3.007	6.3	21.2
3 22	11 56.62	+21 42.4	2.041	2.986	7.3	21.3
4 1	11 47.93	+22 19.5	2.056	2.965	9.7	21.4
4 11	11 40.21	+22 33.4	2.097	2.943	12.4	21.5
4 21	11 34.19	+22 24.2	2.158	2.920	15.0	21.6

369561 2011 BF_3 3 20.0 100°.72 1°.4/18.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.03	+ 1 29.0	1.843	2.647	14.9	21.6
2 21	12 19.89	+ 2 3.3	1.769	2.657	11.5	21.4
3 2	12 13.47	+ 2 49.3	1.717	2.668	7.6	21.1
3 12	12 5.42	+ 3 41.7	1.692	2.678	3.4	20.9
3 22	11 56.64	+ 4 34.2	1.694	2.688	2.1	20.8
4 1	11 48.14	+ 5 20.4	1.725	2.698	6.1	21.1
4 11	11 40.91	+ 5 54.6	1.782	2.707	10.1	21.4
4 21	11 35.60	+ 6 14.0	1.863	2.717	13.5	21.6

27125 Siyilee 3 20.0 131°.27 1°.4/21.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.22	− 6 2.9	1.716	2.494	16.9	19.6
2 21	12 22.57	− 5 47.1	1.639	2.507	13.4	19.3
3 2	12 15.37	− 5 12.9	1.583	2.520	9.3	19.1
3 12	12 6.32	− 4 23.3	1.551	2.532	4.7	18.9
3 22	11 56.41	− 3 23.8	1.548	2.543	1.4	18.7
4 1	11 46.81	− 2 21.8	1.572	2.554	5.4	19.0
4 11	11 38.62	− 1 24.8	1.624	2.564	9.8	19.2
4 21	11 32.60	− 0 38.7	1.700	2.573	13.7	19.5

313716 2003 UT_{118} 3 20.0 121°.02 1°.2/21.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.49	− 5 55.1	1.854	2.630	15.9	22.0
2 21	12 21.01	− 5 35.2	1.777	2.645	12.6	21.8
3 2	12 14.22	− 4 58.0	1.722	2.659	8.7	21.6
3 12	12 5.76	− 4 6.8	1.692	2.673	4.4	21.4
3 22	11 56.55	− 3 6.8	1.690	2.686	1.3	21.2
4 1	11 47.64	− 2 4.9	1.718	2.698	5.1	21.5
4 11	11 40.01	− 1 8.1	1.772	2.711	9.2	21.7
4 21	11 34.35	− 0 21.9	1.851	2.722	12.8	22.0

423519 2005 UR_{69} 3 20.0 182°.32 3°.7/24.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.06	−15 45.9	2.648	3.355	13.3	23.2
2 21	12 18.62	−15 37.6	2.544	3.357	11.1	23.0
3 2	12 12.42	−15 11.3	2.462	3.357	8.5	22.9
3 12	12 4.92	−14 27.5	2.405	3.357	5.8	22.7
3 22	11 56.76	−13 28.3	2.377	3.355	3.8	22.6
4 1	11 48.69	−12 18.2	2.379	3.354	4.5	22.6
4 11	11 41.45	−11 2.9	2.411	3.351	7.0	22.8
4 21	11 35.63	− 9 48.7	2.470	3.347	9.8	22.9

309298 2007 RJ_{239} 3 20.0 117°.13 3°.2/16.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.86	+ 5 33.7	1.850	2.657	14.7	21.3
2 21	12 21.97	+ 6 33.5	1.785	2.677	11.2	21.1
3 2	12 14.77	+ 7 41.9	1.744	2.695	7.4	20.9
3 12	12 5.97	+ 8 51.8	1.731	2.713	3.9	20.7
3 22	11 56.52	+ 9 55.5	1.746	2.731	3.9	20.8
4 1	11 47.46	+10 46.4	1.789	2.747	7.3	21.0
4 11	11 39.76	+11 19.8	1.859	2.764	10.9	21.2
4 21	11 34.06	+11 34.3	1.952	2.779	14.1	21.5

385421 2003 CL_{26} 3 20.0 23°.94 3°.4/15.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.10	+ 3 55.8	1.887	2.711	13.8	20.3
2 21	12 13.75	+ 5 32.9	1.816	2.717	10.5	20.1
3 2	12 9.39	+ 7 22.5	1.768	2.724	6.9	19.9
3 12	12 3.59	+ 9 16.2	1.748	2.732	3.8	19.7
3 22	11 57.11	+11 4.7	1.757	2.740	4.3	19.8
4 1	11 50.85	+12 39.0	1.793	2.748	7.6	20.0
4 11	11 45.67	+13 52.6	1.856	2.757	11.1	20.2
4 21	11 42.16	+14 42.7	1.940	2.767	14.2	20.5

38696 2000 QR_{58} 3 20.0 85°.13 5°.0/15.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.64	+ 8 17.0	1.465	2.296	16.7	19.2
2 21	12 20.96	+ 9 27.9	1.401	2.304	12.8	19.0
3 2	12 14.47	+10 47.6	1.358	2.312	8.7	18.8
3 12	12 5.96	+12 6.5	1.340	2.320	5.4	18.6
3 22	11 56.53	+13 14.5	1.348	2.328	6.0	18.7
4 1	11 47.50	+14 2.8	1.383	2.335	9.6	18.9
4 11	11 40.07	+14 26.7	1.441	2.343	13.6	19.1
4 21	11 35.02	+14 25.7	1.519	2.351	17.2	19.4